Canon

imageCLASS

LBP712Cdn

User's Guide

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Important Safety Instructions

Important Safety Instructions

0YS1-000

The content described in this chapter is for the prevention of damage to property and injury to users of the machine and others. Before using this machine, read this chapter and follow the instructions to properly use this machine. Do not perform any operations not described in this manual. Canon will not be responsible for any damages resulting from use not described in this manual, improper use, or repair/changes not performed by Canon or a third party authorized by Canon.

Installation

0YS1-001

To use this machine safely and comfortably, carefully read the following precautions and install the machine in an appropriate location.

⚠ WARNING

Do not install in a location that may result in a fire or electrical shock

- A location where the ventilation slots are blocked
  (too close to walls, beds, sofas, rugs, or similar objects)
- A damp or dusty location
- A location exposed to direct sunlight or outdoors
- A location subject to high temperatures
- A location exposed to open flames
- Near alcohol, paint thinners or other flammable substances

Other warnings

- Do not connect unapproved cables to this machine. Doing so may result in a fire or electrical shock.
- Do not place necklaces and other metal objects or containers filled with liquid on the machine. If foreign substances come in contact with electrical parts inside the machine, it may result in a fire or electrical shock.
- When installing and removing the optional accessories, be sure to turn OFF the power, unplug the power plug, and then disconnect all the interface cables and power cord from the machine. Otherwise, the power cord or interface cables may be damaged, resulting in a fire or electrical shock.
- If any foreign substance falls into this machine, unplug the power plug from the AC power outlet and contact your local authorized Canon dealer.

⚠ CAUTION

Do not install in the following locations

The machine may drop or fall, resulting in injury.

- An unstable location
- A location exposed to vibrations

Other cautions

- When carrying this machine, follow the instructions in this manual. If carried improperly, it may fall, resulting in injury.
- When installing this machine, be careful not to get your hands caught between the machine and the floor or walls. Doing so may result in injury.

Avoid poorly ventilated locations

- This machine generates a slight amount of ozone and other emissions during normal use. These emissions are not harmful to health. However, they may be noticeable during extended use or long production runs in

> ⚠ CAUTION
>
> poorly ventilated rooms. To maintain a comfortable working environment, it is recommended that the room where the machine operates be appropriately ventilated. Also avoid locations where people would be exposed to emissions from the machine.

IMPORTANT

Do not install in the following locations that may result in damage

- A location subject to dramatic changes in temperature or humidity
- A location near equipment that generates magnetic or electromagnetic waves
- A laboratory or location where chemical reactions occur
- A location exposed to corrosive or toxic gases
- A location that may warp from the weight of the machine or where the machine is liable to sink (a carpet, etc.)

Do not install in a location where condensation occurs

- Water droplets (condensation) may form inside the machine when the room where the machine is installed is heated rapidly, and when the machine is moved from a cool or dry location to a hot or humid location. Using the machine under these conditions may result in paper jams, poor print quality, or damage to the machine. Let the machine adjust to the ambient temperature and humidity for at least 2 hours before use.

In altitudes of above sea level 3,000 m or higher

- Machines with a hard disk may not operate properly when used at high altitudes of about 3,000 meters above sea level, or higher.

Power Supply

0YS1-002

This machine is compatible with voltages of 120 to 127 V, and electrical frequency of 60 Hz.

⚠ **WARNING**

- Use only a power supply that meets the specified voltage requirements. Failure to do so may result in a fire or electrical shock.
- Do not use power cords other than the one provided, as this may result in a fire or electrical shock.
- The provided power cord is intended for use with this machine. Do not connect the power cord to other devices.
- Do not modify, pull, forcibly bend, or perform any other act that may damage the power cord. Do not place heavy objects on the power cord. Damaging the power cord may result in a fire or electrical shock.
- Do not plug in or unplug the power plug with wet hands, as this may result in an electrical shock.
- Do not use extension cords or multi-plug power strips with the machine. Doing so may result in a fire or electrical shock.
- Do not wrap the power cord or tie it in a knot, as this may result in a fire or electrical shock.
- Insert the power plug completely into the AC power outlet. Failure to do so may result in a fire or electrical shock.
- Remove the power plug completely from the AC power outlet during a thunder storm. Failure to do so may result in a fire, electrical shock, or damage to the machine.

⚠ **CAUTION**

- Install this machine near the power outlet and leave sufficient space around the power plug so that it can be unplugged easily in an emergency.

IMPORTANT

When connecting power

- Do not connect the machine to an uninterruptible power source.
- If plugging this machine into an AC power outlet with multiple sockets, do not use the remaining sockets to connect other devices.
- Do not connect the power cord into the auxiliary outlet on a computer.

Other precautions

- Electrical noise may cause this machine to malfunction or lose data.

Handling

0YS1-003

⚠ WARNING

- Immediately unplug the power plug from the AC power outlet and contact an authorized Canon dealer if the machine makes an unusual noise, emits an unusual smell, or emits smoke or excessive heat. Continued use may result in a fire or electrical shock.

- Do not disassemble or modify this machine. There are high-voltage and high-temperature components inside the machine which may result in a fire or electrical shock.

- Place the machine where children will not come in contact with the power cord and other cables or internal and electrical parts. Failure to do so may result in unexpected accidents.

- Do not use flammable sprays near this machine. If flammable substances come into contact with electrical parts inside this machine, it may result in a fire or electrical shock.

- When moving this machine, be sure to turn OFF the power of this machine and your computer, and then unplug the power plug and interface cables. Failure to do so may damage the power cord or interface cables, resulting in a fire or electrical shock.

- When plugging or unplugging a USB cable when the power plug is plugged into an AC power outlet, do not touch the metal part of the connector, as this may result in an electrical shock.

If you are using a cardiac pacemaker

- This machine generates a low level magnetic flux. If you use a cardiac pacemaker and feel abnormalities, please move away from this machine and consult your physician immediately.

⚠ CAUTION

- Do not place heavy objects on this machine as they may fall, resulting in injury.

- For your safety, please unplug the power cord if the machine will not be used for a long period of time.

- Use caution when opening and closing covers to avoid injury to your hands.

- Keep hands and clothing away from the rollers in the output area. If the rollers catch your hands or clothing, this may result in personal injury.

- The inside of the machine and the output slot are very hot during and immediately after use. Avoid contact with these areas to prevent burns. Also, printed paper may be hot immediately after being output, so use caution when handling it. Failure to do so may result in burns.

⚠ CAUTION

- Do not carry the machine with the paper drawer or optional paper feeder installed. Otherwise, they may fall, resulting in injury.
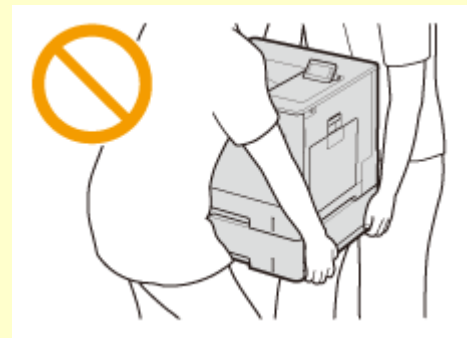
Laser beam

- If the laser beam should escape and enter your eyes, exposure may cause damage to your eyes.

IMPORTANT

When transporting the machine

To prevent damage to the machine during transport, perform the following.

- Remove the toner cartridges.
- Securely pack the machine in the original box with packing materials.

If the operating noise concerns you

- Depending on the use environment and operating mode, if the operating noise is of concern, it is recommended that the machine be installed in a place other than the office.

Other precautions

- Follow the instructions in the caution label attached to this machine.
- Avoid shaking or applying shock to this machine.
- Do not forcibly open and close doors, covers, and other parts. Doing so may result in damage to the machine.
- Do not touch the contacts (**a**) inside the machine. Doing so may result in damage to the machine.
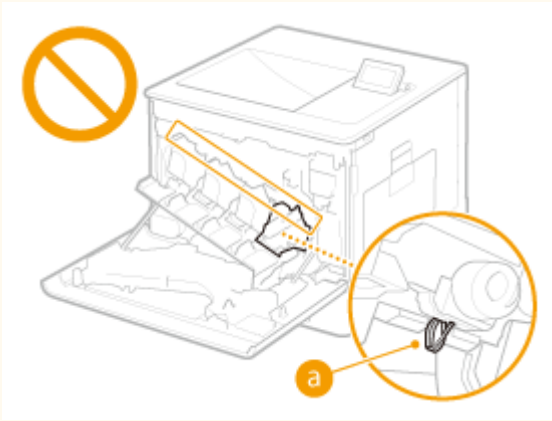
- To prevent a paper jam, do not turn OFF the power, open/close the covers, and load/unload the paper when printing.

Maintenance and Inspections

0YS1-004

Clean this machine periodically. If dust accumulates, the machine may not operate properly. When cleaning, be sure to observe the following. If a problem occurs during operation, see ⬤**Troubleshooting(P. 510)** . If the problem cannot be resolved or you feel the machine requires an inspection, see ⬤**When a Problem Cannot Be Solved(P. 560)** .

⚠ **WARNING**

- Before cleaning, turn OFF the power and unplug the power plug from the AC power outlet. Failure to do so may result in a fire or electrical shock.

- Unplug the power plug periodically and clean with a dry cloth to remove dust and grime. Accumulated dust may absorb humidity in the air and may result in a fire if it comes into contact with electricity.

- Use a damp, well wrung-out cloth to clean the machine. Dampen cleaning cloths with water only. Do not use alcohol, benzenes, paint thinners, or other flammable substances. Do not use tissue paper or paper towels. If these substances come into contact with electrical parts inside the machine, they may generate static electricity or result in a fire or electrical shock.

- Check the power cord and plug periodically for damage. Check the machine for rust, dents, scratches, cracks, or excessive heat generation. Use of poorly-maintained equipment may result in a fire or electrical shock.

⚠ **CAUTION**

- The inside of the machine has high-temperature and high-voltage components. Touching these components may result in burns. Do not touch any part of the machine that is not indicated in the manual.

- When loading paper or removing jammed paper, be careful not to cut your hands with the edges of the paper.

IMPORTANT

- When removing jammed paper or replacing toner cartridges or the like, be careful not to get any toner on your hands or clothing. If toner gets on your hands or clothing, wash them immediately with cold water.

Consumables

0YS1-005

⚠ WARNING

- Do not dispose of used toner cartridges or the like in open flames. Also, do not store toner cartridges or paper in a location exposed to open flames. This may cause the toner to ignite, and result in burns or fire.

- If you accidentally spill or scatter toner, carefully wipe up the loose toner with a damp, soft cloth and avoid inhaling any toner dust. Do not use a vacuum cleaner that is not equipped with safety measures to prevent dust explosions to clean up loose toner. Doing so may cause damage to the vacuum cleaner or result in a dust explosion due to static discharge.

⚠ CAUTION

- Use caution not to inhale any toner. If you should inhale toner, consult a physician immediately.

- Use caution so that toner does not get into your eyes or mouth. If toner should get into your eyes or mouth, immediately wash with cold water and consult a physician.

- Use caution so that toner does not come into contact with your skin. If it should, wash with soap and cold water. If there is any irritation on your skin, consult a physician immediately.

- Keep the toner cartridges and other consumables out of the reach of small children. If toner is ingested, consult a physician or poison control center immediately.

- Do not disassemble or modify the toner cartridge or the like. Doing so may cause the toner to scatter.

- When removing the sealing tape from the toner cartridge, pull it out completely but without using excessive force. Doing otherwise may cause the toner to scatter.

IMPORTANT

Handling the toner cartridge

- Be sure to hold the toner cartridge using the handle.
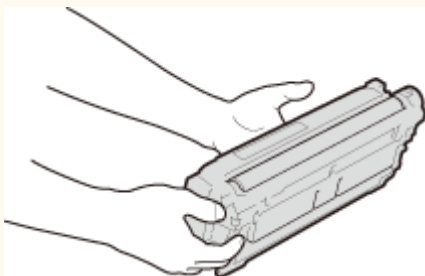
- To avoid scratching the surface (**a**) of the drum inside the machine or exposing it to light. Do not touch the electrical contacts (**b**) or the toner cartridge memory (**c**).
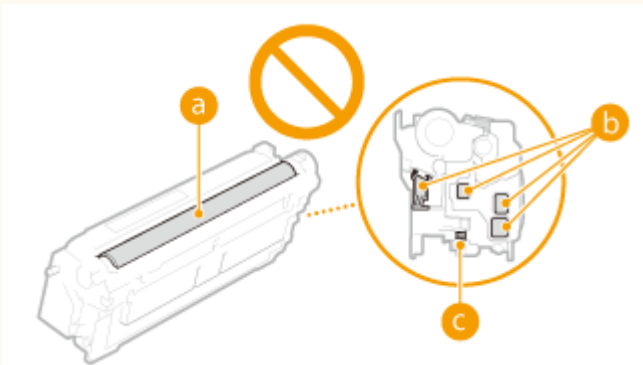
- Except when necessary, do not take out the toner cartridge from the packing material or from this machine.

- The toner cartridge is a magnetic product. Do not move it close to products susceptible to magnetism including floppy disks and disk drives. Doing so may result in data corruption.

Storing the toner cartridge

- Store in the following environment to ensure safe and satisfactory use.
  Storage temperature range: 32 to 95 °F (0 to 35 °C)
  Storage humidity range: 35 to 85% RH (relative humidity/no condensation)*

- Store without opening until the toner cartridge is to be used.

- When removing the toner cartridge from this machine for storage, place the removed toner cartridge in the original packing material or wrap it with a thick cloth.

- When storing the toner cartridge, do not store it upright or upside down. The toner will solidify and may not return to its original condition even if it is shaken.

* Even within the storable humidity range, water droplets (condensation) may develop inside the toner cartridge if there is a difference of temperature inside and outside the toner cartridge. Condensation will adversely affect the print quality of toner cartridges.

Do not store the toner cartridge in the following locations

- Locations exposed to open flames

- Locations exposed to direct sunlight or bright light for five minutes or more

- Locations exposed to excessive salty air

- Locations where there are corrosive gases (i.e. aerosol sprays and ammonia)

- Locations subject to high temperature and high humidity

- Locations subject to dramatic changes in temperature and humidity where condensation may easily occur

- Locations with a large amount of dust

- Locations within the reach of children

Be careful of counterfeit toner cartridges

- Please be aware that there are counterfeit Canon toner cartridges in the marketplace. Use of counterfeit toner cartridge may result in poor print quality or machine performance. Canon is not responsible for any malfunction, accident or damage caused by the use of counterfeit toner cartridge.
  For more information, see **canon.com/counterfeit** .

Availability period of repairing parts and toner cartridges and the like

- The repairing parts and toner cartridges and the like for the machine will be available for at least seven (7) years after production of this machine model has been discontinued.

Toner cartridge packing materials

- Save the packing materials for the toner cartridge. They are required when transporting this machine.

- The packing materials may be changed in form or placement, or may be added or removed without notice.

- After you pull out the sealing tape from the toner cartridge, dispose of it in accordance with the applicable local regulations.

When disposing of a used toner cartridge or the like

- When discarding a toner cartridge or the like, place it in the original packing material to prevent toner from scattering from inside, and dispose of it in accordance with the applicable local regulations.

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Basic Operations

Basic Operations

This chapter describes basic operations, such as how to use the operation panel or how to load the paper, that are frequently performed to use the functions of the machine.

■Parts and Their Functions

This section describes the exterior and interior parts of the machine and their functions, as well as how to use the keys on the operation panel and how to view the display. ❍**Parts and Their Functions(P. 16)**
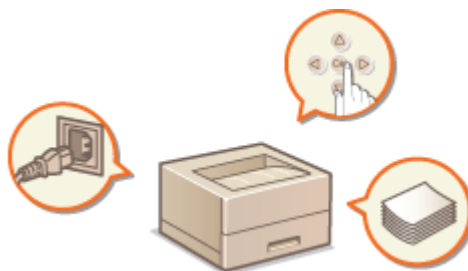
■Using the Operation Panel

This section describes how to use the keys on the operation panel to perform various operations, such as adjusting and checking the settings. ❍**Using the Operation Panel(P. 29)**

■Turning ON/OFF the Power

This section describes how to turn ON/OFF the power. ❍**Turning ON/OFF the Power(P. 34)**

■Loading Paper

This section describes how to load the paper into the paper drawer and multi-purpose tray. ❍**Loading Paper(P. 38)**

14
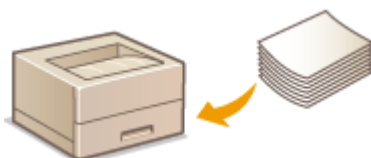
■ Saving Energy

This section describes how to reduce power consumption. **▶Saving Energy(P. 62)**

Parts and Their Functions

This section describes the parts of the machine (exterior, front and back side, and interior) and how they function. In addition to describing the parts of the machine used for such basic operations as loading paper and replacing the toner cartridges, this section also describes the keys on the operation panel and display. Read this section for tips on how to use the machine properly.

▶**Front Side(P. 17)**
▶**Back Side(P. 19)**
▶**Interior(P. 21)**
▶**Multi-Purpose Tray(P. 22)**
▶**Paper Drawer(P. 23)**
▶**Operation Panel(P. 24)**

Front Side

0YS1-008
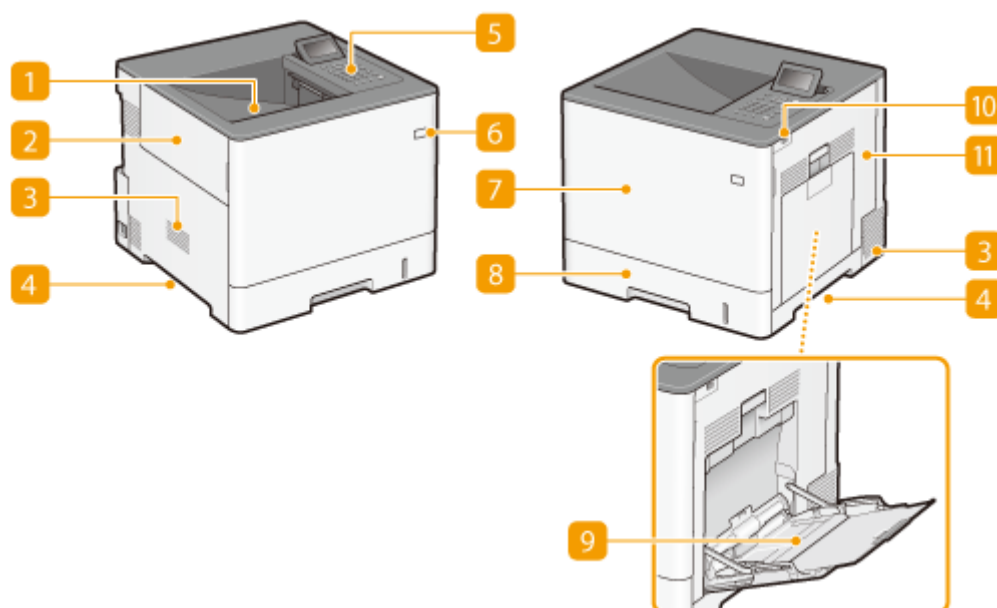
1 Output tray

Printed paper is output to the output tray.

2 Left cover

Open the left cover when replacing the waste toner container.

3 Ventilation slot

Air from inside the machine is vented out to cool down the inside of the machine. Note that placing objects in front of the ventilation slots prevents ventilation. **Installation(P. 3)**

4 Lift handles

Hold the lift handles when carrying the machine. **Relocating the Machine(P. 576)**

5 Operation panel

The operation panel consists of numeric keys, a display, status indicators, etc. You can perform all the operations and specify settings from the operation panel. **Operation Panel(P. 24)** **Display(P. 27)**

6 Power switch

Press the power switch to turn ON the power. When turning OFF the power, do not use this switch, but follow the procedures shown in **Turning OFF the Power (Performing a Shutdown)(P. 34)** .

7 Front cover

Open the front cover when replacing toner cartridges. **How to Replace Toner Cartridges(P. 571)**

17

8 Paper drawer

Load the type of paper you frequently use into the paper drawer. **◯Loading Paper in the Paper Drawer(P. 40)**

9 Multi-purpose tray

Load the paper into the multi-purpose tray when you want to temporarily use a type of paper different from that which is loaded in the paper drawer. **◯Loading Paper in the Multi-Purpose Tray(P. 46)**

10 USB memory port (For USB memory)

You can connect a USB memory device to the machine and directly print the data from the USB memory device. You can directly print the data in the USB memory device without using a computer. (**◯Printing from USB Memory (USB Direct Print)(P. 118)**). Also, connect a USB memory device when exporting or importing the settings of the machine (**◯Import/Export Set.(P. 434)**).

11 Right cover

Open the right cover when clearing paper jams. **◯Clearing Jams(P. 512)**

Back Side

0YS1-009
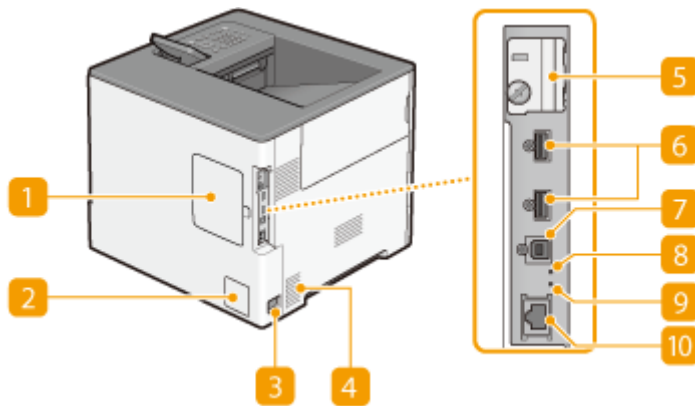
1 Back cover

Open the back cover to install the optional ROM. ▶**Installing the ROM(P. 630)**

2 Rating label

The label shows the serial number, which is needed when making inquiries about the machine. ▶**When a Problem Cannot Be Solved(P. 560)**

3 Power socket

Connect the power cord.

4 Ventilation slot

Air from inside the machine is vented out to cool down the inside of the machine. Note that placing objects in front of the ventilation slots prevents ventilation. ▶**Installation(P. 3)**

5 SD card slot cover

Open the SD card slot cover when installing the optional SD card. ▶**Installing an SD Card(P. 634)**

6 USB port (for USB device connection)

Connect a USB device that is used with MEAP applications.

7 USB port (for computer connection)

Connect a USB cable when connecting the machine and a computer.

8 ACT indicator

The ACT indicator blinks while data is being sent or received.

9 **LNK indicator**

The LNK indicator blinks green when the machine is properly connected to a network.

10 **LAN port**

Connect a LAN cable when connecting the machine to a wired LAN router, etc. **Connecting to a Wired LAN(P. 188)**

Interior

0YS1-00A
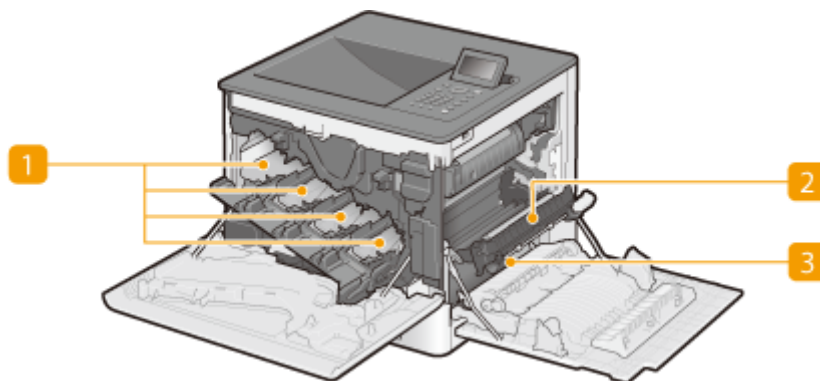
1 Toner cartridge slots

Load the toner cartridges in these slots: Y (yellow) in the leftmost slot, followed by M (magenta), C (cyan), and K (black). ●**How to Replace Toner Cartridges(P. 571)**

2 Delivery unit

If there is a paper jam inside the machine, raise the transport guide to remove the jammed paper. ●**Clearing Jams(P. 512)**

3 Transport guide

If paper has jammed inside the machine, lift up the delivery unit and open this guide to remove the jammed paper. ●**Clearing Jams(P. 512)**

Multi-Purpose Tray

0YS1-00C
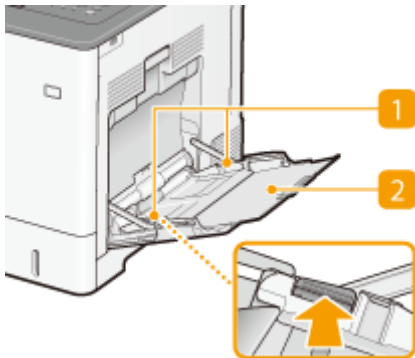
1 Paper guides

Adjust the paper guides to exactly the width of the loaded paper to ensure that paper is fed straight into the machine. Press the lock release lever that is marked with arrow in the illustration to release the lock and slide the paper guides.

2 Paper tray

Pull out the paper tray when loading paper.

LINKS

Loading Paper in the Multi-Purpose Tray(P. 46)

Paper Drawer
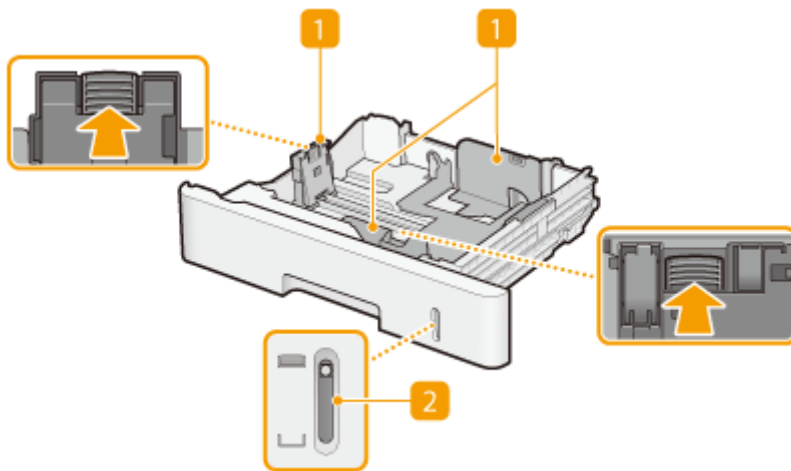
◻1 Paper guides

Adjust the paper guides to exactly the size of the loaded paper to ensure that paper is fed straight into the machine. Press the lock release levers that are marked with arrows in the illustrations to release the locks and slide the paper guides.

◻2 Paper level indicator

Indicates the remaining amount of paper. The mark moves downward as the remaining amount of paper decreases.

LINKS

◯Loading Paper in the Paper Drawer(P. 40)

Operation Panel

0YS1-00F
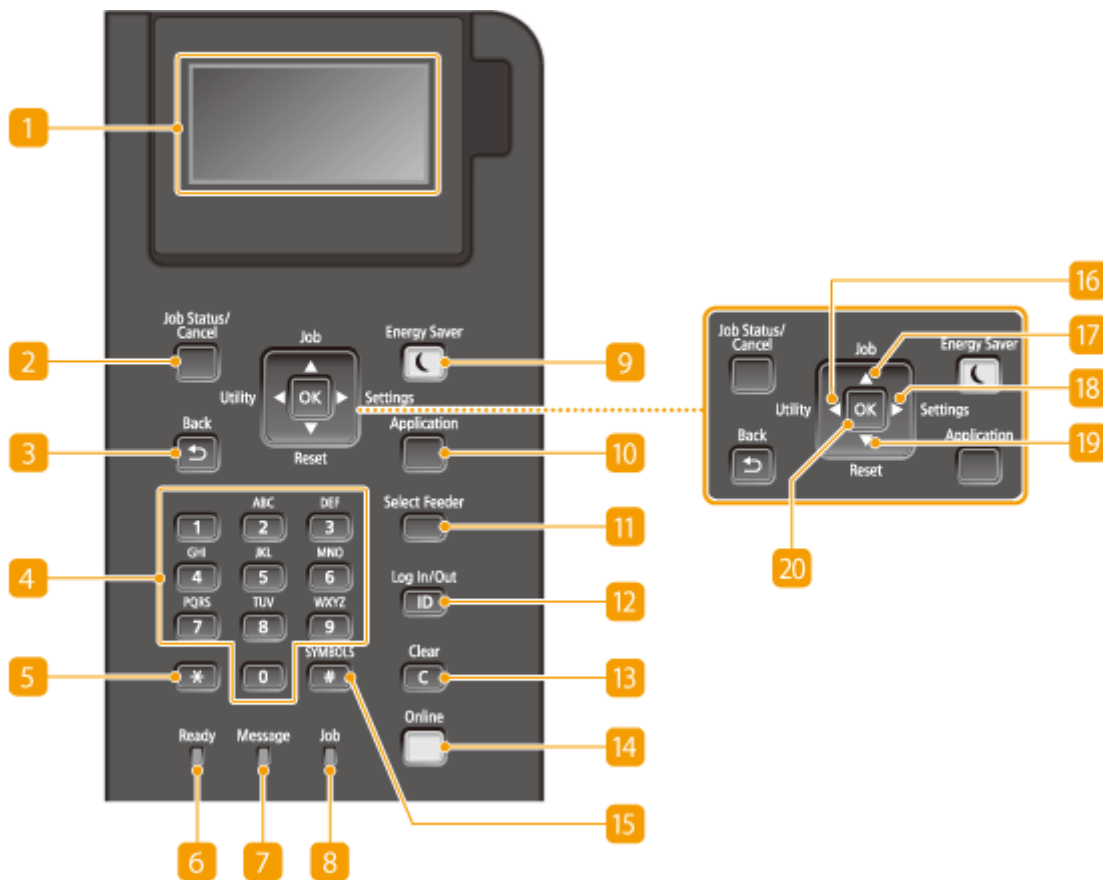
1 Display

Displays the current printing or other operation status, error information, amount remaining in the toner cartridge, etc. ▶**Display(P. 27)**

2 [Job Status/Cancel] key

If you press this key when the [Job] indicator is lit or blinking, a document being printed and documents waiting to be printed are listed. You can select the document from the list and cancel printing of the document. ▶**From the Operation Panel(P. 79)**

3 [Back] key

Press to return to the previous screen. If you press this key when specifying settings, for example, the settings are not applied and the display returns to the previous screen.

4 Numeric keys ([0]-[9] keys)

Press to enter numbers and text. ▶**Entering Text(P. 32)**

5 [*] key

Press to switch the type of text that is entered.

24

6 **[Ready] indicator**

Lights up when the machine is ready for printing or otherwise blinks.

7 **[Message] indicator**

- Lights up when a problem occurs to disable printing. **○Troubleshooting(P. 510)**

- Lights up if the machine enters sleep mode while being off line.

8 **[Job] indicator**

Lights up when the machine is receiving print data or any print data remains in the memory of the machine. Blinks when print data is being processed.

9 **[Energy Saver] key**

Press to put the machine into sleep mode. This key lights up in green when the machine is in sleep mode. Press the key again to exit sleep mode. **○Entering Sleep Mode(P. 63)**

10 **[Application] key**

Each press of this key cycles through the functions in the order of: Print Screen ▶ MEAP1 ▶ MEAP2 ▶ ... ▶ MEAP8 ▶ USB Direct Print ▶ Print Screen. Select the function you want to use. If you press this key without logging on when department ID management is enabled, the authentication screen is displayed.

11 **[Select Feeder] key**

Press to select the paper source or specify the paper size. **○Select Feeder Menu(P. 501)**

12 **[ID] key**

Displays the login screen for using the MEAP function. After you finish using the machine, press this key again to log off.

13 **[Clear] key**

Press to delete the entered numbers and text.

14 **[Online] key**

Switches between online mode (printing jobs are accepted) and offline mode (no printing job is accepted). This key lights up green when the machine is online and goes off when the machine is offline. Usually, keep the machine online, but set it to offline when specifying settings of **○User Maintenance(P. 421)** in the setting menu.

NOTE:

- If you do not operate the key for 2 minutes when the machine is offline and the **○Main Screen(P. 27)** is displayed, the machine automatically becomes online. You can select <Auto Reset Time> to change this time value (**○Auto Reset Time(P. 366)**).

15 **[#] key**

Press to enter symbols such as "@" or "/".

16 [Utility] key/[◀] key

- Displays the Utility menu. You can display the total number of printed pages and print internal system information for checking. ◗**Utility Menu(P. 492)**

- When specifying settings, press to return to the previous screen. When entering text, press to move the cursor to the left.

17 [Job] key/[▲] key

- Displays the Job menu. You can check the print logs. ◗**Job Menu(P. 497)**

- When specifying settings, press to select the item immediately above the currently selected item. When changing setting values, press to increase a value.

18 [Settings] key/[▶] key

- Displays the Setup menu. You can specify settings of the machine. ◗**Setup Menu(P. 363)**

- When specifying settings, press to proceed to the next screen. When entering text, press to move the cursor to the right.

19 [Reset] key/[▼] key

- Displays the Reset menu. You can cancel all processes, delete data in memory, and turn OFF the power. ◗ **Reset Menu(P. 499)**

- When specifying settings, press to select the item immediately below the currently selected item. When changing setting values, press to decrease a value.

20 [OK] key

Press to apply settings or specified details.

LINKS

◗**Using the Operation Panel(P. 29)**

Display

0YS1-00H

Ready to print.   LT

Y■ M■ C■ K■

The display shows the printing status and the screens for specifying settings. It also shows error messages and the amount remaining in the toner cartridge.

Main Screen

ⓐ Ready to print.   LT ⓑ

Y■ M■ C■ K■ ⓒ
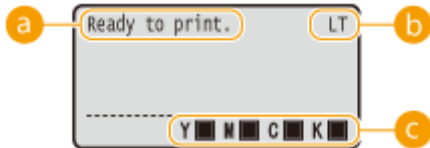
ⓐ Status indication

Displays the current status or operation mode of the machine.

ⓑ Paper size indication

Displays the currently selected paper size.

NOTE:

The following paper sizes are shown in an abbreviated form.

- Legal: LG
- Letter: LT
- Statement: ST
- Executive: EX
- Foolscap: FC
- Index Card: IC
- Postcard: PD
- Reply Postcard: P2
- 4 on 1 Postcard: P4

- Envelope NAGAGATA 3: N3
- Envelope YOUGATANAGA 3: YN3
- Envelope No. 10 (COM10): CO
- Envelope Monarch: MO
- Envelope C5: EC5
- Envelope DL: DL
- Free Size: FR
- Custom Paper Size Landscape: 80R
- Custom Paper Size Portrait: 80

ⓒ Remaining toner cartridge indication

The amount of remaining toner cartridge is indicated.

Menu Screen

Press ◀ (Utility), ▲ (Job), ▶ (Settings), ▼ (Reset), or ▭ (Select Feeder) to display the corresponding menu screen. The screen displayed when ▶ (Settings) is pressed is shown below as an example.

Setup
Control Menu
Paper Source
Network
Layout
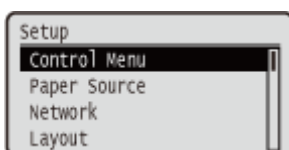
●Setting Menu List(P. 362)

When an Error Occurs

In some cases when an error occurs, instructions on how to respond to the error are displayed. Follow the on-screen instructions to solve the problem. The screen displayed when a paper jam occurs is shown below as an example. **When an Error Message Appears(P. 520)**
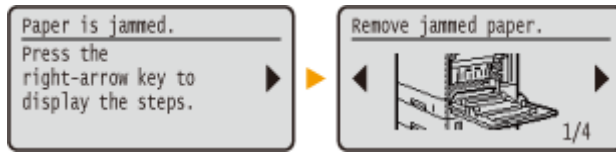
LINKS

Using the Operation Panel(P. 29)

Using the Operation Panel

Use the keys shown below to specify settings and adjust values.

Using ▲ / ▼

■Scrolling the Screen

The scroll bar is displayed on the right side of the screen when not all of the information fits on one screen. If the scroll bar is displayed, use ▲ / ▼ to scroll up or down. The text and background colors of an item are inverted when it is selected.
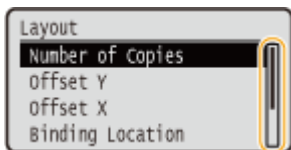
■Changing a Setting Value

Use ▲ / ▼ to enter values.
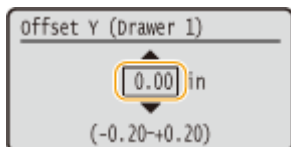
NOTE:

● Values in ( ) displayed below the entry box are the enterable value range.

Using ◀ / ▶

■ Proceeding to the Next Screen/Returning to the Previous Screen

Press ▶ to proceed to the next screen. Press ◀ to return to the previous screen.

```
Halftones
 Error Diffusion
 Resolution/Grad.
```
▶
◀
```
Resolution/Grad.
 Text
 Graphics
 Image
```
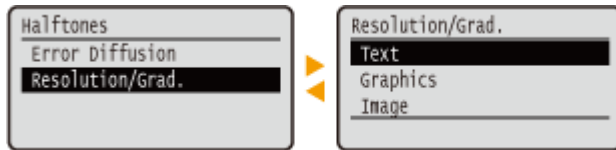
NOTE:

- You can also proceed to the next screen by pressing [OK], and return to the previous screen by pressing [↩] .

■ Moving the Cursor

Use ◀ / ▶ to enter text and values. **○ Entering Text(P. 32)**

```
Time
      ▲
  11:30:20 AM
      ▼
  (fix : OK key)
```

Using [OK]

Press [OK] to apply a setting.

```
Execute?
 No
 Yes
```
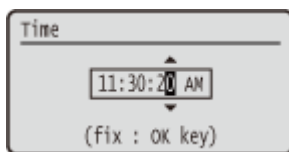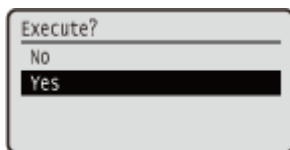
Using [ ](Online)

To return to the main screen after exiting the setting menu, press [ ] (Online).

```
Print Quality
 Gradation
 Toner Save
 Density: C
 Density: M
```
▶
```
Ready to print.       LT


 --------------------
           Y■ M■ C■ K■
```
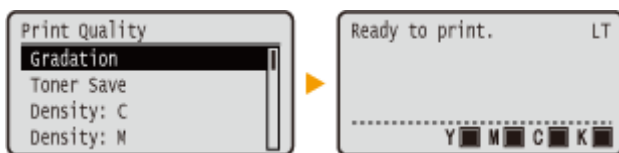
Using the Numeric Keys

Use the numeric keys to enter text and values. **○ Entering Text(P. 32)**

```
Password
 ▌


fix : OK key
Entry Mode: a
```
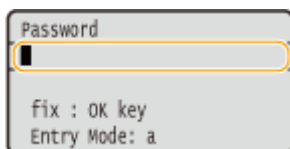
NOTE:

- Depending on the screen, you cannot use the numeric keys to enter values. In that case, enter with ▲ / ▼ .

TIPS

- You can specify a variety of display-related settings, such as the screen adjustment and display language, by using <Control Menu> in the setting menu of the operation panel. **Control Menu(P. 364)**

Entering Text

0YS1-00K

Use the numeric keys to enter text and values.

Switching the Type of Text

Press ✱ to switch the type of text that is entered.
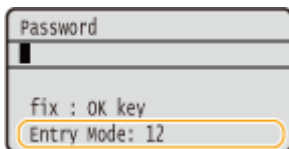
Types of Text That Can Be Entered

Text that can be entered is listed below.

Key	A	a	12
1	@ . - _ /		1
2	ABC	abc	2
3	DEF	def	3
4	GHI	ghi	4
5	JKL	jkl	5
6	MNO	mno	6

7	PQRS	pqrs	7
8	TUV	tuv	8
9	WXYZ	wxyz	9
0	(Not available)		0
#	(space) -.*#!",;:^`_=/|'?$@%&+\~()[]{}<>		(Not available)

NOTE

- Press `#` when the type of text that is entered is \<A\> or \<a\> to display enterable symbols in the screen. Use ▲ / ▼ / ◀ / ▶ to select the symbol you want to enter, and press `OK`.

Deleting Text

One character is deleted each time `C` is pressed. Press and hold `C` to delete all of the entered text.

Moving the Cursor

Press ◀ or ▶ to move the cursor.

Entering a Space

Press `#` , and press `OK` .

Example of Entering Text and Numbers

Example: "Canon 1"

1 Press `*` repeatedly until \<A\> is selected.

2 Press `2` repeatedly until the letter "C" is selected.

3 Press `*` repeatedly until \<a\> is selected.

4 Press `2` repeatedly until the letter "a" is selected.

5 Press `6` repeatedly until the letter "n" is selected.

6 Press `6` repeatedly until the letter "o" is selected.

7 Press `6` repeatedly until the letter "n" is selected.

8 Press `#` , and press `OK` .

9 Press `*` repeatedly until \<12\> is selected.

10 Press `1` .

11 Press `OK` .

Turning ON/OFF the Power

0YS1-00L

The power switch is used to turn ON the machine. However, when turning OFF the machine, be sure to shut down the machine from the operation panel without using the power switch. This procedure is the same as that for turning ON/OFF a computer.

�»**Turning ON the Power(P. 34)**
�»**Turning OFF the Power (Performing a Shutdown)(P. 34)**

Turning ON the Power

Press the power switch of the machine. When the main screen appears on the display of the operation panel after self-diagnosis is performed, the machine is ready for printing.


```
Ready to print.          LT


------------------------
            Y█ M█ C█ K█
```
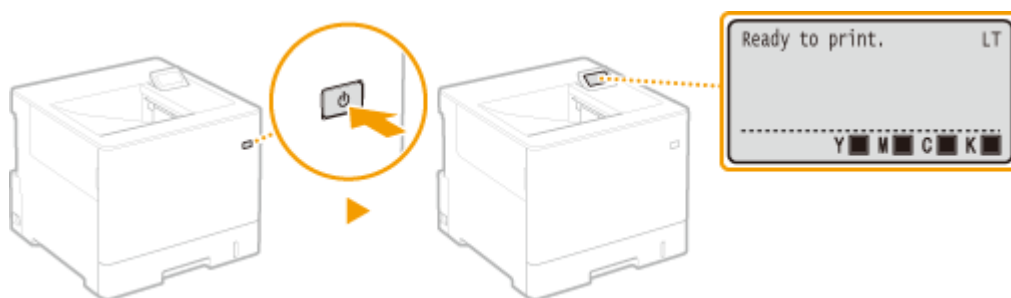
NOTE

- If a message is displayed after the self-diagnosis �»**When an Error Message Appears(P. 520)**

- If you specify the quick startup settings, you can reduce a waiting time after the power is turned on. �»
  Performing a Quick Start of the Machine(P. 36)

Turning OFF the Power (Performing a Shutdown)

When turning OFF the machine, shut down the machine from the operation panel.

IMPORTANT

Performing a Shutdown without Using the Power Switch

- If you press the power switch to turn OFF the power, an unexpected error may occur. Follow the procedure below to properly turn OFF the power.

NOTE

- If you have enabled the quick start function, you can press the power switch to turn OFF the power. �»
  Performing a Quick Start of the Machine(P. 36)

1 **Press ▼ (Reset).**

2 Use ▲ / ▼ to select <Shut Down>, and press ⊙.

```
Reset
  Soft Reset
  Form Feed
  Shut Down
```

3 Select <Yes>, and press ⊙.

```
Execute?
  No
  Yes
```
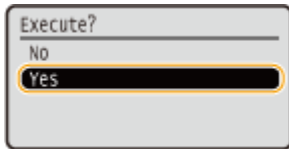
➠ After the message below appears, the power is automatically turned OFF.

```
Shutting_down...

        🕐
```

IMPORTANT:

When <Could not execute.> appears

- There is remaining print data. Delete the data (▶**Reset Menu(P. 499)**), and retry the operation. To cancel the operation, press ▭ (Online).

NOTE:

- It may take a maximum of 10 minutes until the power is turned OFF, but it is not a failure.

IMPORTANT

Do not turn ON the power immediately after turning OFF the power

- Wait for 10 seconds or more, and then turn ON the power.

NOTE

- The machine slightly consumes power even after the power is turned OFF. To completely eliminate power consumption, unplug the power plug from the AC power outlet.

LINKS

Performing a Quick Start of the Machine(P. 36)

Performing a Quick Start of the Machine

0YS1-00R

If you specify the quick startup settings, you can reduce the time from when the power switch is pressed until the screens become operable. The way of turning OFF the power to perform a quick start of the machine is called "quick turn-OFF."

◯**Configuring Quick Startup Settings(P. 36)**
◯**Turning OFF the Power (Performing a Quick Turn-OFF)(P. 37)**

Before Configuring Quick Startup Settings

■When you are using a network
If any of the settings below is <On>, the quick start function is disabled.

- RARP, BOOTP, IPv6 ◯**Network(P. 185)**
- IPSec ◯**Configuring IPSec Settings(P. 301)**

■When you are using the MEAP function
Check whether the currently installed MEAP applications support the quick start function.

Configuring Quick Startup Settings

1 Press ▶ (Settings).

2 Use ▲ / ▼ to select <Control Menu>, and press [OK].

3 Select <Main Pwr Quick Start>, and press [OK].

4 Select <On>, and press [OK].

**ⓐ <Off>**

Disables the Quick Start function.

ⓑ <On>

Enables the Quick Start function.

5 Perform a hard reset. ◯**Performing a Hard Reset(P. 499)**

➠ The settings are enabled after the hard reset is performed.

Turning OFF the Power (Performing a Quick Turn-OFF)

If you press the power switch to turn OFF the power when the quick start function is enabled, a quick start of the machine is performed when the machine is turned ON next time (quick turn-OFF).
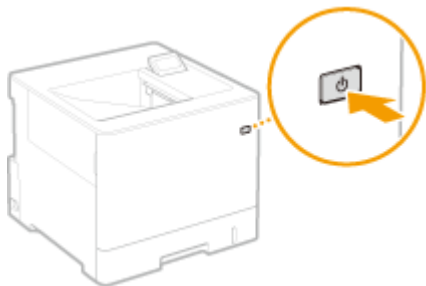
IMPORTANT

Do not unplug the power plug from the AC power outlet after performing a quick turn-OFF

- Do not unplug the power plug from the AC power outlet after turning OFF the power by performing a quick turn-OFF. Doing so may damage the internal components of the machine. Before you unplug the power plug when relocating the machine, turn ON the power, and then perform a shutdown. **Turning OFF the Power (Performing a Shutdown)(P. 34)**

NOTE

- When the machine is performing a job or is in an error state or after you change any setting using the operation panel or Remote UI, pressing the power switch does not trigger a quick turn-OFF, but triggers a shutdown instead.
- If the power is turned OFF by a shutdown operation even when the quick start function is enabled, the machine starts as usual when it is turned ON next time.
- If you perform the auto shutdown timer function when the quick start function is enabled, a quick turn-OFF is performed. **Setting Auto Shutdown Time(P. 66)**
- If you turn ON the power immediately after performing a quick turn-OFF, it may take some time for the machine to start up.

Loading Paper

0YS1-00S

You can load paper into the paper drawer and multi-purpose tray. Load the paper you usually use into the paper drawer. The paper drawer is convenient when using large amounts of paper. Use the multi-purpose tray when you temporarily use size or type of paper that is not loaded in the paper drawer. See ⬤**Paper(P. 621)** for available paper sizes.
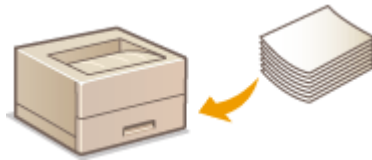
Paper Type and Setting for the Machine

See the table below to specify the paper settings according to the type and weight of the paper to load into the paper source. For more information about how to specify the paper settings on the machine, see ⬤**Specifying Paper Size and Type(P. 57)** . For the amount of paper that can be loaded in each paper source, see ⬤ **Paper(P. 621)** .

Paper Type	Paper Weight	Paper Setting on the Machine
Plain paper [*1]	16 lb Bond (60 g/m²)	<Plain L2>
	17 to 19 lb Bond (61 to 74 g/m²)	<Plain L>
	20 to 24 lb Bond (75 to 90 g/m²)	<Plain>
Heavy paper	25 to 31 lb Bond (91 to 119 g/m²)	<Heavy 1>
	32 to 34 lb Bond (120 to 128 g/m²)	<Heavy 2>
	35 lb Bond to 74 lb Cover (129 to 200 g/m²)	<Heavy 3>
	75 to 79 lb Cover (201 to 216 g/m²)	<Heavy 4>
Rough paper	16 to 19 lb Bond (60 to 74 g/m²)	<Rough 1>
	20 to 27 lb Bond (75 to 105 g/m²)	<Rough 2>
Postcard/Reply Postcard/4on1 Postcard [*2]	—	<Postcard>
Envelope	—	<Envelope>
Label	—	<Labels>

[*1] Recycled paper is also available.

[*2] The inkjet printable postcard or reply postcard can not be used.

> **IMPORTANT**
>
> ### Do not use the following types of paper:
>
> - Wrinkled or creased paper
> - Curled or rolled paper
> - Torn paper
> - Damp paper

- Very thin paper
- Paper printed by a thermal transfer printer
- Highly textured paper
- Glossy paper
- Paper with low stiffness

Paper handling and storage

- Store the paper on a flat surface.
- Keep the paper wrapped in its original package to protect the paper from moisture or dryness.
- Do not store the paper in such a way that may cause it to curl or fold.
- Do not store the paper vertically or stack too much paper.
- Do not store the paper in direct sunlight, or in a place subject to high humidity, dryness, or drastic changes in temperature or humidity.

NOTE

When printing on paper that has absorbed moisture

- Steam may emit from the paper output area, or water droplets may form on and around the paper output area. There is nothing unusual about any of these occurrences, which occur when the heat generated from fixing toner on the paper causes moisture in the paper to evaporate (most likely to occur at low room temperatures).

Loading Paper in the Paper Drawer

0YS1-00U

Load the paper that you usually use in the paper drawer. When you want to print on paper that is not loaded in the paper drawer, load the paper in the multi-purpose tray. **Loading Paper in the Multi-Purpose Tray(P. 46)**

Loading Standard Size Paper(P. 40)
Loading a Custom Size Paper(P. 42)

Paper Orientation

See the table below to load available paper in correct orientation.

Paper	Orientation
A4, B5, A5 (landscape), A6, Legal *, Letter, Statement, Executive, Foolscap *, 16K, Indian Legal *, Government Legal *, Government Letter, Australia Foolscap *, Custom (landscape)	
A5 (portrait), Custom (portrait)	

* Can be loaded only in the optional paper feeder.

NOTE

- Follow the procedure below when loading paper into the optional paper feeder.

Loading Standard Size Paper

To load paper whose size is found in the paper size markings on the paper drawer, use the following procedure. For paper whose size is not found in the paper size markings, see **Loading a Custom Size Paper(P. 42)** .

1 **Pull out the paper drawer until it stops.**
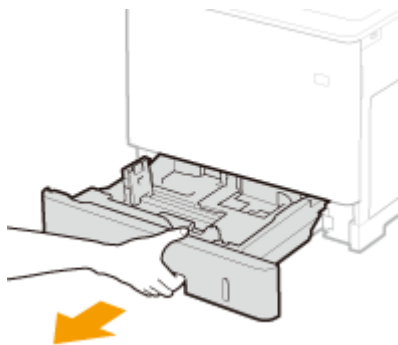
2 **Adjust the positions of the paper guides to the paper size you want to use.**

- Press the lock release lever (**a**) to align the projection (**b**) to the appropriate paper size marking.
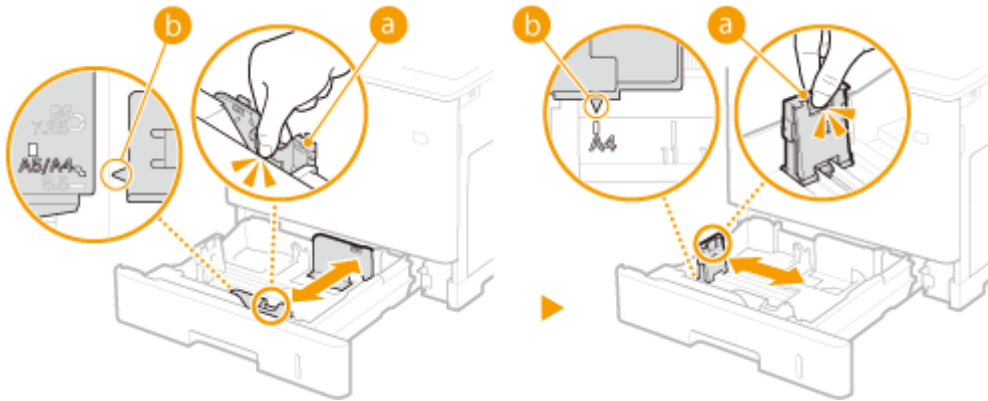
3 **Load the paper so that the edge of the paper stack is aligned against the paper guide on the left side of the paper drawer.**

- Insert the paper with the print side face up.
- Fan the paper stack well, and tap it on a flat surface to align the edges.

IMPORTANT:

Do not exceed the load limit line when loading paper

- Make sure that the paper stack does not exceed the load limit line (**a**). Loading too much paper can cause paper jams.

NOTE:

- When loading paper with a logo, see **Loading Preprinted Paper(P. 53)** .

4 **Set the paper drawer.**

IMPORTANT:

When changing the paper size or type

- The factory default settings for paper size and type are <LTR> and <Mixed Types>, respectively. If you load a different size or type of paper into the machine, make sure to change the setting. If you do not change the paper size or type setting, the machine cannot print properly.

NOTE:

Automatic detection of paper type

- The machine is provided with a function for automatic paper type detection. If this function is enabled, it is not necessary to change paper type settings when you load plain or heavy paper. ◖**Auto Detect Ppr Type(P. 505)**

NOTE

- When you want to print a document from an environment not allowing you to make settings for paper size and paper type, such as from a computer running an operating system or a mobile device that does not support any printer driver, set <Standard Paper Size> and <Default Paper Type>. ◖**Select Feeder Menu(P. 501)**

Printing on the Back Side of Printed Paper (Manual 2-Sided Printing)

You can print on the back side of printed paper. Flatten any curls on the printed paper and insert it into the multi-purpose tray (◖**Loading Paper in the Multi-Purpose Tray(P. 46)**), with the side to print face down (previously printed side face down).

- When you want to print on the back side of the paper that is already printed, set <Manual 2-Sided (MP)> to <2nd Side> in the setting menu of the operation panel. ◖**Manual 2-Sided (MP)(P. 507)**

- Load one sheet of paper each time you print.

- You can use only the paper printed with this machine.

- You cannot print on the side that has previously been printed on.

Loading a Custom Size Paper

To load custom size paper or other paper whose size is not found in the paper size markings on the paper drawer, use the following procedure.

1 **Pull out the paper drawer until it stops.**

2 **Slide the paper guides apart.**

- Press the lock release lever to slide the paper guides outward.

3 Load the paper so that the edge of the paper stack is aligned against the right side of the paper drawer.
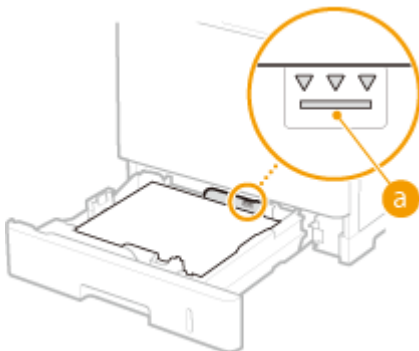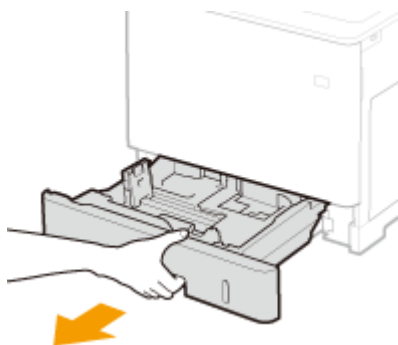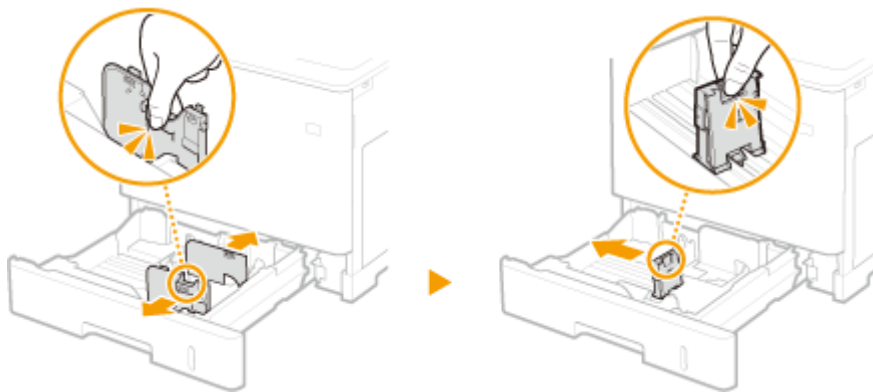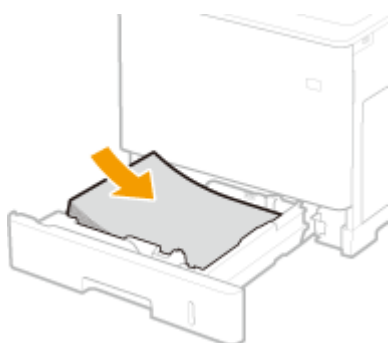
- Place the paper stack with the print side face up.
- Fan the paper stack well, and tap it on a flat surface to align the edges.

IMPORTANT:

Do not exceed the load limit line when loading paper

- Make sure that the paper stack does not exceed the load limit line (a). Loading too much paper can cause paper jams.
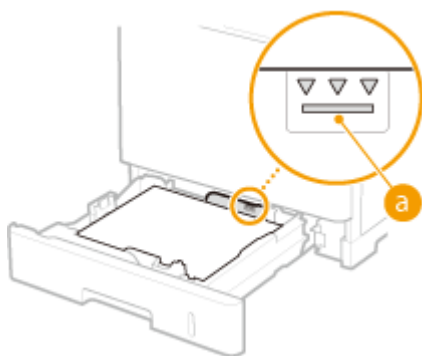
NOTE:

- When loading paper with a logo, see ▶**Loading Preprinted Paper(P. 53)** .

4 Align the paper guides against the edges of the paper.

- Press the lock release lever and slide the paper guides inward until they are aligned securely against the edges of the paper.

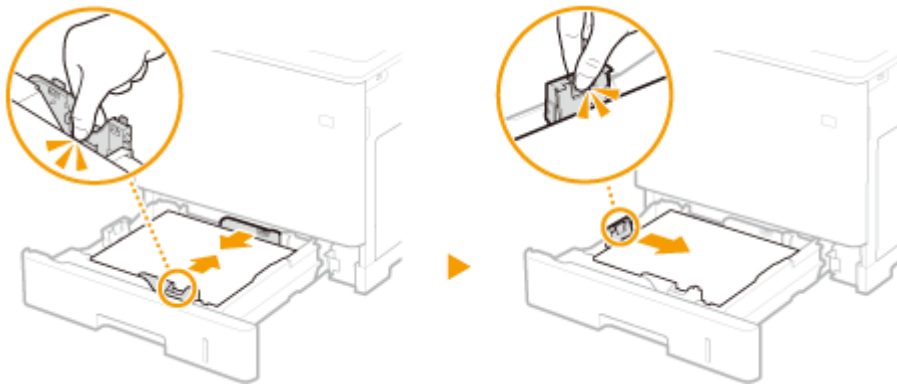**IMPORTANT:**

Align the paper guides securely against the edges of the paper

- Paper guides that are too loose or too tight can cause misfeeds or paper jams.

5 **Set the paper drawer.**

» **Continue to** ▶**Specifying Paper Size and Type in the Paper Drawer(P. 58)**

IMPORTANT:

When changing the paper size or type

- If you load a different size or type of paper into the machine, make sure to change the settings. If you do not change the paper size or type setting, the machine cannot print properly.

NOTE:

Automatic detection of paper type

- The machine is provided with a function for automatic paper type detection. If this function is enabled, it is not necessary to change paper type settings when you load plain or heavy paper. ▶**Auto Detect Ppr Type(P. 505)**

> **NOTE**
>
> - When you want to print a document from an environment not allowing you to make settings for paper size and paper type, such as from a computer running an operating system or a mobile device that does not support any printer driver, set <Standard Paper Size> and <Default Paper Type>. ▶**Select Feeder Menu(P. 501)**

Printing on the Back Side of Printed Paper (Manual 2-Sided Printing)

You can print on the back side of printed paper. Flatten any curls on the printed paper and insert it into the multi-purpose tray (▶**Loading Paper in the Multi-Purpose Tray(P. 46)**), with the side to print face down (previously printed side face down).

- When you want to print on the back side of the paper that is already printed, set <Manual 2-Sided (MP)> to <2nd Side> in the setting menu of the operation panel. ▶**Manual 2-Sided (MP)(P. 507)**

- Load one sheet of paper each time you print.

- You can use only the paper printed with this machine.

- You cannot print on the side that has previously been printed on.

LINKS

Paper(P. 621)

Loading Paper in the Multi-Purpose Tray

0YS1-00W

When you want to print on paper that is not loaded in the paper drawer, load the paper in the multi-purpose tray. Load the paper that you usually use in the paper drawer. **⊙Loading Paper in the Paper Drawer(P. 40)**

Paper Orientation

See the table below to load available paper in correct orientation.

| Paper	Orientation
A4, B5, A5 (landscape), A6, Legal, Letter, Statement, Executive, Foolscap, 16K, Index Card, Indian Legal, Government Legal, Government Letter, Australia Foolscap, Custom (landscape), Postcard, Reply Postcard, 4 on 1 Postcard, Envelope	
A5 (portrait), Custom (portrait)	

1 **Open the cover.**

2 **Pull out the paper tray.**

3 **Spread the paper guides apart.**

● Press the lock release lever to slide the paper guides outward.

46
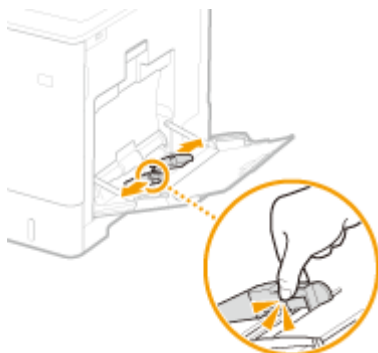
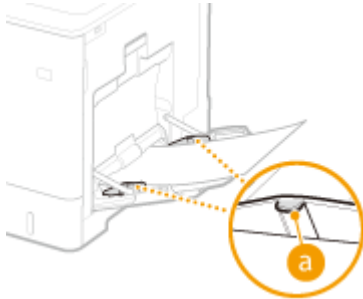**4** **Insert the paper into the multi-purpose tray until the paper stops.**

- Insert the paper with the print side face down.
- Fan the paper stack well, and tap it on a flat surface to align the edges.

IMPORTANT:

Do not exceed the load limit guide when loading paper

- Make sure that the paper stack does not exceed the load limit guide (a). Loading too much paper can cause paper jams.
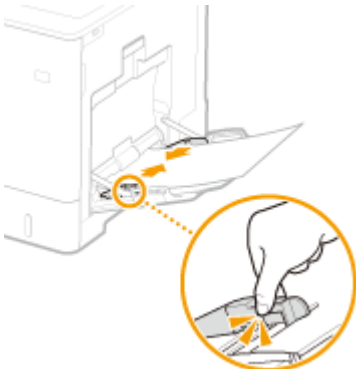

NOTE:

- When loading envelopes or paper with a logo, see ▶**Loading Envelopes or Postcards(P. 49)** or ▶**Loading Preprinted Paper(P. 53)** .

5 **Align the paper guides against the edges of the paper.**

- Press the lock release lever and slide the paper guides inward until they are aligned securely against the edges of the paper.

IMPORTANT:

Align the paper guides securely against the edges of the paper

- Paper guides that are too loose or too tight can cause misfeeds or paper jams.

» **Continue to ▶Specifying Paper Size and Type in the Multi-Purpose Tray(P. 60)**

IMPORTANT:

When changing the paper size or type

- The factory default settings for paper size and type are <LTR> and <Mixed Types>, respectively. If you load a different size or type of paper into the machine, make sure to change the setting. If you do not change the paper size or type setting, the machine cannot print properly.

NOTE:

Automatic detection of paper type

- The machine is provided with a function for automatic paper type detection. If this function is enabled, it is not necessary to change paper type settings when you load plain or heavy paper. **◯Auto Detect Ppr Type(P. 505)**

Printing on the Back Side of Printed Paper (Manual 2-Sided Printing)

You can print on the back side of printed paper. Flatten any curls on the printed paper and insert it into the multi-purpose tray, with the side to print face down (previously printed side face up).

- When you want to print on the back side of the paper that is already printed, set <Manual 2-Sided (MP)> to <2nd Side> in the setting menu of the operation panel. **◯Manual 2-Sided (MP)(P. 507)**

- Load one sheet of paper each time you print.

- You can use only the paper printed with this machine.

- You cannot print on the side that has previously been printed on.

LINKS

◯Paper(P. 621)

Loading Envelopes or Postcards

0YS1-010

Before loading envelopes or postcards, make some preparations such as flattening any curls on them. Also pay attention to the orientation of envelopes or postcards and which side is face up. Note that neither envelopes nor postcards can be loaded in the paper drawer.

◖**Loading Envelopes(P. 49)**
◖**Loading Postcards(P. 51)**

> **NOTE**
>
> - This section describes how to load envelopes in the orientation you want, as well as procedures that you need to complete before loading envelopes or postcards. For the general procedure for loading envelopes or postcards in the multi-purpose, see ◖**Loading Paper in the Multi-Purpose Tray(P. 46)** .

Loading Envelopes

■ Before Loading Envelopes

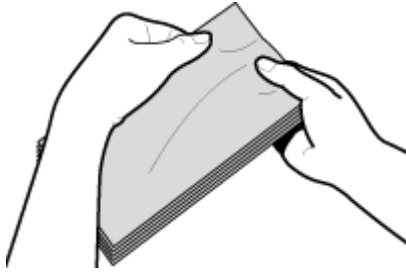Follow the procedure below to prepare the envelopes before loading.
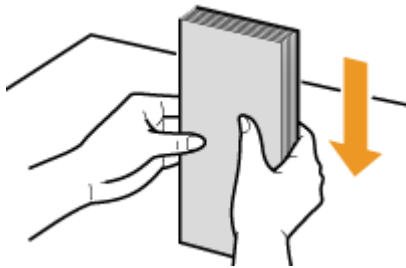
1 **Close the flap of each envelope.**

2 **Flatten them to release any remaining air, and make sure that the edges are pressed tightly.**

3 **Loosen any stiff corners of the envelopes and flatten any curls.**

**4** **Align the edges of the envelope on a flat surface.**

■ Loading Envelopes in the Multi-Purpose Tray

Load the envelopes in portrait orientation (with the short edge toward the machine), with the non-glued side (front side) face down. You cannot print on the reverse side of envelopes.
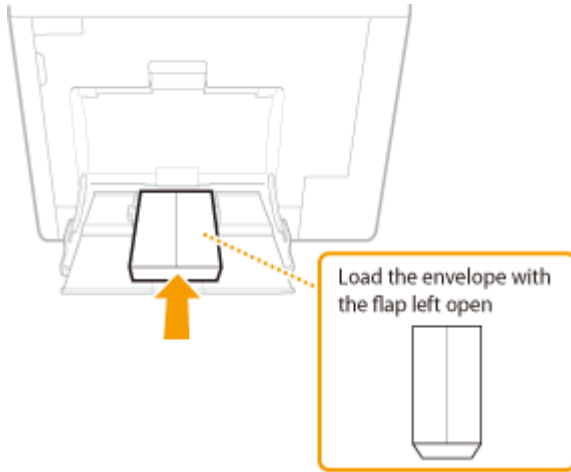
Envelopes YOUGATANAGA 3, C5, Monarch, No. 10 (COM10), or DL

Load the envelope so that the edge with the flap is toward the left side as shown in the illustration.
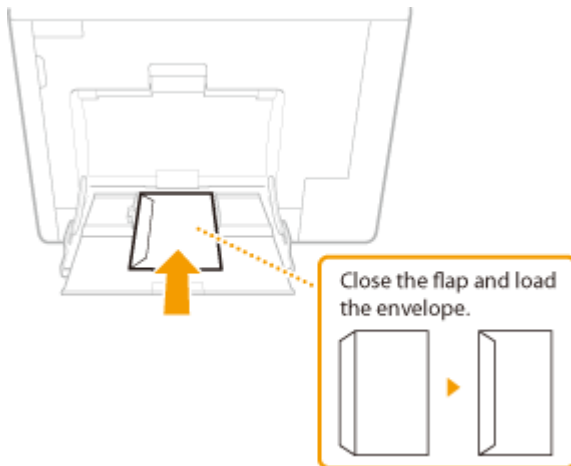
Envelope NAGAGATA 3

Insert the envelope with the flap toward you.

Load the envelope with the flap left open
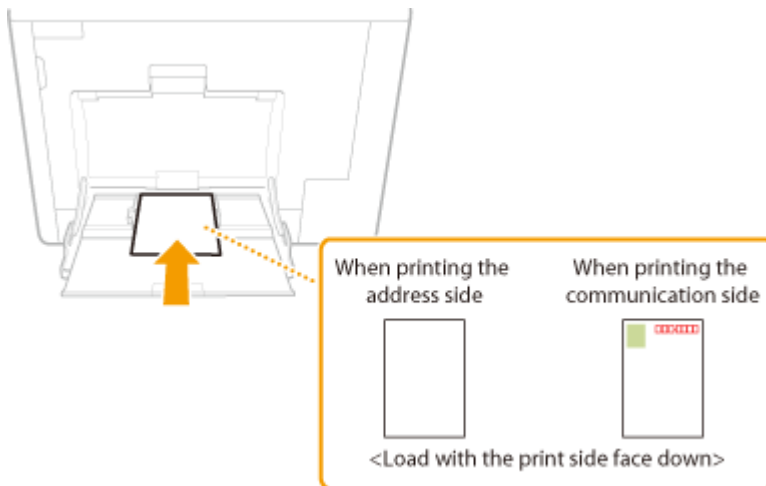
Loading Postcards

IMPORTANT

- For postcards, automatic 2-sided printing is impossible. If you want to print on both sides of the postcard, first print on one side and then print on the other side.
- Before loading the postcards, flatten any curls on them. With curls remaining, printouts may be skewed or images may be printed distorted.

■ Loading Postcards in the Multi-Purpose Tray

Insert the postcard with the print side face down and with the short edge toward the machine.
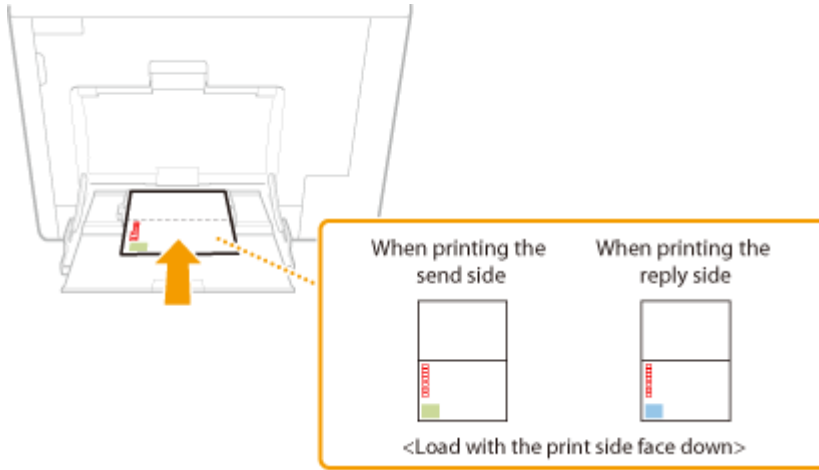
Postcard
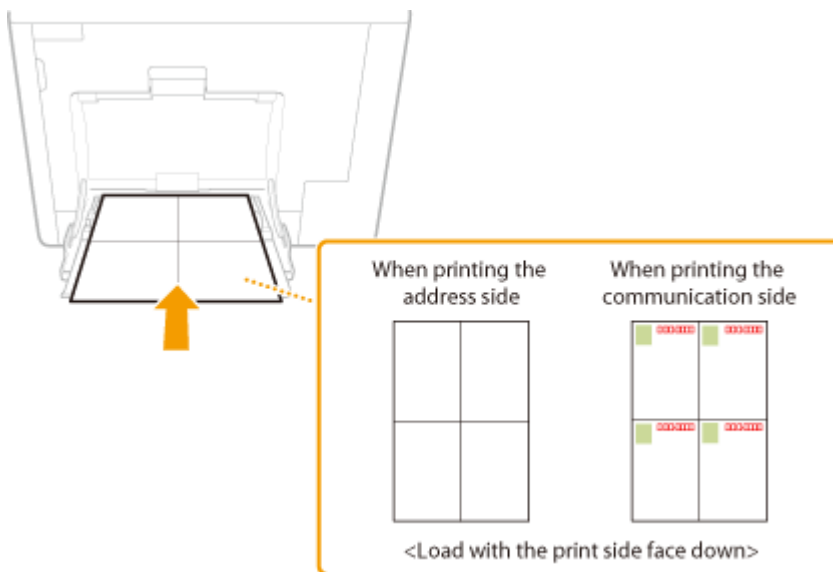Insert the postcard with the upper end toward the machine.

When printing the address side   When printing the communication side

<Load with the print side face down>

Reply Postcard
Unfold the postcard and insert it with the right side toward the machine.

When printing the send side | When printing the reply side

<Load with the print side face down>

4 on 1 Postcard

Insert the postcard with the upper end toward the machine.

When printing the address side | When printing the communication side

<Load with the print side face down>

Loading Preprinted Paper

When you use paper that has been preprinted with a logo, pay attention to the orientation of the paper when loading. Load the paper properly so that printing is performed on the correct side of the paper with a logo.


 Making 1-Sided Printouts on Paper with Logos(P. 53)
 Making 2-Sided Printouts on Paper with Logos(P. 54)

> **NOTE**
>
> - This section mainly describes how to load preprinted paper with the proper facing and orientation. For the general procedure for loading paper in the paper drawer or multi-purpose tray, see the following.
>
>   Loading Paper in the Paper Drawer(P. 40)
>   Loading Paper in the Multi-Purpose Tray(P. 46)

Making 1-Sided Printouts on Paper with Logos

Printing on Paper with Logos in Portrait Orientation
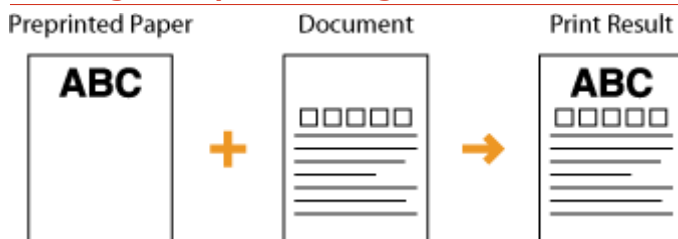
When loading paper in the paper drawer
Load the paper with the logo side (the side to print the document) face up.

When loading paper in the multi-purpose tray
Load the paper with the logo side (the side to print the document) face down.

Loading Orientation

Portrait   Landscape

Printing on Paper with Logos in Landscape Orientation

Preprinted Paper   Document   Print Result

When loading paper in the paper drawer
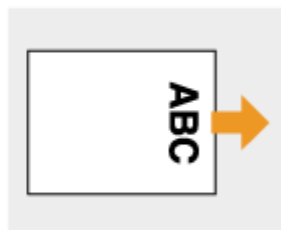
Load the paper with the logo side (the side to print the document) face up.

Loading Orientation

Portrait   Landscape

When loading paper in the multi-purpose tray

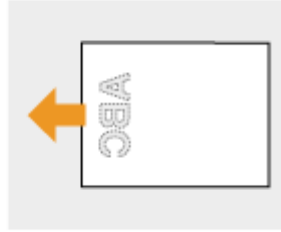Load the paper with the logo side (the side to print the document) face down.
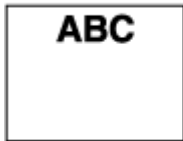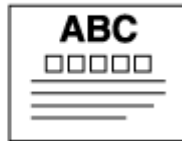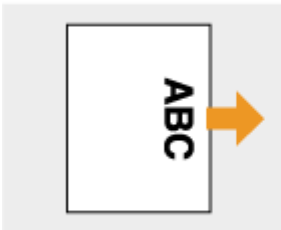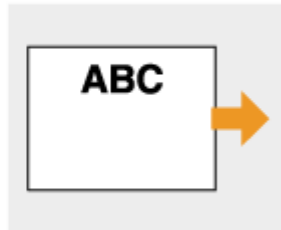
Loading Orientation

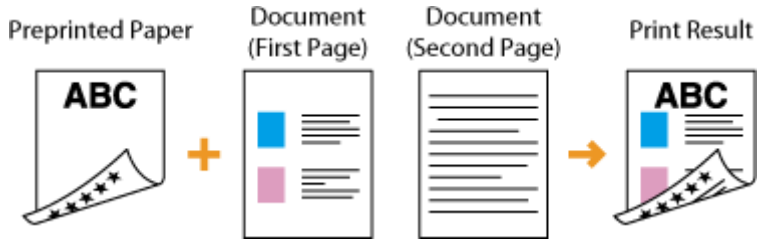Portrait   Landscape

Making 2-Sided Printouts on Paper with Logos

When a document to print consists of an odd number of pages, set <Alternative Method> to <Off> in the setting menu of the operation panel. **Alternative Method(P. 402)**

Printing on Paper with Logos in Portrait Orientation

When loading paper in the paper drawer

Load the paper with the front logo side (the side to print the first page of the document) face down.

When loading paper in the multi-purpose tray

Load the paper with the front logo side (the side to print the first page of the document) face up.

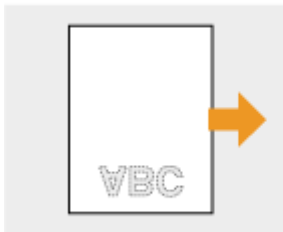### Printing on Paper with Logos in Landscape Orientation

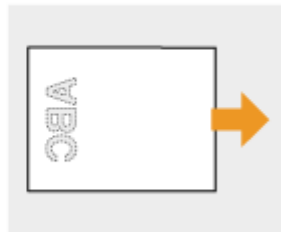### When loading paper in the paper drawer

Load the paper with the front logo side (the side to print the first page of the document) face down.

Loading Orientation

Portrait   Landscape

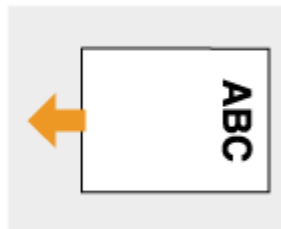### When loading paper in the multi-purpose tray

Load the paper with the front logo side (the side to print the first page of the document) face up.

Loading Orientation

Portrait   Landscape

NOTE

The <Paper Feed Method> setting

- When you print on preprinted paper, you need to change the facing of the paper to load each time you switch between 1-sided and 2-sided printing. However, if <Paper Feed Method> is set to <Print Side Priority>, the facing that you use for loading preprinted paper for 2-sided printing (logo side face down for paper drawer or up for multi-purpose tray) can also be used for 1-sided printing. This setting is especially useful if you frequently perform both 1-sided and 2-sided printing. **Paper Feed Method(P. 433)**

Specifying Paper Size and Type

0YS1-012

You must specify the paper size and type settings to match the paper that is loaded. Make sure to change the paper settings when you load the paper that is different from the previously loaded paper.

IMPORTANT

- If the setting does not match the size and type of loaded paper, a paper jam or printing error may occur.

Specifying Paper Size and Type in the Paper Drawer

0YS1-013

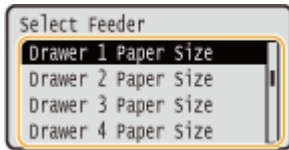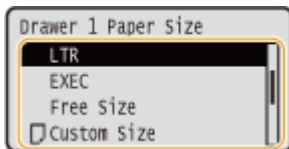Specify the paper size and type as necessary depending on the paper you load in the paper drawer.

1   **Press** ▭ **(Select Feeder).**

2   **Use** ▲ / ▼ **to select one of <Drawer 1 Paper Size> to <Drawer 4 Paper Size>, and press** OK **.**

- <Drawer 2 Paper Size> to <Drawer 4 Paper Size> are displayed when the optional paper feeder is installed.

```
Select Feeder
Drawer 1 Paper Size
Drawer 2 Paper Size
Drawer 3 Paper Size
Drawer 4 Paper Size
```

3   **Select the paper size, and press** OK **.**

```
Drawer 1 Paper Size
LTR
EXEC
Free Size
Custom Size
```

NOTE:

For A5 size/custom size paper

- A5 size or custom size paper can be loaded in either portrait or landscape orientation. See the table below to select the setting according to the orientation of the paper.

Paper size	Orientation	Setting
A5	*1	< A5R>
		< A5>
Custom size paper	*2	< Custom Size R>
		< Custom Size>

*1 Before printing, select the [Feed A5 Vertically] check box in the [Paper Source] tab of the printer driver.

*2 Before printing, select the [Feed Custom Paper Vertically] check box in the [Paper Source] tab of the printer driver.

About <Free Size>

- If you frequently change sizes of paper to load, you can specify <Free Size>, which saves you the trouble of changing the paper size setting each time you print. However, note that the paper size specified on the printer driver is not checked before printing in this case.
- If you select <Free Size>, the print speed will be slower.

58

4 Select one of <Drawer 1 Paper Type> to <Drawer 4 Paper Type>, and press 🆗 .

- <Drawer 2 Paper Type> to <Drawer 4 Paper Type> are displayed when the optional paper feeder is installed.

```
Select Feeder
Drawer 1 Paper Type
Drawer 2 Paper Type
Drawer 3 Paper Type
Drawer 4 Paper Type
```

5 Select the paper type, and press 🆗 .

```
Drawer 1 Paper Type
Labels
Rough 1
Rough 2
Mixed Types
```

NOTE:

About <Mixed Types>

- If you frequently change sizes of paper to load, you can specify <Mixed Types>, which saves you the trouble of changing the paper type setting each time you print. However, note that the paper type specified on the printer driver is not checked before printing in this case.

Automatic detection of paper type

- The machine is provided with a function for automatic paper type detection. If this function is enabled, it is not necessary to change paper type settings when you load plain or heavy paper. **Auto Detect Ppr Type(P. 505)**

LINKS

Loading Paper in the Paper Drawer(P. 40)
Paper(P. 621)

Specifying Paper Size and Type in the Multi-Purpose Tray

0YS1-014

1 Press ▭ (Select Feeder).

2 Use ▲ / ▼ to select <MP Tray Paper Size>, and press [OK].

```
Select Feeder
 Paper Source
 MP Tray Paper Size
 Drawer 1 Paper Size
 Drawer 2 Paper Size
```

3 Select the paper size, and press [OK].

```
MP Tray Paper Size
 LTR
 LGL
 EXEC
 Free Size
```

NOTE:

For A5 size/custom size paper

- A5 size or custom size paper can be loaded in either portrait or landscape orientation. See the table below to select the setting according to the orientation of the paper.

Paper size	Orientation	Setting
A5	*1	< A5R>
		< A5>
Custom size paper	*2	< Custom Size R>
		< Custom Size>

*1 Before printing, select the [Feed A5 Vertically] check box in the [Paper Source] tab of the printer driver.
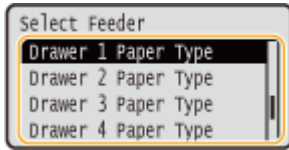
*2 Before printing, select the [Feed Custom Paper Vertically] check box in the [Paper Source] tab of the printer driver.
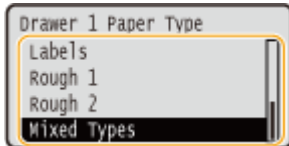
About <Free Size>

- If you frequently change sizes of paper to load, you can specify <Free Size>, which saves you the trouble of changing the paper size setting each time you print. However, note that the paper size specified on the printer driver is not checked before printing in this case.
- If you select <Free Size>, the print speed will be slower.

4 Select <MP Tray Paper Type>, and press [OK] .
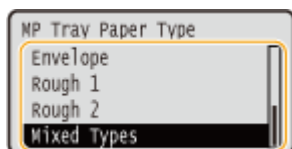
```
Select Feeder
  Auto Select Drawer
  Auto Detect Ppr Type
  Default Paper Type
  MP Tray Paper Type
```

5 Select the paper type, and press [OK] .

```
MP Tray Paper Type
  Envelope
  Rough 1
  Rough 2
  Mixed Types
```

NOTE:

About <Mixed Types>

- If you frequently change sizes of paper to load, you can specify <Mixed Types>, which saves you the trouble of changing the paper type setting each time you print. However, note that the paper type specified on the printer driver is not checked before printing in this case.

Automatic detection of paper type

- The machine is provided with a function for automatic paper type detection. If this function is enabled, it is not necessary to change paper type settings when you load plain or heavy paper. ○**Auto Detect Ppr Type(P. 505)**
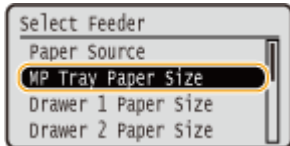
LINKS

○**Loading Paper in the Multi-Purpose Tray(P. 46)**
○**Paper(P. 621)**

Saving Energy

0YS1-016

You can save energy by making a setting so that the machine automatically enters the power saving state (sleep mode) or automatically turns OFF if no operation is performed for a certain period of time or that the machine is automatically turned OFF at a fixed time on each day of the week.

◉**Entering Sleep Mode(P. 63)**
◉**Setting Auto Shutdown Time(P. 66)**

Entering Sleep Mode

0YS1-017

The sleep mode function reduces the amount of power consumed by the machine by disabling power flow to the operation panel. If no operations will be performed on the machine for a while, such as during a lunch break, you can save power simply by pressing [⏾] on the operation panel. You can also use the Auto Sleep Time setting to automatically put the machine into sleep mode if it remains idle for a specified length of time. You can specify settings to change the interval at which the auto sleep function is performed or put the machine in sleep mode at a specified time.
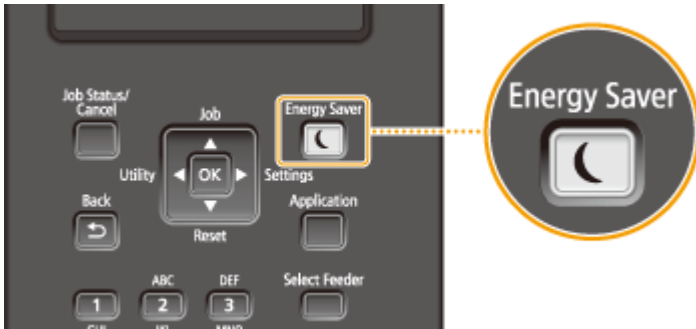
NOTE

When in sleep mode

- When the machine is in sleep mode, [⏾] lights in green.

Situations in which the machine does not enter sleep mode

- The machine does not enter sleep mode when it is receiving data from or sending data to a computer, any of the covers is opened, or no toner cartridge is installed.

Selecting the Sleep Mode Level

Sleep mode can be set to 3 different levels with different energy consumption reduction effects. The factory default setting for sleep mode level is <High (Deep Sleep)>. We recommend using the factory default setting to save the most power. If you want to change the setting, follow the procedure below.

Sleep Mode	Power-saving effect
High (Deep Sleep)	Large
Mid (Printer Sleep)	Medium
Low (Panel Sleep)	Small
Off	Exiting sleep mode.

▶ (Settings) ▶ <Control Menu> ▶ [OK] ▶ <Sleep Mode> ▶ [OK] ▶ Select the sleep mode level ▶ [OK]
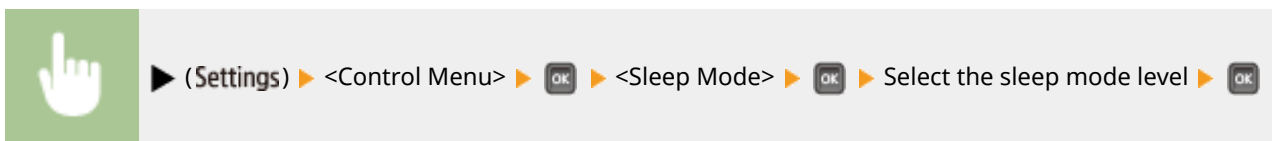
Changing Auto Sleep Time

When the sleep mode level is set to other than <Off>, the machine automatically enters sleep mode if it remains idle for a specified length of time. The factory default setting for the amount of time that elapses before Auto Sleep is performed is 1 minutes (the user setting range is 1 to 180 minutes). We recommend using the factory

default settings to save the most power. If you want to change the amount of time that elapses before Auto Sleep is performed, follow the procedure below.

▶ (Settings) ▶ <Control Menu> ▶ [OK] ▶ <Auto Sleep Time> ▶ [OK] ▶ Select the time ▶ [OK]
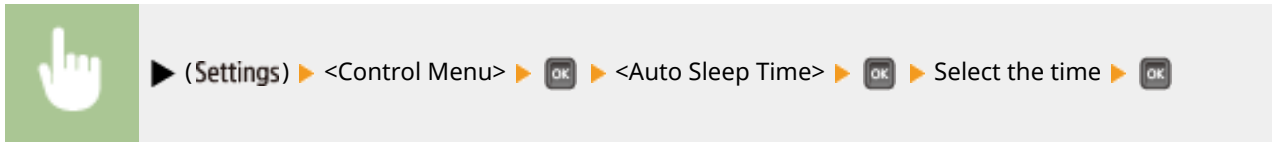
Automatically Entering/Exiting Sleep Mode at Specified Time

You can set the machine to enter sleep mode at a specified time. You can also set the machine to exit sleep mode at a specified time.
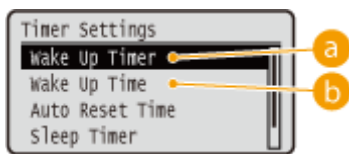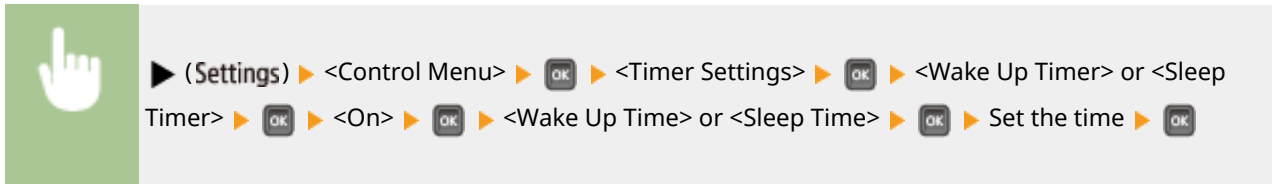
▶ (Settings) ▶ <Control Menu> ▶ [OK] ▶ <Timer Settings> ▶ [OK] ▶ <Wake Up Timer> or <Sleep Timer> ▶ [OK] ▶ <On> ▶ [OK] ▶ <Wake Up Time> or <Sleep Time> ▶ [OK] ▶ Set the time ▶ [OK]

ⓐ <Wake Up Timer>

Select <On> to automatically exit sleep mode at a specified time.

ⓑ <Wake Up Time>

Set the time to automatically exit sleep mode.

ⓒ <Sleep Timer>

Select <On> to automatically enter sleep mode at a specified time.

ⓓ <Sleep Time>
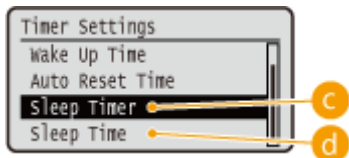
Set the time to automatically enter sleep mode.

When You Want to Prevent the Machine from Entering Sleep Mode if an Error Occurs

By default, Auto Sleep is enabled even if an error occurs. However, you can specify settings so that the machine will not enter sleep mode when an error occurs.

▶ (Settings) ▶ <Control Menu> ▶ [OK] ▶ <Sleep Even if Error> ▶ [OK] ▶ <Off> ▶ [OK]
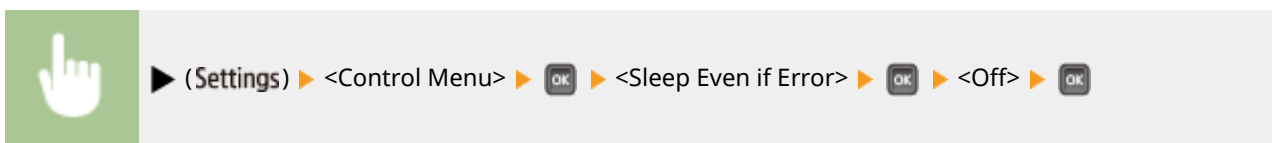
Exiting Sleep Mode

Press [(symbol)] .

NOTE

When you are using utility software related to network

- If you set sleep mode to <High (Deep Sleep)>, the utility software may fail in communication.

Setting Auto Shutdown Time

0YS1-018

You can configure the machine to be automatically turned OFF when it is not operated for a long time. You can also configure the machine to be turned OFF at a specified time. These functions allow you to avoid useless power consumption that occurs due to failure to turn OFF the power. By factory default, this function is disabled.

NOTE

- If you configure the Auto Shutdown Timer settings, the lifetime of the loaded toner cartridge may be shortened.

1 Start the Remote UI and log on in Management Mode. ▸**Starting Remote UI(P. 336)**

2 Click [Settings/Registration].
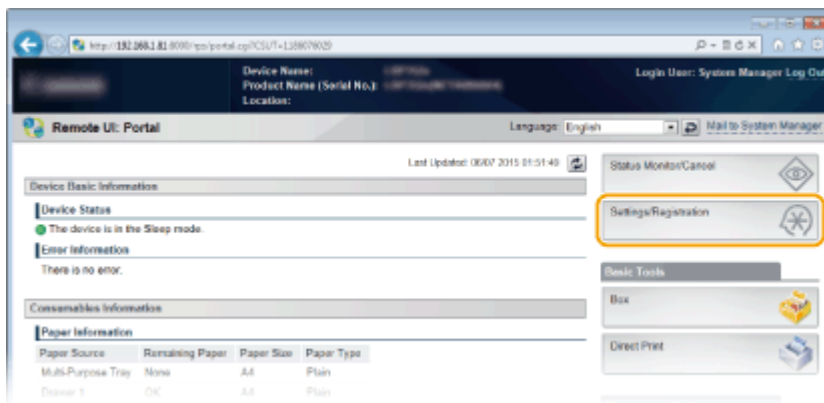
3 Click [Control Menu] ▸ [Edit].
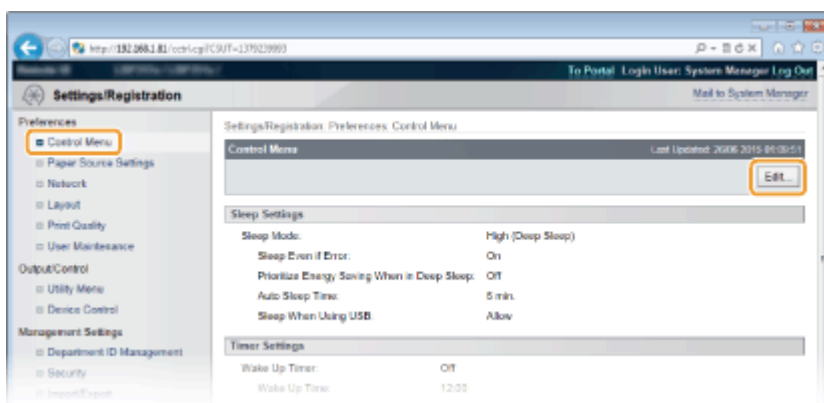
4 Configure auto shutdown timer settings.
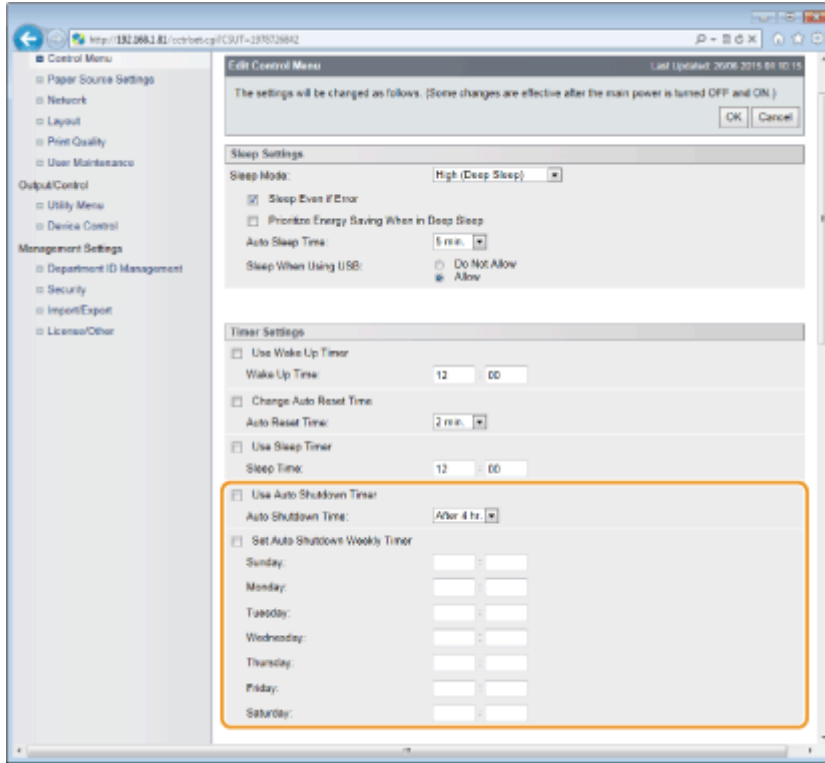
[Use Auto Shutdown Timer]
Select the check box to turn OFF the power when the time set in [Auto Shutdown Time] elapses.

[Auto Shutdown Time]
Specify after how many hours the machine should be turned OFF since it has entered sleep mode. You can select in the range from [After 1 hr.] to [After 8 hr.] in units of hours.

[Set Auto Shutdown Weekly Timer]
Select the check box to set the auto shutdown time for each day of the week.

[Sunday] to [Saturday]
Enter the time to turn OFF the power for each day of the week. If no time is specified, the auto shutdown time is not set for the day of the week.

5 Click [OK].
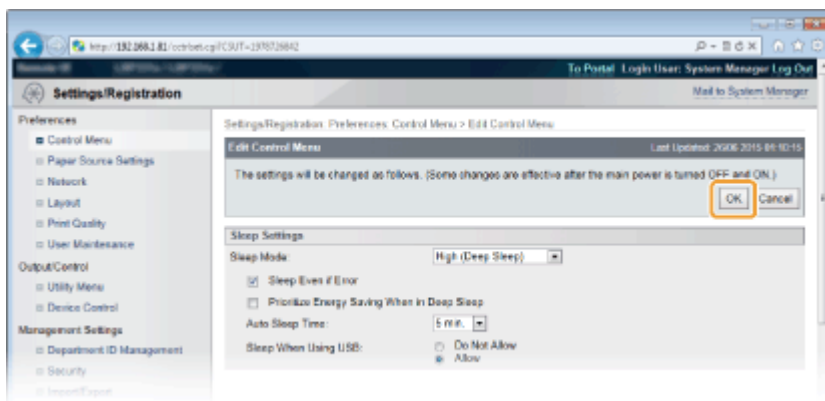
NOTE

If shutdown does not seem to be finished

- It may take a maximum of 10 minutes until the power is turned OFF, but it is not a failure.

Situations that may be responsible for failure to turn OFF the power automatically at the specified time

- You are making some operation on the machine.

- The machine is in the process of printing, cleaning, or some other operation.

- An error message is displayed.

If the power cannot be turned OFF automatically at the specified time, a retry will be performed up to 10 times at intervals of 1 minute. If the power cannot be turned OFF even after ten retries, auto shutdown will be impossible for that day.

Printing a Document

Printing a Document

0YS1-019

This section describes how to print documents made on your computer, print files saved in a USB memory device, and print documents by entering a PIN from the operation panel.

◼ Printing from a Computer

You can print a document made on your computer by using the printer driver. **○Printing from a Computer(P. 71)**
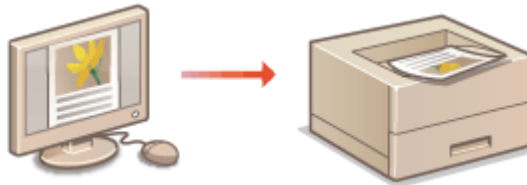
◼ Using Useful Print Functions

You can use the print functions to print files stored in a USB memory device by connecting it directly to the machine without using a computer and to set a requirement that a PIN must be entered before any printing can start. **○Using Useful Print Functions(P. 116)**

Printing from a Computer

0YS1-01A

You can print a document made with an application on your computer by using the printer driver. There are useful settings on the printer driver, such as enlarging/reducing and 2-sided printing, that enable you to print your documents in various ways. Before you can use this function, you need to complete some procedures, such as installing the printer driver on your computer. For more information, see Printer Driver Installation Guide.
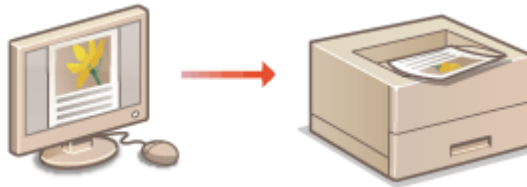
NOTE

- If you are a Mac user, see Canon UFR II/UFRII LT Printer Driver Guide for installing the printer drivers and Printer Driver's Help for using print functions.

- Depending on the operating system and the type or version of the printer driver you are using, the printer driver screens in this manual may differ from your screens.

- You can use the PCL6 printer driver as well as the UFR II printer driver. The available print settings vary depending on the printer driver. For more information, click [Help] on each printer driver screen.

About the Printer Driver Help

- Clicking [Help] on the printer driver screen displays the Help screen. On this screen, you can see the detailed descriptions that are not in the User's Guide.

Collate/Group(H):
Off
Color Mode:
Auto [Color/B&W]

OK   Cancel   Help
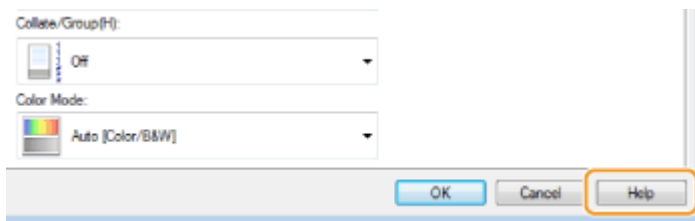
■ To Use Optional Accessories

If the optional paper feeder or SD card is attached to the machine, perform the following operation on the printer driver.

IMPORTANT

- To perform the following procedure, log on to your computer with an administrator account.

Open the printer folder (**Displaying the Printer Folder(P. 662)**) ▶ Right-click your printer icon ▶ [Printer Properties] or [Properties] ▶ [Device Settings] tab ▶ Make settings for the option you want to use ▶ [OK]
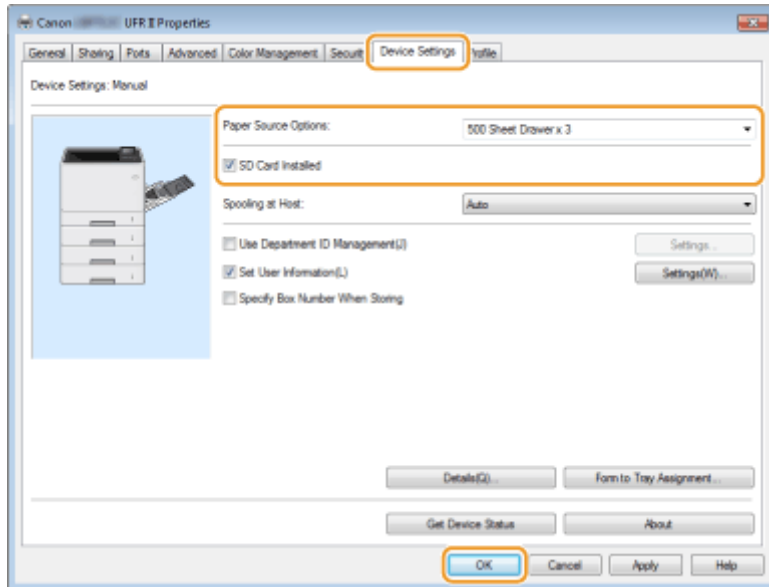
Basic Printing Operations

0YS1-01C

This section describes how to print a document on your computer by using the printer driver.
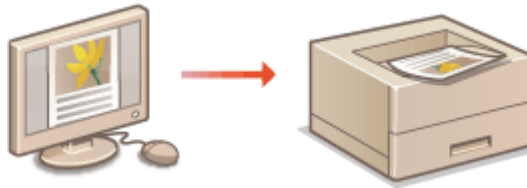
> **NOTE**
>
> - Before printing, specify the paper size and type for the paper loaded in the paper source.
>   - ○**Loading Paper(P. 38)**
>   - ○**Specifying Paper Size and Type(P. 57)**

1 **Open a document in an application and display the print dialog box.**

- How to display the print dialog box differs for each application. For more information, see the instruction manual for the application you are using.

2 **Select your printer, and click [Preferences] or [Properties].**
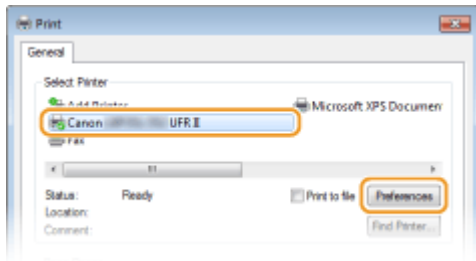
- The screen that is displayed differs depending on the application you are using.

3 **Specify the paper size.**
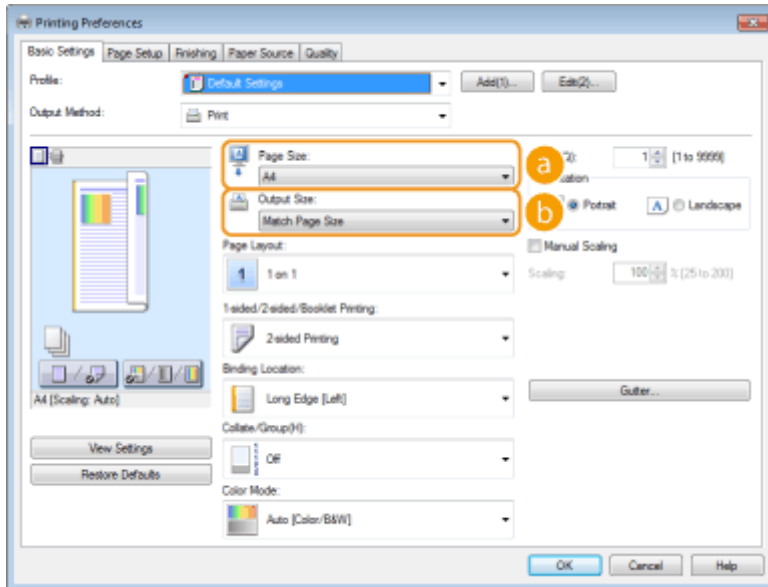
ⓐ [Page Size]

Select the size of a document made in the application.

ⓑ [Output Size]

Select the size of paper on which the document will be actually printed. If the selected size differs from the one specified in [Page Size], the document is printed enlarged/reduced automatically according to the size specified in [Output Size]. **Enlarging or Reducing(P. 82)**

TIPS

Clickable UI

- You can easily specify the page layout, binding position, etc. intuitively on the preview image. For more information, click [Help] on the printer driver screen.

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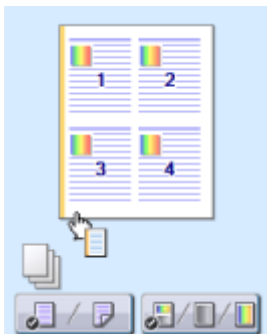
4 **Click the [Paper Source] tab, and specify the paper source and paper type.**
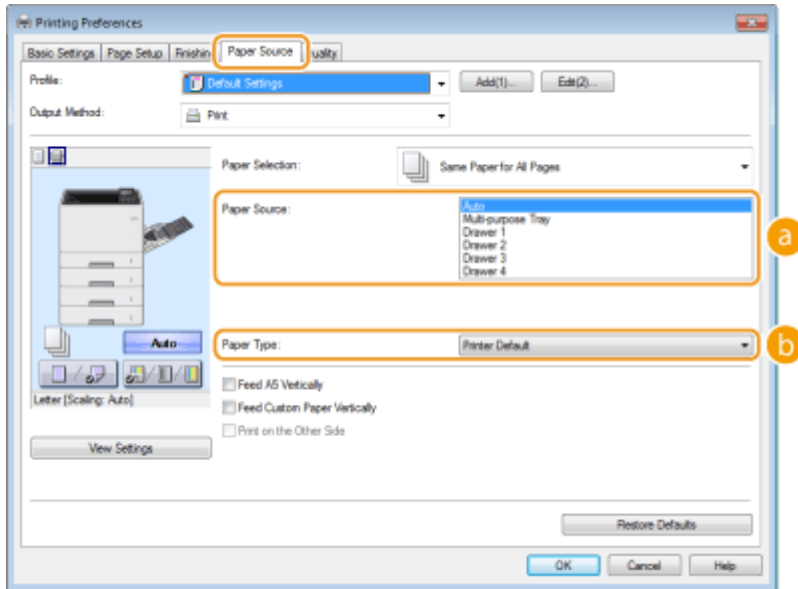
a [Paper Source]

Select the paper source from which paper is fed.

Setting Value	Paper Source
Auto	The paper source is automatically selected according to the specified size and type of the paper to print on and the settings configured in the machine.
Multi-purpose Tray	Paper is fed from the multi-purpose tray.
Drawer 1	Paper is fed from the paper drawer of the machine.
Drawer N (N=2 to 4)	Paper is fed from the optional paper feeder.

b [Paper Type]

Specify the setting according to the type and basis weight of the paper to print on. **�𝗢Loading Paper(P. 38)**

NOTE:

- If [Printer Default] is selected, the paper type specified for <Default Paper Type> in the setting menu of the operation panel is applied. **◯Default Paper Type(P. 506)**

NOTE:

- If paper is loaded in landscape orientation, select the [Feed A5 Vertically] or [Feed Custom Paper Vertically] check box.

5 **Specify other print settings as necessary. ◯Various Print Settings(P. 80)**

NOTE:

- You can register the settings you specified in this step as a "profile" and use the profile whenever you print. You can eliminate the need to specify the same settings every time you print. **◯Registering Combinations of Frequently Used Print Settings(P. 112)**

6 **Click [OK].**
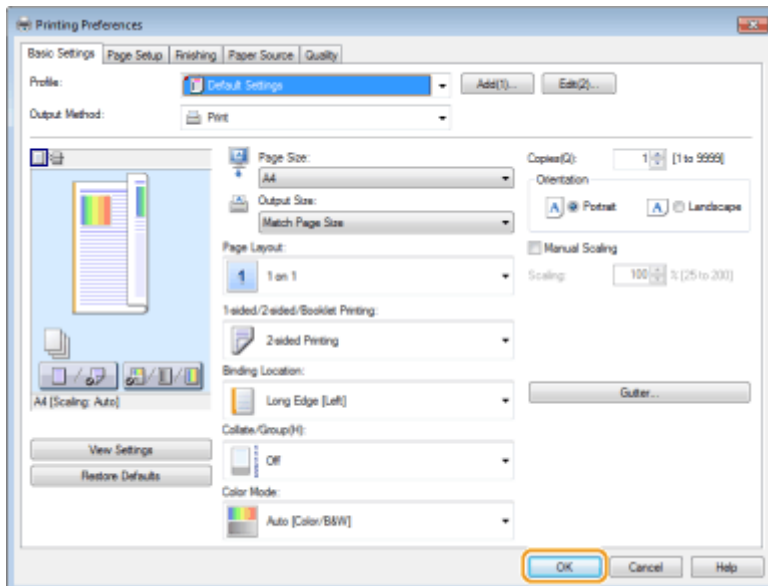
7 Click [Print] or [OK].
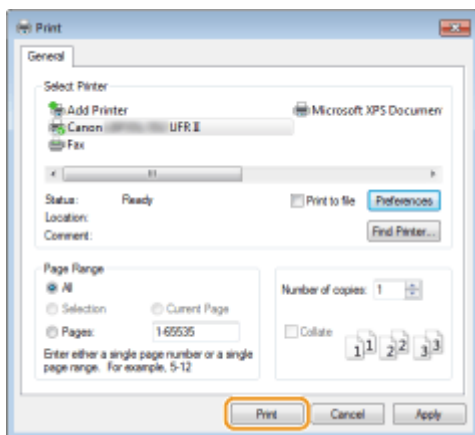
- Printing starts. On some applications, a screen like shown below appears.

- To cancel printing, click [Cancel] when the screen shown above is displayed. After the screen disappears or if the screen is not displayed, you can cancel printing in other ways. **Canceling Prints(P. 78)**

NOTE

When printing from the Windows Store app in Windows 8/10/Server 2012

Windows 8/Server 2012
Display the charms on the right side of the screen ▶ [Devices] ▶ the printer driver for this machine ▶ tap or click [Print]

Windows 8.1/Server 2012 R2
Display the charms on the right side of the screen ▶ [Devices] ▶ [Print] ▶ the printer driver for this machine ▶ tap or click [Print]

Windows 10
[⋯] ▶ [Print]

- If you print using this method, only a limited number of print settings are available.

● If the message [The printer requires your attention. Go to the desktop to take care of it.] is displayed, go to the desktop and follow the instructions in the displayed dialog box. This message appears when the machine is set to display the user name during printing and similar instances.

LINKS

❯Managing Documents and Checking the Machine Status(P. 345)

Canceling Prints

0YS1-01E

You can cancel printing from your computer or on the operation panel of the machine.

From a Computer(P. 78)
From the Operation Panel(P. 79)

From a Computer

You can cancel printing from the printer icon displayed on the system tray on the desktop.

1 Double-click the printer icon.

NOTE:

When the printer icon is not displayed

- Open the printer folder (**Displaying the Printer Folder(P. 662)**), right-click your printer icon, and click [See what's printing] (or double-click the icon of the printer driver for the machine).

2 Select the document you want to cancel, and click [Document] ▶ [Cancel].
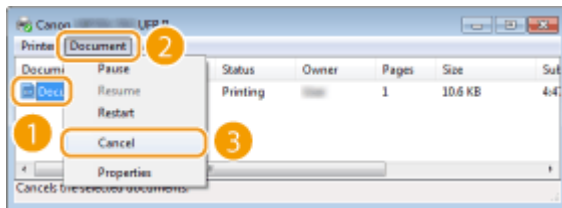
3 Click [Yes].
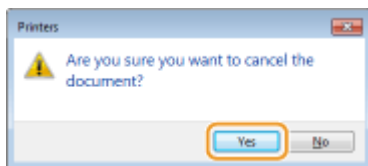
- Printing of the selected document is canceled.

NOTE

- Several pages may be output after you cancel printing.

TIPS

Canceling from the Remote UI

- You can cancel printing from the [Job Status] page on the Remote UI: **Checking Current Status of Print Documents(P. 345)**

Canceling from an application

- On some applications, a screen like shown below appears. You can cancel printing by clicking [Cancel].
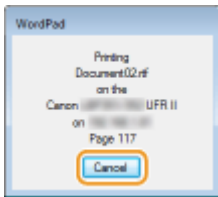
From the Operation Panel

When the print data is sent to the machine from a computer, the [Job] indicator lights up (or blinks). You can cancel printing from the operation panel while the indicator is lit or blinking.

1 Press ⬜ (Job Status/Cancel).

2 Use ▲ / ▼ to select the document to cancel, and press OK .
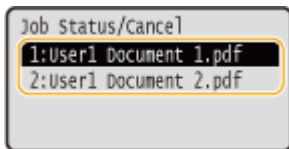
3 Select <Yes>, and press OK .
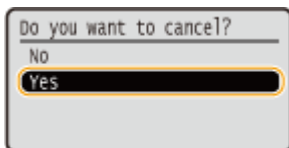
⇒ The <Canceling jobs> message is displayed and the selected print job is canceled.

NOTE

- Several pages may be output after you cancel printing.

LINKS

◉Basic Printing Operations(P. 73)
◉Managing Documents and Checking the Machine Status(P. 345)

Various Print Settings

0YS1-01F

There are a variety of settings to suit your needs, such as Enlarged/Reduced and 2-sided Printing.
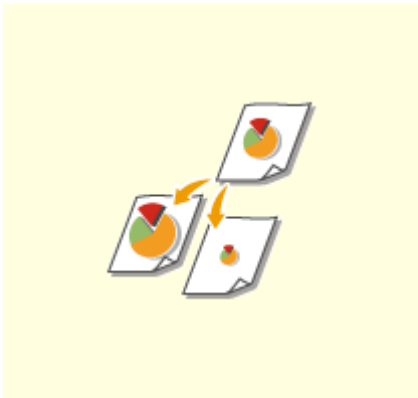
Enlarging or Reducing(P. 82)
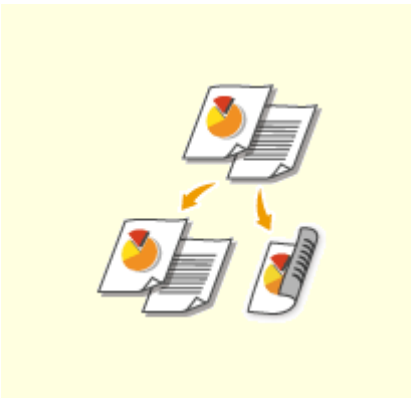
⚬ Switching 1-Sided and 2-Sided Printing(P. 84)

⚬ Collating Printouts by Page(P. 86)
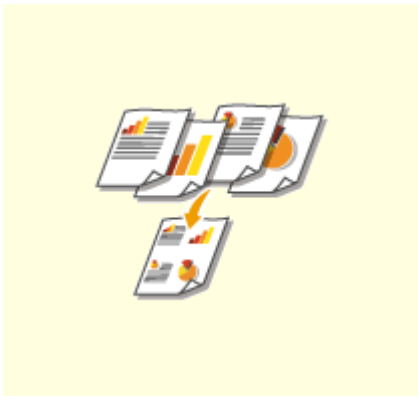
Printing Multiple Pages onto One Sheet(P. 88)
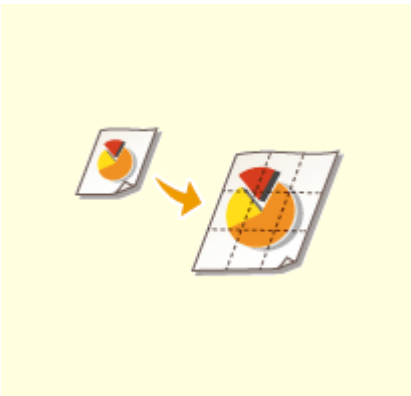
⚬ Printing Posters(P. 90)
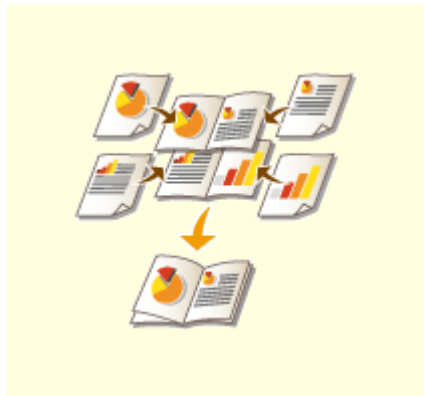
⚬ Printing Booklet(P. 92)

Printing Borders(P. 94)

⚬ Printing Dates and Page Numbers(P. 95)
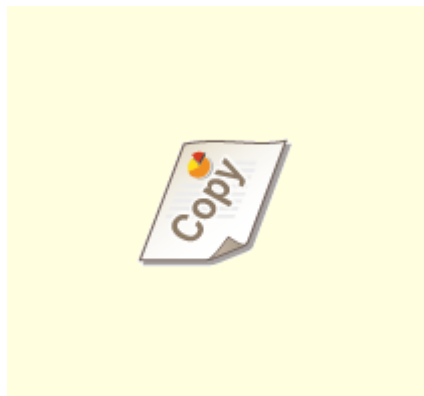
⚬ Printing Watermarks(P. 97)

Setting Color Mode(P. 99)
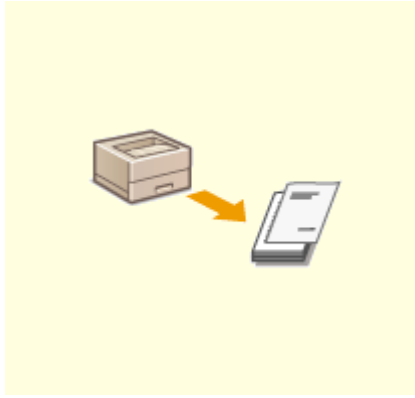
Printing Specific Pages onto Different Paper(P. 101)
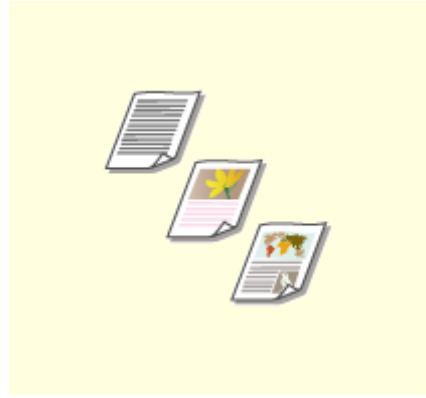
Selecting Document Type(P. 103)

Saving Toner(P. 105)
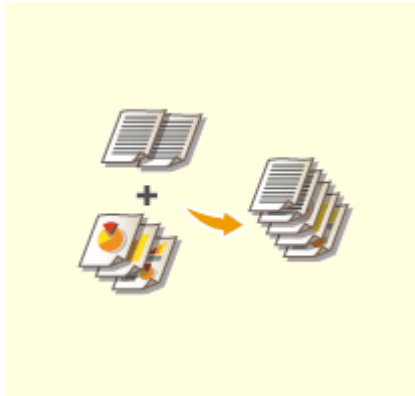
Combining and Printing Multiple Documents(P. 107)

Enlarging or Reducing

0YS1-01H

You can make enlarged or reduced printouts by using a preset print ratio, such as Statement to Letter, or a custom print ratio that you set in increments of 1%.

Setting Print Ratio by Specifying the Original Document and Paper Size (Preset Ratio)

The print ratio is automatically set based on the document and paper size you have specified.

[Basic Settings] tab ▶ Select the document size in [Page Size] ▶ Select the paper size in [Output Size] ▶ [OK]
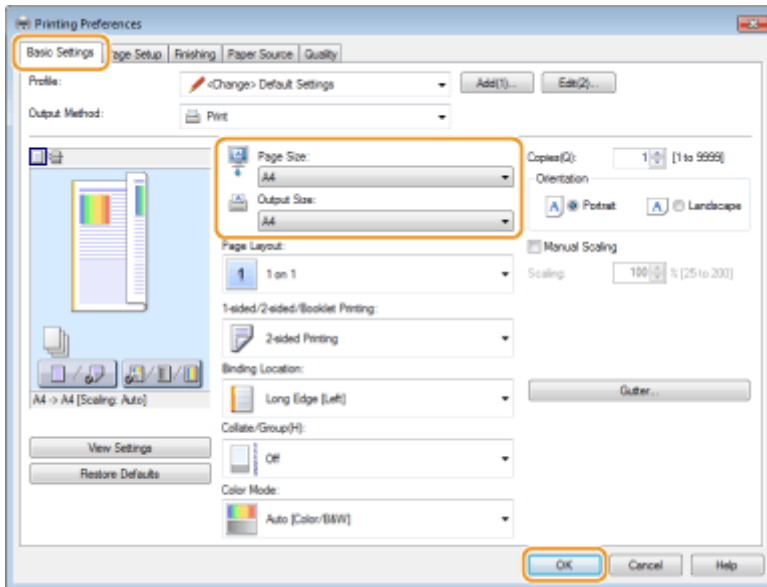
Specifying Print Ratio in Increments of 1%

[Basic Settings] tab ▶ Select the [Manual Scaling] check box ▶ Enter the print ratio in [Scaling] ▶ [OK]
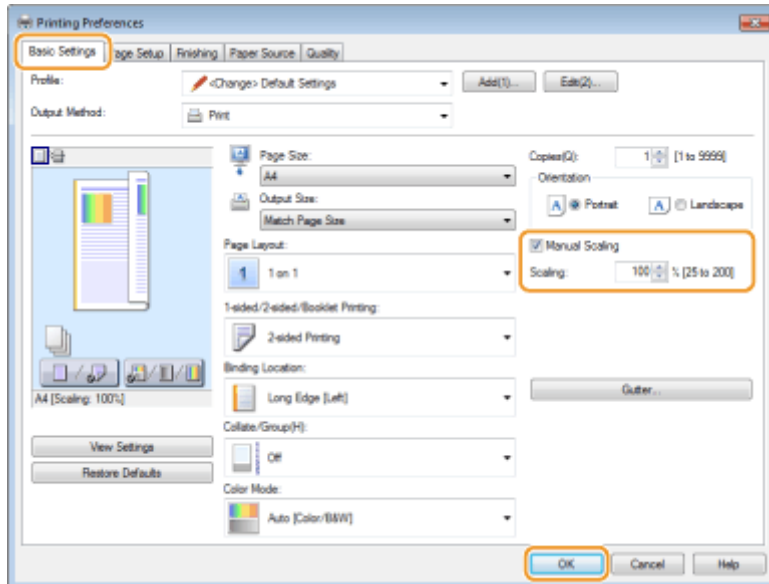
NOTE

- Depending on the selected paper size, you may not be able to set the optimum enlarging/reducing ratio. For example, there may be large blank spaces on your printout, or portions of the document that are missing.
- The enlarging/reducing settings on some applications have priority over those on the printer driver.

LINKS

Basic Printing Operations(P. 73)

Switching 1-Sided and 2-Sided Printing

0YS1-01J

You can make both 1-sided and 2-sided printouts. The default setting is [2-sided Printing]. Change the setting as necessary.

NOTE

- 2-sided printing may not be available with some sizes and types of paper. ●**Paper(P. 621)**

[Basic Settings] tab ▶ Select [1-sided Printing] or [2-sided Printing] in [1-sided/2-sided/Booklet Printing] ▶ Select the position to bind in [Binding Location] ▶ [OK]
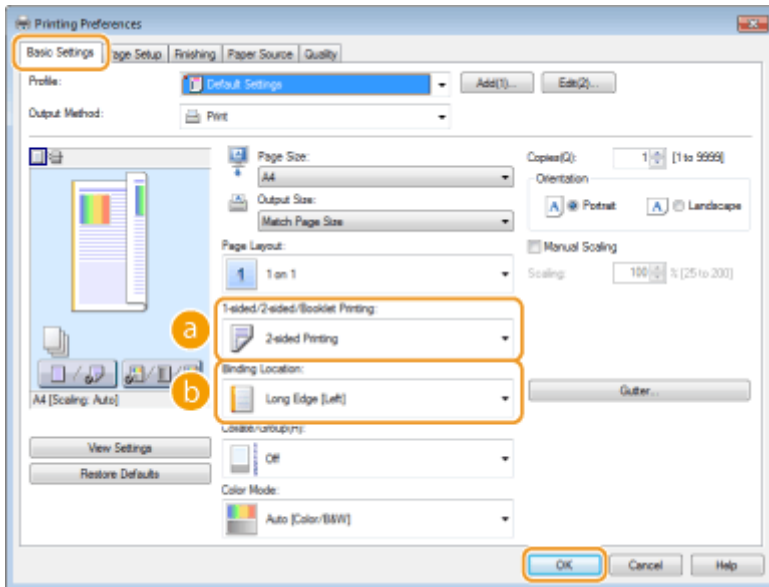
ⓐ **[1-sided/2-sided/Booklet Printing]**

Select [1-sided Printing] or [2-sided Printing].

NOTE:
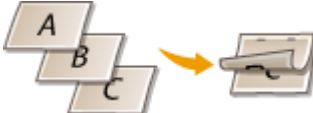
- For [Booklet Printing], see ●**Printing Booklet(P. 92)** .

ⓑ **[Binding Location]**

Specify the position to bind the printouts with a binding tool such as a stapler. Printing orientation will be changed depending on the specified binding position. To specify the margin width for the binding position, click [Gutter].

[Long Edge [Left]]	Prints a document in such a way that the printed pages are opened to the left when bound.

[Short Edge [Top]]	Prints a document in such a way that the printed pages are opened to the top when bound.
[Long Edge [Top]]	Prints a document in such a way that the printed pages are opened to the top when bound.
[Short Edge [Left]]	Prints a document in such a way that the printed pages are opened to the left when bound.

[Gutter]
Specify a binding margin.

LINKS

◯Basic Printing Operations(P. 73)
◯Printing Multiple Pages onto One Sheet(P. 88)
◯Printing Booklet(P. 92)

Collating Printouts by Page

0YS1-01K

When printing copies of multi-page documents, select [Collate] to print complete sets in sequential page order. This function is useful when preparing handouts for meetings or presentations.

[Basic Settings] tab ▶ Select [Collate] or [Group] in [Collate/Group] ▶ [OK]
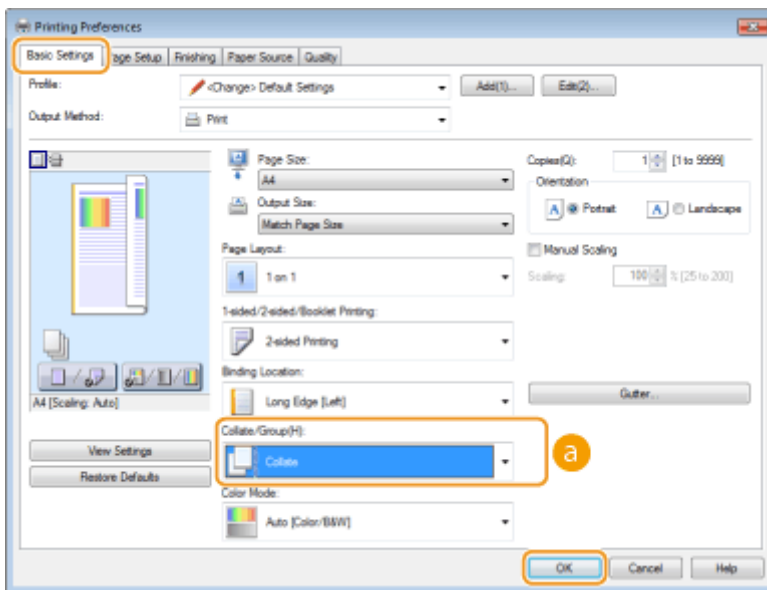
ⓐ [Collate/Group]

Specify the sorting method of the printouts when printing multiple-page documents.

[Off]	If you select [Off], whether the printouts are collated or not depends on the setting made on the application.
[Collate]	The printouts are grouped into complete sets in sequential page order. For example, if you are printing three copies of a four-page document, the printouts will be arranged in the following page order: 1, 2, 3, 4, 1, 2, 3, 4, 1, 2, 3, 4.
[Group]	The printouts are not collated. The specified number of copies are printed for each page. For example, if you are printing three copies of a four-page document, the printouts will be arranged in the following page order: 1, 1, 1, 2, 2, 2, 3, 3, 3, 4, 4, 4.

86

LINKS

Basic Printing Operations(P. 73)

Printing Multiple Pages onto One Sheet

0YS1-01L

You can print multiple pages onto a single sheet. For example, you can print four or nine pages onto a single sheet by using [4 on 1] or [9 on 1]. Use this function if you want to save paper or to view your document in thumbnails.

NOTE

- To save more paper, combine this setting with 2-sided printing. ▶**Switching 1-Sided and 2-Sided Printing(P. 84)**

[Basic Settings] tab ▶ In [Page Layout], select the number of pages to print onto a single sheet ▶ In [Page Order], select the page distribution layout ▶ [OK]
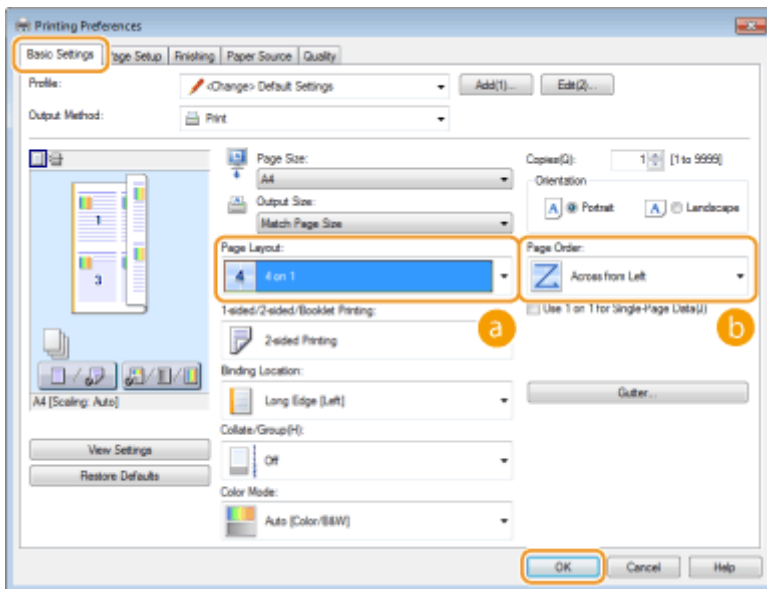
ⓐ [Page Layout]

Select the number of pages to print onto a single sheet from [1 on 1] to [16 on 1]. For example, to print 16 pages onto a single sheet, select [16 on 1].

NOTE:

- For options such as [Poster [2 x 2]], see ▶**Printing Posters(P. 90)** .

- Printing may not be performed properly if you combine this setting with an application setting for collating printouts.

ⓑ [Page Order]

Select a page distribution layout. For example, if you select [Across from Left], the first page is printed on the top left, and then the rest of the pages are arranged rightward.

Printing Posters

0YS1-01R

You can print one page of a document onto multiple pages. For example, if you make a one-page Letter-size document nine times larger, you will have a poster 3x3 Letter size sheets large after you print the document and paste it together.

[Basic Settings] tab ▶ In [Page Layout], select the dimensions of your poster (for example, [Poster [2 x 2]]) ▶ [OK]
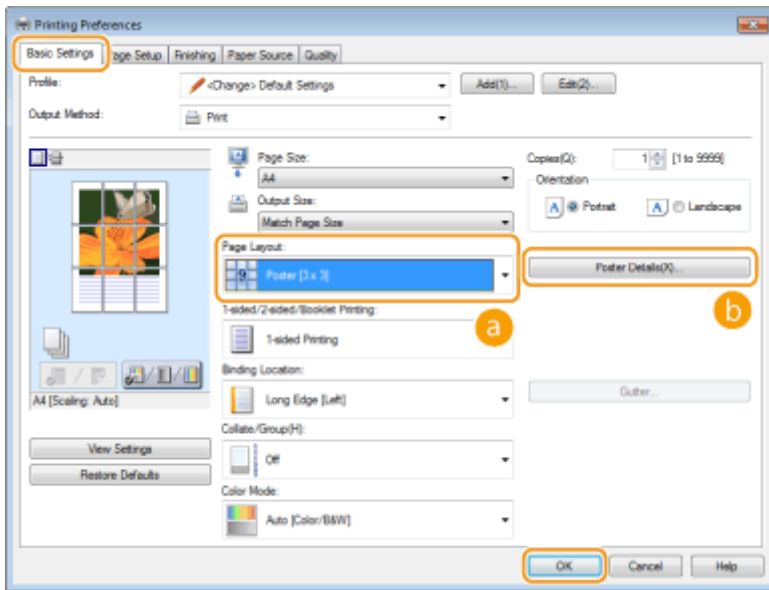
ⓐ [Page Layout]

There are four size settings: [Poster [1 x 2]], [Poster [2 x 2]], [Poster [3 x 3]], and [Poster [4 x 4]].

NOTE:

- Poster size settings cannot be selected when 2-sided printing is enabled. Select [1-sided Printing] in [1-sided/2-sided/Booklet Printing], and then select a poster size setting.

ⓑ [Poster Details]

The following screen allows you to make settings for borders and pasting margins. For more information, click [Help] on the printer driver screen.
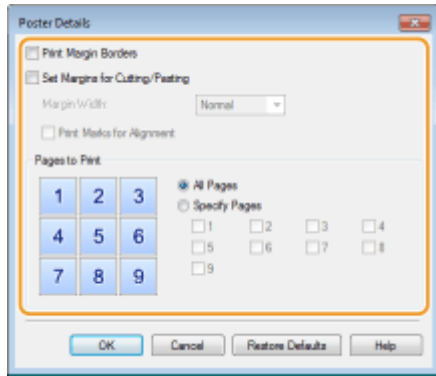
LINKS

◉Basic Printing Operations(P. 73)
◉Enlarging or Reducing(P. 82)

Printing Booklet

0YS1-01S

You can print two pages of a document on both sides of paper and then fold your printed pages in half to make a booklet. The printer driver controls the print order in such a way that the page numbers are correctly arranged.

NOTE

- Booklet printing may not be available with some sizes and types of paper. The paper that is available for 2-sided printing is also available for booklet printing. See **Paper(P. 621)** .

[Basic Settings] tab ▶ Select [Booklet Printing] in [1-sided/2-sided/Booklet Printing] ▶ Click [Booklet] to specify detailed settings as necessary ▶ [OK] ▶ [OK]
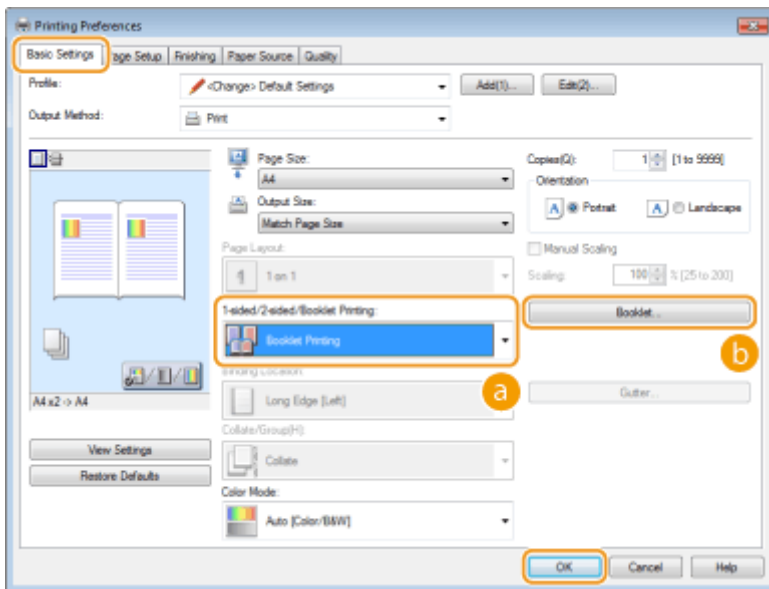
ⓐ **[1-sided/2-sided/Booklet Printing]**

Select [Booklet Printing].

NOTE:

- For [1-sided Printing] and [2-sided Printing], see **Switching 1-Sided and 2-Sided Printing(P. 84)** .

ⓑ **[Booklet]**

The screen below is displayed.
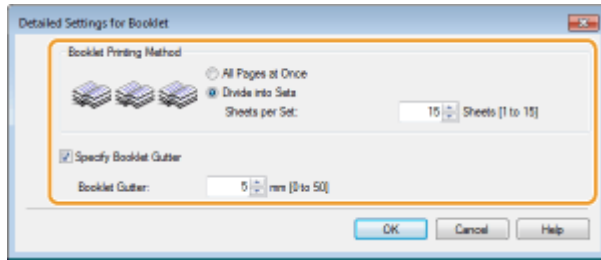
[Booklet Printing Method]

- [All Pages at Once]: Prints all of the pages at once as a single bundle so that you can make a booklet just by folding the printed pages in half.

- [Divide into Sets]: Prints as multiple bundles divided by the number of the pages specified on [Sheets per Set]. Bind each bundle, and then combine them as one booklet. Select this option when the document has so many pages that you cannot bind them all into a single booklet.
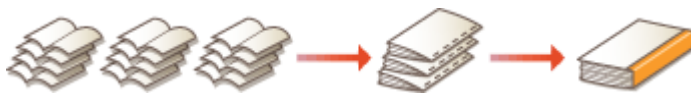
[Specify Booklet Gutter]
If you are using a stapler or other binding tools, specify the margin width for binding your booklet. Select the [Specify Booklet Gutter] check box and specify the margin width in [Booklet Gutter].

LINKS

Basic Printing Operations(P. 73)

Printing Borders

0YS1-01U

You can add borders, such as broken lines or double lines, in the margins of printouts.

[Page Setup] tab ▶ Click [Page Options] ▶ Select the border type in [Edging] ▶ [OK] ▶ [OK]
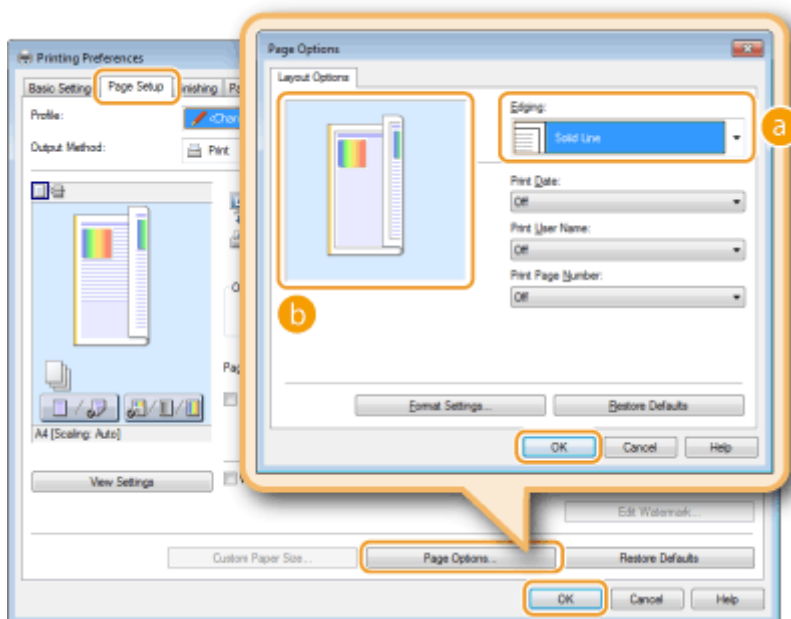
ⓐ [Edging]

Select the border type.

ⓑ Preview

Displays a preview with the selected border.

LINKS

❯Basic Printing Operations(P. 73)
❯Printing Dates and Page Numbers(P. 95)
❯Printing Watermarks(P. 97)

Printing Dates and Page Numbers

0YS1-01W

You can print the information such as dates or page numbers, and you can specify where to print this information on the document (upper-left, lower-right, etc.).

[Page Setup] tab ▶ Click [Page Options] ▶ Select the print position of the print date, user name or page number ▶ [OK] ▶ [OK]
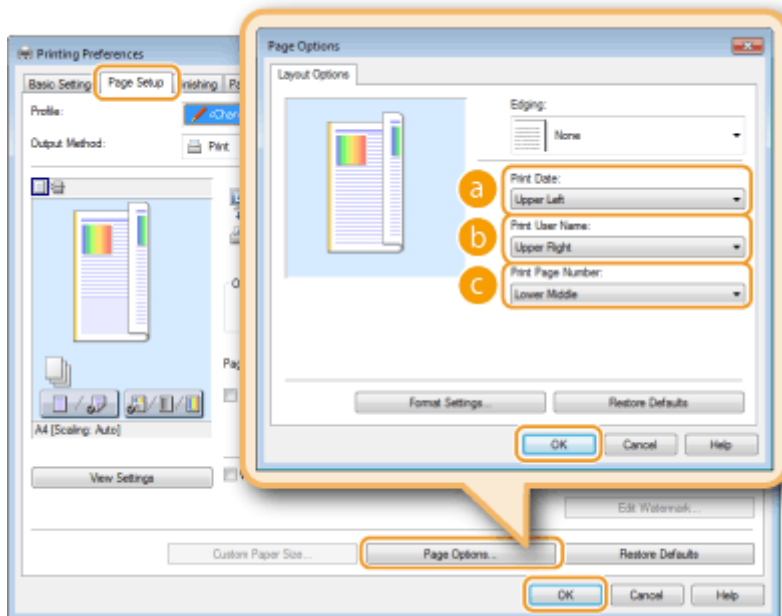
ⓐ [Print Date]

Specify the position to print the print date.

ⓑ [Print User Name]

Specify the position to print the user name (logon name) for the computer used to print the document.

ⓒ [Print Page Number]

Specify the position to print the page number.

Changing the Print Format of Dates and Page Numbers

- You can change formatting details such as font and font size when printing dates, logon names, or page numbers. Click [Format Settings] on the Page Options screen shown above to specify the details.

LINKS

Printing Watermarks

0YS1-01X

You can print watermarks such as "COPY" or "CONFIDENTIAL" over the document. You can create new watermarks or use pre-registered watermarks.

[Page Setup] tab ▶ Select the [Watermark] check box ▶ Select a watermark from the drop-down list ▶ [OK]
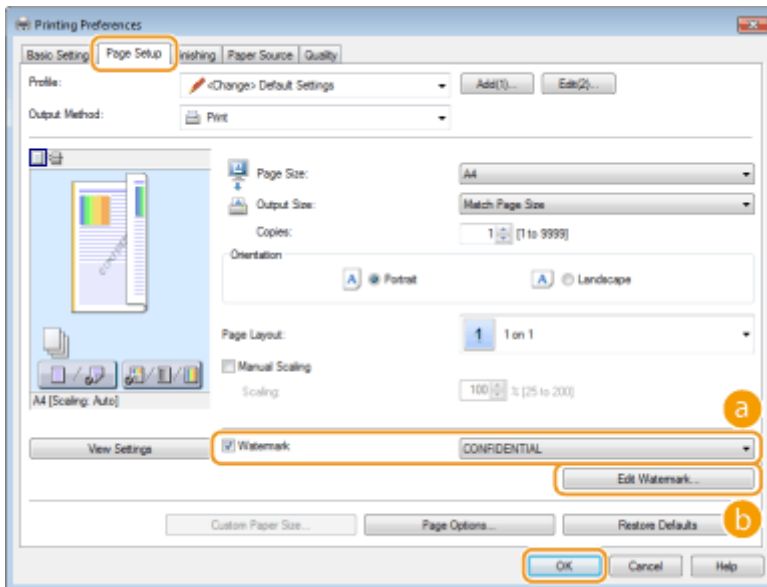
ⓐ [Watermark]

Select the [Watermark] check box to display the list of the watermarks in the drop-down list. Select a watermark from the menu.

ⓑ [Edit Watermark]

Displays the screen to create or edit watermarks.

97
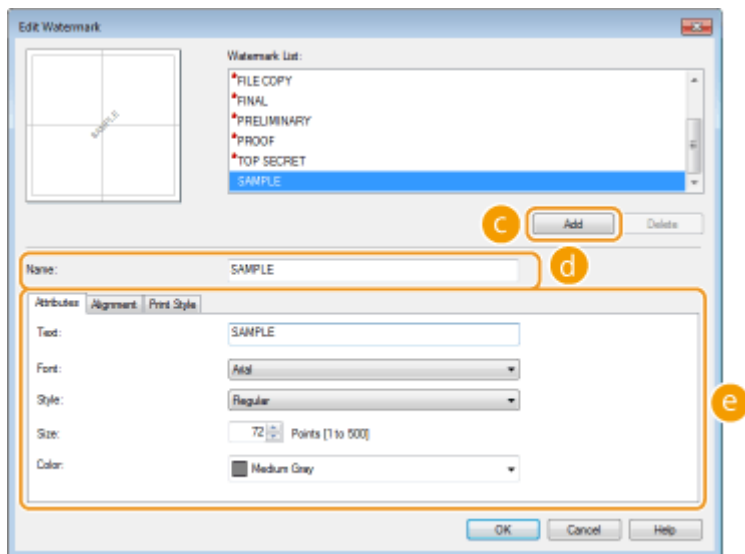
c **[Add]**

Click to create a new watermark. Up to 50 watermarks can be registered.

d **[Name]**

Enter the created watermark name.

e **[Attributes]/[Alignment]/[Print Style]**

Click each tab to specify the text, color, or print position of the watermark. For more information, click [Help] on the printer driver screen.

LINKS

◉**Basic Printing Operations(P. 73)**
◉**Printing Borders(P. 94)**
◉**Printing Dates and Page Numbers(P. 95)**

Setting Color Mode

0YS1-08W

You can select a color mode (color or black and white). If a document has pages in both color and black and white, by specifying auto mode, color pages are printed in color, and black and white pages are printed in black and white automatically.

[Basic Settings] tab ▶ Select the color mode in [Color Mode] ▶ [OK]
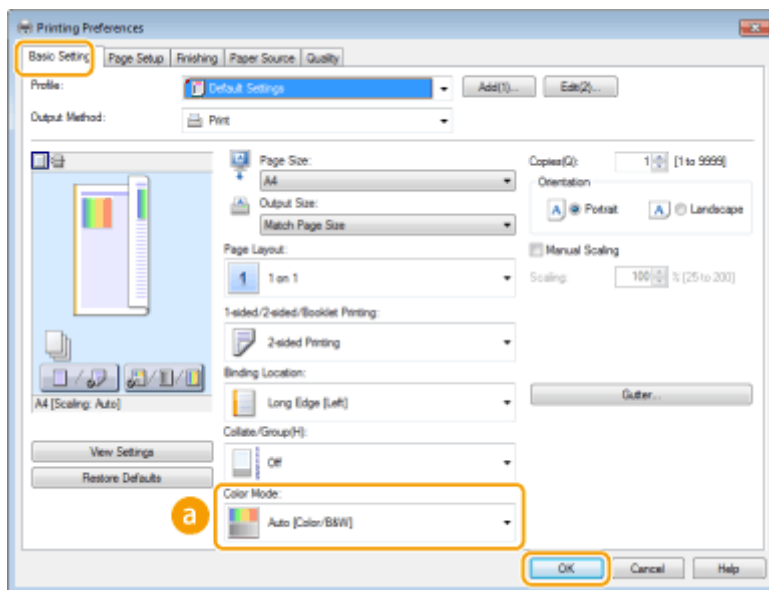
ⓐ [Color Mode]

Select [Black and White] or [Color]. If you select [Auto [Color/B&W]], the color mode is automatically switched page by page.

To Specify the Detailed Color Settings

You can also specify the detailed color settings such as color adjustment and color matching.

[Quality] tab ▶ Select the [Manual Color Settings] check box ▶ Click [Color Settings] ▶ Specify the color settings as necessary ▶ [OK] ▶ [OK].
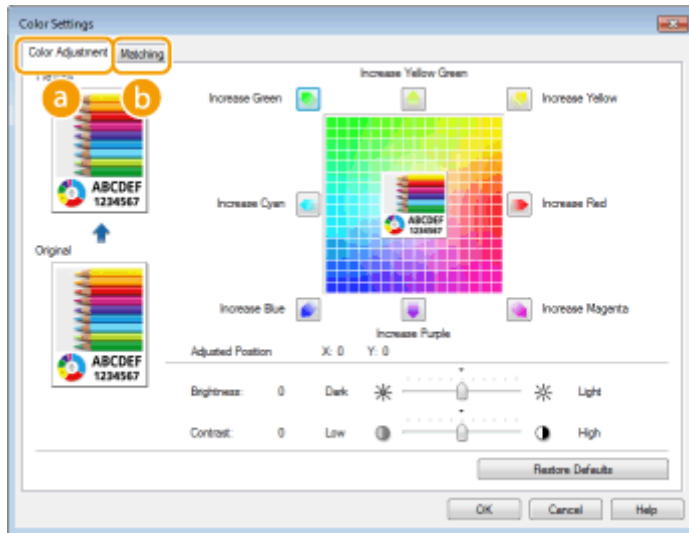
ⓐ [Color Adjustment]

Adjust the tone, brightness, and contrast.

ⓑ [Matching]

Specify the color matching settings (for example, you can adjust the settings so that the color tones on your printouts will match the color tones displayed on your computer screen).

> **NOTE**
>
> - For more information, click [Help] on the printer driver screen.

LINKS

Basic Printing Operations(P. 73)

Printing Specific Pages onto Different Paper

0YS1-01Y
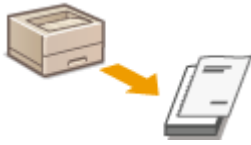
You can print specific pages of a document, such as when you want to print the cover of a booklet on colored paper. In this case, load colored paper for the cover in the multi-purpose tray and load plain paper for the body pages in the paper drawer, and then specify the paper settings on the printer driver.

[Paper Source] tab ▶ Select the pages to print on different paper and the paper source loaded with the paper from [Paper Selection] ▶ [OK]
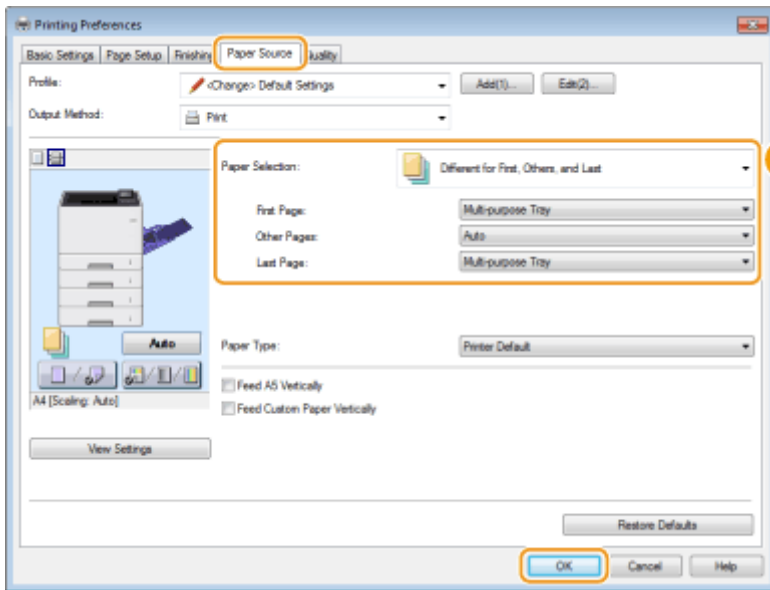
ⓐ [Paper Selection]

Specify which pages should be printed on different paper, and select which paper source should be used to feed paper for each page.

[Same Paper for All Pages]	Prints all of the pages on the same paper, and does not print any specific pages on different paper. All the pages are printed on paper specified in [Paper Source].
[Different for First, Others, and Last]	You can use different paper for the first page, body pages, and last page, respectively. For example, you can specify the paper in the multi-purpose tray for [First Page], the paper in the paper drawer for [Other Pages] (body pages), and the paper in the multi-purpose tray for [Last Page]. You can also print by specifying the paper type in [Paper Type].
[Different for First, Second, Others, and Last]	You can also specify the paper for the following page of the cover as well as specifying the paper in [Different for First, Others, and Last]. You can also print by specifying the paper type in [Paper Type].
[Different for Cover and Others]	Specify the settings for booklet printing (▶**Printing Booklet(P. 92)**). You can specify different paper for the cover and body pages, respectively. For example, you can specify the paper in the multi-purpose tray for [Cover Page] and the paper in the paper drawer for [Other Pages] (body pages).

LINKS

○Basic Printing Operations(P. 73)

Selecting Document Type

You can specify the document type to ensure optimal image quality. There are different settings for photo documents, documents that have charts or graphs, and documents that have design drawings with fine lines.

[Quality] tab ▶ Select the document type in [Objective] ▶ [OK]
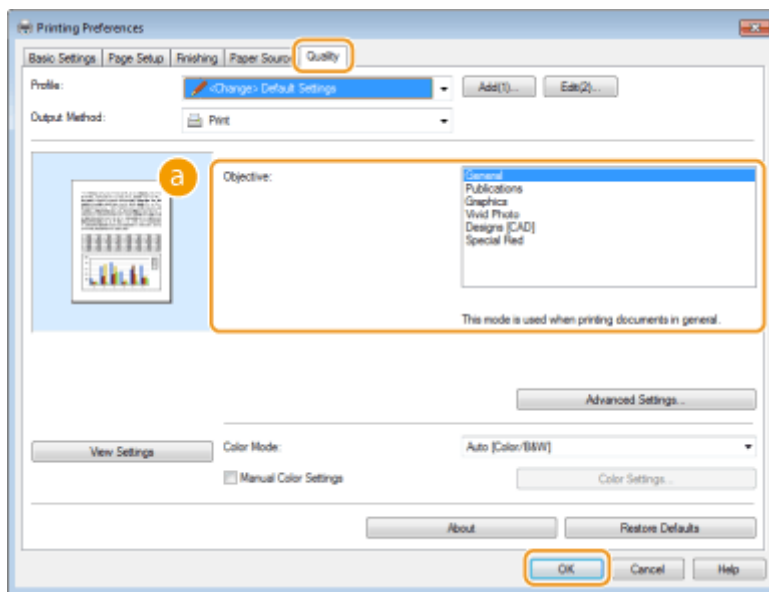
ⓐ [Objective]

Select an option that suits the document type or purpose of printing. For example, select [General] for general use, or select [Photos] when you want to print photo images in optimal print quality.

[General]
A versatile option that is suitable when printing most documents.

[Publications]
Suitable when printing documents that have a mix of photo images, charts, and graphs.

[Graphics]
Suitable when printing documents that have charts or graphs.

[Vivid Photo]
Suitable when printing photo images.

[Designs [CAD]]
Suitable when printing design drawings that have many fine lines.

NOTE:

- To specify detailed settings for each item selected on [Objective], click [Advanced Settings]. For more information, click [Help] on the printer driver screen.

LINKS

◉Basic Printing Operations(P. 73)

Saving Toner

0YS1-021

You can set the printer driver to print documents using less toner.

IMPORTANT

- When the toner save setting is enabled, fine lines and portions with lighter print density may become blurred.

[Quality] tab ▶ Select the document type in [Objective] ▶ Click [Advanced Settings] ▶ Select [Toner Save] in the [Advanced Settings] screen ▶ Select [On] from the drop-down list ▶ [OK] ▶ [OK]
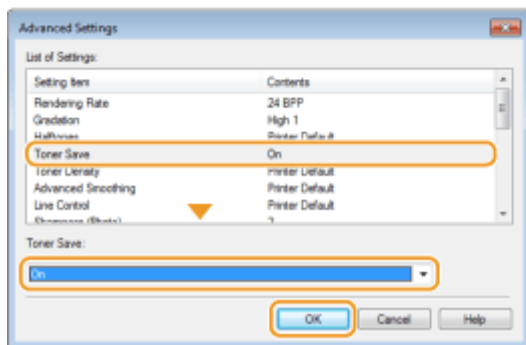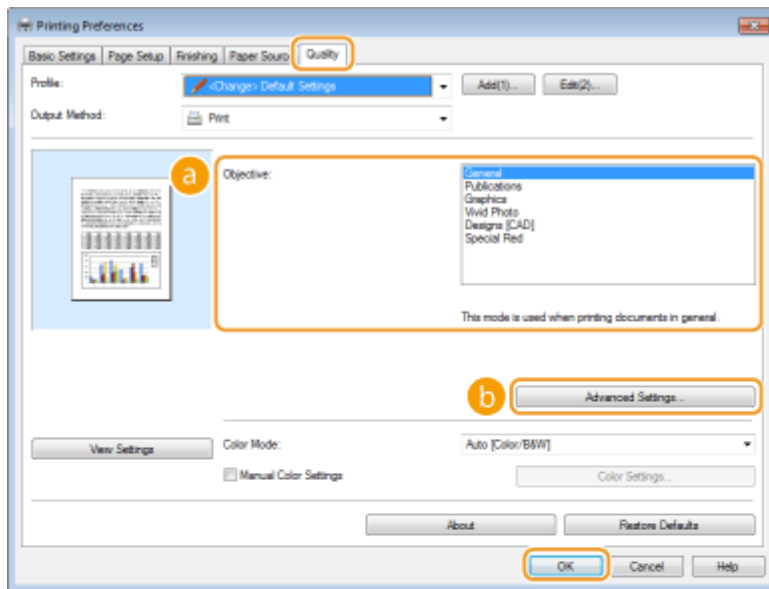
ⓐ [Objective] ▶ Selecting Document Type(P. 103)

Select the document type for which you want to enable the toner save setting.

ⓑ [Advanced Settings]

A screen with settings is displayed. Click [Toner Save] and select [On] from the drop-down list on the bottom of the screen.

NOTE:

- You can specify whether to enable the toner save setting for each document type. Specify the toner save setting for each document type listed in [Objective].

- In the [Advanced Settings] screen, you can specify various print settings other than toner save settings. For more information, click [Help] on the printer driver screen.

LINKS

ⓞBasic Printing Operations(P. 73)

Combining and Printing Multiple Documents

0YS1-022

By using Canon PageComposer, you can combine multiple documents into one print job and print the job with specified print settings. This function, for example, enables you to combine documents made with different applications and print all of the pages in the same paper size.

1 **Open a document in an application and display the print dialog box.**

- How to display the print dialog box differs for each application. For more information, see the instruction manual for the application you are using.

2 **Select your printer, and click [Preferences] or [Properties].**
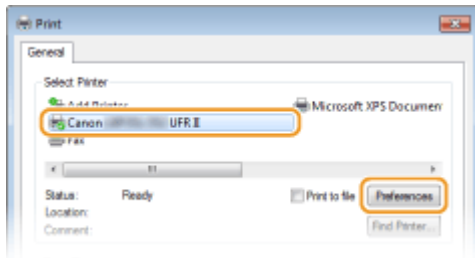
3 **Select [Edit and Preview] in [Output Method].**

- Click [OK] on the [Information] pop-up screen.
- Click [OK] at the bottom of the screen.
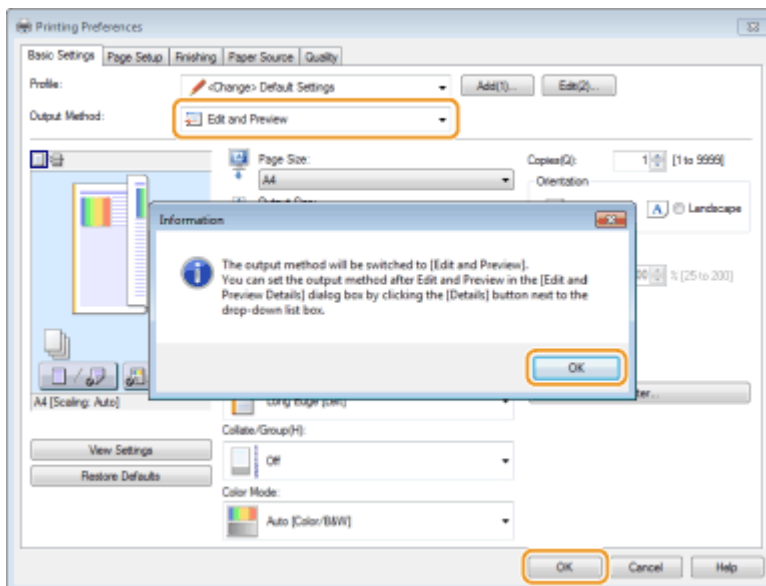
4 **Click [Print] or [OK].**
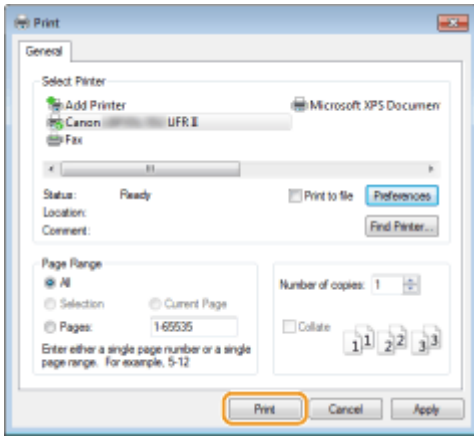
- The Canon PageComposer starts. Printing does not start in this step.

5 **Repeat steps 1 to 4 for the documents you want to combine.**

- The documents are added to the Canon PageComposer.
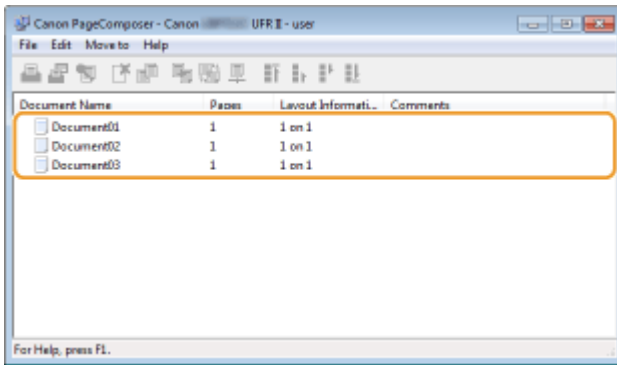
6 **From the [Document Name] list, select the documents to combine, and click .**

- To select multiple documents, click the documents while holding down [SHIFT] key or [CTRL] key.
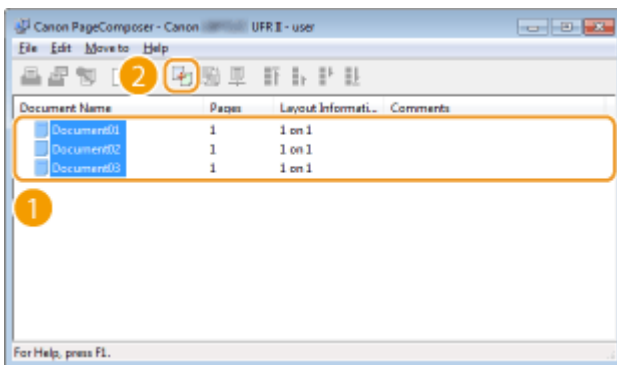
7 **Change the settings as necessary, and click [Combine].**

- The documents selected in step 6 are combined.
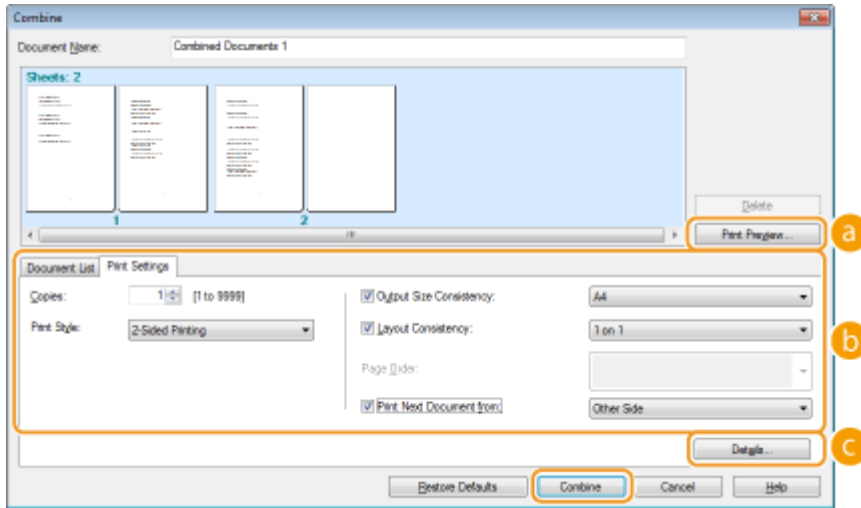
a **[Print Preview]**

Displays a preview of the document to be printed.

b **[Document List]/[Print Settings]**

- Click the [Document List] tab to display the documents added in steps 1 to 4. You can remove documents by selecting them in the list and clicking [Delete from List].
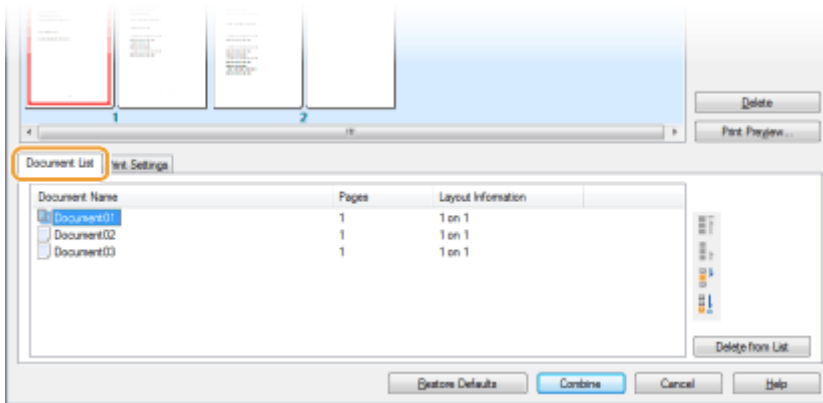
- Click the [Print Settings] tab to display the screen for specifying print settings such as the number of copies or 1-sided/2-sided printing. The settings specified here are applied to the whole print job.
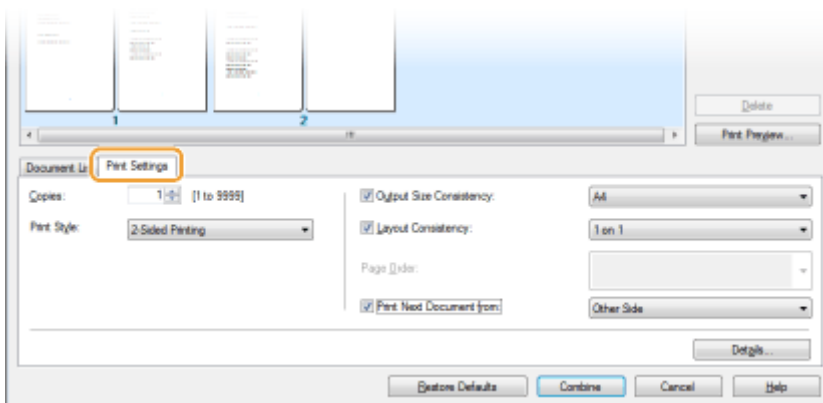
NOTE:

- For more information, click [Help] on the Canon PageComposer screen.

c **[Details]**

Displays the print setting screen of the printer driver. There are fewer settings available than when using the ordinary printing method.

8 **On the [Document Name] list, select the combined-document print job you want to print, and click 🖶.**
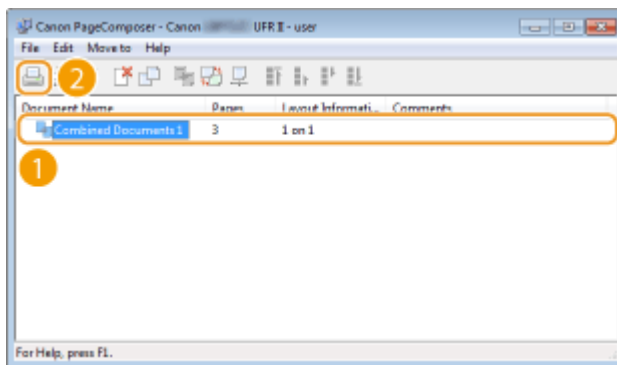
- Printing starts.
- For instructions on how to cancel printing, see ◆**Canceling Prints(P. 78)** .

LINKS

◆**Basic Printing Operations(P. 73)**

Configuring Print Settings to Your Needs

0YS1-023

You can register combinations of settings as "Profiles" to suit your different printing needs. Also, you can register the settings that you frequently use as the default setting. Once the default setting is set, the registered settings are automatically displayed on the printer driver screen, and you can skip the operations to specify the print settings and print immediately.

When I print highly confidential documents, I put a "TOP SECRET" watermark on them.

Specify "TOP SECRET" for a watermark and register it as a "Profile." Just select this "Profile" when you need it. ◉ **Registering Combinations of Frequently Used Print Settings(P. 112)**

To save printing costs, I always print each two pages on one page.

Specify [2 on 1] as the user default in the printer driver. The next and following print jobs will be performed so that each two pages are shrunk and printed on one page. ◉**Changing Default Settings(P. 114)**

Registering Combinations of Frequently Used Print Settings

0YS1-024

Specifying combinations of settings such as "1-sided landscape orientation on Letter size paper" every time you print may be time consuming. If you register these frequently used combinations of print settings as "profiles," you can specify printing settings simply by selecting one of these profiles from the list. This section describes how to register profiles and how to print using them.

⊙Registering a Profile(P. 112)
⊙Selecting a Profile(P. 113)

Registering a Profile

1 **Change the settings that you want to register as a profile, and click [Add].**

- Click the [Basic Settings], [Page Setup], [Finishing], [Paper Source], or [Quality] tabs to specify the print settings on each screen as necessary. **⊙Various Print Settings(P. 80)**
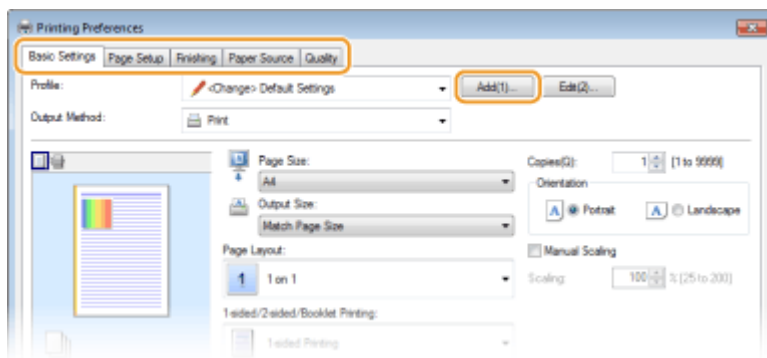
2 **Enter a profile name in [Name], select an icon, and then click [OK].**

- Enter comments on the profile in [Comment] as necessary.
- Click [View Settings] to see the settings to register.
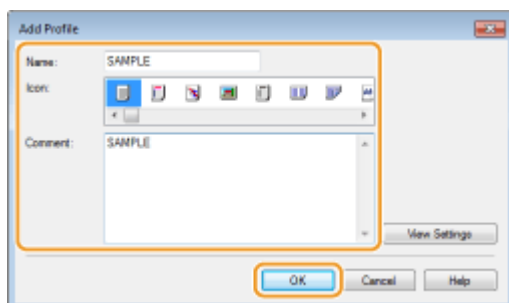
> **NOTE**
>
> **Editing a profile**
>
> - By clicking [Edit] on the right side of [Add] on the screen shown in step 1, you can change the name, icon, or comment of the profiles you have previously registered. You cannot edit the pre-registered profiles.

Selecting a Profile

Select the profile that suits your needs, and click [OK].
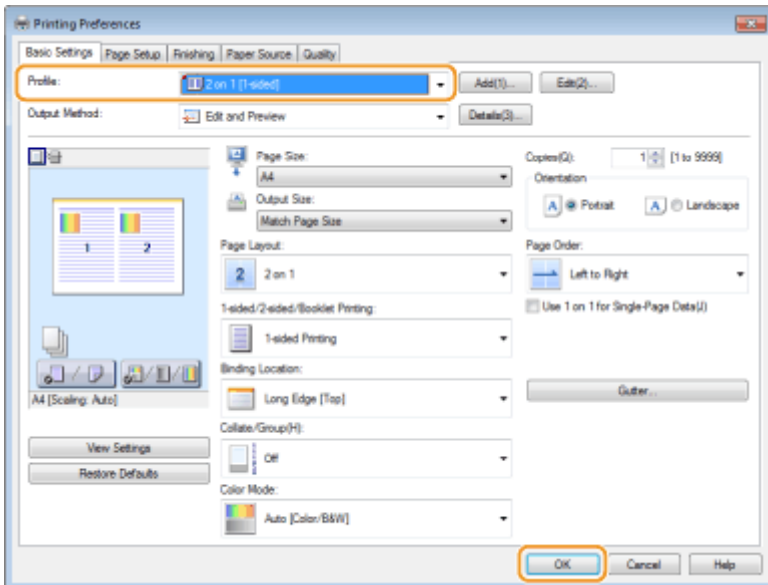
NOTE

Changing the settings of the selected profile

- You can change the settings of a selected profile. In addition, the changed settings can be registered as another profile.

LINKS

Basic Printing Operations(P. 73)
Changing Default Settings(P. 114)

Changing Default Settings

0YS1-025

The default settings are the settings that are first displayed whenever you open the print settings screen of the printer driver, but you can change them. For example, if you want to print all documents in such manner that each two pages are shrunk and printed on one page, specify [2 on 1] as the user default of page layout. From next time on, the printer driver will be opened with [2 on 1] specified as page layout setting and you will not have to change settings each time you print.

> **IMPORTANT**
>
> - To perform the following procedure, log on to your computer with an administrator account.

1 Open the printer folder. ⊙Displaying the Printer Folder(P. 662)

2 Right-click your printer icon and click [Printing preferences].
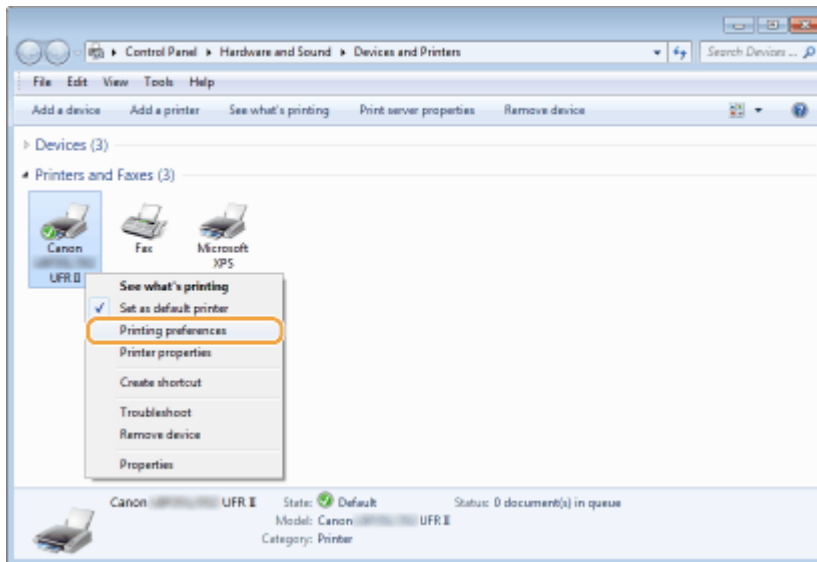
3 Change the settings on the print setting screen, and click [OK].

- Click the [Basic Settings], [Page Setup], [Finishing], [Paper Source], or [Quality] tabs to specify the print settings on each screen as necessary. ⊙Various Print Settings(P. 80)
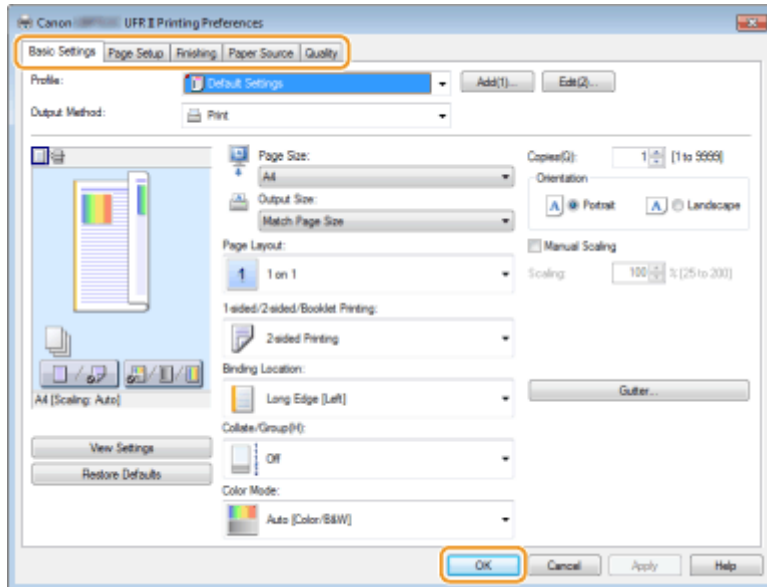
LINKS

Basic Printing Operations(P. 73)
Registering Combinations of Frequently Used Print Settings(P. 112)

Using Useful Print Functions

0YS1-026

You can use a variety of useful print functions as well as performing the basic print operations with the printer driver.

■Printing from USB Memory (USB Direct Print)

You can print PDF files and image files stored in a USB memory device by connecting it directly to the machine. Using this function, you can print without using a computer. **Printing from USB Memory (USB Direct Print)(P. 118)**
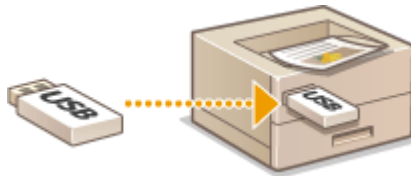
■Printing a Document Secured by a PIN (Secured Print)

By setting a PIN to data that is sent to the machine from a computer, the data is not printed until the correct PIN is entered on the operation panel of the machine. This function is useful when printing confidential documents. **Printing a Document Secured by a PIN (Secured Print)(P. 130)**
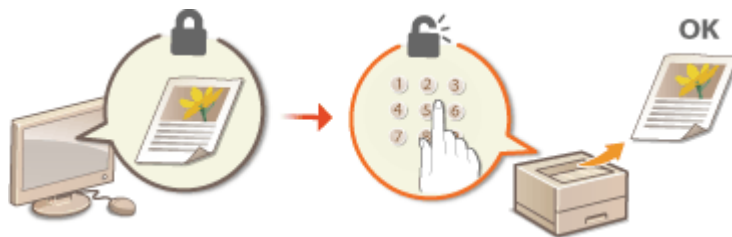
■Printing a Document Stored in the Machine (Stored Job Print)

You can save print data sent from a computer onto an SD card. The stored data can be printed as many times as you want. **Printing a Document Stored in the Machine (Stored Job Print)(P. 136)**

■Printing without Opening a File (Direct Print)

You can print files (PDF, JPEG, etc.) stored in your computer by sending them to the machine via a Web browser. No specific application is needed. **Printing without Opening a File (Direct Print)(P. 145)**

■Printing Received E-mail (E-Mail Print)

You can directly print e-mail messages and their attached files received in the machine without using a computer. ▶ **Printing Received E-mail (E-Mail Print)(P. 160)**
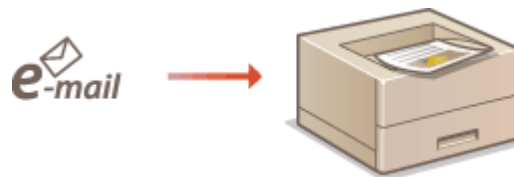
Printing from USB Memory (USB Direct Print)

0YS1-027

You can print image files (PDF, TIFF, JPEG, and XPS) stored in a USB memory device by connecting it directly to the machine. Using this function, you can print without using a computer.
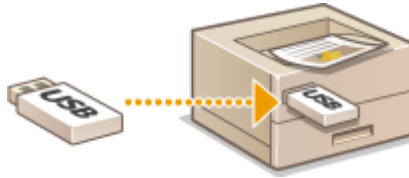
Available File Formats

You can print the following types of image files. However, some files cannot be printed depending on the file structure.

- PDF file [*]
- JPEG file
- TIFF file
- XPS file

[*] Version 1.7 is supported.

IMPORTANT

- The maximum size of a printable file is 2 GB.

Available USB Memory Devices

You can use FAT32 formatted USB memory devices (memory capacity: up to 32 GB).

IMPORTANT

- Do not use non-standard USB memory devices. You may not be able to print the files properly depending on the USB memory device.
- Do not connect anything other than a USB memory device. USB memory devices cannot be connected via a USB hub or an extension cable.
- Do not use USB memory devices with special functions such as built-in security functions.

NOTE

- The USB port of the machine supports USB 2.0.
- If a folder in a USB memory device has many files, scanning image files to print will take some considerable time. Use your computer to delete unnecessary files on your USB memory device or move them to a different folder.

1 **Connect a USB memory device to the USB port on the right side of the machine.**
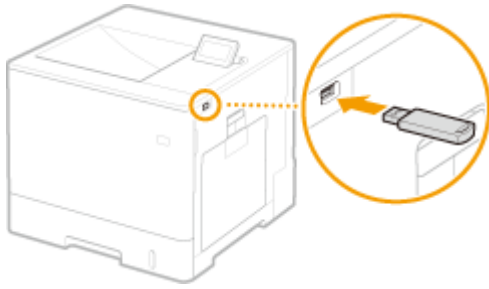
➠ The following screen is automatically displayed.

```
Ready to print files
from USB memory.
 <Remove USB Memory>
 Select File(s)
 Sort Files
```

- If the screen is not displayed, press ▭ (Application).

IMPORTANT:

- Do not shock or shake the USB memory device or the machine while the device is connected to the machine.

2 Use ▲ / ▼ to select <Select File(s)>, and press ☒.

```
Ready to print files
from USB memory.
 <Remove USB Memory>
 Select File(s)
 Sort Files
```

3 Select the type of the file to print, and press ☒.

```
Select File(s)
 PDF
 XPS
 JPEG
 TIFF
```
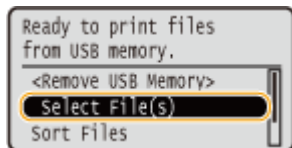
4 Select the file to print, and press ☒.

- You can select up to 10 files.

```
⌂Root Directory
 <Apply>
 <Clear All>
 ✔ file1.pdf
   file2.pdf 15 10/10
```
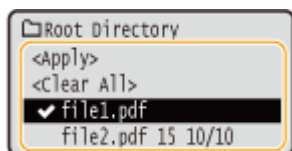
- To clear a selection, select the file you have selected (marked with ✔), and press ☒ . To clear all selections, select <Clear All>, and press ☒ .

- To display the contents of a folder, select a folder, and press ☒ or ▶ . To return to the folder in the upper level, press ↰ or ◀ .

NOTE:

- Folders and files in lower levels or with longer names may not be displayed.
- When you move to another folder, the previous file selections will be cleared.

5 **Select <Apply>, and press** [OK].

```
Root Directory
<Apply>
<Clear All>
✔ file1.pdf 15 10/10
   file2.pdf 15 10/10
```

■When printing an XPS Document Using a Print Ticket

When a file to print is in XPS format, it can be printed according to the print ticket (print settings) attached to the file.

1 **Select <Use Print Ticket>, and press** [OK].

```
Root Directory
<Apply>
<Use Print Ticket>
<Clear All>
✔ file.pdf 15 10/10
```

2 **Select <Start Printing>, and press** [OK].

```
Print Ticket
:1                XPS
<Remove USB Memory>
<Start Printing>
```

➠ Printing starts. When the printing is finished, remove the USB memory device from the machine. **○ Disconnect the USB memory device.(P. 127)**

6 **Specify the print settings as necessary.**

● Select the desired setting item, press [OK], and specify the setting.

```
Print Settings
:1                PDF
<Remove USB Memory>
<Start Printing>
No. of Copies
```

NOTE:

Icons* in the description

PDF	Settings for printing PDF files
XPS	Settings for printing XPS files
JPEG	Settings for printing JPEG files
TIFF	Settings for printing TIFF files

* Icons are omitted for the settings that are displayed regardless of the file format.

<No. of Copies>

Specify the number of copies from 1 to 9999. Use the numeric keys to enter a quantity, and press [OK].

```
No. of Copies
        ▲
      1  copies
    (1-9999)
```

<Print Range>/<Print Range (TIFF)>

`PDF` `XPS` `TIFF`

Specify the range (pages) to print. Use ▲ / ▼ to select <Designation Method> ▶ `OK` ▶ select the method to designate the print range ▶ `OK` .

ⓐ <All>

Prints all pages.

ⓑ <Specify Pages>
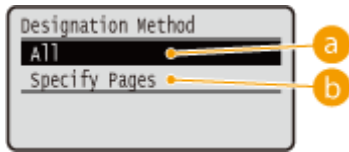
Prints only the specified pages. To specify the pages, select <Page Range> ▶ `OK` ▶ enter <First Page> and <Last Page> using the numeric keys ▶ select <Apply> ▶ `OK` .

<Color Mode>

Specify whether to print in color or black and white. Use ▲ / ▼ to select the setting, and press `OK` .
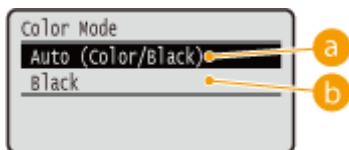
ⓐ <Auto (Color/Black)>

Automatically select color or black and white printing depending on the type of document.

ⓑ <Black>

Print in black and white even when the document is in color.

<2-Sided Printing>

Select whether to print on both sides of paper. Use ▲ / ▼ to select the setting, and press `OK` .
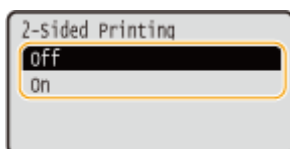
NOTE:

- <2-Sided Printing> may not be available with some sizes or types of paper. **Paper(P. 621)**

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\<Binding Location\>

Specify whether to bind the long edge or short edge of the 2-sided printouts with a binding tool such as a stapler. Use ▲ / ▼ to select the binding position, and press [OK].

a \<Long Edge\>

Binds the printouts on the long edge.

b \<Short Edge\>

Binds the printouts on the short edge.

\<Select Paper\>

Select the paper source in which the paper to print is already loaded. Use ▲ / ▼ to select the paper source, and press [OK].
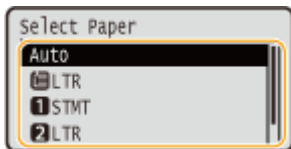
NOTE:

- When you want to print a PDF file or XPS file, specify \<Auto\> to automatically select the optimum paper source.

- A paper source with custom size paper loaded cannot be selected.

\<Halftones\>

You can select the method to reproduce halftones (the intermediate range between the lighter and darker areas of an image).

■ **PDF files and XPS files**

You can specify \<Error Diffusion\> as the halftone reproduction method or specify the halftone reproduction method separately for each image data type. To specify \<Error Diffusion\>, use ▲ / ▼ to select \<Error Diffusion\> ▶ press [OK] ▶ \<On\> ▶ press [OK]. To specify the reproduction method separately for each image data type, use ▲ / ▼ to select \<Resolution/Gradation\> ▶ press [OK] ▶ select the image data type ▶ press [OK] ▶ select the method to reproduce halftone ▶ press [OK].
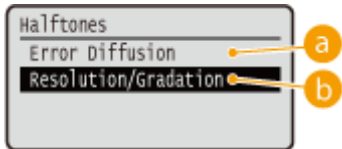
ⓐ <Error Diffusion>

You can perform finer printing than with <Resolution/Gradation>. This print mode is suitable for sharply printing edges of fine granularity data such as characters or thin lines.

ⓑ <Resolution/Gradation>

Select the halftone reproduction method when <Error Diffusion> is set to <Off>. You can make this setting for each of the types of image contained in one document.
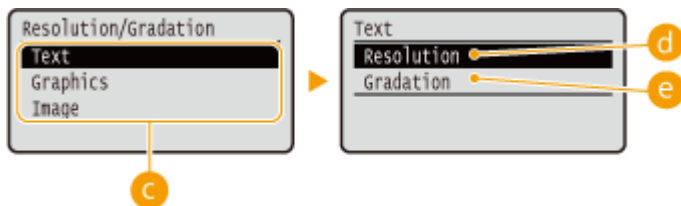
ⓒ Type of image

Select the type of image for which you want to change the setting. <Text> represents letters and characters, <Graphics> represents lines and figures, and <Image> represents photos and other types of images.

ⓓ <Resolution>

Prints text with clear edges to produce a fine print. This is suitable for printing text and thin lines.

ⓔ <Gradation>

Prints gradations and outlines with a smooth finish. This is suitable for printing figures and graphs that use gradations.

NOTE:

- When <Error Diffusion> is set to <On>, <Resolution/Gradation> is not displayed.

■JPEG files and TIFF files

Use ▲ / ▼ to select the method to reproduce halftones, and press [OK] .
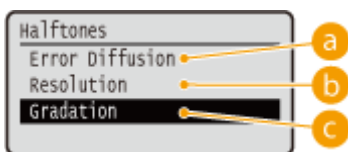
ⓐ <Error Diffusion>

You can perform finer printing than with <Resolution>. This print mode is suitable for sharply printing edges of fine granularity data such as characters or thin lines.

ⓑ <Resolution>

Prints text with clear edges to produce a fine print. This is suitable for printing text and thin lines.

ⓒ <Gradation>

Prints gradations and outlines with a smooth finish. This is suitable for printing figures and graphs that use gradations.

\<Match Paper Size\>

`PDF` `XPS`

Automatically makes enlarged or reduced printouts according to the ◯**Printable Area(P. 624)** of the paper. The printouts are enlarged or reduced with the original's aspect ratio kept. Use ▲ / ▼ to select the setting, and press [OK].

```
Match Paper Size
 Off
 On
```
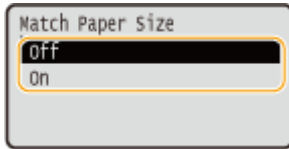
NOTE:

- This setting is not available if \<Auto\> is set in \<Select Paper\>.

\<Zoom\>

`JPEG` `TIFF`

Enable or disable enlarging/reducing images. The printouts are enlarged or reduced with the image's aspect ratio kept. Use ▲ / ▼ to select the setting, and press [OK].

```
Zoom
 Off          a
 Auto         b
```

ⓐ \<Off\>

When the image is within the ◯**Printable Area(P. 624)** of the paper, it is printed with the size as is. When an image is larger than the printable area, printouts are reduced.

ⓑ \<Auto\>

Makes enlarged or reduced printouts according to the ◯**Printable Area(P. 624)** .

\<Enlarge Print Area\>

Specify whether or not to print the image by extending the ◯**Printable Area(P. 624)** fully to the paper size. Use ▲ / ▼ to select the setting, and press [OK].
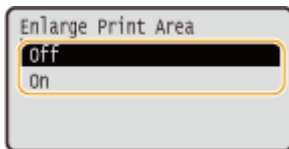
```
Enlarge Print Area
 Off
 On
```

NOTE:

- If you select \<On\>, some portions of the image may be missing near the edge of the paper or the paper may be partly tainted depending on the original.

\<N on 1\>

PDF XPS

Select whether to print multiple pages onto a single sheet by sequentially allocating them from the top left. For example, to print four pages onto a single sheet, select <4 on 1>. Use ▲ / ▼ to select the setting, and press ⏎ .

N on 1
off
2 on 1
4 on 1
6 on 1
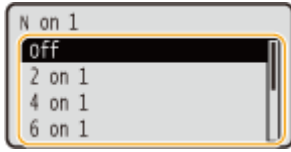
NOTE:

- This setting is not available if <Auto> is set in <Select Paper>.

<Finishing>

PDF XPS

Specify the method to collate the printouts when printing multiple-page documents. Use ▲ / ▼ to select whether or not to collate the printouts, and press ⏎ .
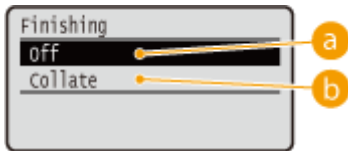
Finishing
off — Ⓐ
Collate — Ⓑ

Ⓐ **<Off>**

The printouts are not collated. The specified number of copies are printed for each page. For example, if you are printing three copies of a four-page document, the printouts will be arranged in the following page order: 1, 1, 1, 2, 2, 2, 3, 3, 3, 4, 4, 4.

Ⓑ **<Collate>**

The printouts are grouped into complete sets in sequential page order. For example, if you are printing three copies of a four-page document, the printouts will be arranged in the following page order: 1, 2, 3, 4, 1, 2, 3, 4, 1, 2, 3, 4.

<Image Orientation>

JPEG TIFF

Specify the print orientation of an image. Use ▲ / ▼ to select the print orientation, and press ⏎ .

a **<Auto>**
Automatically determines the print orientation based on the width and height of the image.

b **<Vertical>**
Select when printing a vertically-long image.

c **<Horizontal>**
Select when printing a horizontally-long image.

NOTE:

- If the specified setting of <Vertical> or <Horizontal> does not match the orientation of the image, the reduced image is printed.

<Print Position>

`JPEG` `TIFF`

Specify the position to print the image. Use ▲ / ▼ to select the print position, and press ｜OK｜.
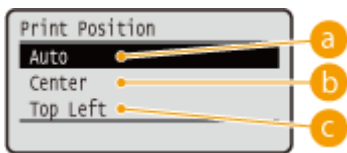
a **<Auto>**
If the TIFF data contains the information that specifies the print position, the image is printed according to the information, otherwise, it is printed at the center of paper. JPEG data is always printed at the center of paper.

b **<Center>**
Images are printed at the center of paper.

c **<Top Left>**
Images are printed at the top left.

7 **Select <Start Printing>, and press ｜OK｜.**
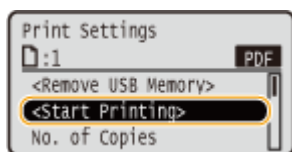
➡ Printing starts.

- To cancel printing, use the operation panel. ⊙**Canceling Prints(P. 78)**

8 **Disconnect the USB memory device.**

1 Select <Remove USB Memory>, and press [OK] .

2 Select <Yes>, and press [OK] .

➠ Wait until the message shown below appears.

```
USB memory can now
be safely removed.
```

3 Disconnect the USB memory device.

NOTE

- If you select <Sort Files> on the screen in step 1, you can change the order of displaying files when you select the file to print.

TIPS

If you always want to print with the same settings: ◗**Changing Default Settings(P. 114)**

Changing Default USB Print Settings

0YS1-028

The settings that are initially displayed for specifying print settings are called the default settings. If you change these default settings to match the operations that you perform frequently, you can eliminate the need to specify the same settings every time you make prints.

    ▢ (Application) ▶ <USB Print Settings> ▶ [OK] ▶ <PDF/XPS Default Set.> or <JPEG/TIFF Def. Set.>
▶ [OK] ▶ Select the setting item ▶ [OK] ▶ Change the default value of the selected item ▶ [OK]

PDF/XPS

PDF/XPS Default Set.
No. of Copies
Color Mode
2-Sided Printing
Binding Location
Select Paper
Halftones
Match Paper Size
Enlarge Print Area
N on 1
Finishing
ⓐ

JPEG/TIFF

JPEG/TIFF Def. Set.
No. of Copies
Color Mode
2-Sided Printing
Binding Location
Select Paper
Halftones
Zoom
Enlarge Print Area
Image Orientation
Print Position
ⓐ

ⓐ Setting items

Select the item you want to set, and change the default value.

■ Setting the Order of Displaying Files to Print

You can set the order in which files to print from a USB memory device are displayed for selection.
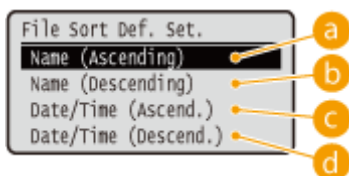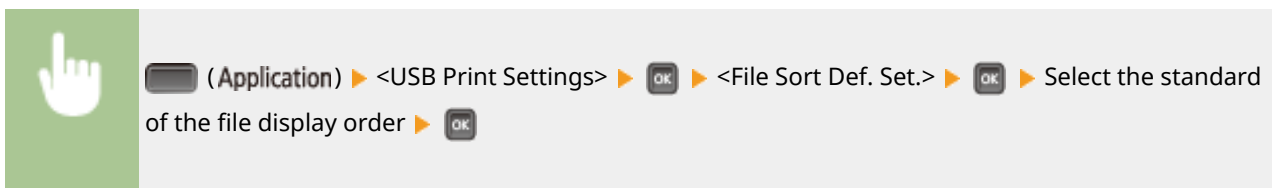
    ▢ (Application) ▶ <USB Print Settings> ▶ [OK] ▶ <File Sort Def. Set.> ▶ [OK] ▶ Select the standard of the file display order ▶ [OK]

File Sort Def. Set.
Name (Ascending) ⓐ
Name (Descending) ⓑ
Date/Time (Ascend.) ⓒ
Date/Time (Descend.) ⓓ

ⓐ <Name (Ascending)>

Displays the files in ascending order by name.

ⓑ <Name (Descending)>

Displays the files in descending order by name.

c **<Date/Time (Ascend.)>**

Displays the files in ascending order by date/time.

d **<Date/Time (Descend.)>**

Displays the files in descending order by date/time.

LINKS

Printing from USB Memory (USB Direct Print)(P. 118)

Printing a Document Secured by a PIN (Secured Print)

0YS1-029

By setting a PIN to a document when printing from a computer, the document is held in an optional SD card installed on the machine, and is not printed until the correct PIN is entered on the operation panel of the machine. This function is called "Secured Print," and the document that is protected by a PIN is called a "secured document." Using Secured Print keeps printouts of confidential documents from being left unattended. Before you can use this function, you need to install an optional SD card on the machine (**Installing an SD Card(P. 634)**).
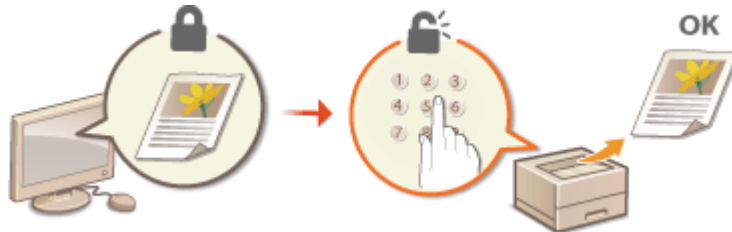
Sending a Secured Document from a Computer to the Machine(P. 130)
Printing Out Secured Documents(P. 132)
Changing the Valid Time Period for Secured Documents(P. 133)

Sending a Secured Document from a Computer to the Machine

Follow the procedure below. You can send a document protected by a PIN.

1 **Open a document in an application and display the print dialog box.**

- How to display the print dialog box differs for each application. For more information, see the instruction manual for the application you are using.

2 **Select this machine, and click [Preferences] or [Properties].**
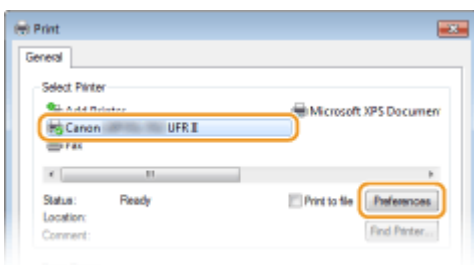
- The screen that is displayed differs depending on the application you are using.

3 **Select [Secured Print] in [Output Method].**

- Click [Yes] or [No] on the [Information] pop-up screen.
- If you want to use the same user name and PIN every time, click [Yes]. To change the user name and PIN every time, click [No].
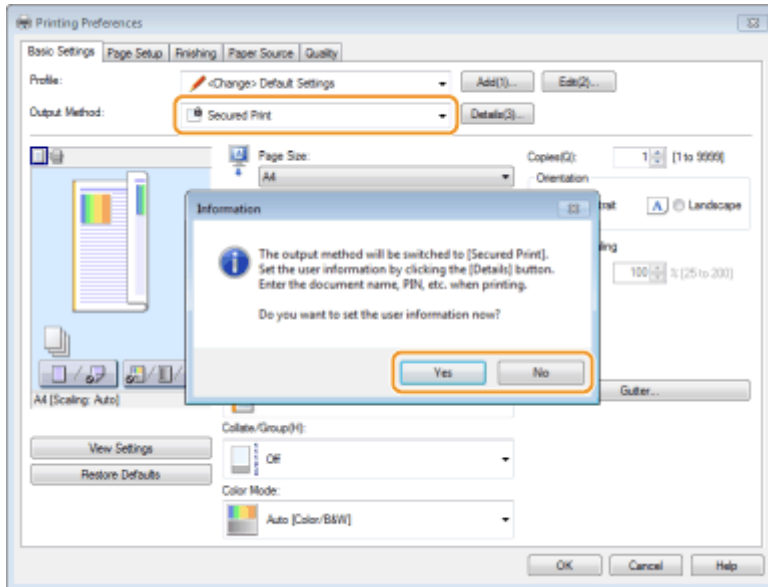
■If you selected [Yes]

Enter the user name for [User Name] and PIN for [PIN], and click [OK].

- The computer name (logon name) of your computer is displayed in [User Name]. If you want to change it, enter up to 32 alphanumeric characters for a new computer name.

- Enter a number of up to seven digits to [PIN].
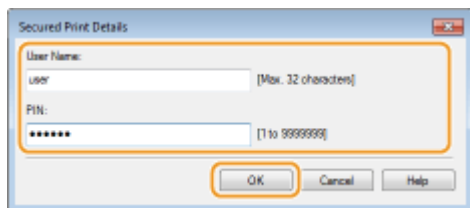
4 **Specify the print settings, and click [OK].**

- Click the [Basic Settings], [Page Setup], [Finishing], [Paper Source], or [Quality] tab to specify the print settings on each screen as necessary. **❍Various Print Settings(P. 80)**
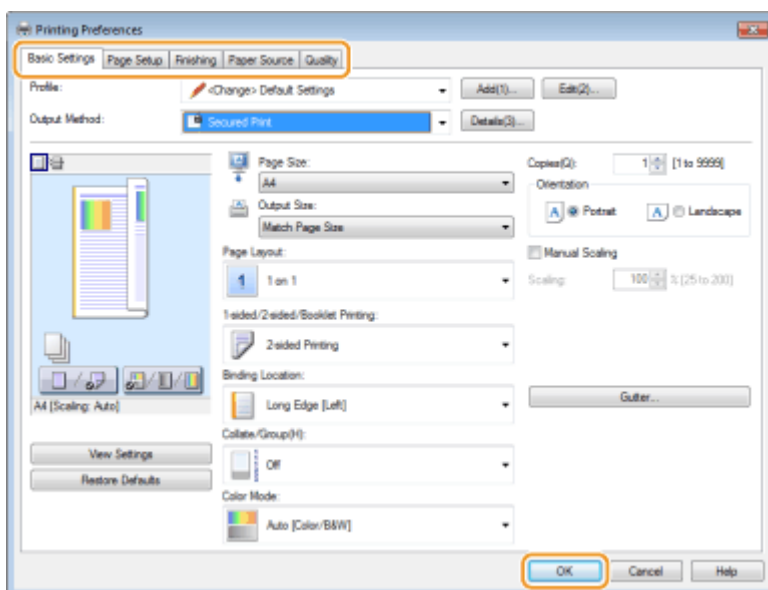
5 **Click [Print] or [OK].**
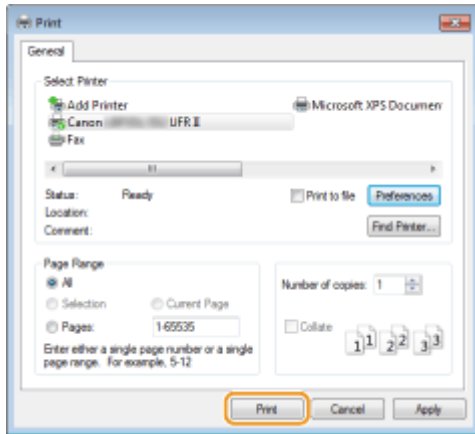
⇒ After the secured document is sent to the machine, it is held in the SD card waiting to be printed.

■**If you selected [No] at step 3**

Enter the [Document Name], [User Name], and [PIN] and click [OK].

● The document name is automatically set based on the information from the application. If you want to change the document name, enter up to 32 alphanumeric characters for a new document name.

● The computer name (logon name) of your computer is displayed in [User Name]. If you want to change the user name, enter up to 32 alphanumeric characters for a new user name.

● Enter the [PIN] of up to seven digits.
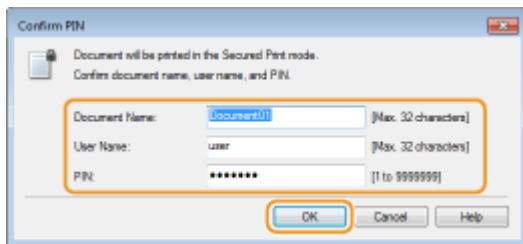
NOTE

● If you install the "Encrypted Print Driver Add-in" that comes with the optional SD CARD-C1 kit on the machine, you can use the encrypted print function with enhanced security. ○**Using the Encrypted Print(P. 135)**

Printing Out Secured Documents

After you send the secured document to the machine, print it out within one hour. After that, the secured document will be deleted from the SD card and can no longer be printed.

NOTE

● You can change the valid time period for secured documents. ○**Changing the Valid Time Period for Secured Documents(P. 133)**

1 Press ▲ (Job).

2 Use ▲ / ▼ to select <Secured Print>, and press ⬛.

```
Job
  Encrypted Print
  Secured Print
  Stored Job List
  Stored Job Print
```
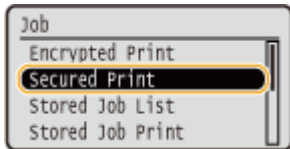
3 **Select the secured document to print, and press [OK] .**

- If the SD card contains only one secured document, this screen is not displayed.

```
Job
  Document_1.pdf
  Document_2.pdf
```
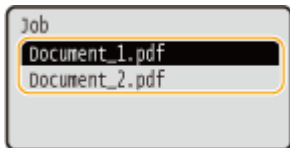
NOTE:

If the user name is displayed

- If secured documents from two or more users are being held in the SD card, the user selection screen as shown below is displayed prior to the screen shown above. Select your user name, and press [OK] .

```
Job
  User 1
  User 2
  User 3
```
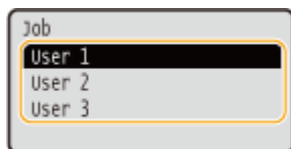
4 **Enter the PIN, and press [OK] .**

```
PIN
  [            ]

    (fix : OK key)
```
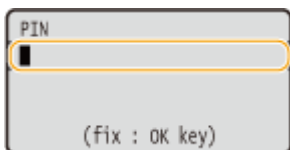
➡ Printing starts.

- To cancel print jobs, use the operation panel. **○Canceling Prints(P. 78)**

Changing the Valid Time Period for Secured Documents

By default, the machine is set to delete secured documents one hour after receiving them unless they are printed. You can change this time value within a defined range.

1 **Press ▶ (Settings).**

2 **Use ▲ / ▼ select <Control Menu>, and press [OK] .**

3 **Select <Sec. Print Del. Time>, and press [OK] .**

4 **Select how long the SD card holds secured documents, and press [OK] .**

- The secured document is erased from the SD card when the time selected here elapses.
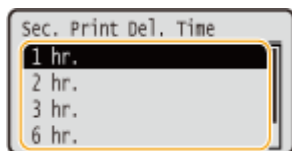
LINKS

Using the Encrypted Print(P. 135)
Installing an SD Card(P. 634)

Using the Encrypted Print

0YS1-02A

Print data is encrypted before being sent to the machine, enhancing security more than the regular secured print function. To use this function, install the "Encrypted Print Driver Add-in" that comes with the optional "SD CARD-C1" kit. A document that is printed by the Encrypted Print function is called an "encrypted document."

> **NOTE**
>
> **To install "Encrypted Print Driver Add-in"**
>
> ● See "Readme.txt" contained in the CD-ROM supplied with the "SD CARD-C1" kit.

■ Sending an Encrypted Document from a Computer to the Machine

See Help. You can view Help from the printer driver.

Open the printer folder (❯**Displaying the Printer Folder(P. 662)**) ▶ Right-click the icon of the machine ▶ [Printer properties] or [Properties] ▶ [Encrypted-P] tab ▶ [Help]

■ Printing Out Encrypted Documents

After you send the secured document to the machine, print it out within one hour. After that, the secured document will be deleted from the SD card and can no longer be printed.

▲ (Job) ▶ <Encrypted Print> ▶ [OK] ▶ Select the encrypted document to print ▶ [OK] ▶ Enter the PIN using the numeric keys ▶ [OK]

> **NOTE**
>
> **About the valid time period for encrypted documents**
>
> ● You can change the valid time period for encrypted documents. You can use the same changing method as for secured documents. ❯**Changing the Valid Time Period for Secured Documents(P. 133)**
>
> **If you are using alphanumeric characters or symbols in your PIN**
>
> ● The Encrypted Print function allows you to use alphabetic characters and symbols as well as numbers when specifying a PIN in the printer driver. However, if you use an alphabetic character or symbol in the PIN, you cannot print an encrypted document from the operation panel of the machine. Use [Job Status] of the Remote UI to print an encrypted document. ❯**Checking Current Status of Print Documents(P. 345)**

Printing a Document Stored in the Machine (Stored Job Print)

0YS1-02C

The data printed from a computer can be saved on the SD card installed on the machine. Since the saved data can be directly printed from the machine, you can eliminate the need to operate the computer every time you print. It is convenient to save a document that will be printed many times such as a fax cover sheet. ◗**Installing an SD Card(P. 634)**
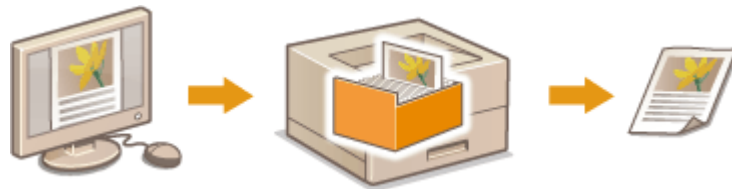
◗**Storing a Document in the Machine(P. 136)**
◗**Printing a Document Stored in the Machine(P. 138)**

> **NOTE**
>
> - Up to 1,000 documents can be stored in the machine.
>
> - The data saved on the SD card is not deleted even when the power is turned OFF, but the machine is set to automatically delete the data three days later. When you want to change the data storage period or prevent the data from being automatically deleted, change the applicable settings from the Remote UI (◗**Changing the Storage Period for Documents(P. 140)**). The saved data can also be deleted manually (◗**Manually Deleting Documents(P. 141)**).

Storing a Document in the Machine

1 **Open a document in an application and display the print dialog box.**

- How to display the print dialog box differs for each application. For more information, see the instruction manual for the application you are using.

2 **Select this machine, and click [Preferences] or [Properties].**
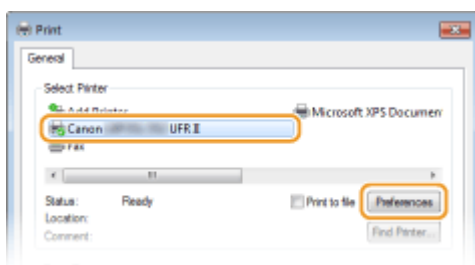
- The screen that is displayed differs depending on the application you are using.

3 **Select [Store] in [Output Method], and click [Yes].**
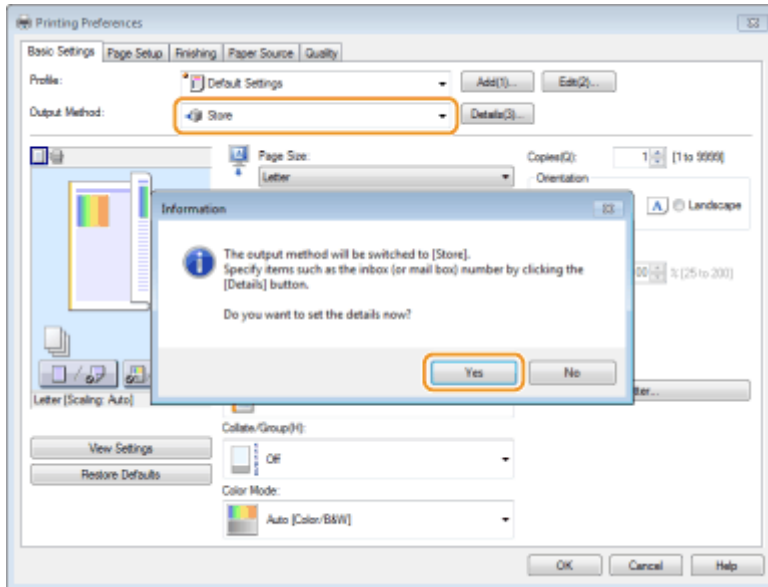
4 **Specify the settings for storing documents, and click [OK].**
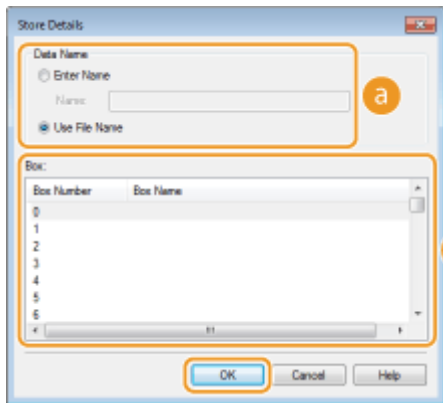
ⓐ [Data Name]

Assign a name to print data to store in the SD card.

[Enter Name]	Manually set a name. Enter up to 24 characters for the name of the print data. Specify a friendly name that can be easily identified on the display of the machine.
[Use File Name]	A name is automatically set based on the file name of print data to store and the information of an application that you are using.

ⓑ [Box]

A place used to store print data in the SD card is called a box. Select the number of the box to store the document. You can assign a name to the box to facilitate identification of the box. ◉**Setting a Name or PIN to a Box(P. 143)**

5 **Specify the print settings, and click [OK].**

- Click the [Basic Settings], [Page Setup], [Finishing], [Paper Source], or [Quality] tab to specify the print settings on each screen as necessary. ◉**Various Print Settings(P. 80)**

- The settings changed here are stored with the document. When the document is printed next time, it is printed with the stored settings.
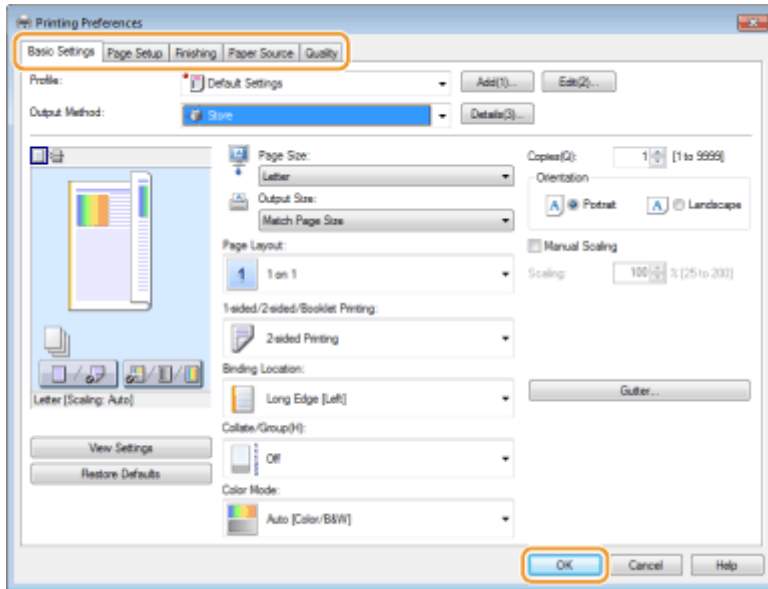
6 **Click [Print] or [OK].**
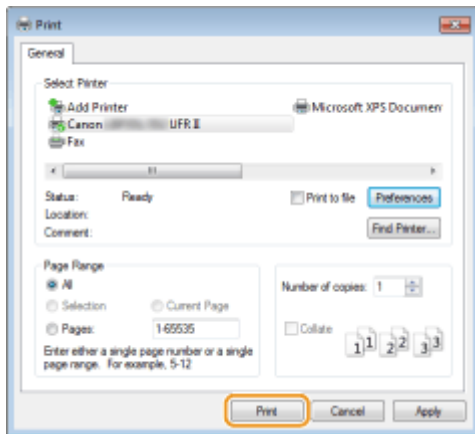
➠ The document is sent to the machine and stored in the specified box.

Printing a Document Stored in the Machine

1 **Press ▲ (Job).**

- When the machine is offline, it does not operate even if you press ▲ (Job). Set the machine to Online. ○ **[Online] key(P. 25)**

2 **Use ▲ / ▼ to select <Stored Job Print>, and press ☐ .**

```
Job
  Encrypted Print
  Secured Print
  Stored Job List
  Stored Job Print
```
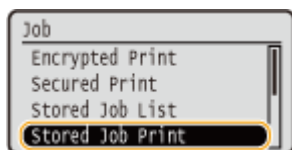
3 **Select the box number of the document to print, and press ☐ .**

```
Stored Job Print
 Box No. 0
 Box No. 1
 Box No. 2
 Box No. 3
```
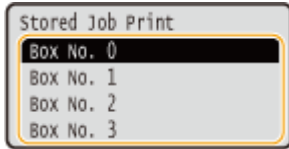
NOTE:

If the box is protected by a PIN

- When the PIN input screen is displayed, enter the PIN and press [OK] . If you are unsure of the PIN, contact the administrator of the machine.
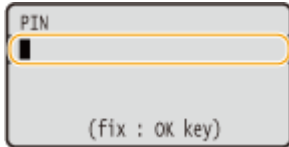
```
PIN
[          ]


    (fix : OK key)
```

4   **Select the document to print, and press [OK] .**

```
Stored Job Print
 Document_1.pdf
 Document_2.pdf
```
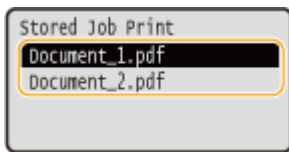
➠ Printing starts.

- To cancel printing, use the operation panel. **⊙Canceling Prints(P. 78)**

NOTE

- Documents saved on the SD card can also be printed from the [Box] page of the Remote UI (**⊙[Box] Page(P. 342)**). Open the box in which documents are saved, select the check box for a document to print, and click [Print].

LINKS

⊙Deleting a Document Stored in the Machine(P. 140)
⊙Setting a Name or PIN to a Box(P. 143)
⊙Installing an SD Card(P. 634)

Deleting a Document Stored in the Machine

0YS1-02E

The data saved on the SD card is set to be automatically deleted three days later by default. If you want to change how long the SD card holds documents or prevent the documents from being automatically deleted, change the settings from the Remote UI. The saved documents can also be deleted manually.

◉**Changing the Storage Period for Documents(P. 140)**
◉**Manually Deleting Documents(P. 141)**

Changing the Storage Period for Documents

1 **Start the Remote UI and log on in Management Mode.** ◉**Starting Remote UI(P. 336)**

2 **Click [Settings/Registration].**
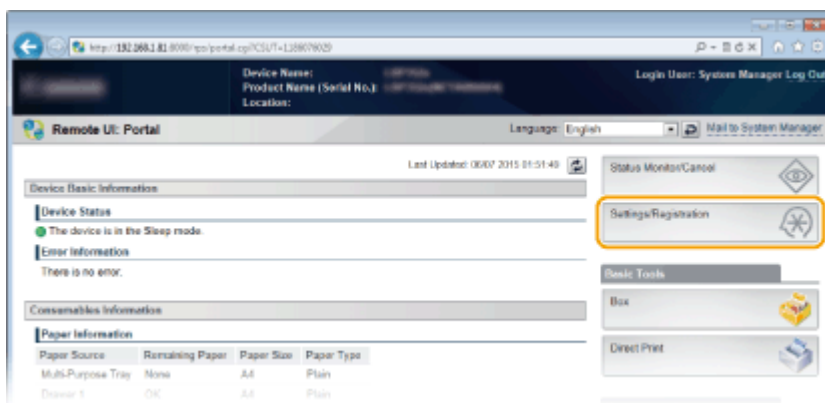
3 **Click [Control Menu] ▶ [Edit].**
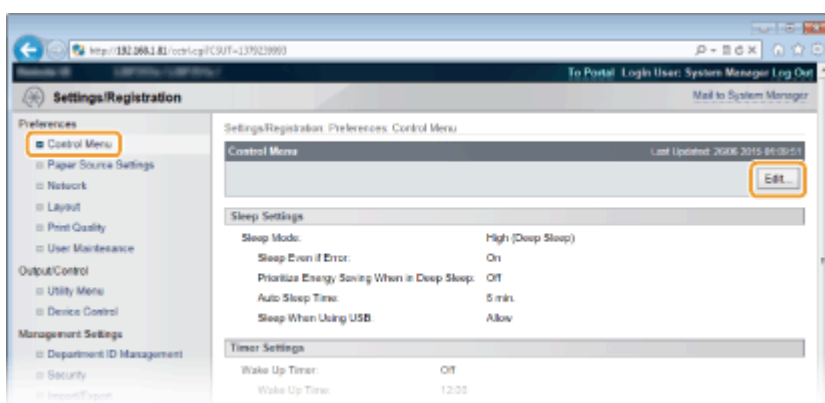
4 **Change the storage period.**

- To prevent documents from being automatically deleted, select [Off].
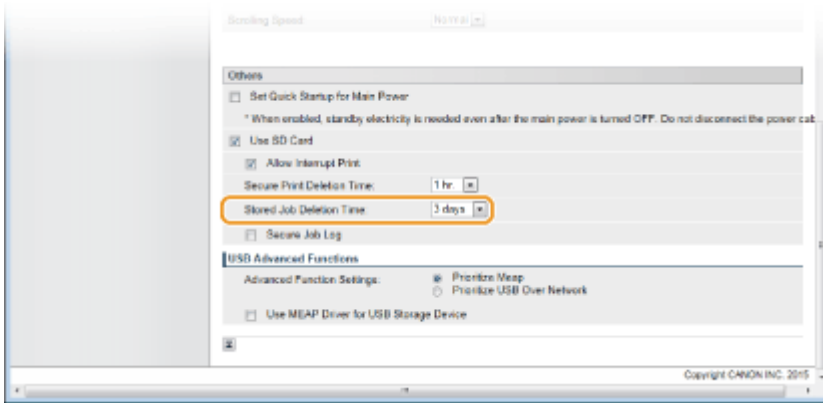
5 **Click [OK].**
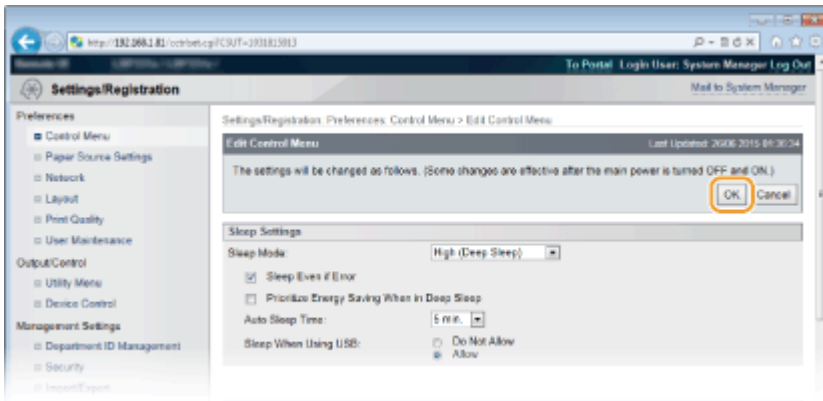
Manually Deleting Documents

1 **Start the Remote UI and log on. ▶Starting Remote UI(P. 336)**

NOTE:

If you logged on in General User Mode

- By default, the machine is configured so that no users (general users) other than the administrator can delete the documents. To allow end users to operate documents, you must change the settings. ▶ **Enabling End Users to Operate Documents(P. 351)**

- You can delete only the document of which user name matches the one that was used to log on to the Remote UI.

2 **Click [Box].**
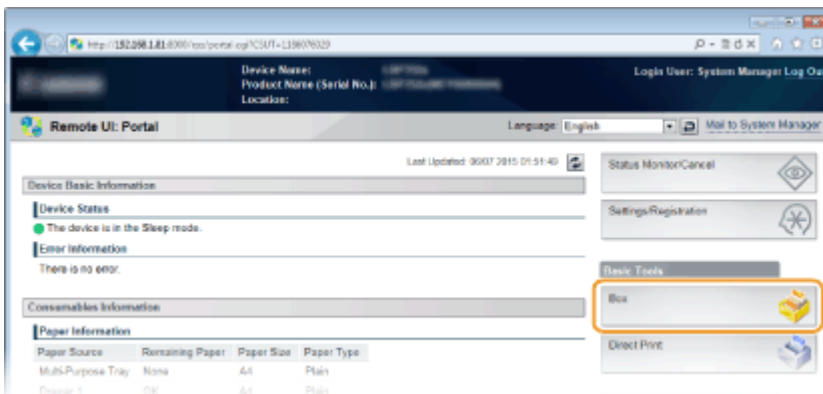
3 **Click the number of the box where the document to delete is stored.**
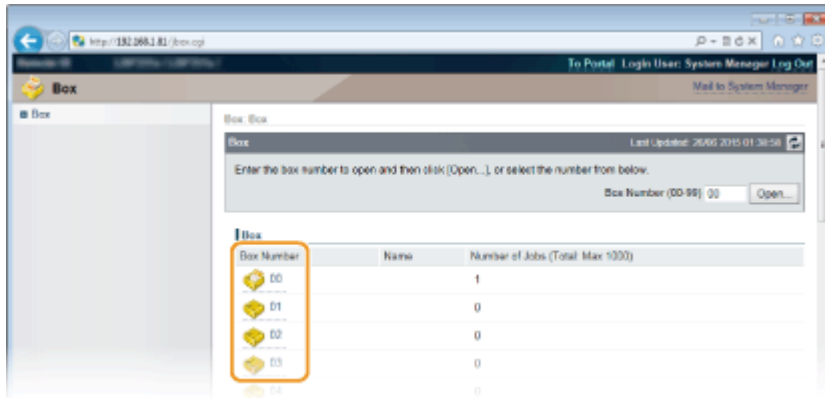
NOTE:

If the box is protected by a PIN

● When the screen shown below is displayed, enter the PIN and click [OK].

4 **Select the check box of the document to delete, and click [Delete].**
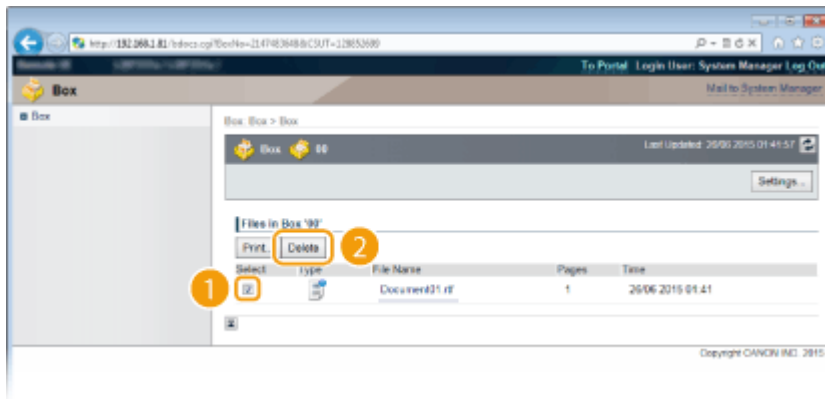
➡ The selected document is deleted.

NOTE:

● You can click the text link under [File Name] to check the details of the document.

NOTE

● It may take some time until the free space of the SD card is increased because the stored data is erased in the background.

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Setting a Name or PIN to a Box

0YS1-02F

You can set a name for a box and a PIN to open the box. If you set a friendly name for the box, you can easily identify the box when selecting the place to store documents by using the printer driver. If you set a PIN, the stored documents can be accessed by only limited users, enhancing the security.

1 **Start the Remote UI and log on in Management Mode.** ◗**Starting Remote UI(P. 336)**

2 **Click [Box].**
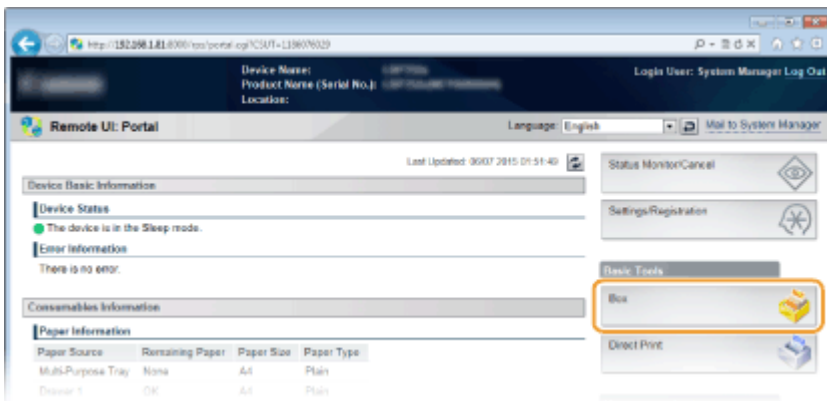
3 **Click the number of the box for which you want to specify the settings.**
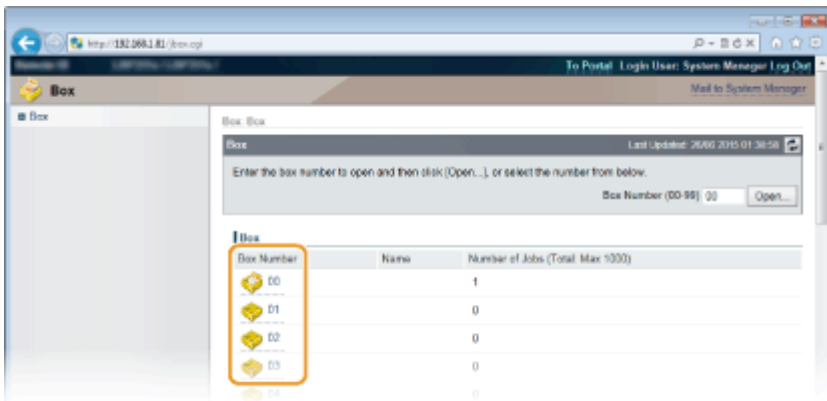
NOTE:

If the box is protected by a PIN

● When the screen shown below is displayed, enter the PIN and click [OK].

4 **[Settings].**
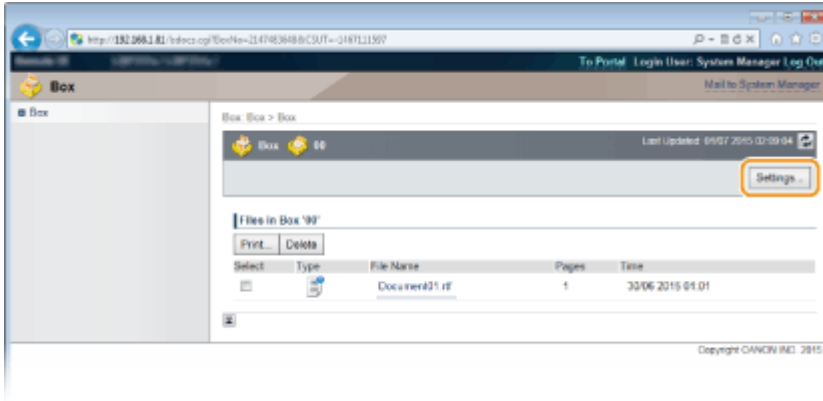
5 Set a name and PIN.
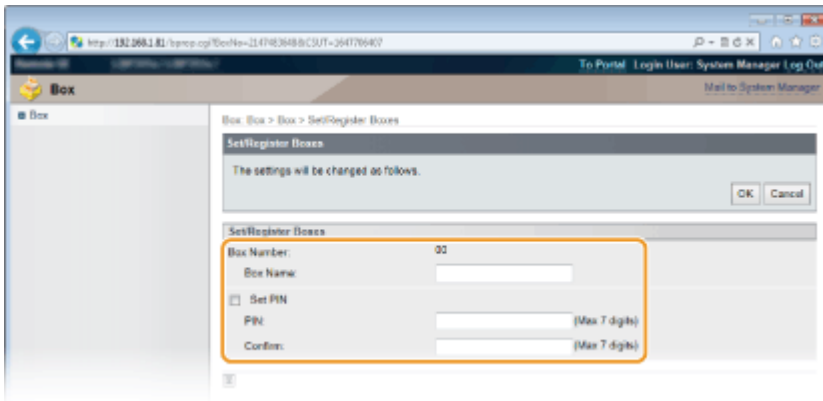
[Box Name]
To specify the box name, you can enter up to 96 characters depending on the character type.

[Set PIN]
To set a PIN, select the [Set PIN] check box and enter a number of up to seven digits for the PIN in the [PIN] text box. For confirmation, enter the same number in the [Confirm] text box.

NOTE:

● You cannot use "0" as the first digit of the PIN. A number with "0" removed from the first digit will be set as the PIN.

6 Click [OK].
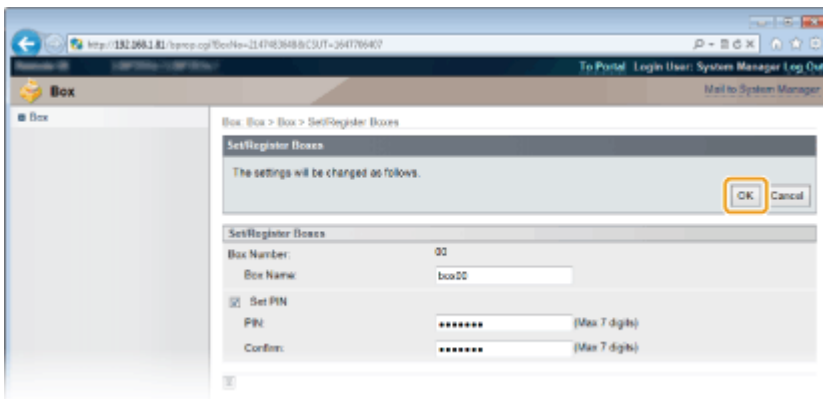
Printing without Opening a File (Direct Print)

0YS1-02H

You can print a file from a Web browser (Remote UI) without opening the file. In addition, you can also print a PDF file on the Web by only specifying the URL.

Available File Formats

You can print the following types of files by Direct Print. However, Direct Print may be unavailable depending on the file structure.

- PDF file [*1]
- PS file
- EPS file
- JPEG file
- TIFF file
- XPS file

[*1] Version 1.7 is supported.

> **IMPORTANT**
>
> You cannot print any image file exceeding the following data size.
>
> - PDF/XPS files (with SD card installed)   : 2 GB
>
>   (without SD card installed) : 20 MB
>
> - PS/EPS/JPEG/TIFF files [*2]   : 2 GB
>
> [*2] Even TIFF files not exceeding the upper limit of size may not be printed depending on the file structure. In this case, set <TIFF Spooler> to <On> and try printing again. **TIFF Spooler(P. 449)**

1 **Start the Remote UI and log on.** **Starting Remote UI(P. 336)**

2 **Click [Direct Print].**
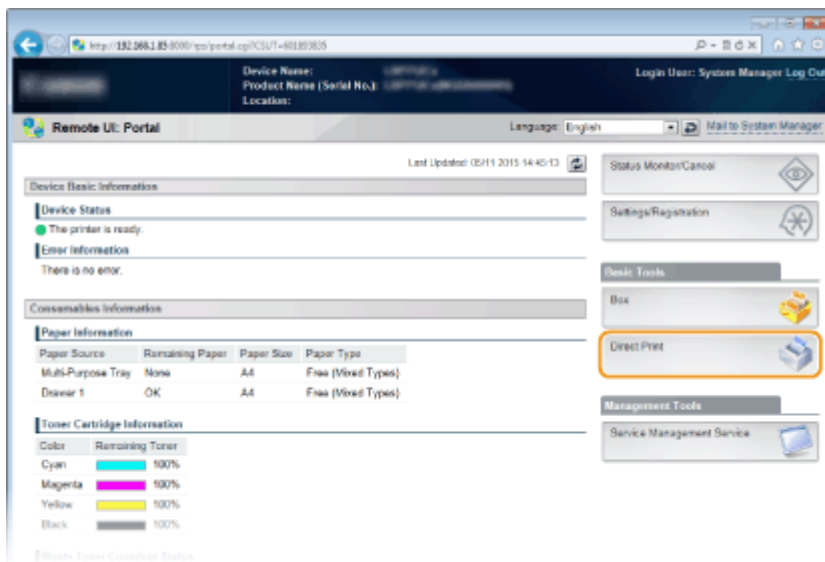
3 Click the type of the file to print.
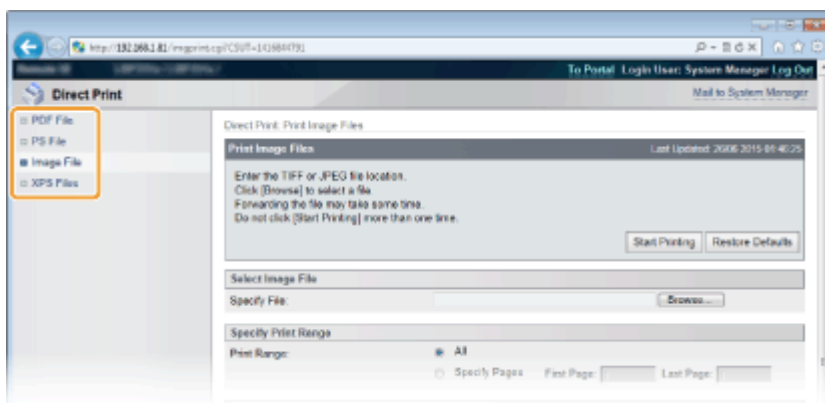
[PDF File]
Click to print a PDF file.

[PS File]
Click to print a PS or EPS file.

[Image File]
Click to print a JPEG or TIFF file.

[XPS Files]
Click to print an XPS file.

4 Click [Browse].

- When the dialog box for selecting the file appears, select the file to print and click [Open].
- When you print a PDF file, select [File Path].
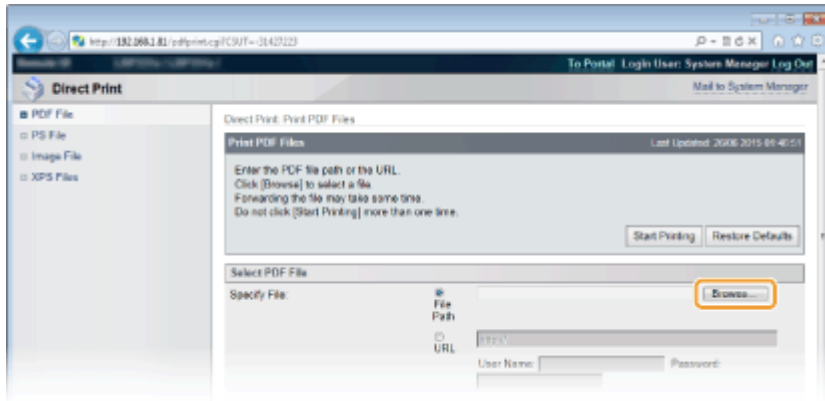
NOTE:

When you print a PDF file on the Web

● Select [URL], and enter the URL of the PDF file. If the user authentication is performed, enter the user name and password.

When the PDF file is password-protected

● Enter the password in [Document Password].

When you print a PDF file linked to a policy server

● Specify the [Policy Server User Name] and [Policy Server Password] settings.

5 **Specify the print settings as necessary. ●Print Settings for Direct Print(P. 149)**

6 **Click [Start Printing].**
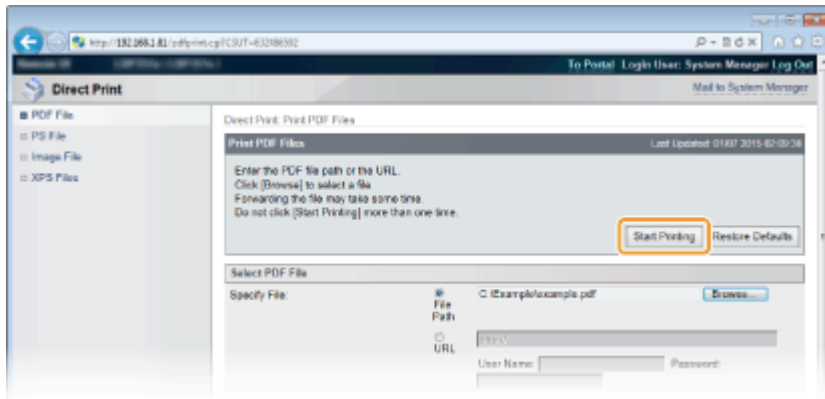
➡ The screen shown below is displayed and printing starts.
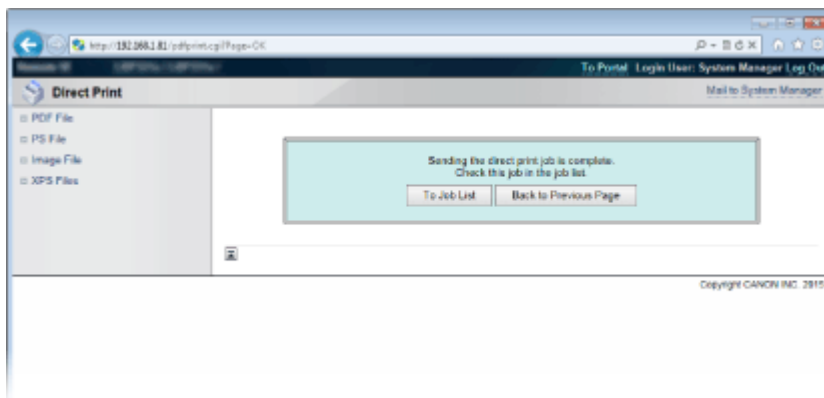
● If you click [To Job List], the [Job Status] page is displayed to show the print status. ●**Checking Current Status of Print Documents(P. 345)**

IMPORTANT:

- It may take some time until printing starts.

LINKS

⊙Using Remote UI(P. 335)

Print Settings for Direct Print

0YS1-02J

When you want to change the settings for Direct Print according to the document to print, specify the following settings.
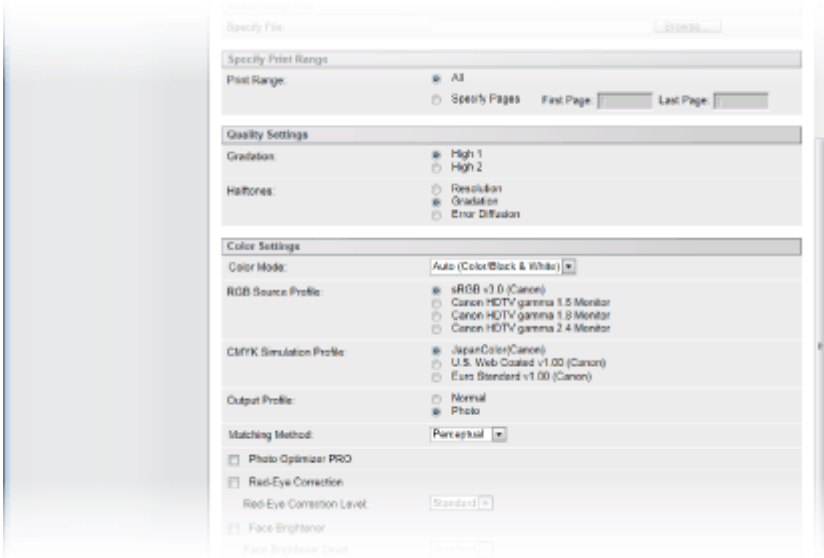
IMPORTANT

When you specify the print settings for XPS files

- Clear the [Prioritize Print Ticket] check box. If the check box is selected, some items are unavailable.
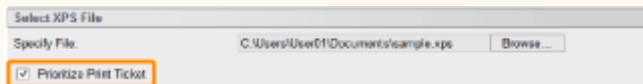
NOTE

Icons* in the description

PDF	Settings for printing PDF files
PS	Settings for printing PS/EPS files
JPEG	Settings for printing JPEG files
TIFF	Settings for printing TIFF files
XPS	Settings for printing XPS files

* Icons are omitted for the settings that are displayed regardless of the file format.

[Specify Print Range]
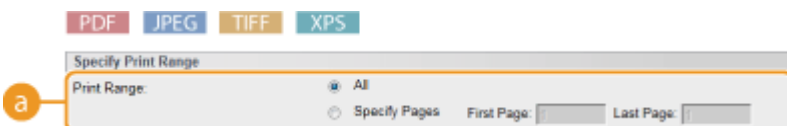
PDF   JPEG   TIFF   XPS

ⓐ [Print Range] `PDF` `JPEG` `TIFF` `XPS`

Specify the range (pages) to print.

[All]	Select to print all pages.
[Specify Pages]	Select to specify the print range. This setting is unavailable for JPEG files.

[Quality Settings]
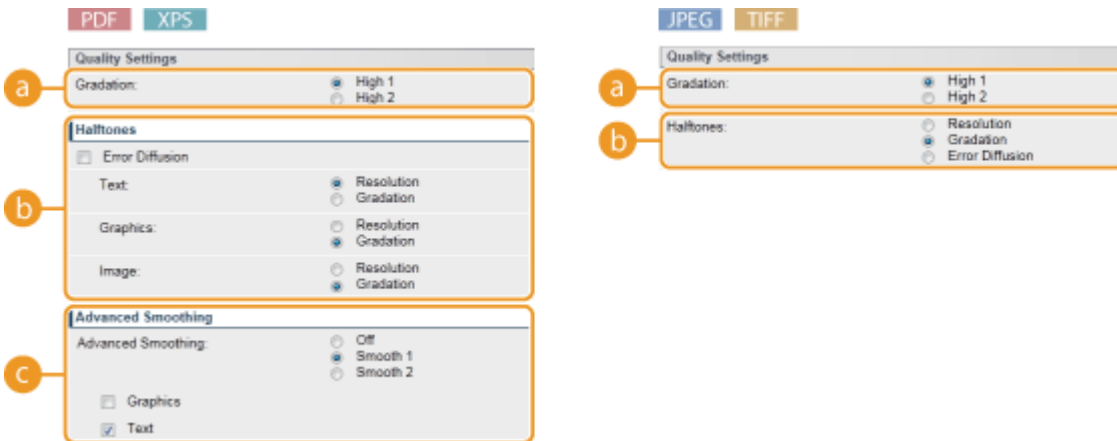
ⓐ [Gradation] `PDF` `JPEG` `TIFF` `XPS`

Set the gradation for print data processing.

[High 1]	This print mode is suitable for printing photos or the like at average quality.
[High 2]	Specify this setting to print photos or the like at high quality.

ⓑ [Halftones] `PDF` `JPEG` `TIFF` `XPS`

You can select the printing method to reproduce halftones (the intermediate range between the lighter and darker areas of an image). For PDF files and XPS files, you can set [Resolution] or [Gradation] for each of image types contained in one document: [Text], [Graphics], and [Image].

[Error Diffusion] `PDF` `XPS`	With this check box selected, you can perform finer printing than with [Resolution]. This print mode is suitable for sharply printing edges of fine granularity data such as characters or thin lines. This is applied to all image data types, so you cannot select [Resolution] or [Gradation].
[Resolution]	Prints text with clear edges to produce a fine print. This is suitable for printing text and thin lines.
[Gradation]	Prints gradations and outlines with a smooth finish. This is suitable for printing figures and graphs that use gradations.
[Error Diffusion] `JPEG` `TIFF`	You can perform finer printing than with [Resolution]. This print mode is suitable for sharply printing edges of fine granularity data such as characters or thin lines.

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C **[Advanced Smoothing]** PDF XPS

Make settings for the smoothing mode that enables edges of lines, figures and text to be printed smoothly.

[Off]	Does not perform smoothing.
[Smooth 1]	Smoothly prints edges of lines, figures, and text.
[Smooth 2]	Edges will be smoother than with [Smooth 1].
[Graphics]	With this check box selected, the smoothing mode is applied to lines and figures when [Smooth 1] or [Smooth 2] is specified.
[Text]	With this check box selected, the smoothing mode is applied to text when [Smooth 1] or [Smooth 2] is specified.

[Color Settings]
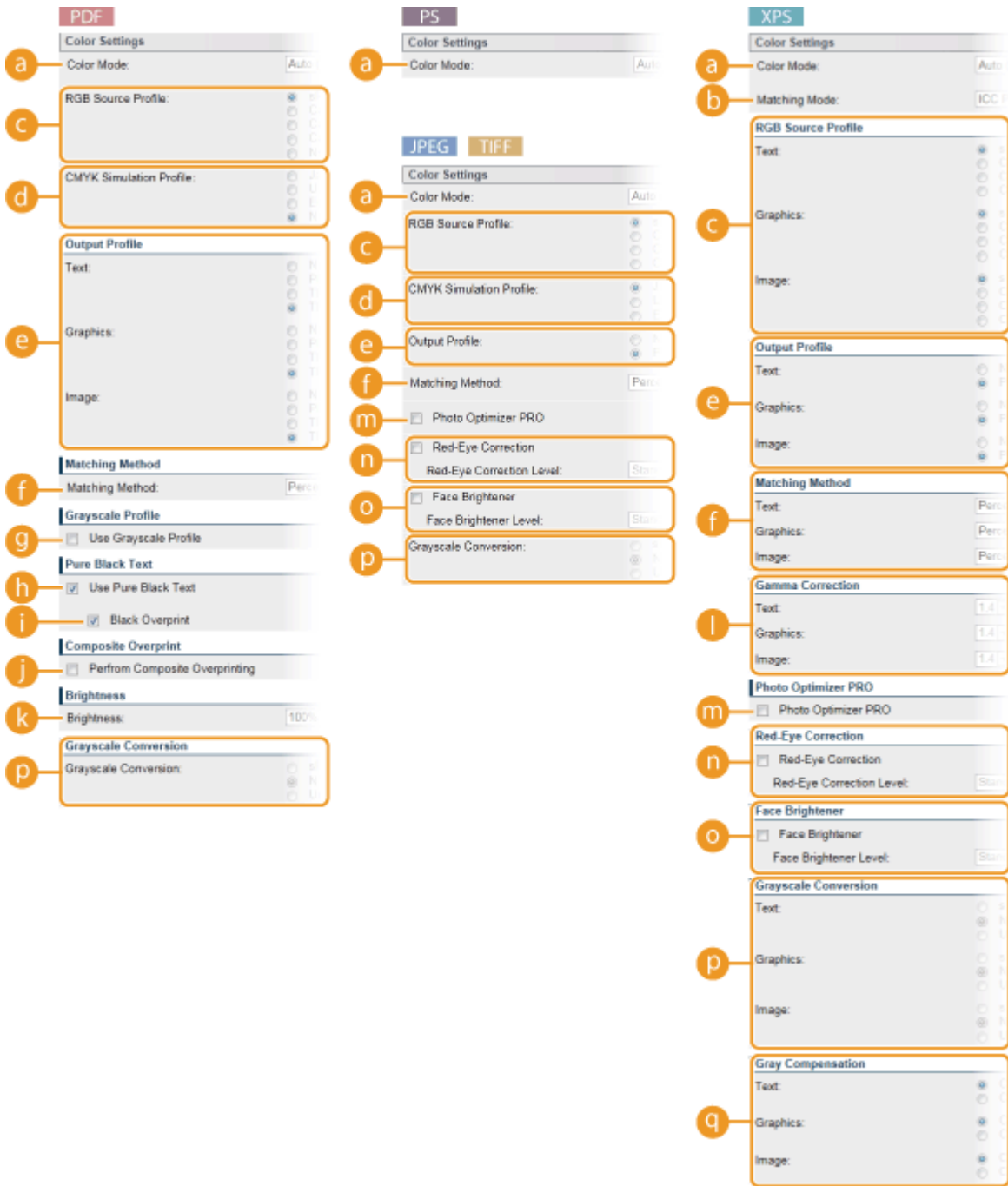
ⓐ [Color Mode]

Specify whether to print in color or black and white.

[Auto (Color/Black & White)]	Automatically select color or black and white printing depending on the type of document.
[Black & White]	Print in black and white even when the document is in color.
[Color] PDF XPS	Print in color.

b [Matching Mode] `XPS`

Select the processing mode for color printing.

[ICC Profile]	Use a profile for color matching.
[Gamma]	Perform color correction by setting a gamma value for brightness adjustment.

c [RGB Source Profile] `PDF` `JPEG` `TIFF` `XPS`

Select a suitable profile for RGB data that matches the monitor that you are using. For XPS files, you can set this item for each of image types contained in one document: [Text], [Graphics], and [Image].

[sRGB v3.0 (Canon)]	An RGB profile is used that is similar to an average profile of most Windows PC monitors. When using a monitor that supports sRGB, you can print colors close to the colors displayed on the monitor.
[Canon HDTV gamma 1.5 to 2.4 Monitor]	When you want a brightness adjustment after making comparison between the printed colors and the colors displayed on the monitor, make a necessary setting here. The higher the value, the darker the printed colors.
[None] `PDF`	Performs color separation from RGB data to CMYK without applying any RGB source profile.

NOTE:

- For XPS files, this item is available when [Matching Mode] is set to [ICC Profile].

d [CMYK Simulation Profile] `PDF` `JPEG` `TIFF`

You can select a simulation target when printing CMYK data. The machine converts CMYK data to a device-dependent CMYK color model in accordance with the selected simulation target.

[JapanColor(Canon)]	Use the JapanColor profile. Printing is performed in colors that are close to the Japanese printing standards.
[U.S. Web Coated v1.00 (Canon)]	Use the U.S. Web Coated profile. Printing is performed in colors that are close to the U.S. printing standards.
[Euro Standard v1.00 (Canon)]	Use the Euro Standard profile. Printing is performed in colors that are close to the European printing standards.
[None] `PDF`	Prints CMYK data using a device-dependent CMYK color model without applying any CMYK simulation profile.

NOTE:

- When this item is set to [None], dark color gradation may collapse depending on the data.

e [Output Profile] `PDF` `JPEG` `TIFF` `XPS`

You can select suitable profiles for data that you are going to print. For PDF files and XPS files, you can set this item for each of image types contained in one document: [Text], [Graphics], and [Image].

[Normal]	Color matching is performed so that data is printed in colors close to the colors displayed on the monitor.
[Photo]	Color matching is performed so that the print result is similar to photography.

[TR Normal] PDF	Color matching is performed so that data is printed in colors close to the colors displayed on the monitor and that bleeding of toner into text and fine lines is well controlled.
[TR Photo] PDF	Color matching is performed so that the print result is similar to photography and that bleeding of toner into text and fine lines is well controlled.

NOTE:

- For XPS files, this item is available when [Matching Mode] is set to [ICC Profile].

[Matching Method] PDF JPEG TIFF XPS

Specify which element to be given priority over others in color matching by [RGB Source Profile]. For XPS files, you can set this item for each of image types contained in one document: [Text], [Graphics], and [Image].

[Perceptual]	Matching is performed with priority given to perceptual.
[Saturation]	Matching is performed with priority given to saturation.
[Colorimetric]	Matching is performed so that color difference between originals and printouts is minimized.

[Use Grayscale Profile] PDF

With this check box selected, gray data is converted to CMYK data according to the machine's grayscale profile.

NOTE:

- Printing may be performed only with K (black) toner depending on the setting of [Output Profile] or [Use Pure Black Text].

[Use Pure Black Text] PDF

With this check box selected, black text is printed with K (black) toner only. Unlike printing with color (CMY) toner, color toner slurring around the edges will not occur. It is recommended that normally you use this setting.

[Black Overprint] PDF

Set how to print when black text is overlapped on a color background or color figure with [Use Pure Black Text] selected. With this check box selected, first only the color background or figure is printed and then the black text is printed onto the background or figure with black (K) toner alone. With this check box deselected, first the data is printed after the black text is cut out from the color background or figure, leaving the corresponding white blank, and then the black text is printed on the white blank.

NOTE:

- With this check box deselected, the print may be fainter or the edges of the text may be rimmed with white.

[Perfrom Composite Overprinting] PDF

With this check box selected, CMYK data for which overprint is set will be overprinted as composite data.

NOTE:

- When [CMYK Simulation Profile] is set to other than [None], overprint is not performed even if this check box is selected.

[Brightness] `PDF`

You can adjust the brightness of the whole image in steps of 5%. The smaller the value, the brighter the image.

[Gamma Correction] `XPS`

Brightness adjustment can be performed so that the brightness of the brightest and darkest parts of the original is not affected in the print result. [1.4] is the standard setting (no correction), and the larger the setting value, the darker the print will be. You can set this item for each of image types contained in one document: [Text], [Graphics], and [Image].

NOTE:

- This item is available when [Matching Mode] is set to [Gamma].

[Photo Optimizer PRO] `JPEG` `TIFF` `XPS`

With this check box selected, printing is performed by automatically correcting image contrast, color balance, saturation, and gradation.

[Red-Eye Correction] `JPEG` `TIFF` `XPS`

"Red-eye" is a phenomenon that causes the eyes of human subjects of flash/strobe photography to appear unnaturally reddish in color. Set whether to automatically detect red-eye in the image and correct the portions in question so that they appear in natural color. Select the check box, and select the correction level under [Red-Eye Correction Level].

[Face Brightener] `JPEG` `TIFF` `XPS`

For a photograph image in which the faces of human subjects are unnaturally dark due to backlight or underexposure, set whether to print the image by correcting its entire brightness so that the subjects' faces become naturally bright. Select the check box, and select the correction level under [Face Brightener Level].

[Grayscale Conversion] `PDF` `JPEG` `TIFF` `XPS`

You can select the method to convert color pint data to black-and-white data. For XPS files, you can specify the conversion method for each image data type: [Text], [Graphics], and [Image].

[sRGB]	Color data is converted to black-and-white data to generate color-conscious smooth gradation.
[NTSC]	Color data is converted to black-and-white data to generate appearances equivalent to television pictures (NTSC).
[Uniform RGB]	Color data is converted to black-and-white data to equalize all RGB levels based on the brightness only.

NOTE:

- This item is available when [Color Mode] is set to [Black & White].

[Gray Compensation] `XPS`

For black or gray data with color information defining R=G=B, select whether to print with black (K) toner only. You can set this item for each of image types contained in one document: [Text], [Graphics], and [Image].

NOTE:

- When you set this item to [Off], printing is performed with the four CMYK color toners.

[Print Settings]
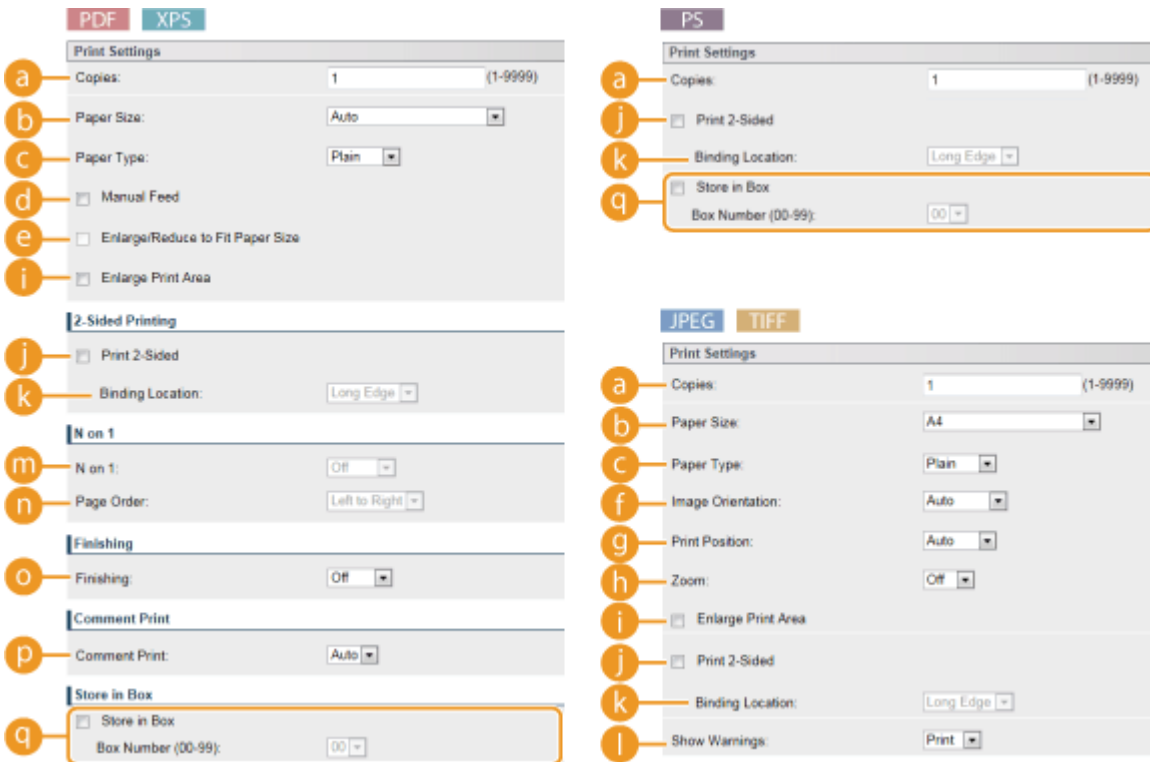
ⓐ [Copies]

Specify the number of copies.

ⓑ [Paper Size] PDF JPEG TIFF XPS

Specify the size of the paper to print on.

NOTE:

- When you want to print a PDF file or XPS file, specify [Auto] to automatically select the optimum paper size. If no optimum size is found, the paper size set in <Standard Paper Size> is selected (**❯Standard Paper Size(P. 503)**).

ⓒ [Paper Type] PDF JPEG TIFF XPS

Specify the type of the paper to print on.

ⓓ [Manual Feed] PDF XPS

If you select the check box, a document is printed only on the paper loaded in the multi-purpose tray.

ⓔ [Enlarge/Reduce to Fit Paper Size] PDF XPS

If you select the check box, printouts are enlarged or reduced printouts according to the **❯Printable Area(P. 624)** of the paper. The printouts are enlarged or reduced with the original aspect ratio kept.

NOTE:

- If [Paper Size] is set to [Auto], this item is unavailable.

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[Image Orientation] `JPEG` `TIFF`

Specify the print orientation of an image.

[Auto]	Automatically determines the print orientation based on the width and height of the image.
[Vertical]	Select when printing a vertically-long image.
[Horizontal]	Select when printing a horizontally-long image.

NOTE:

- If the specified setting of [Vertical] or [Horizontal] does not match the orientation of the image, the reduced image is printed.

[Print Position] `JPEG` `TIFF`

Specify the position to print the image.

[Auto]	If the TIFF data contains the information that specifies the print position, the image is printed according to the information, otherwise, it is printed at the center of paper. JPEG data is always printed at the center of paper.
[Center]	Images are printed at the center of paper.
[Top Left]	Images are printed at the top left.

[Zoom] `JPEG` `TIFF`

Enable or disable enlarging/reducing images. The printouts are enlarged or reduced with the image aspect ratio kept.

[Off]	When the image is within the **Printable Area(P. 624)** of the paper, it is printed with the size as is. When an image is larger than the printable area, printouts are reduced.
[Auto]	Makes enlarged or reduced printouts according to the printable area of the paper.

[Enlarge Print Area] `PDF` `JPEG` `TIFF` `XPS`

If you select the check box, the image is printed by extending the **Printable Area(P. 624)** fully to the paper size. However, a part of the image may be missing near the edge of the paper or the paper may be partly tainted depending on the original.

[Print 2-Sided]

Select the check box to print on both sides of the paper.

[Binding Location]

Select whether to bind the long edge or short edge of the printouts with a binding tool such as a stapler. Printing orientation will be changed depending on the specified binding position. You can also specify the binding margin (**Gutter(P. 401)**).

[Long Edge]	Binds the printouts on the long edge.

[Short Edge]	Binds the printouts on the short edge.
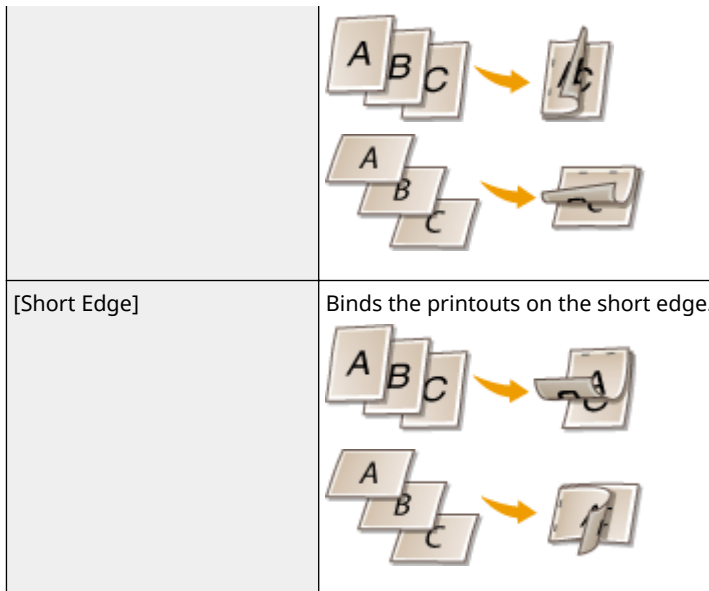
ⓘ [Show Warnings] JPEG TIFF

You can specify how the machine should behave if an error occurs.

[Print]	Error information is printed and no image is printed.
[Panel]	No image is printed and an error message is displayed on the operation panel.
[Off]	No image is printed and no error is displayed.

ⓜ [N on 1] PDF XPS

Specify whether or not to print multiple pages onto a single sheet by sequentially allocating them. For example, to print four pages onto a single sheet, select [4 on 1].

NOTE:

- If [Paper Size] is set to [Auto], this item is unavailable.

ⓝ [Page Order] PDF XPS

Select a page distribution layout.
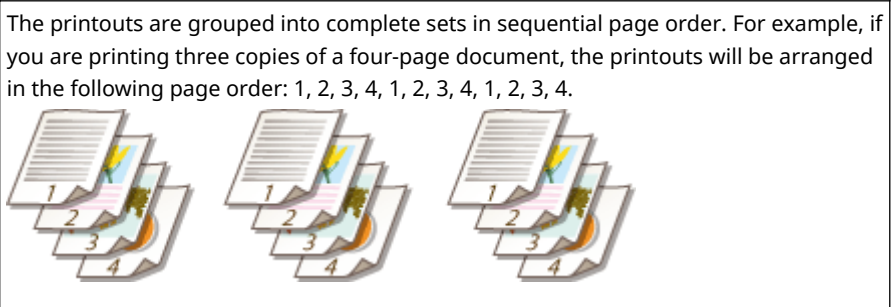
ⓞ [Finishing] PDF XPS

Specify the method to collate the printouts when printing multiple-page documents. This item is displayed when the SD card is installed.

[Off]	The printouts are not collated. The specified number of copies are printed for each page. For example, if you are printing three copies of a four-page document, the printouts will be arranged in the following page order: 1, 1, 1, 2, 2, 2, 3, 3, 3, 4, 4, 4.

[Collate]	The printouts are grouped into complete sets in sequential page order. For example, if you are printing three copies of a four-page document, the printouts will be arranged in the following page order: 1, 2, 3, 4, 1, 2, 3, 4, 1, 2, 3, 4.

[Comment Print] `PDF`

Select whether to print comments.

[Auto]	Prints comments in the PDF file.
[Off]	Prints no comments.

[Store in Box] `PDF` `PS` `XPS`

You can store a document in the SD card installed on the machine without making printouts. Select the check box to store the document in a box specified in [Box Number (00-99)]. You can print the documents in the box from the operation panel as many times as you want. For how to print a document, see ●**Printing a Document Stored in the Machine(P. 138)** . This item is displayed when the SD card is installed.

LINKS

●**Printing without Opening a File (Direct Print)(P. 145)**

Printing Received E-mail (E-Mail Print)

0YS1-02K

E-Mail Print allows you to print the message and attached JPEG or TIFF image files of an e-mail received from the POP3 mail server without using a computer. E-mails can be manually received as well as being automatically received at regular intervals. When the SMTP protocol is used, e-mails directly sent to the machine via no mail server are printed.
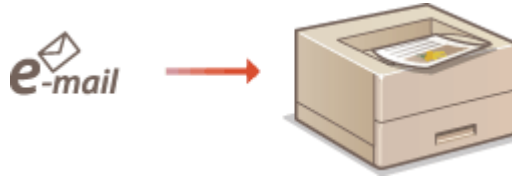
◉**Configuring E-Mail Print Settings(P. 161)**
◉**Manually Receiving E-Mails(P. 165)**

NOTE

- When you set <TIFF Spooler> in the Setup menu to <On>, the received data is temporarily stored in the machine or SD card before printed. This reduces the occurrence of errors. ◉**TIFF Spooler(P. 449)**

Outline of E-Mail Print

General

- An e-mail message is printed with e-mail header information.
- An HTML e-mail message is printed as a plain text.
- If a line (without line feed) in an e-mail message contains more than 1,000 characters, excessive characters are placed on a new line and may not be correctly printed.

When <TIFF Spooler> is set to <On>

- If the e-mail message size exceeds 25 MB or the e-mail size exceeds 1.5 GB, the e-mail message is not printed.
- If the e-mail header data exceeds 20 KB, the excessive data is not printed.
- If no SD card is installed, TIFF files exceeding 40 MB in size may not be printed.
- If the SD card has no sufficient free space, E-Mail Print is not available.

IMPORTANT

- When the toner cartridge is nearly empty, no e-mails can be received.

NOTE

Supported e-mail encoding formats

- 7bit
- uuencode
- base64
- 8bit
- x-uuencode
- quoted-printable
- binary

Supported e-mail character sets

- us-ascii
- iso-8859-1
- iso-8859-15

(If any character set is not specified, "us-ascii" is applied.)

Printable Formats of Attached Image Files

The E-Mail Print function supports the following types of image files.

- JPEG file
- TIFF file

NOTE

- Some files are unavailable depending on the file structure.
- You can print up to three attached files for each e-mail. (Excessive attached files are not printed.)
- If the SD card is installed, the printable file size is 100 MB or less per file.

Configuring E-Mail Print Settings

This section describes how to specify the settings for receiving and printing e-mails on this machine. Use a computer to specify the settings for receiving e-mails and the operation panel of the machine to specify the settings for printing e-mails.

From a Computer

1 **Start the Remote UI and log on in Management Mode.** ●**Starting Remote UI(P. 336)**

2 **Click [Settings/Registration].**
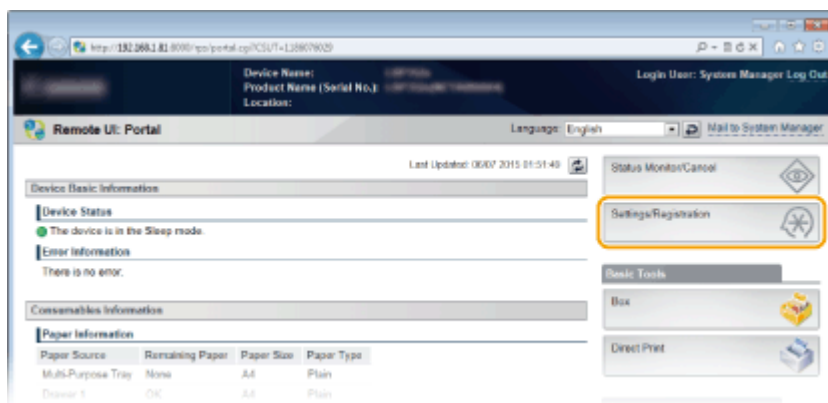
3 **Click [Network] ▶ [E-Mail Print Settings].**
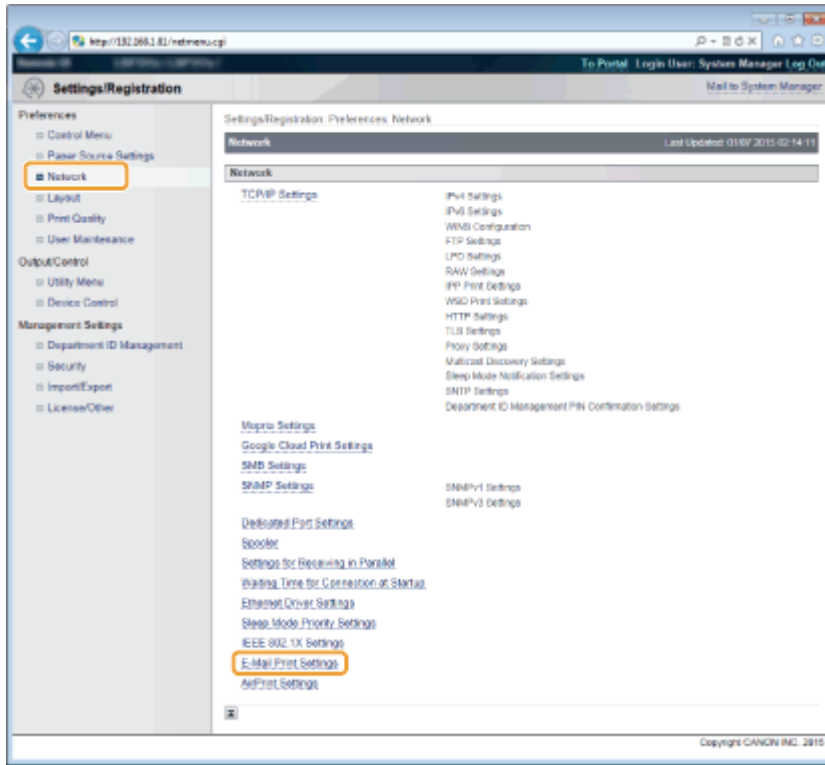
4 Click [Edit].
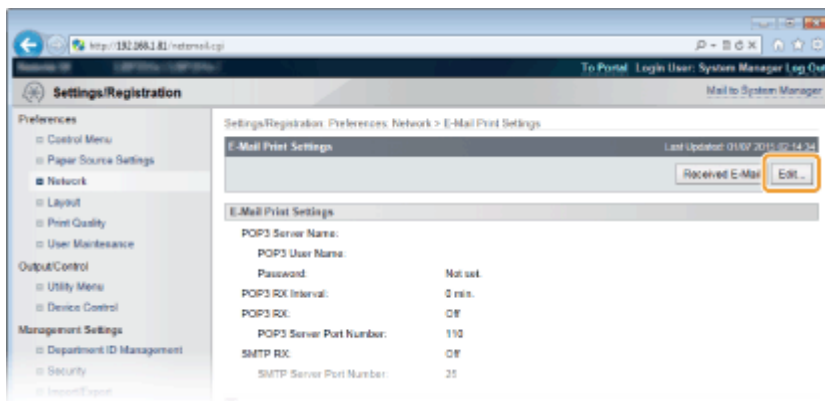
5 Specify the settings for E-Mail Print.

■ When performing E-Mail Print from POP3 mail server

When the e-mail receiving starts, all e-mails stored in the mailbox of the mail server are printed. If you send e-mails that you want to print to the machine in advance, you can automatically print the e-mails at regular time intervals or print all stored e-mails in an arbitrary timing.
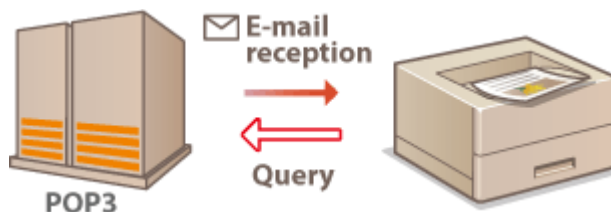
IMPORTANT:

- We recommend using the mail address exclusively for E-Mail Print because all e-mails received into the machine are deleted from the mail server.

Conditions of use for POP3 protocol

- The POP3 mail server must support the UIDL command. For details, contact your network administrator or server administrator.

POP3 Server Name:		
POP3 User Name:		
☐ Set/Change Password		
Password:		(Max 32 characters)
Confirm:		(Max 32 characters)
POP3 RX Interval:	0	minutes (0-90)
☐ POP3 RX		
POP3 Server Port Number:	110	(0-65535)

[POP3 Server Name]
Enter the mail server name or IP address for receiving e-mails.

[POP3 User Name]
Enter up to 32 alphanumeric characters for the user name used to connect to the mail server.

[Set/Change Password]
To set the password for connecting to the mail server, select the check box and enter up to 32 alphanumeric characters for the password in the [Password] text box. For confirmation, enter the same password in the [Confirm] text box.

[POP3 RX Interval]
Specify the interval for automatically connecting to the mail server in minutes. New e-mails in the mailbox of the mail server are automatically received and printed at the specified time intervals. You can also specify this setting by using <POP3 RX Interval> in the setting menu of the operation panel (**POP3 RX Interval(P. 397)**).

NOTE:

Preventing E-mails from Being Automatically Received

- Set [POP3 RX Interval] to [0]. If you set [0], you must manually receive e-mails. **Manually Receiving E-Mails(P. 165)**

[POP3 RX]
Select the check box to enable E-Mail Print from the POP3 mail server. You can also specify this setting by using <POP3 RX> in the setting menu of the operation panel (**POP3 RX(P. 397)**).

[POP3 Server Port Number]
Specify the port number of the mail server that receives e-mails.

■**When performing E-Mail Print by using SMTP protocol**

If e-mails are sent to the machine via SMTP, the machine prints the e-mails immediately after receiving them. Enable this function when you want to forward fax documents from Canon multifunction printers to this machine and print them on the machine (**To forward fax documents from Canon multifunction printers(P. 165)**).

| ☐ SMTP RX		
SMTP Server Port Number:	25	* Changes effective after the main power is turned OFF and ON.

[SMTP RX]
Select the check box to enable E-Mail Print by using the SMTP protocol. You can also specify this setting by using <SMTP RX> in the setting menu of the operation panel (**SMTP RX(P. 398)**).
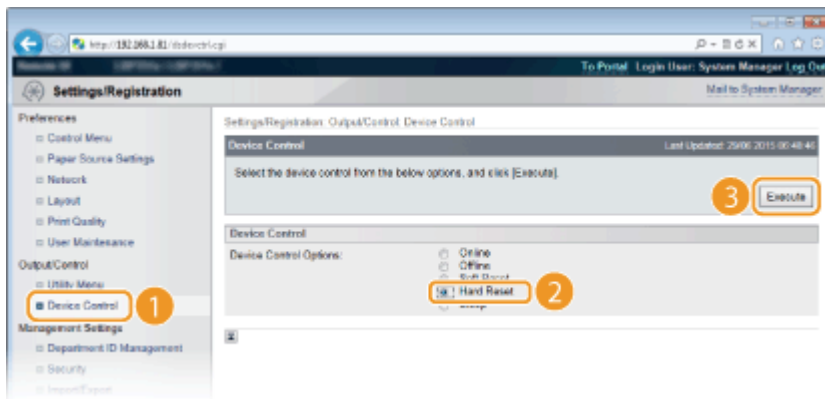
[SMTP Server Port Number]
Specify the port number of the SMTP server for receiving e-mails.

6 Click [OK].
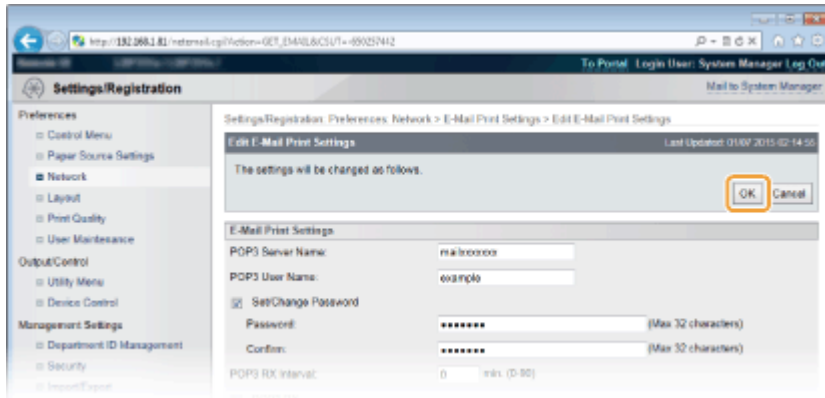
7 Perform a hard reset.

- Click [Device Control], select [Hard Reset], and then click [Execute].

➥ The settings are enabled after the hard reset is performed.

From the Operation Panel

8 Specify other settings for E-Mail Print as necessary.

■ **Specify whether or not to print the e-mail message.**

Print E-Mail Text(P. 450)

■ **You can limit the number of pages to print the e-mail message.**

Limit E-Mail Print(P. 450)

■ **You can specify the settings for printing attached image files.**

Image Orientation(P. 447)
Zoom(P. 448)

○**Print Position(P. 448)**
○**TIFF Spooler(P. 449)**
○**Show Warnings(P. 450)**
○**Enlarge Print Area(P. 451)**
○**RGB Source Profile(P. 451)**
○**CMYK Sim. Profile(P. 452)**
○**Output Profile(P. 452)**
○**Matching Method(P. 453)**
○**Halftones(P. 453)**
○**Photo Corr (CL Only)(P. 454)**
○**Grayscale Conversion(P. 456)**

■**Specify whether or not to display an E-Mail Print error.**
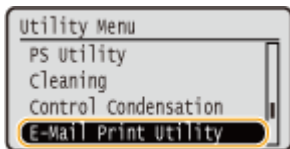
○**Show Warnings(P. 369)**

Manually Receiving E-Mails

If e-mail printing from the POP3 mail server is enabled, you can manually receive and print e-mails as well. When you want to connect to the mail server before automatically receiving e-mails or the machine is configured to prevent e-mails from being automatically received, follow the procedure below to manually receive the e-mails.
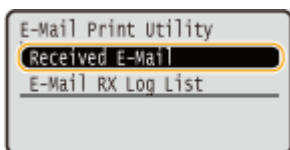
1 Press ◀ (Utility).

- When the machine is offline, it does not operate even if ◀ (Utility) is pressed. Set the machine to Online. ○ **[Online] key(P. 25)**
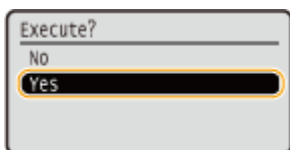
2 Use ▲ / ▼ to select <E-Mail Print Utility>, and press ◻.

```
Utility Menu
 PS Utility
 Cleaning
 Control Condensation
 E-Mail Print Utility
```

3 Select <Received E-Mail>, and press ◻.

```
E-Mail Print Utility
 Received E-Mail
 E-Mail RX Log List
```

4 Select <Yes>, and press ◻.

```
Execute?
 No
 Yes
```

➠ The machine is connected to the mail server. E-Mail Print is started for new e-mails in the mailbox of the mail server if any.

To forward fax documents from Canon multifunction printers

Enable SMTP RX on this machine, and then specify the IP address of the machine as the Internet Fax (I Fax) Address on the source multifunction printer. Forwarded fax documents are printed immediately when received.

- Attached files can only be printed if they are in TIFF format. Only one TIFF file can be printed for each fax document.

- When the toner cartridge is nearly empty, no fax documents can be received. The fax documents that could not be received on this machine are printed on the source multifunction printer.

- When the optional SD card is installed on the machine, the maximum size of a printable TIFF file is limited to 100 MB.

LINKS

Checking History of Documents(P. 346)
E-Mail RX Log List(P. 590)

Can Be Used Conveniently with a Mobile Device

Can Be Used Conveniently with a Mobile Device

0YS1-02L

Combining the machine with a mobile device such as a smartphone or tablet enables you to use an appropriate application to perform printing with ease. You can also use a mobile device to operate the machine remotely, check the printing status, and change machine's settings.

◉**Connecting to a Mobile Device(P. 169)**
◉**Making the Best Use of the Machine by Utilizing Applications(P. 170)**
◉**Managing the Machine Remotely(P. 183)**

Connecting to a Mobile Device

0YS1-02R

Connect a mobile device and the machine via a wireless LAN router. For how to set and operate your wireless LAN router and mobile devices, see the instruction manuals for the devices or contact your manufacturers.

NOTE

- The machine does not come with a wireless LAN router. Have one ready as necessary.

Making the Best Use of the Machine by Utilizing Applications

0YS1-02S

You can use an appropriate application that enables you to print by operating the machine from your mobile device. The machine supports a dedicated application from Canon and various other applications. You can select the most appropriate application to your mobile device, the purpose, the situation, and so on.

■ Printing via Canon PRINT Business

You can print from mobile devices that support iOS/Android. When printing, it is not necessary to perform operations on the machine. For more information on supported operating systems, detailed setting methods, and operating procedures, see the application's help or the Canon website (**http://www.canon.com/**).

■ Printing with Canon Print Service

You can easily print from the menu of applications that support the Android print subsystem. For more information on supported operating systems and detailed settings and procedures, see the Canon website (**http://www.canon.com/**).

■ Using Google Cloud Print

You can print from an application or service that supports Google Cloud Print. You can print by remotely operating the machine at any time and from anywhere, for example even while you are on the go. **Using Google Cloud Print(P. 179)**

■ Printing with Mopria™

This machine also supports Mopria™. Using Mopria™ allows you to print with printers of different models from different manufacturers by using common operations and common settings. For example, assume that Mopria™ compatible printers of different models from different manufacturers are installed in your office, at your place, or at places you are visiting. You can then print with any of those printers by using Mopria™ without the need to install the respective dedicated applications on them. For details about the models supporting Mopria™ and the system requirements, see **http://www.mopria.org** .

Viewing Mopria™ Settings

Log on to the Remote UI in Management Mode (**⊙Starting Remote UI(P. 336)**) ▶ [Settings/ Registration] ▶ [Network] ▶ [Mopria Settings] ▶ [Edit] ▶ Check that the [Use Mopria] check box is selected ▶ [OK]
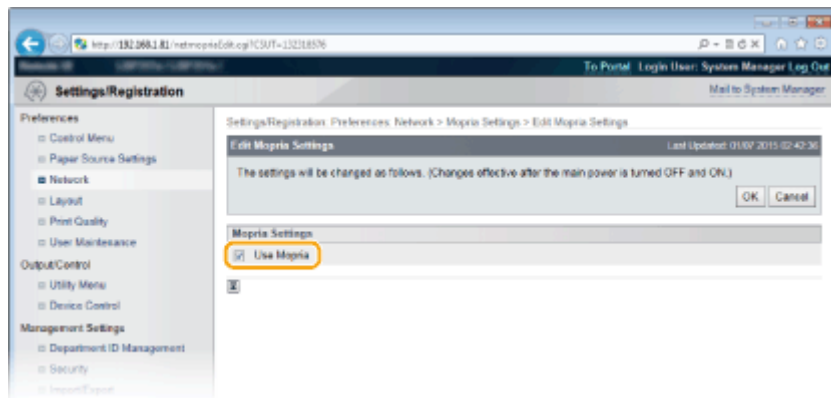
■Printing from Windows Phone (Windows 10 Mobile and Later)

You can perform printing from a Windows Phone without downloading a dedicated application or installing a driver. Make sure that the <WSD Print>, <WSD Browsing>, and <Multicast Discovery> settings in <WSD> are enabled. ⊙ **WSD(P. 385)**

Using AirPrint

0YS1-02U

You can print without using printer driver by sending print data from Apple devices.

AirPrint settings

❯**Configuring AirPrint Settings(P. 172)**
❯**Displaying the Screen for AirPrint(P. 174)**

Functions of the AirPrint

❯**Printing with AirPrint(P. 176)**

**Troubleshooting**

❯**If AirPrint Cannot Be Used(P. 178)**

Configuring AirPrint Settings

You can register information, including the name of the machine and installation location, that is used for identifying the machine. You can also disable the AirPrint function of the machine. Use the Remote UI to change these settings.
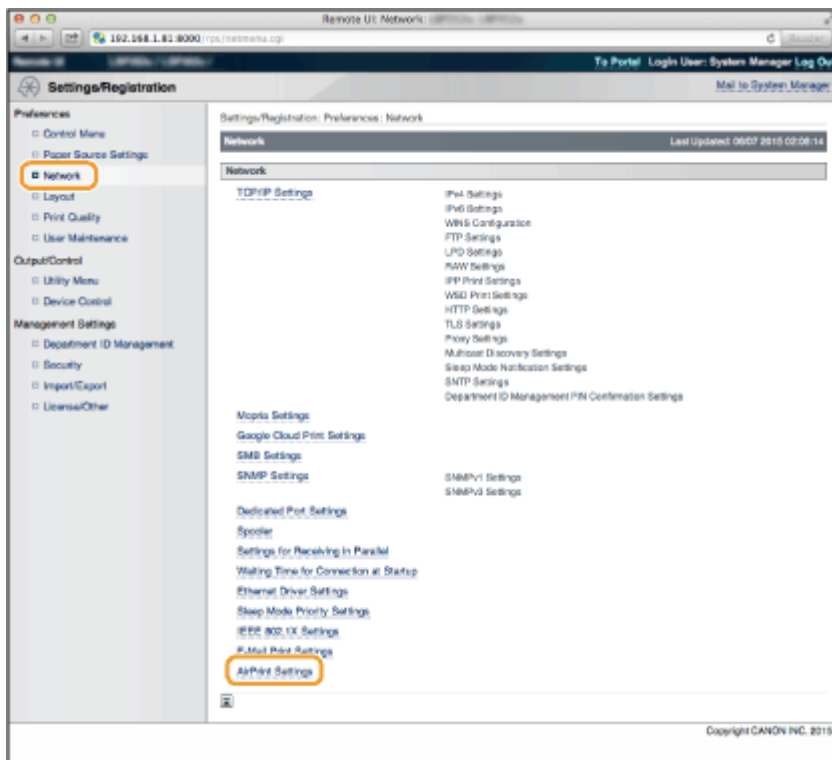
1 **Start the Remote UI and log on in Management Mode.** ❯**Starting Remote UI(P. 336)**

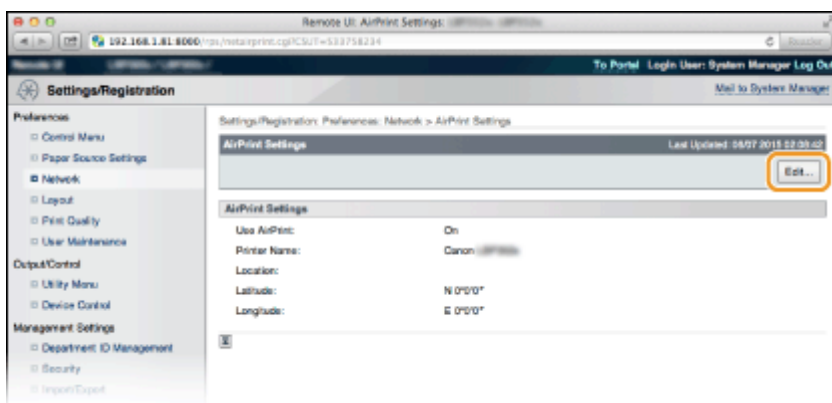**2** **Click [Settings/Registration].**

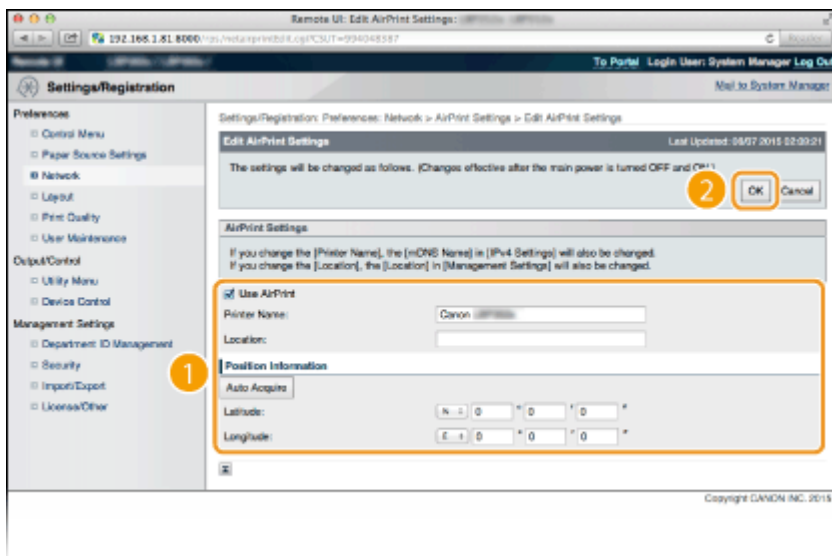● If you are using a mobile device, such as iPad, iPhone, or iPod touch, read "click" as "tap" in this section.
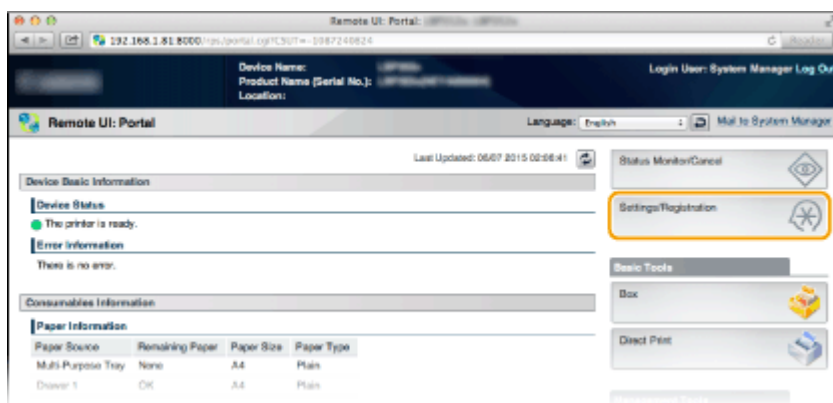
3 **Click [Network]** ▶ **[AirPrint Settings].**

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4 **Click [Edit].**

5 **Specify the required settings, and click [OK].**

[Use AirPrint]
Select the check box to enable AirPrint. To disable AirPrint, clear the check box.

[Printer Name]/[Location]/[Latitude]/[Longitude]
Enter the name and the installation location information to help you identify this machine when operating your Apple device. This information is useful if you have more than one AirPrint printer.

NOTE:

If you select the [Use AirPrint] check box

The following items are also set to <On> automatically.

- <mDNS Settings> in IPv4 and IPv6 ⊙**Configuring DNS(P. 223)**

- <HTTP> ⊙**Disabling HTTP Communication(P. 291)**

- <IPP Print> ⊙**Configuring Printing Protocols and WSD Functions(P. 200)**

If you change [Printer Name]

- If you change [Printer Name] that you have once specified, you may be unable to print any more from the Mac that has been able to be used for printing so far. This phenomenon occurs because <mDNS Name> (⊙**Configuring DNS(P. 223)**) of IPv4 is also changed automatically. In this case, add the machine to the Mac again.

NOTE

Using the operation panel

- You can also enable or disable AirPrint from the setting menu of the operation panel.

▶ (Settings) ▶ <Network> ▶ [ok] ▶ Check the message ▶ [ok] ▶ <AirPrint> ▶ [ok] ▶ <Off> or <On> ▶ [ok]

Displaying the Screen for AirPrint

You can display the screen for AirPrint, on which you can not only access the AirPrint Settings but also view information about consumables, such as paper and toner cartridge. Further, you can configure security function settings (⊙**Using TLS for Encrypted Communications(P. 297)**).

1 **Click [System Preferences] in the Dock on the desktop ▶ [Printers & Scanners].**

2 **Select your printer and click [Options & Supplies].**

3 **Click [Show Printer Webpage].**

4 **Log on to the Remote UI.**

- To change AirPrint settings, log on in Management Mode.

➠ The page dedicated for AirPrint is displayed.

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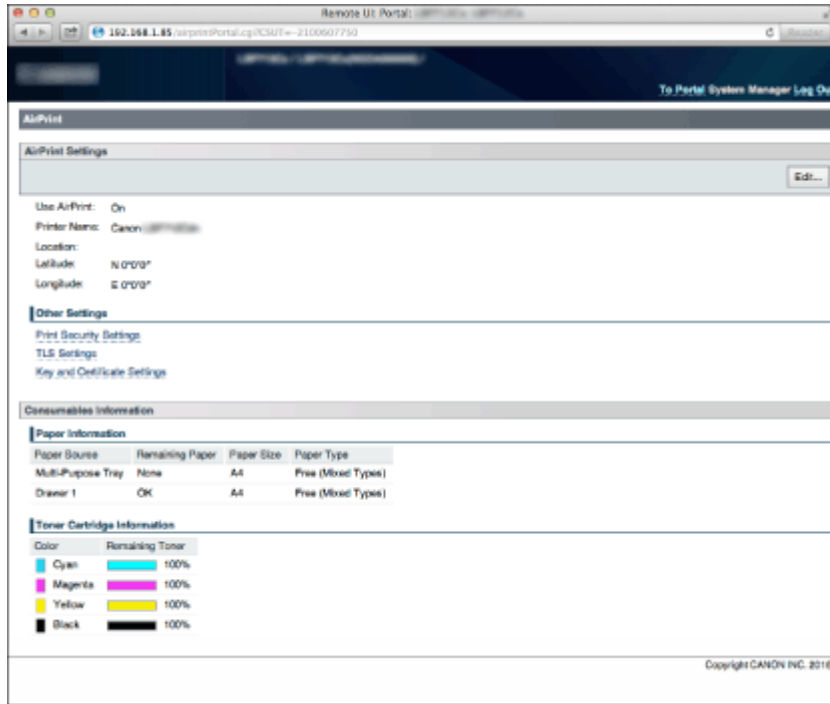
Trademarks

Apple, Bonjour, iPad, iPhone, iPod touch, Mac, Mac OS, Mac OS X, and Safari are trademarks of Apple Inc., registered in the U.S. and other countries. AirPrint and the AirPrint logo are trademarks of Apple Inc.

Printing with AirPrint

0YS1-02W

You do not necessarily need to use a computer for printing e-mails, photos, Web pages, and other documents. AirPrint enables you to print directly from Apple devices such as iPad, iPhone, and iPod touch.
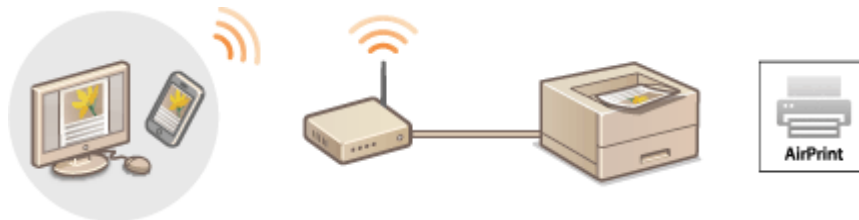
○Printing from iPad, iPhone, or iPod touch(P. 176)
○Printing from Mac(P. 177)

System Requirements

To print with AirPrint, you need one of the following Apple devices.

- iPad (all models)
- iPhone (3GS or later)
- iPod touch (3rd generation or later)
- Mac (Mac OS X 10.7 or later)[*]

> [*] Mac OS X 10.9 or later when you use USB connection.

Network Environment

You need one of the following environments.

- The Apple device and the machine are connected to the same LAN.
- The Mac and the machine are connected via USB.

NOTE:

When using USB connection

- Set <USB-Connected PC OS> to <Mac OS>. **○USB-Connected PC OS(P. 373)**

Printing from iPad, iPhone, or iPod touch

1 **Make sure that the machine is turned ON and that it is connected to your Apple device.**

- For how to make sure of this, see "Getting Started." **○Manuals Included with the Machine(P. 638)**

2 **From the application on your Apple device, tap** ☒ **to display the menu options.**

3 **From the drop-down list, tap [Print].**

4 **Select this machine from [Printer] in [Printer Options].**

- The printers connected to the network are displayed. Select this machine in this step.

    IMPORTANT:

    - [Printer Options] is not displayed on applications that do not support AirPrint. You cannot print by using those applications.

5 **Specify the print settings as necessary.**

    NOTE:

    - The available settings and paper sizes differ depending on the application you are using.

6 **Tap [Print].**

    ➥ Printing starts.

    NOTE:

    Checking the print status

    - During printing, press the Home button of the Apple device twice ▶ tap [Print].

Printing from Mac

1 **Make sure that the machine is turned ON and that it is connected to your Mac.**

- For how to make sure of this, see "Getting Started." ⊙**Manuals Included with the Machine(P. 638)**

2 **Add the machine to the Mac from [System Preferences] ▶ [Printers & Scanners].**

3 **Open a document in an application and display the print dialog box.**

- How to display the print dialog box differs for each application. For more information, see the instruction manual for the application you are using.

4 **Select this machine in the print dialog box.**

- The printers connected to the Mac are displayed. Select this machine in this step.

5 **Specify the print settings as necessary.**

    NOTE:

    - The available settings and paper sizes differ depending on the application you are using.

6 **Click [Print].**

    ➥ Printing starts.

If AirPrint Cannot Be Used

0YS1-02X

If AirPrint cannot be used, try taking the following solutions.

- Make sure that the machine is turned ON. If the machine is turned ON, first turn it OFF, then wait for at least 10 seconds and then turn it back ON to check if the problem is solved.
- Make sure that no error messages are displayed on the machine.
- Make sure that Apple devices and the machine are connected to the same LAN. If the machine is turned ON, it may take several minutes before the machine is ready for communication.
- Make sure that Bonjour on your Apple device is enabled.
- Make sure that the machine is configured to enable printing from a computer even when no department ID and password are entered. **Blocking Jobs When Department ID Is Unknown(P. 264)**
- Make sure that the paper is loaded in the machine and the machine has sufficient toner cartridge remaining. **Displaying the Screen for AirPrint(P. 174)**

Using Google Cloud Print

0YS1-02Y

Google Cloud Print is a service that enables a user who has a Google account to print from applications such as Google Docs™ or Gmail™ via a smartphone, tablet, or computer connected to the Internet. Unlike conventional printing from a computer, Google Cloud Print enables you to print without using a printer driver. For example, if you want to print an e-mail or files that are attached to an e-mail, you can print just by using Gmail for mobile. You will find your printouts when you go to the machine.

Google
Cloud Print Ready

Checking the Machine Settings(P. 179)
Changing Google Cloud Print Settings(P. 179)
Registering the Machine with Google Cloud Print(P. 180)

IMPORTANT

- When registering the machine or when using Google Cloud Print to print documents, you must be able to connect the machine to the Internet. You are also responsible for paying all Internet connection fees.

- You may not be able to use this function in some countries or regions.

- Google Cloud Print does not support printing from IPv6 addresses.

NOTE

- To use Google Cloud Print, a Google account is required. If you do not have one, access Google Web site to create your account.

Checking the Machine Settings

Before setting up Google Cloud Print, check the following:

- Make sure that the machine is assigned an IPv4 address and connected to a computer over a network. **Connecting to a Wired LAN(P. 188)**

- Make sure that the date and time settings are correct. **Date/Time Settings(P. 370)**

- If the Department ID Management is enabled, make sure that the machine is configured to enable printing from a computer even when no Department ID and PIN are entered. **Blocking Jobs When Department ID Is Unknown(P. 264)**

Changing Google Cloud Print Settings

Enable the Google Cloud Print function of the machine. You can also disable the Google Cloud Print function of the machine.

1 Press ▶ (Settings).

2 Use ▲ / ▼ to select <Network>, and press [OK].

- When a message appears, press [OK].

3 Select <Google Cloud Print>, and press [OK].

4 Select <Use Cloud Print>, and press [OK].

```
Google Cloud Print
Use Cloud Print
Registration Status
```
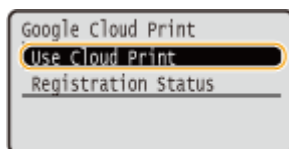
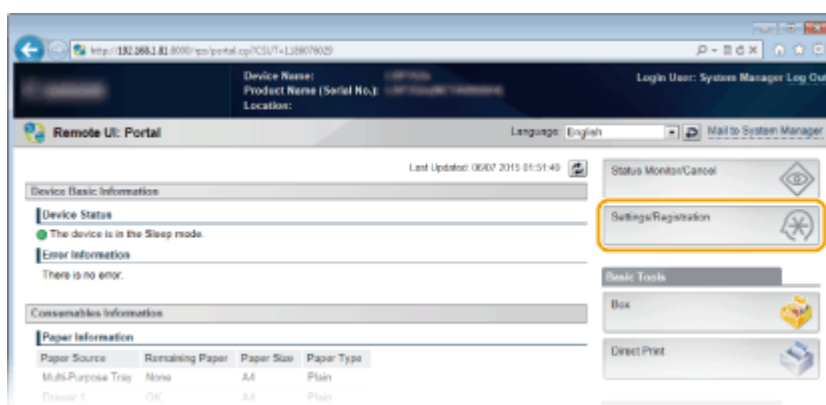**5** Select <Off> or <On>, and press [OK].

```
Use Cloud Print
off
On
```
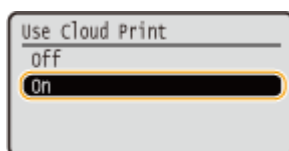
Registering the Machine with Google Cloud Print

Registering the machine with Google Cloud Print allows you to print from anywhere.

1 Start the Remote UI and log on in Management Mode. ○Starting Remote UI(P. 336)

2 Click [Settings/Registration].

3 Click [Network] ▶ [Google Cloud Print Settings].
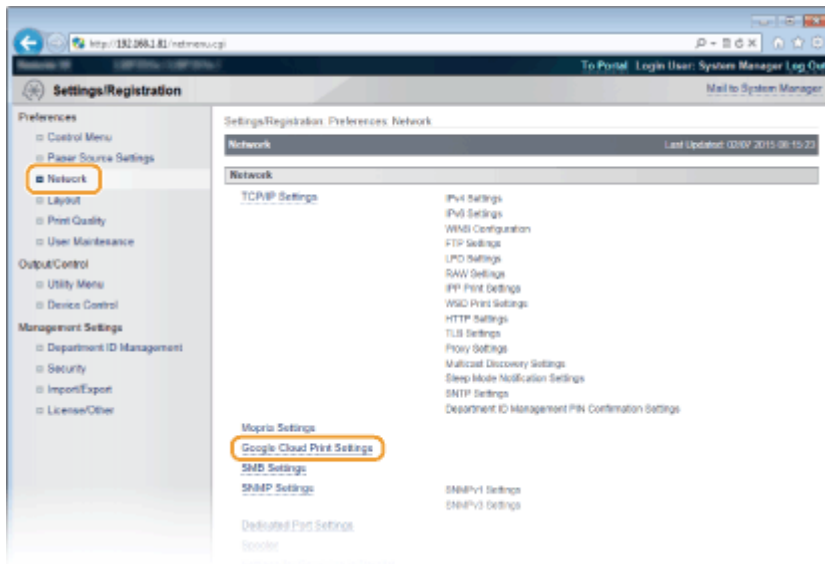
4 Click [Register] in [Registration Status].
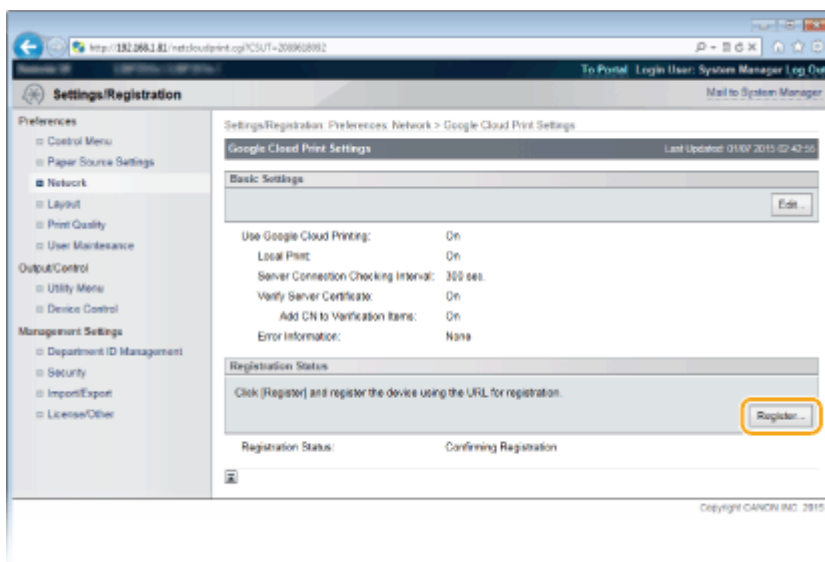
NOTE:

If [Register] is unavailable

● You need to enable Google Cloud Print. Click [Edit], select the [Use Google Cloud Print] check box, and then click [OK].

To reregister the machine

● To reregister the machine if the owner of the machine has changed or for other reasons, unregister the machine and register it again.

5 Click the link of the URL displayed for [URL for Registration].
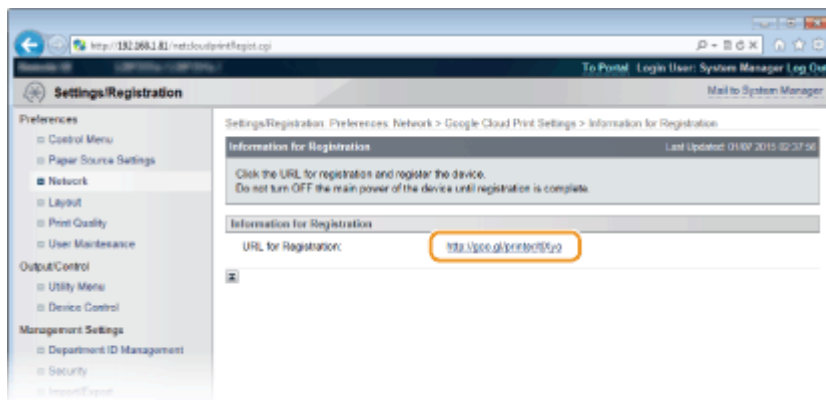
6 Follow the on-screen instructions to register the machine.

➠ You can print from a Google Cloud Print compatible application such as Google Chrome™, Gmail, or Google Docs.

NOTE:

● Access the Google Cloud Print Web site for information about the latest applications that support Google Cloud Print.

NOTE

Registering from a mobile device or Google Chrome
You can also register the machine from a mobile device or Google Chrome. The machine's display shows the following confirmation screen before completion of the registration. Perform `OK` ▶ `<Yes>` ▶ `OK` to complete the registration.
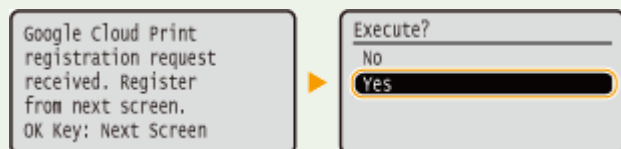
● For the registration procedure, see the instruction manual for your mobile device or the Google Cloud Print Web site.

Managing the Machine Remotely

0YS1-030

You can use the Remote UI from a Web browser installed on your mobile device. This allows you to check the machine's status and specify machine's settings from your mobile device. Note that the Remote UI screen may not be displayed properly for some devices and environments.

Starting Remote UI with a Mobile Device

Enter the IP address of the machine into the Web browser and start the Remote UI. Check the IP address set to the machine in advance (**Network Status Print(P. 588)**). If you have any questions, ask your Network Administrator.

1 **Start the Web browser on your mobile device.**

2 **Enter "http://(the IP address of the machine)/" in the address field.**

- If you want to use an IPv6 address, enclose the IPv6 address with brackets (example: http://[fe80::2e9e:fcff:fe4e:dbce]/).

LINKS

Using Remote UI(P. 335)

Network

Network

0YS1-031

The machine has been designed for flexibility of use across a variety of environments, and it includes advanced technologies in addition to basic network features. Do not worry if you are not a network expert, because the machine has also been designed for convenience and ease of use. Relax and proceed with the network setup one step at a time.

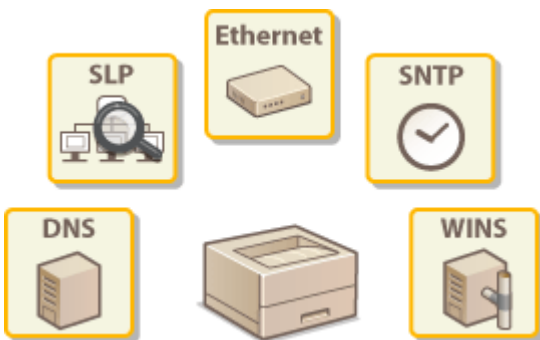## ■Connecting to a Computer/Viewing the Machine's Network Settings
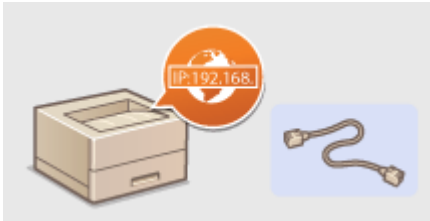
○**Connecting to a Network(P. 186)**

■Configuring for Printing

○**Configuring the Machine for Printing from a Computer(P. 199)**

■Customizing the Machine for More Convenient Network Experience

○**Configuring the Machine for Your Network Environment(P. 219)**

Connecting to a Network

0YS1-032

The machine can be connected to a network via wired LAN, requiring a unique network IP address. For specific IP address settings, contact your Internet service provider or network administrator.
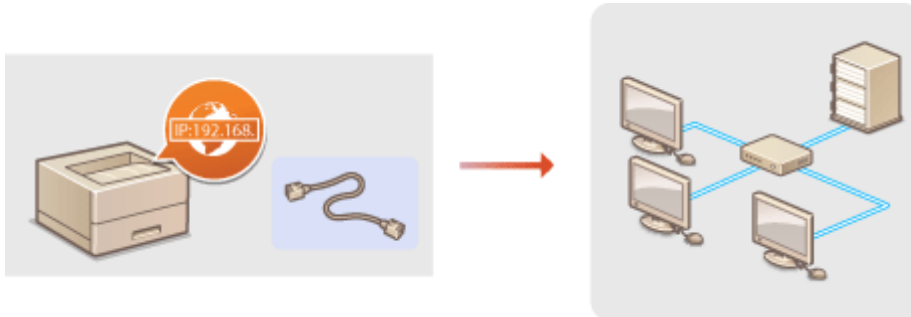
IMPORTANT

- If the machine is connected to an unsecured network, your personal information might be leaked to a third party.

NOTE

- The machine does not come with a LAN cable or router. Have them ready as necessary.

■ Before You Start

Follow these steps to connect the machine to a network.

1 **Check your computer settings.**

- Make sure that the computer is correctly connected to the network. For more information, see the instruction manuals for the devices you are using, or contact the device manufacturers.
- Make sure that the network settings have been completed on the computer. If the network has not been set up properly, you will not be able to use the machine on the network, even if you perform the rest of the procedure below.

  NOTE:

  - Depending on the network, you may need to change settings for the communication method (half-duplex/full-duplex) or the Ethernet type (10BASE-T/100BASE-TX/1000BASE-T) (**Configuring Ethernet Settings(P. 220)**). For more information, contact your Internet service provider or Network Administrator.
  - To check the MAC address of the machine.
    MAC Address(P. 397)
  - To connect to an IEEE 802.1X network, see **Configuring IEEE 802.1X Authentication(P. 312)** .

2   **Connect to a wired LAN.**
      ▶**Connecting to a Wired LAN(P. 188)**

▼
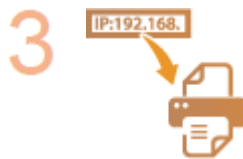
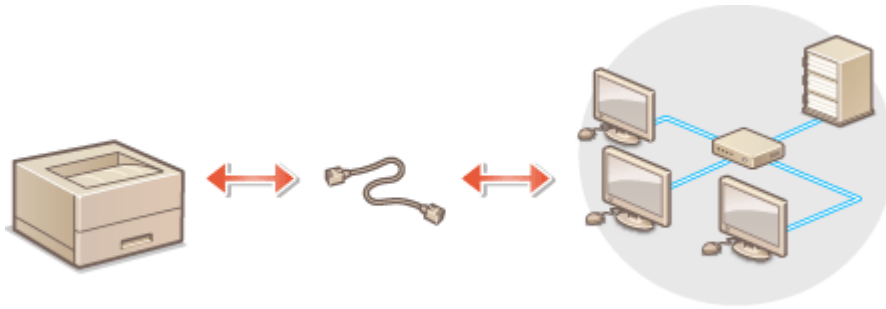**3**   **Set the IP address.**

- At the time of purchase, the machine is set to automatically acquire an IP address. Change this setting if you want to use a specific IP address.

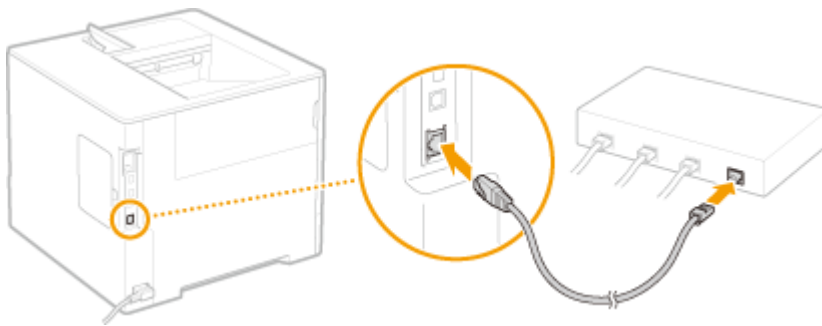   ▶**Setting IP Addresses(P. 190)**

Connecting to a Wired LAN

0YS1-033

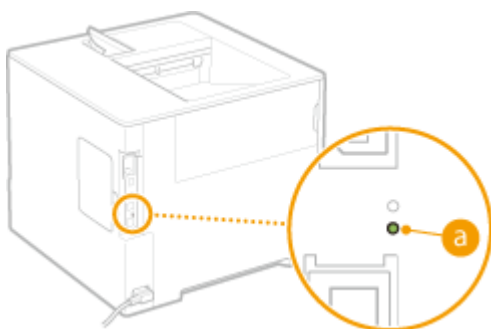Connect the machine to a computer via a router. Use a LAN cable to connect the machine to the router.

1 Connect a LAN cable.

- Connect the machine to a router by using a LAN cable.
- Push the connector in until it clicks into place.

2 Check that the LNK indicator (a) is lit.

NOTE:

- When the LNK indicator does not light up. ◗**Problems with the Wired LAN Connection(P. 543)**

3 Wait approximately 2 minutes.

- While you wait, the IP address is set automatically.

NOTE:

- You can set the IP address manually. ◗**Setting IP Addresses(P. 190)**

LINKS

●**Connecting to a Network(P. 186)**

Setting IP Addresses

0YS1-034

Connecting the machine to a network requires a unique network IP address. Two versions of IP addresses are available: IPv4 and IPv6. Configure these settings depending on the network environment. To use IPv6 addresses, you need to properly configure the IPv4 address settings.

Setting IPv4 Address

0YS1-035
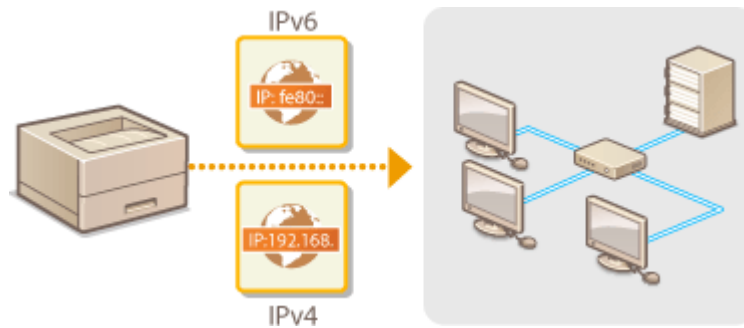
 The machine's IPv4 address can be either assigned automatically by a dynamic IP addressing protocol, such as DHCP, or entered manually. When connecting the machine to a wired LAN, make sure that the connectors of the LAN cable are firmly inserted into the ports (**Connecting to a Wired LAN(P. 188)**).

Setting IPv4 Address

1 Press ▶ (Settings).

2 Use ▲ / ▼ to select <Network>, and press [OK].

- When a message appears, press [OK].

3 Select <TCP/IP Settings> ▶ <IPv4 Settings> ▶ <IP Mode>.

4 Configure IP address settings.

ⓐ <Auto>

Select to automatically assign an IP address via a protocol such as DHCP.

ⓑ <Manual>

Select to configure the IP address settings by manually entering an IP address.

■Automatically assigning an IP address

1 Select <Auto>, and press [OK].
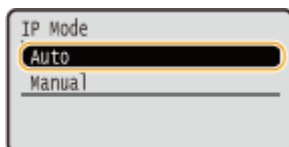
2 Select <Protocol>, and press [OK].
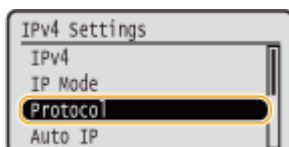
3 Select <Use DHCP>, <Use BOOTP>, or <Use RARP>, and press [OK].

- You can use only one of the protocols DHCP, BOOTP, and RARP. If the selected protocol is set to <On>, the other two protocols are automatically set to <Off>.
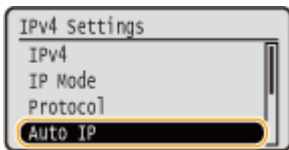
```
Protocol
 Use DHCP
 Use BOOTP
 Use RARP
```

4 Select <On>, and press [OK].

```
Use DHCP
 Off
 On
```
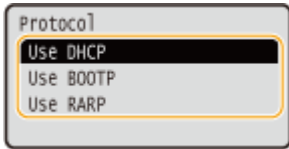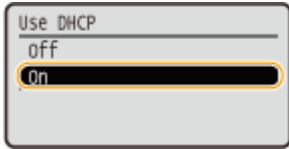
5 Press [←].

6 Select <Auto IP>, and press [OK].

```
IPv4 Settings
 IPv4
 IP Mode
 Protocol
 Auto IP
```

7 Select <On>, and press [OK].

```
Auto IP
 Off
 On
```

NOTE:

When using DHCP

If you turn OFF the power and ON again, an IP address differing from the current one will be assigned. This may disable printing. To use DHCP, specify one of the following settings after consulting the network administrator.

- Configuring the DNS Dynamic Update Function ○**Configuring DNS(P. 223)**

- Specifying Settings for the DHCP Server to Constantly Assign the Same IP Address

If you do not want to use DHCP/BOOTP/RARP to assign an IP address

- Set all the protocols to <Off>. If you set <Use DHCP>, <Use BOOTP>, or <Use RARP> to <On> when the DCHP/BOOTP/RARP servers are unavailable, the machine will waste time and communication resources in searching the network for available services.

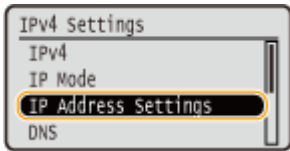**IP addresses that are given precedence**

- IP addresses assigned via DHCP/BOOTP/RARP override the address obtained via Auto IP.

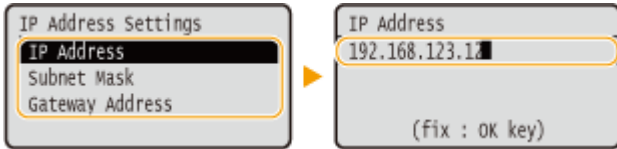■**Manually entering an IP address**

1 Select <Manual>, and press [OK].

```
IP Mode
 Auto
 Manual
```

2 Select <IP Address Settings>, and press [OK].

```
IPv4 Settings
  IPv4
  IP Mode
  IP Address Settings
  DNS
```
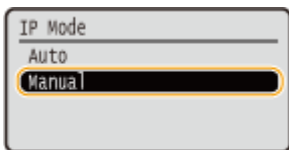
3 **Specify the IP address, subnet mask, and gateway address (or default gateway).**

- Select the item to set, press ⒪ᴋ , enter an address, and press ⒪ᴋ .

```
IP Address Settings          IP Address
  IP Address          ▶        192.168.123.12
  Subnet Mask
  Gateway Address
                                   (fix : OK key)
```

NOTE:

How to enter addresses

- Use ◀ / ▶ to move to the target field (a period-delimited input area), and use the numeric keys to increase/decrease the value.

When you are unsure of the IP address to input

- The IP address can be determined from the router settings of the network. ❭**Determining the IP Address to Assign to the Machine(P. 193)**

5 **Perform a hard reset.** ❭**Performing a Hard Reset(P. 499)**

➠ The settings are enabled after the hard reset is performed.

NOTE

Checking whether the settings are correct

- Make sure that the Remote UI screen can be displayed with your computer. ❭**Starting Remote UI(P. 336)**

If you have changed the IP address after installing the printer driver

- By following the procedure for changing the standard TCP/IP port described in the "Printer Driver Installation Guide", specify the port to use again.

Determining the IP Address to Assign to the Machine

When you want to use a fixed IP address for the machine, you can determine the IP address as shown below.

■ To Determine the IP Address

An IP address consists of four numbers delimited by a period (.) (example: 192.168.1.45). Each number must be in the range from 0 to 255. In general, set the first three numbers to be the same as those for the router because they are common in the network. Determine the last number (for example, 45 in 192.168.1.45) that is different from that for other devices.

192.168.1.45

Numbers that are common in the network — Nmuber that is unique to each device

■Checking the Router Settings

When you want to use a fixed IP address, check the settings of the DHCP that functions to automatically assign an IP address in a network. To avoid duplication of the IP address, you need to set an IP address outside the range of IP addresses assigned by DHCP. Since a router often functions as a DHCP server, check the router settings.
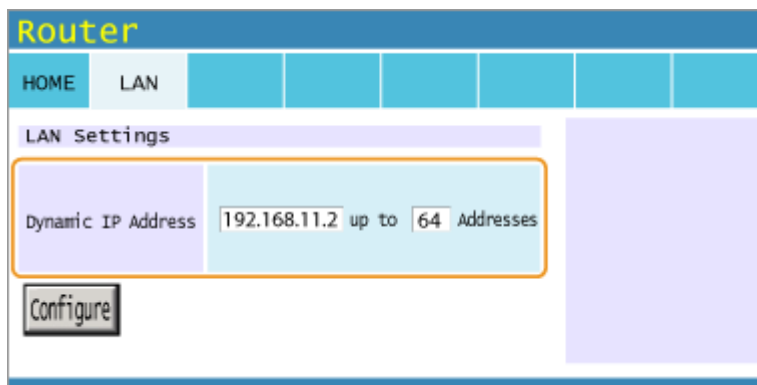
> **NOTE**
>
> ● For how to display the setting screen of the router, see the instruction manual of your router.

1 Display the setting screen of the router.

2 Check the range of IP addresses assigned by DHCP.

● The range of IP addresses assigned by DHCP is set according to your router.
  Example DHCP setting screen of the router:

3 Determine the IP address of the machine.

● In the example screen shown in step 2, assign an IP address in the range of 192.168.11.66 to 192.168.11.254 to the machine because an IP address that the router assigns by DHCP is in the range of 192.168.11.2 to 192.168.11.65.

LINKS

Setting IPv6 Addresses(P. 195)
Network Status Print(P. 588)
Configuring WINS(P. 229)

Setting IPv6 Addresses

0YS1-036

The IPv6 addresses of the machine can be configured via the Remote UI. Before setting IPv6 addresses, check the IPv4 address settings (**Setting IPv4 Address(P. 191)**). You need to set the correct IPv4 settings to use IPv6 addresses. The machine can use up to seven of the following IPv6 addresses:

Type	Maximum number available	Description
Link-local address	1	An address that is only valid within a subnet or link and cannot be used to communicate with devices beyond a router. A link-local address is automatically set when the IPv6 function of the machine is enabled.
Manual address	1	An address that is entered manually. When using this address, specify the prefix length and default router address.
Stateless address	4	An address that is generated automatically using the MAC address of the machine and the network prefix that is advertised by the router. Stateless addresses are discarded when the machine is restarted (or turned ON).
Stateful address	1	An address obtained from a DHCP server using DHCPv6.

1 **Start the Remote UI and log on in Management Mode.** **Starting Remote UI(P. 336)**

2 **Click [Settings/Registration].**
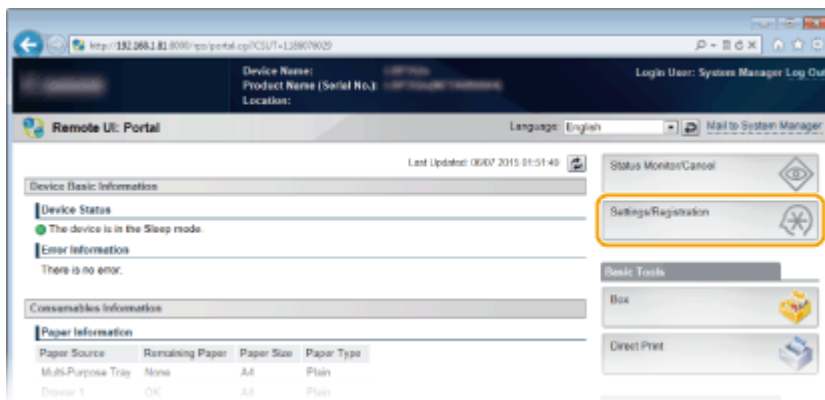
3 **Click [Network] ▶ [TCP/IP Settings].**
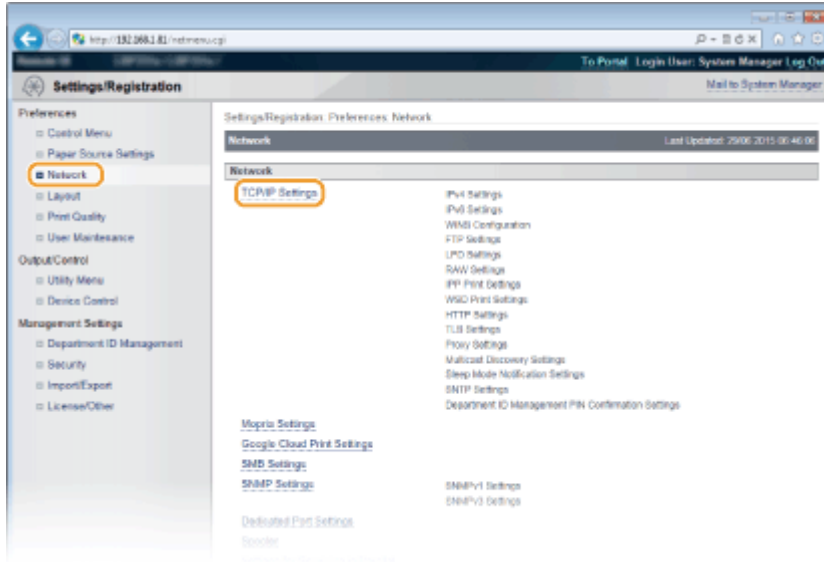
4 **Click [Edit] in [IPv6 Settings].**
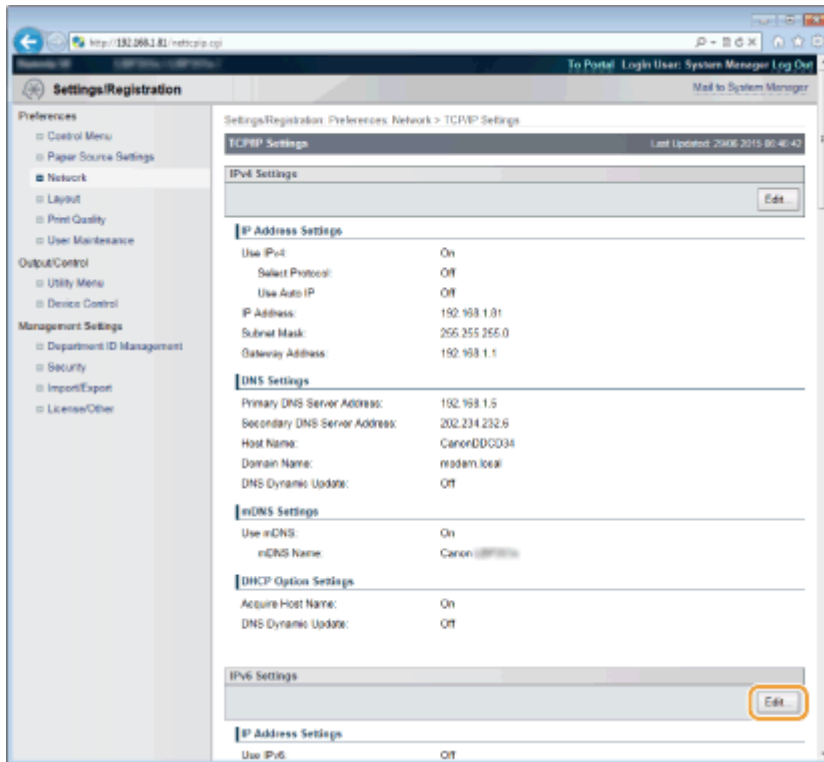
5 **Select the [Use IPv6] check box and configure the required settings.**
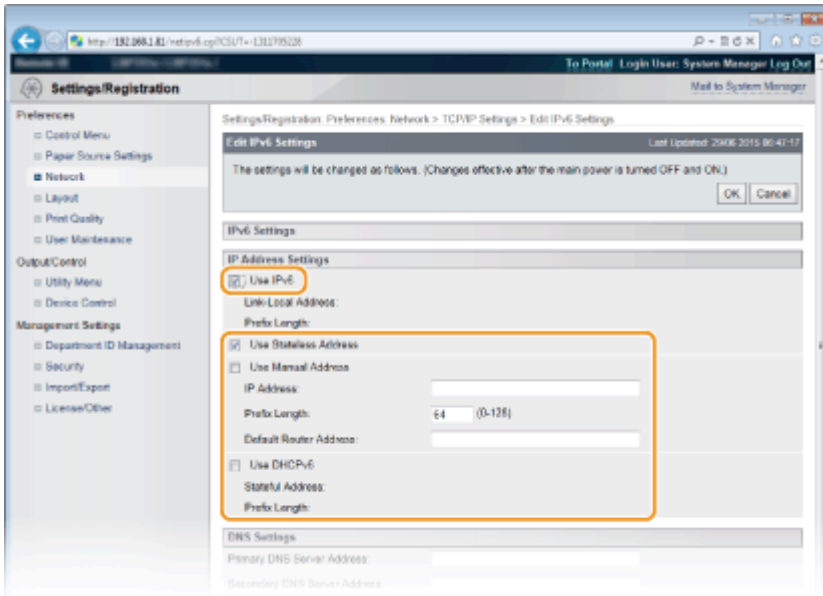
[Use IPv6]
Select the check box to enable IPv6 on the machine. When not using IPv6, clear the check box.

[Use Stateless Address]
Select the check box when using a stateless address. When not using a stateless address, clear the check box.

[Use Manual Address]
When you want to manually enter an IPv6 address, select the check box and enter the IP address, prefix length, and default router address in the corresponding text boxes.

[IP Address]
Enter an IPv6 address. You cannot enter an address that starts with "ff" (or multicast address), the address of "0000::0000" (all zeros), or an address that starts with "0:0:0:0:0:ffff" or "0:0:0:0:0:0."

[Prefix Length]
Enter a number that indicates how many bits are available for the network address.

[Default Router Address]
Specify the IPv6 address of the default router as necessary. You cannot enter an address that starts with "ff" (or multicast address), the address of "0000::0000" (all zeros), or an address that starts with "0:0:0:0:0:ffff" or "0:0:0:0:0:0."

[Use DHCPv6]
Select the check box when using a stateful address. When not using DHCPv6, clear the check box.

6 **Click [OK].**
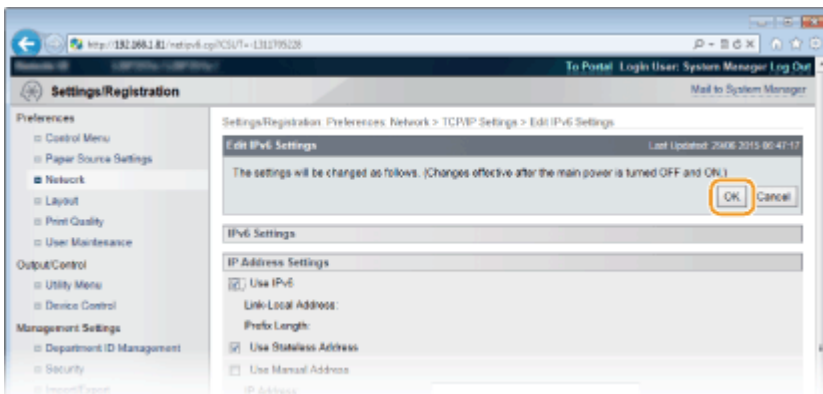
7 **Perform a hard reset.**

- Click [Device Control], select [Hard Reset], and then click [Execute].
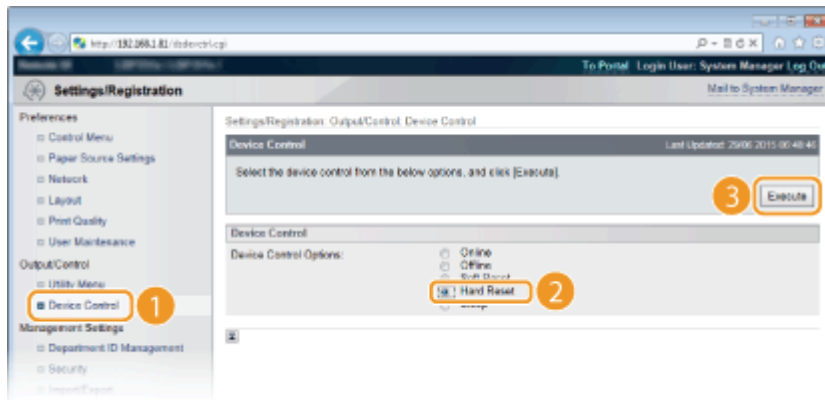
➠ The settings are enabled after the hard reset is performed.

NOTE

Checking whether the settings are correct

- Make sure that the Remote UI screen can be displayed with your computer by using the IPv6 address of the machine. **Starting Remote UI(P. 336)**

Selecting settings from the operation panel

- You can also enable or disable IPv6 addresses from the setting menu of the operation panel. **IPv6 Settings(P. 382)**

If you changed the IP address after installing the printer driver

- By following the procedure for changing the standard TCP/IP port described in the "Printer Driver Installation Guide", specify the port to use again.

LINKS

Setting IPv4 Address(P. 191)
Network Status Print(P. 588)

Configuring the Machine for Printing from a Computer

0YS1-037

When using the machine as a network printer, you can configure the protocols and ports used for printing and create a print server for the machine. Before configuring the machine for printing from a computer, perform the basic setup procedures, including the printer driver installation. For more information, see the Printer Driver Installation Guide.
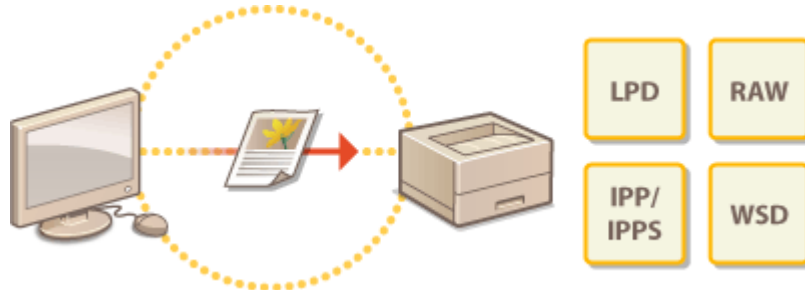
NOTE

- Printing protocols are rules for delivering document data created on a computer to the machine, and can be selected according to the printing purpose or the network environment.

- Ports are gateways for passing document data from a computer to the printer. Incorrect port settings are often the cause when documents cannot be printed from a network computer.

Configuring Printing Protocols and WSD Functions

0YS1-038

Configure the protocols that are used for printing documents from a networked computer. The protocols supported by the machine include LPD, RAW, IPP/IPPS, WSD (Web Services on Devices), and FTP. This section describes the settings of LPD, RAW, IPP/IPPS, and WSD. To use FTP, see ●**Using FTP Clients(P. 648)** .

1 **Start the Remote UI and log on in Management Mode.** ●**Starting Remote UI(P. 336)**

2 **Click [Settings/Registration].**
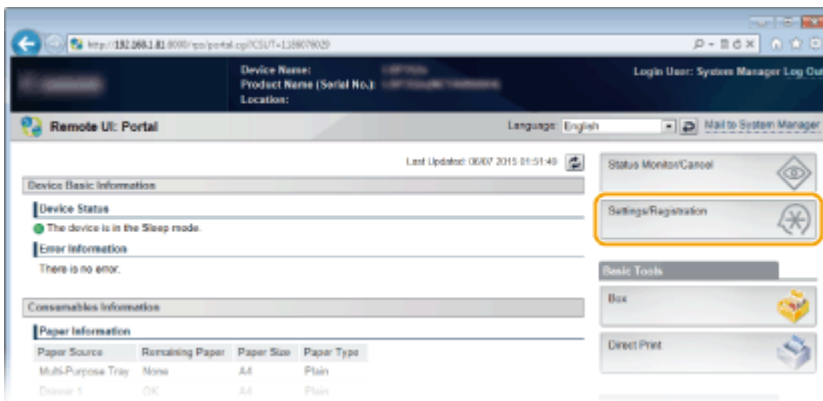
3 **Click [Network] ▶ [TCP/IP Settings].**
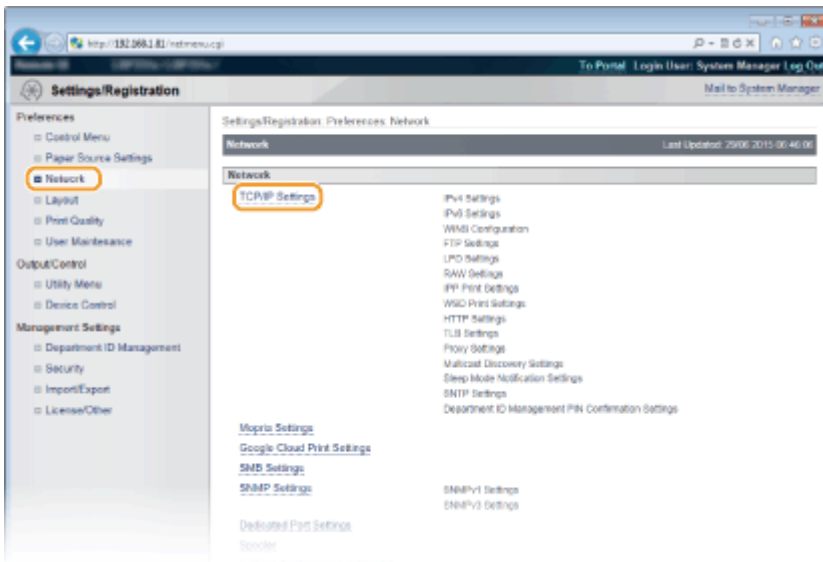
4 **Configure printing protocols.**

■**Configuring LPD settings**

1 **Click [Edit] in [LPD Settings].**
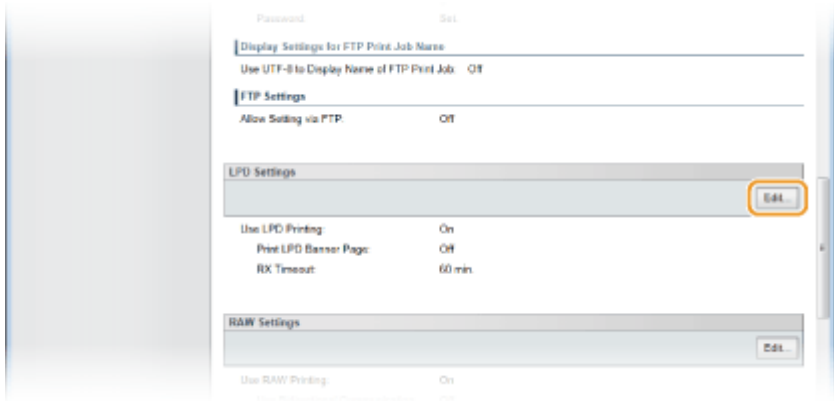
2 **Configure the settings as necessary.**
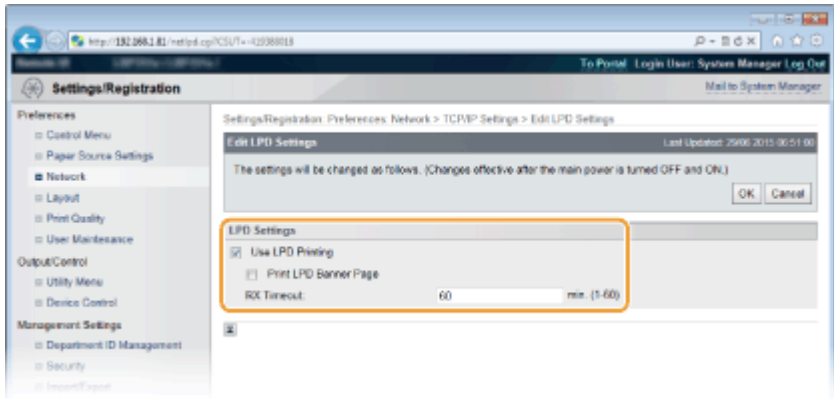
[Use LPD Printing]

When using LPD for printing, select the check box. When not using, clear the check box.

[Print LPD Banner Page]

Select the check box to include the information such as user names and file names on printouts. When not printing the information, clear the check box.

[RX Timeout]

Set the time period after which the print job automatically ends when print data cannot be received due to a communication error or some other problem.

3 **Click [OK].**

■**Configuring RAW settings**

1 **Click [Edit] in [RAW Settings].**
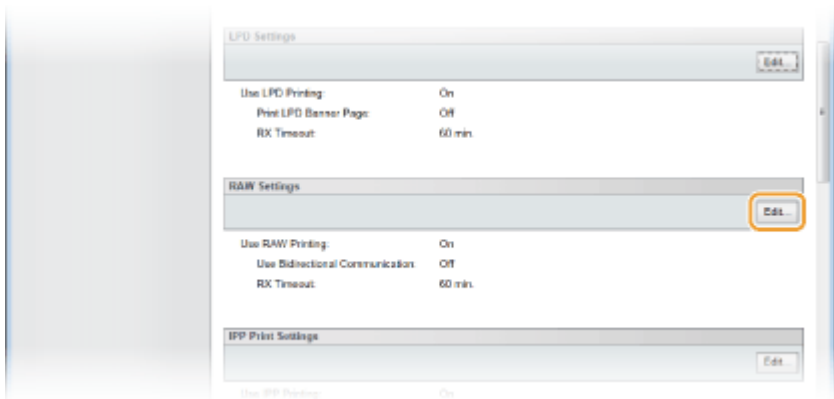
2 **Configure the settings as necessary.**
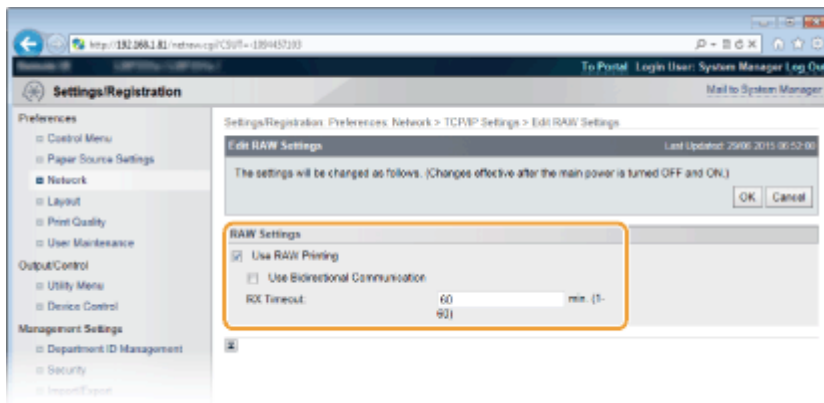
[Use RAW Printing]

When using RAW for printing, select the check box. When not using, clear the check box.

[Use Bidirectional Communication]

When using bidirectional communication to notify the computer of machine status and print completion, select the check box. When not using, clear the check box.

[RX Timeout]

Set the time period after which the print job automatically ends when print data cannot be received due to a communication error or some other problem.

3 **Click [OK].**

■ **Configuring IPP/IPPS settings**

1 **Click [Edit] in [IPP Print Settings].**

2 **Configure the settings as necessary.**
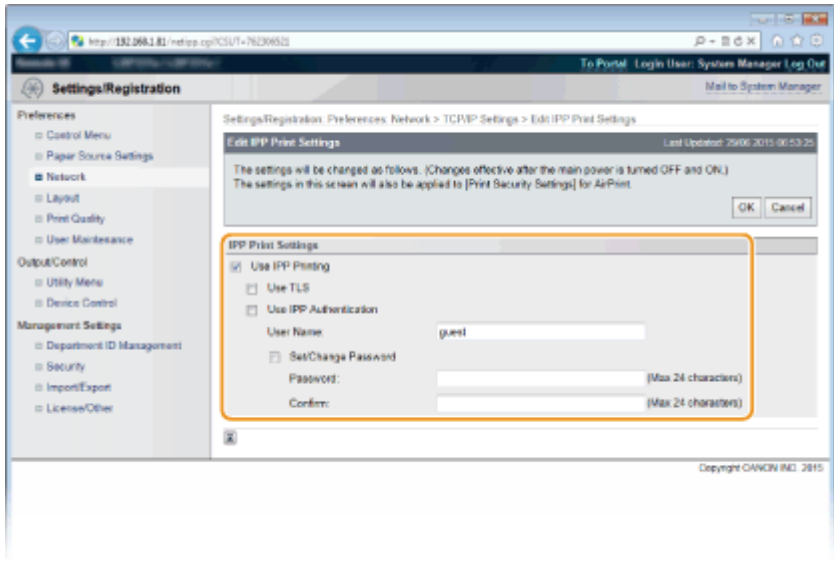
[Use IPP Printing]

When using IPP/IPPS for printing, select the check box. When not using, clear the check box.

[Use TLS]

When using IPPS (IPP Print with TLS encrypted communication), select the check box. When not using, clear the check box.

IMPORTANT:

When using IPPS, enable the TLS encrypted communication function. �**Using TLS for Encrypted Communications(P. 297)**

[Use IPP Authentication]

When using the user authentication function for IPP Print, select the check box and set the user name and password. When not using, clear the check box.

[User Name]

Enter up to 24 alphanumeric characters for the user name used in IPP authentication.

[Set/Change Password]

To set or change the password, select the check box and enter up to 24 alphanumeric characters for the password in the [Password] text box. For confirmation, enter the same password in the [Confirm] text box.

3 Click [OK].

■**Configuring WSD settings**

1 Click [Edit] in [WSD Print Settings].
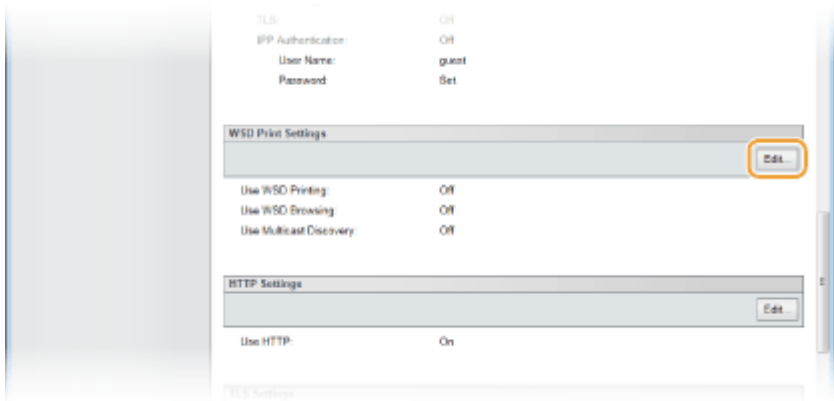
2 **Configure the settings as necessary.**
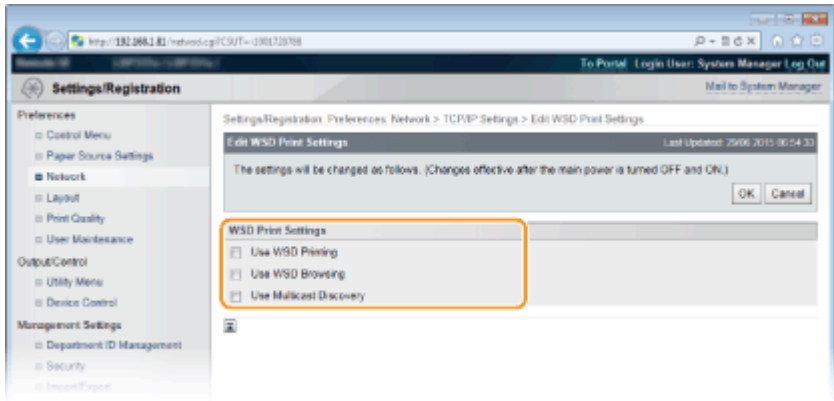
[Use WSD Printing]
When using WSD for printing, select the check box. When not using, clear the check box.

[Use WSD Browsing]
Select the check box to obtain information about the machine from a computer via WSD. This check box is automatically selected when the [Use WSD Printing] check box is selected.

[Use Multicast Discovery]
Select the check box to set the machine to reply to multicast discovery messages. If the check box is cleared, the machine stays in sleep mode even when multicast discovery messages are flowing on the network.

3 **Click [OK].**

5 **Perform a hard reset.**

- Click [Device Control], select [Hard Reset], and then click [Execute].
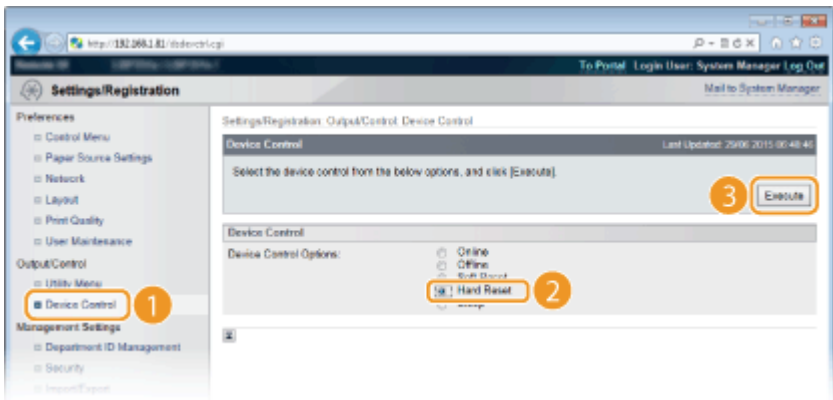
➠ The settings are enabled after the hard reset is performed.

> **NOTE**
>
> **Using the operation panel**
>
> ● You can also enable or disable LPD print, RAW print, and IPP print from the setting menu of the operation panel.
>
> > ◉**LPD Settings(P. 384)**
> > ◉**RAW Settings(P. 384)**
> > ◉**IPP Print(P. 385)**
>
> ● WSD settings can also be accessed from the setting menu of the operation panel. ◉**WSD(P. 385)**

Setup procedures on your computer

After the setting in the machine is completed, you may need to configure settings or install applications on your computer as well. Configure settings in your computer as necessary.

● **Configuring printer ports**
Printing errors can occur when the IP address of the machine has been changed, or when a printer has been added via the Windows printer folder. These errors are typically caused by incorrect printer port settings. For example, an incorrect port number or port type may have been specified in the computer. To fix this type of problem, configure the printer port settings by following the procedure for changing the standard TCP/IP port described in the "Printer Driver Installation Guide".

● **Setting up WSD network devices on Windows Vista/7/8/10**
Install the printer driver by following the procedure for installation with the WSD port described in the "Printer Driver Installation Guide".

● **Enabling IPP/IPPS**
Install the printer drivers by specifying the IPP port. ◉**Enabling IPP/IPPS(P. 206)**

LINKS

◉**Setting Up Print Server(P. 215)**

Enabling IPP/IPPS

0YS1-039

To set the printing protocol to IPP or IPPS, install the printer driver by using the procedure shown below that suits the operating system of your computer.

If Using Windows Vista/7/8/10/Server 2008/Server 2012(P. 206)
If Using Windows Server 2003(P. 212)

IMPORTANT

- To perform the following procedure, log on to your computer with an administrator account.

NOTE

- Configure the IPP print settings by using the Remote UI before staring the procedure.
  Configuring Printing Protocols and WSD Functions(P. 200)

If Using Windows Vista/7/8/10/Server 2008/Server 2012

Installing the printer driver requires the User Software DVD-ROM. Insert the User Software DVD-ROM into the drive on the computer before starting the procedure.

NOTE

- Close the setup screen that is displayed when the DVD-ROM is inserted.

1 Open the Printer Folder. **Displaying the Printer Folder(P. 662)**

2 Click [Add a printer].

3 If you are using Windows Vista/7/Server 2008, click [Add a network, wireless or Bluetooth printer].
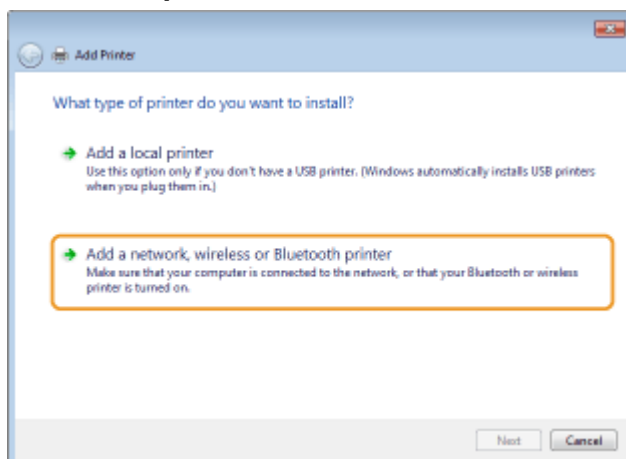
4 **Click [The printer that I want isn't listed].**
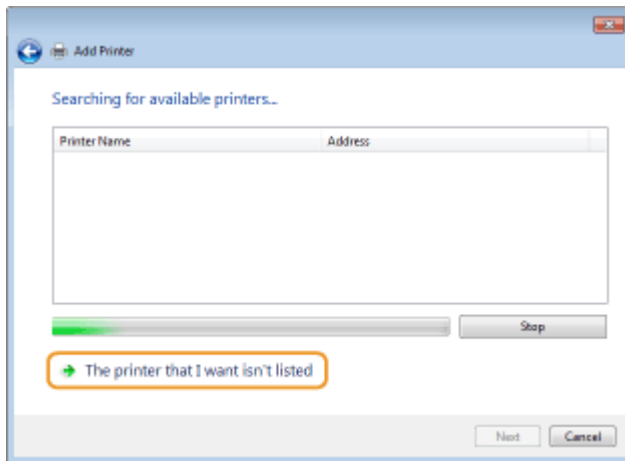
5 **Select [Select a shared printer by name], enter a connection destination, and click [Next].**

- To use IPP, enter "http://<IP address of the machine>/ipp" for the connection destination.
  Example: http://192.168.1.81/ipp

- To use IPPS, enter "https://<IP address of the machine>/ipp" for the connection destination.
  Example: https://192.168.1.81/ipp
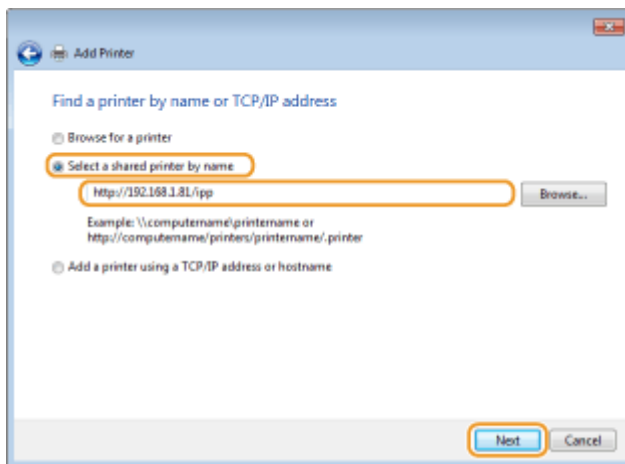

IMPORTANT:

- When you are using a DNS server, enter "<host name of the machine>.<domain name>" instead of "IP address of the machine" (example: https://my_printer.example.com/ipp).

6 **Click [Have Disk].**
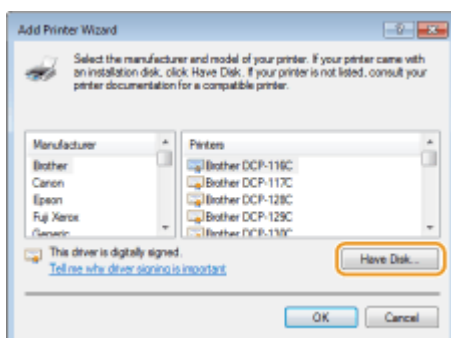
7 Click [Browse].
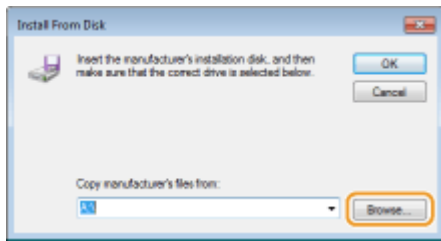
8 Specify the folder where the printer drivers are contained, select the INF file, and then click [Open].
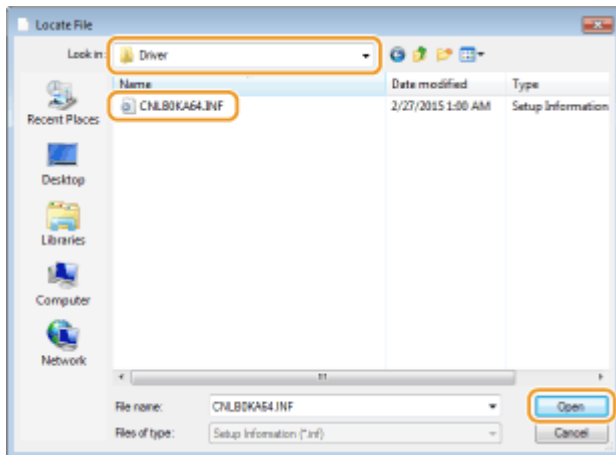
- Specify the folder as shown below according to the operating system of your computer. If you are not sure whether the operating system of your computer is a 32-bit or 64-bit version, see ⊙**Checking the Bit Architecture(P. 664)** .

    32-bit operating systems
    Select [UFR II]-your language-[32BIT]-[Driver] folder on the User Software DVD-ROM.

    64-bit operating systems
    Select [UFR II]-your language-[x64]-[Driver] folder on the User Software DVD-ROM.

    NOTE:

    If using the IPP authentication function
    - When you are prompted to enter the password, enter the user name and password, and click [OK]. ⊙ **Configuring Printing Protocols and WSD Functions(P. 200)**

9 Proceed with the setting procedure by following the on-screen instructions.

➠ The printer driver is installed. To use IPPS, install public keys of the machine in the computer.

■Installing Public Keys of the Machine

Using IPPS additionally requires installing the public keys of the machine on the computer.

IMPORTANT

- The [Common Name] of key pairs must be set in advance to be the "IP address" or "<host name>.<domain name>" used when connecting to the machine. ⊙**Generating Key Pairs(P. 320)**

1 **Start the Web browser.**

2 **Enter "https://<IP address of the machine>/" in the address field, and press the [ENTER] key.**

- Example: https://192.168.1.81/

IMPORTANT:

- When you are using a DNS server, enter "<host name of the machine>.<domain name>" instead of "IP address of the machine" (example: https://my_printer.example.com/).

3 **Click [Continue to this website (not recommended).].**

⇒ Login Page is displayed.

4 **Click [Tools] ▶ [Internet options].**
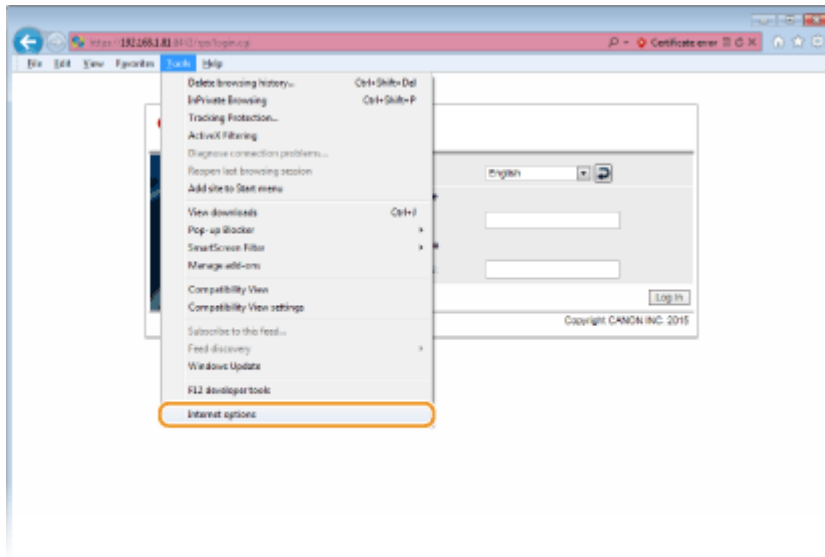
5 **Select [Trusted Sites] in the [Security] tab, and click [Sites].**
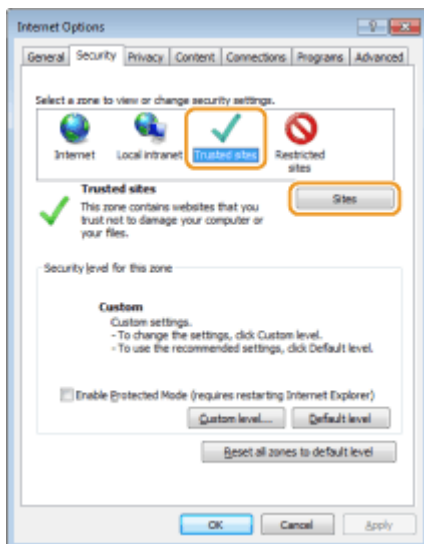
**6** **Make sure that "https://<IP address of the machine> or <host name of the machine>.<domain name>/" is displayed, and click [Add] ▶ [Close].**
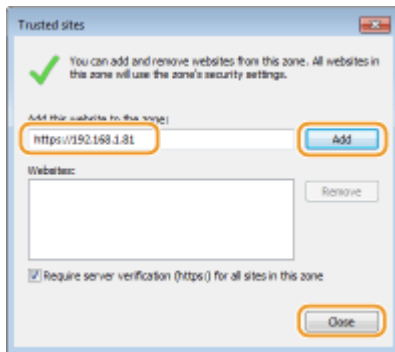
7 **Clear the [Enable Protected Mode (requires restarting Internet Explorer)] check box when it is selected.**
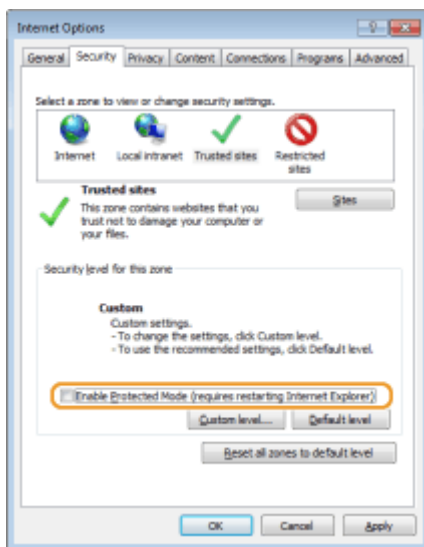
8 **Click [OK].**

➠ The screen returns to the Remote UI screen.

9 **Exit the Web browser.**

10 **Repeat steps 1 to 3 to start the Remote UI.**

11 **Click [Certificate error] ▶ [View certificates] in the right of the address field.**
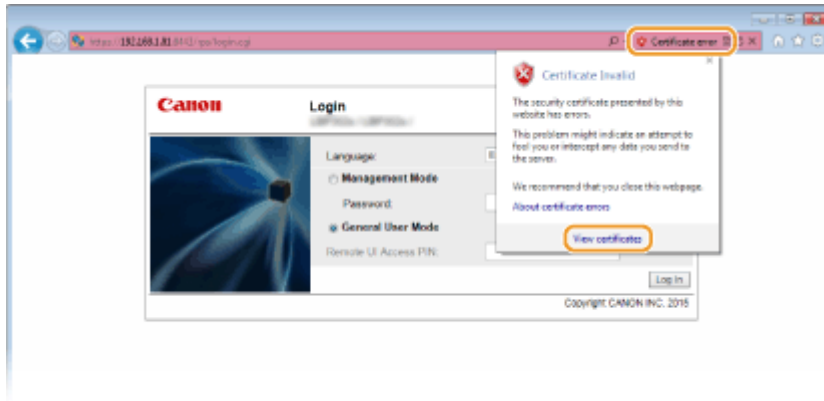
12 Click [Install Certificate].

13 Click [Next].

14 Select [Place all certificates in the following store] and click [Browse].

15 Select [Trusted Root Certification Authorities], and follow the on-screen instructions to complete the certificate import wizard.

16 If you have cleared the [Enable Protected Mode (requires restarting Internet Explorer)] check box in step 7, select the check box.
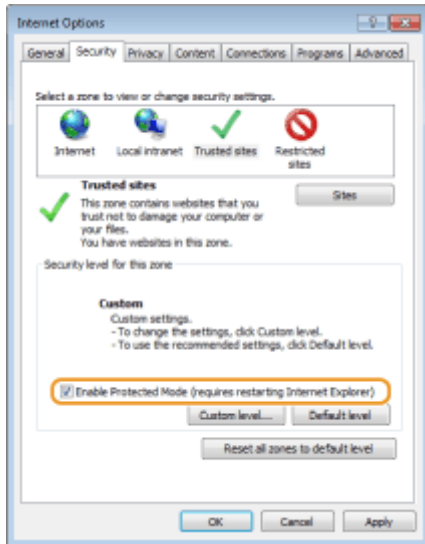
If Using Windows Server 2003

Installing the printer drivers requires the User Software DVD-ROM. Insert the User Software DVD-ROM into the drive on the computer before starting the procedure.

NOTE

- Close the setup screen that is displayed when the DVD-ROM is inserted.

1 Open the Printer Folder. ❯Displaying the Printer Folder(P. 662)

2 Double-click [Add Printer].

3 Click [Next].

4 Select [A network printer, or a printer attached to another computer] and click [Next].
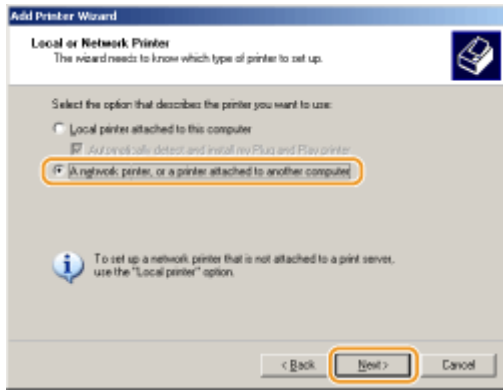
5 Select [Connect to a printer on the Internet or on a home or office network:], enter the connection destination, and click [Next].

- To use IPP, enter "http://<IP address of the machine>/ipp" for the connection destination.
  Example: http://192.168.1.81/ipp

- To use IPPS, enter "https://<IP address of the machine>/ipp" for the connection destination.
  Example: https://192.168.1.81/ipp
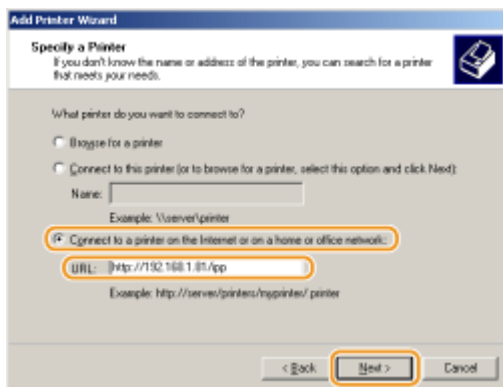
IMPORTANT:

- When you are using a DNS server, enter "<host name of the machine>.<domain name>" instead of "IP address of the machine" (example: https://my_printer.example.com/ipp).

6 Click [Have Disk].
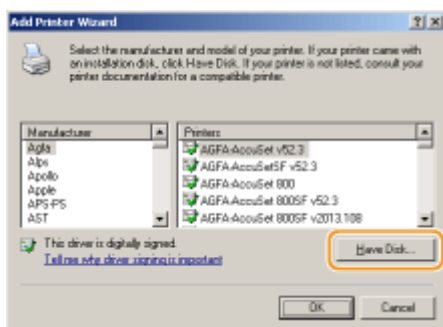
7 Click [Browse].
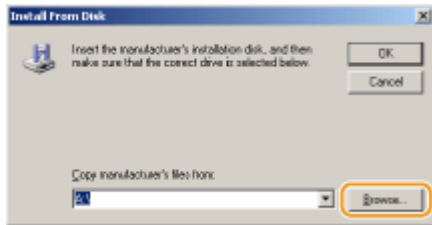
8 **Specify the folder where the printer drivers are contained, select the INF file, and then click [Open].**
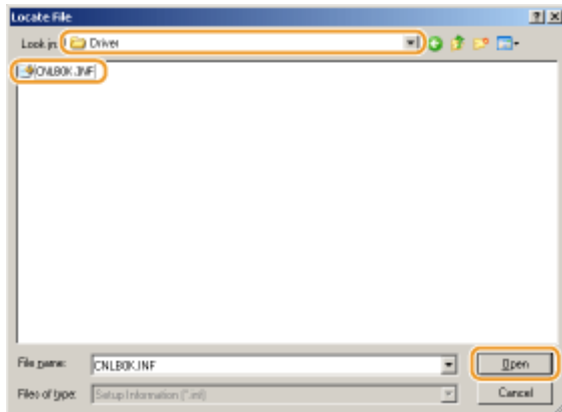
- Specify the folder as shown below according to the operating system of your computer.

  32-bit operating systems
  Select [UFR II]-your language-[32BIT]-[Driver] folder on the User Software DVD-ROM.

  64-bit operating systems
  Select [UFR II]-your language-[x64]-[Driver] folder on the User Software DVD-ROM.

NOTE:

If using the IPP authentication function

- When you are prompted to enter the password, enter the user name and password, and click [OK]. ○ **Configuring Printing Protocols and WSD Functions(P. 200)**

9 **Proceed with the setting procedure by following the on-screen instructions.**

⮩ The printer driver is installed and you can print via IPP/IPPS.

LINKS

○**Setting Up Print Server(P. 215)**

Setting Up Print Server

0YS1-03A

With a print server, you can reduce the load on the computer that you print from. The print server also enables each computer to install printer drivers over the network, which saves you the trouble of installing printer drivers on each computer by using the DVD-ROM. To set up a computer on the network as a print server, configure the settings for sharing the printer.

IMPORTANT

- To perform the following procedure, log on to your computer with an administrator account.

- You may be unable to install printer drivers over the network depending on the operating system and the bit architecture (32-bit or 64-bit) of the print server and client computers.

- When implementing a print server in a domain environment, consult your Network Administrator.

NOTE

To carry out Department ID Management when using a print server

- Canon Driver Information Assist Service must be added during the printer driver installation. For more information, see the Printer Driver Installation Guide.

1 Open the printer folder. ◖Displaying the Printer Folder(P. 662)

2 Right-click your printer icon and click [Printer properties] or [Properties].
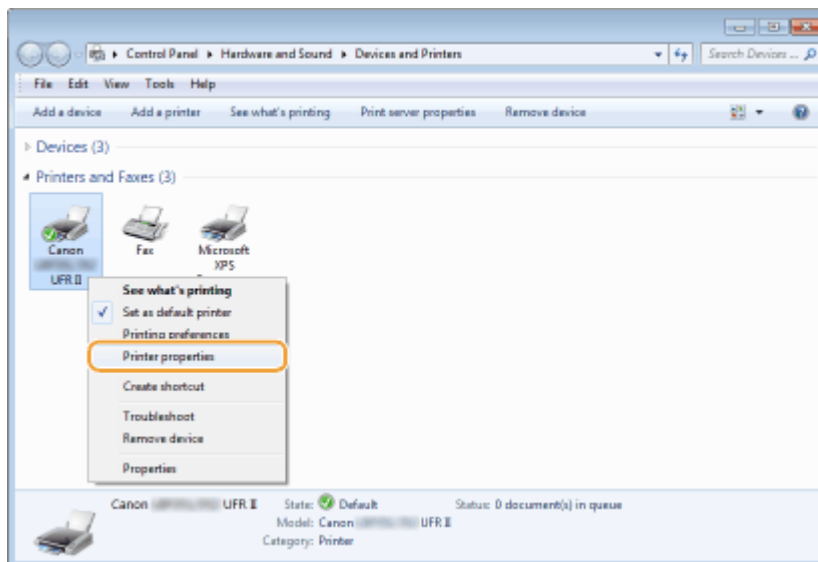
3 Click the [Sharing] tab, select [Share this printer], and enter the share name of the machine.
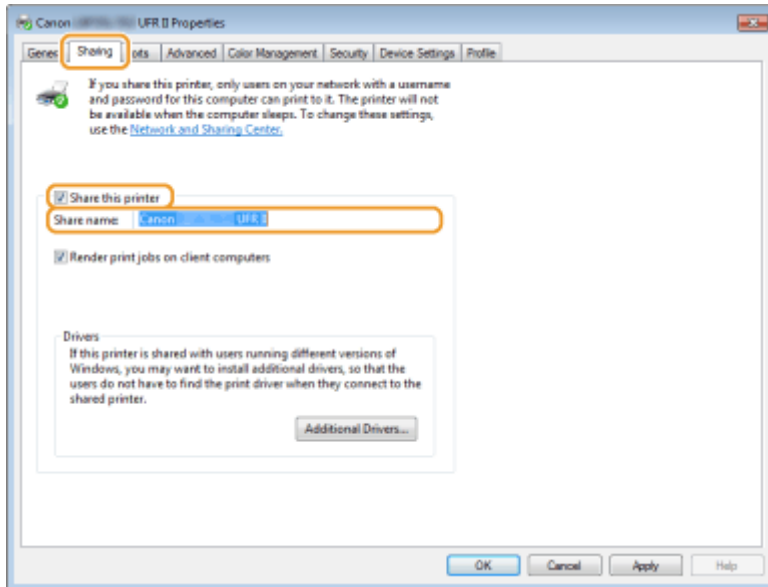
NOTE:

When [Change Sharing Options] is displayed

● Click [Change Sharing Options].
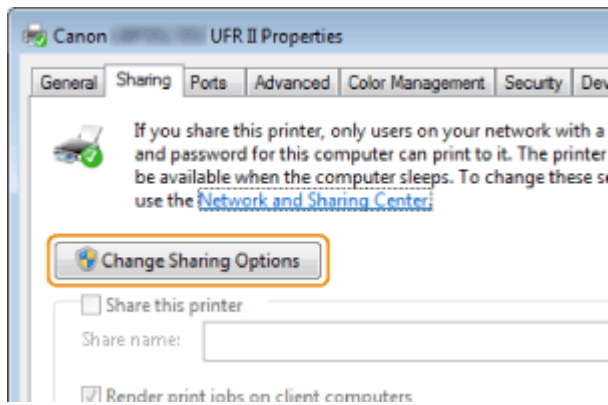
4 **Install additional drivers as necessary.**

● This operation is required if you want to install printer drivers in other computers running a different bit architecture via the print server.

1 Click [Additional Drivers].

**2** Select the check box for the bit architecture that other computers are running, and click [OK].
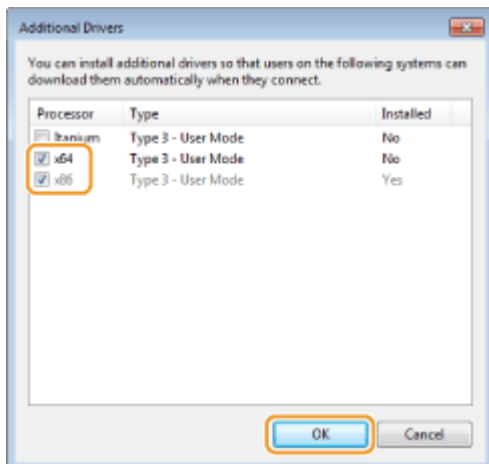
● Select additional drivers from the following, according to the operating system of the print server.

Print server	Select the check box for
32-bit operating systems	[x64]
64-bit operating systems	● **Windows Server 2003** [Windows 2000, Windows XP and Windows Server 2003] under [Version] ● **Windows Vista/7/8/10/Server 2008/Server 2012** [x86] under [Processor]

NOTE:

- If you do not know whether your Windows Vista/7/8/10/Server 2008/Server 2012 is a 32-bit or 64-bit operating system, see ◉**Checking the Bit Architecture(P. 664)** .

3 Insert the User Software DVD-ROM into the drive on the computer, and click [Browse].

4 Specify the folder that contains additional drivers, select the INF file, and then click [Open].
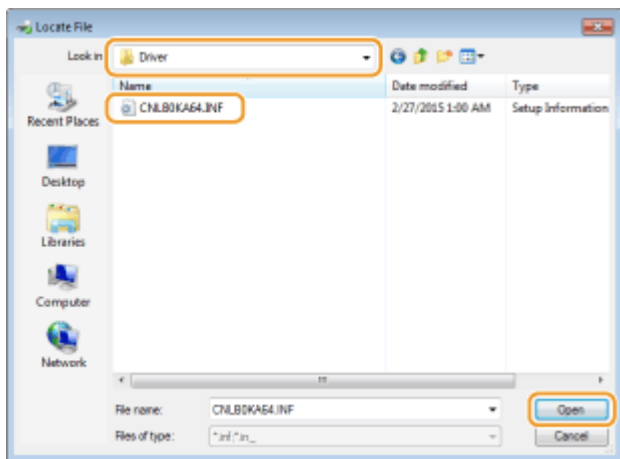
- Select the folder as shown below according to the operating system of the print server.

If the print server runs a 32-bit operating system

Select [UFR II]-your language-[x64]-[Driver] folder on the User Software DVD-ROM.

If the print server runs a 64-bit operating system

Select [UFR II]-your language-[32BIT]-[Driver] folder on the User Software DVD-ROM.

5 Click [OK].

➠ Installation of the additional drivers starts. Wait until the [Sharing] tab is displayed back.

NOTE:

When [User Account Control] is displayed

● Click [Yes].

5 Click [OK].

■Installing Printer Drivers on a Computer via the Print Server

1 **Locate the shared printer in the print server.** ◗**Displaying Shared Printers in the Print Server(P. 663)**

2 **Double-click the shared printer.**

3 **Follow the on-screen instructions to install the printer drivers.**

LINKS

◗**Printing from a Computer(P. 71)**

Configuring the Machine for Your Network Environment

The configuration of a network varies depending on the purpose of the network. The machine has been designed to be compatible with as many network configurations as possible, and it is equipped with a variety of technologies. Consult your Network Administrator and set a configuration to suit your network environment.
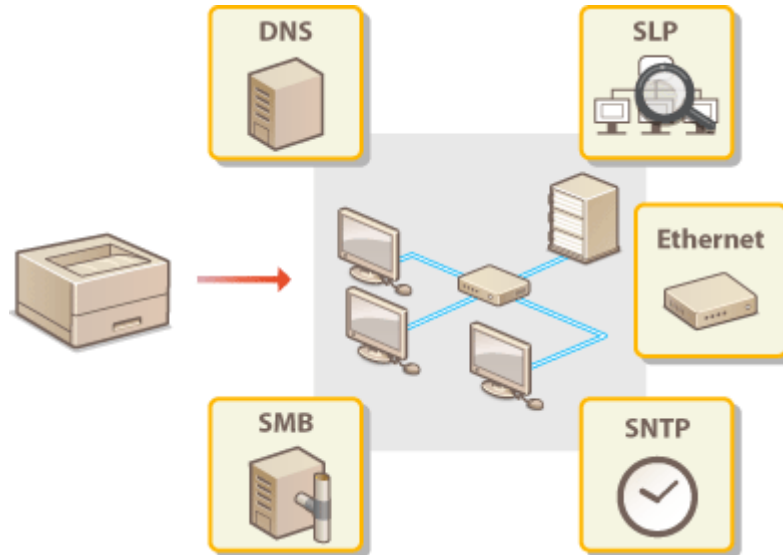
Configuring Ethernet Settings

0YS1-03E
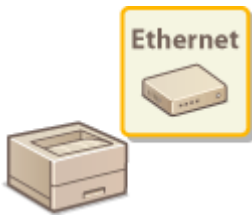
Ethernet is a standard for communicating data in a local area network (LAN). You can set the communication mode (half-duplex/full-duplex) and the Ethernet type (10BASE-T/100BASE-TX/1000BASE-T). In general, the machine can be used without changing the defaults (○**Ethernet Driver(P. 395)**), but you can change these settings to suit your network environment.

1 Press ▶ (Settings).

2 Use ▲ / ▼ to select <Network>, and press [OK].

● When a message appears, press [OK].

3 Select <Ethernet Driver> ▶ <Auto Detect>.

4 Select whether to configure Ethernet settings automatically or manually.
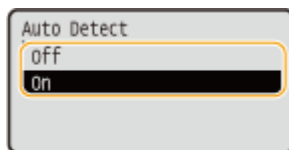
■**Configuring Ethernet settings automatically**

Select <On> and press [OK]. The machine detects and automatically sets the communication mode and the Ethernet type that can be used.

■**Configuring Ethernet settings manually**

1 Select <Off>, and press [OK].

2 Select the communication mode.

● Select <Communication Mode> ▶ [OK] ▶ Select <Half Duplex> or <Full Duplex> ▶ [OK]

ⓐ **<Half Duplex>**
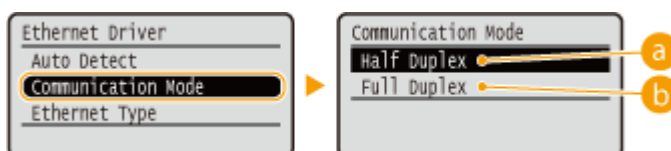
Alternately sends and receives communication data. Select when the machine is connected to a networking device using half duplex.

ⓑ **<Full Duplex>**

Simultaneously sends and receives communication data. Use this setting for most environments.

3 Select the Ethernet type.

- Select <Ethernet Type> ▶ [OK] ▶ Select the Ethernet type ▶ [OK]

```
Ethernet Driver          Ethernet Type
Auto Detect              10 Base-T
Communication Mode       100 Base-TX
Ethernet Type            1000 Base-T
```
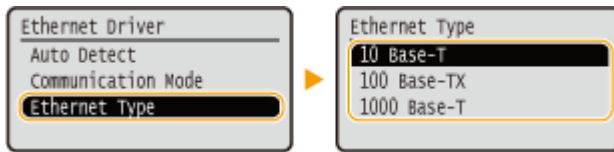
NOTE:

- When you select <1000 Base-T>, the setting for <Communication Mode> is changed to <Full Duplex>.

5 **Perform a hard reset.** ◗**Performing a Hard Reset(P. 499)**

➠ The settings are enabled after the hard reset is performed.

LINKS

◗**Setting a Wait Time for Connecting to a Network(P. 222)**

Setting a Wait Time for Connecting to a Network

0YS1-03F

When a network is designed to enjoy redundant connectivity with multiple switching hubs or bridges, it must have a mechanism to prevent packets from looping. One effective solution is to define the role of each switch port. However, communication may still be disrupted for several tens of seconds immediately after you change the way that network devices are connected, or if you add a new device. If this type of problem occurs, set a wait time for connecting to the network.

1 Press ▶ (Settings).

2 Use ▲ / ▼ to select <Network>, and press OK.

- When a message appears, press OK.

3 Select <Wait Time at Startup>, and press OK.

4 Enter the wait time in seconds, and press OK.

- Use the numeric keys to enter the time.

```
Wait Time at Startup
            ▲
        [   0] sec.

        (0-300)
```

5 Perform a hard reset. ◉Performing a Hard Reset(P. 499)

➠ The settings are enabled after the hard reset is performed.

LINKS

◉**Configuring Ethernet Settings(P. 220)**

Configuring DNS

0YS1-03H

DNS (Domain Name System) provides a service for name resolution that associates a host (or domain) name with an IP address. Configure the DNS, mDNS or DHCP option settings as necessary. Note that the procedures for configuring DNS are different for IPv4 and IPv6.

1 **Start the Remote UI and log on in Management Mode.** ▶**Starting Remote UI(P. 336)**

2 **Click [Settings/Registration].**
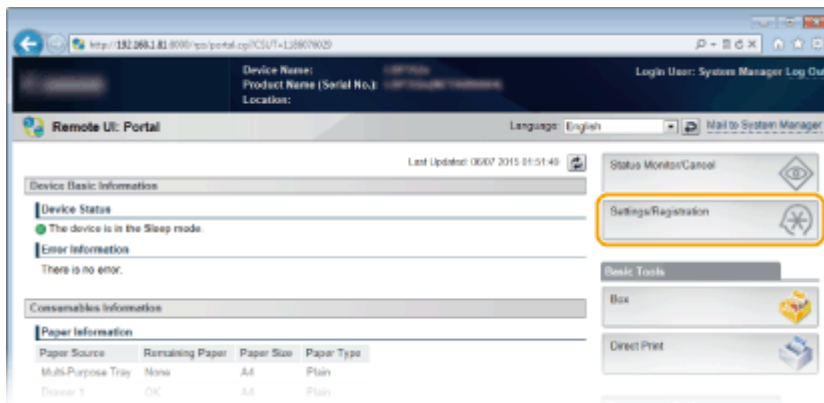
3 **Click [Network] ▶ [TCP/IP Settings].**
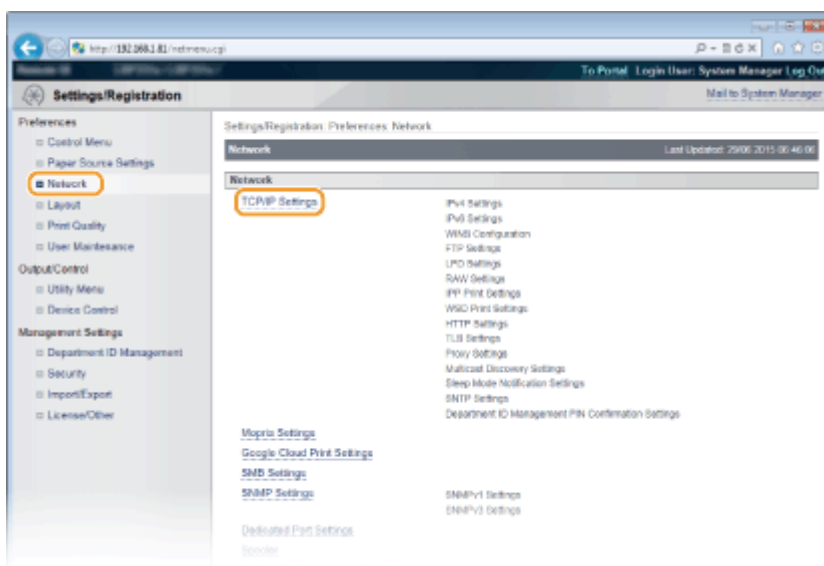
4 **Configure DNS settings.**

223

■Configuring IPv4 DNS

1 Click [Edit] in [IPv4 Settings].

2 Configure IPv4 DNS settings.
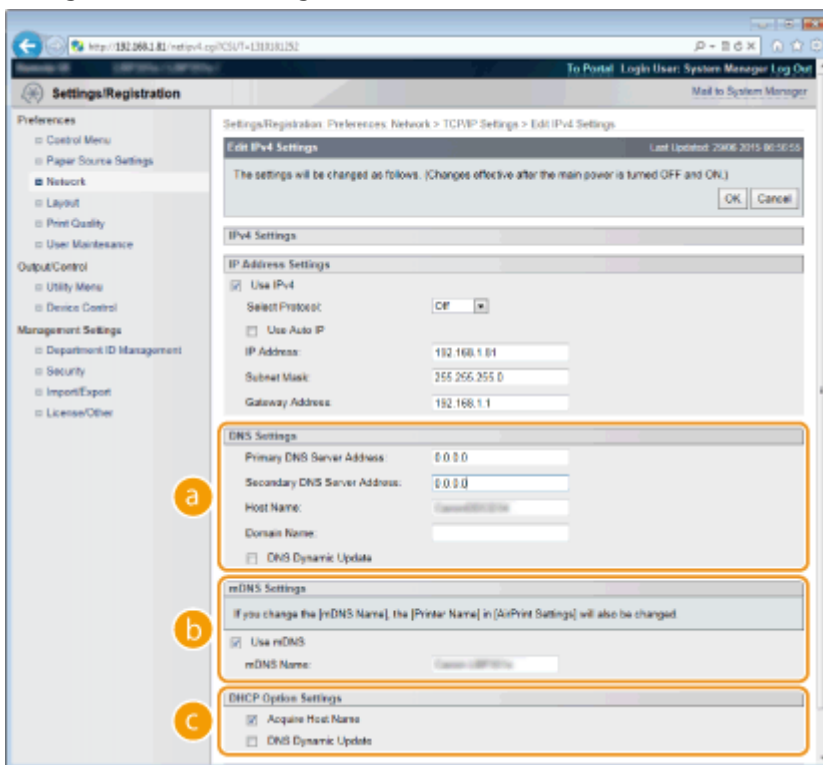
ⓐ **[DNS Settings]**

[Primary DNS Server Address]
Enter the IP address of a DNS server. You can also set the IP address from the operation panel (●
IPv4 Settings(P. 379)).

[Secondary DNS Server Address]
Enter the IP address of a secondary DNS server, if any. You can also set the IP address from the
operation panel (●**IPv4 Settings(P. 379)**).

[Host Name]
Enter up to 47 alphanumeric characters for the host name of the machine that is to be registered to
the DNS server.

[Domain Name]
Enter up to 47 alphanumeric characters for the name of the domain the machine belongs to, such
as "example.com."

[DNS Dynamic Update]

Select the check box to dynamically update the DNS records whenever the machine's IP address is changed.

b **[mDNS Settings]**

[Use mDNS]
Adopted by Bonjour, mDNS (multicast DNS) is a protocol for associating a host name with an IP address without using DNS. Select the check box to enable mDNS and enter the mDNS name in the [mDNS Name] text box using up to 63 characters. This check box can only be selected when the [Use IPv4] check box is selected.

c **[DHCP Option Settings]**

[Acquire Host Name]
Select the check box to enable Option 12 to obtain the host name from the DHCP server. You can also specify whether to obtain a host name from the operation panel (◯**IPv4 Settings(P. 379)**).

[DNS Dynamic Update]
Select the check box to enable Option 81 to dynamically update the DNS records through the DHCP server. You can also specify whether to perform DNS dynamic update from the operation panel (◯ **IPv4 Settings(P. 379)**).

[Acquire DNS Server Address]
Select the check box to enable Option 6 to obtain a DNS server address from the DHCP server.

[Acquire Domain Name]
Select the check box to enable Option 15 to obtain a domain name from the DHCP server.

[Acquire WINS Server Address]
Select the check box to enable Option 44 to obtain a WINS server address from the DHCP server.

3 Click [OK].
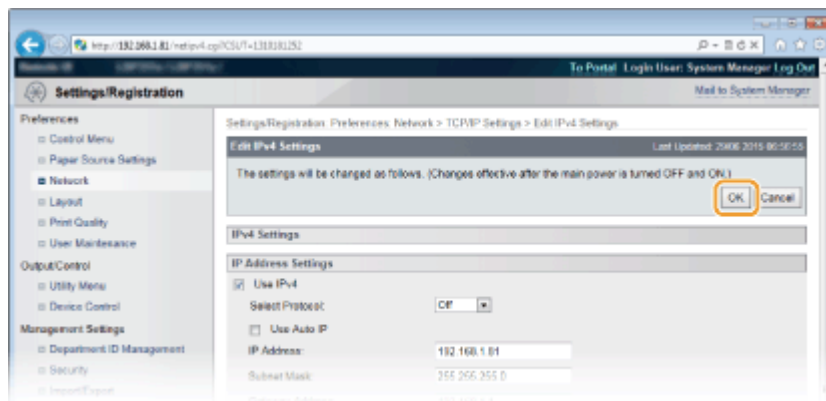
■**Configuring IPv6 DNS**

1 Click [Edit] in [IPv6 Settings].
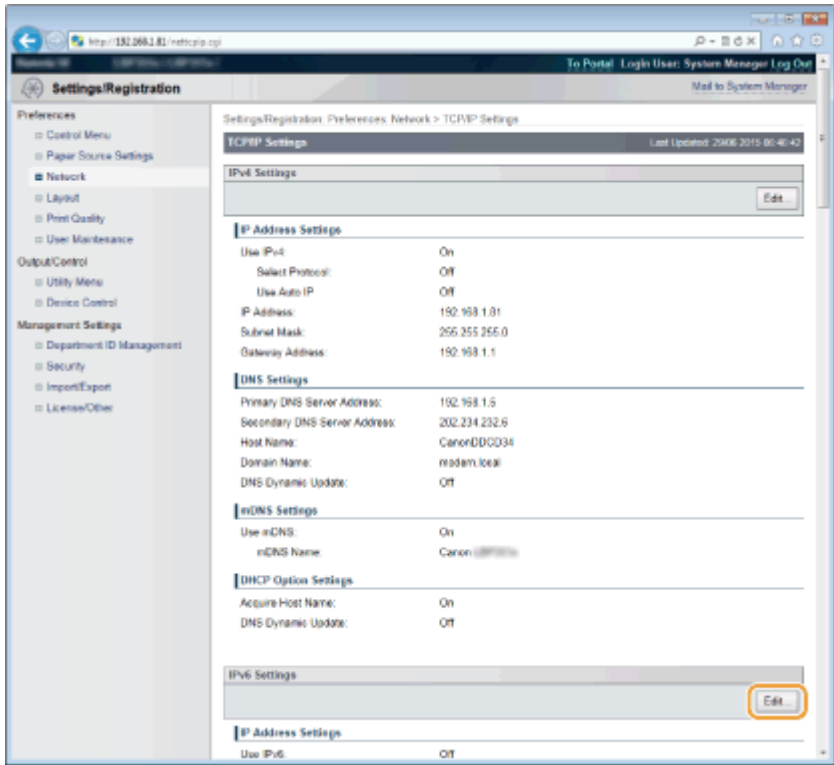
2 Configure IPv6 DNS settings.

- The [Use IPv6] check box must be selected to configure the settings. ●**Setting IPv6 Addresses(P. 195)**
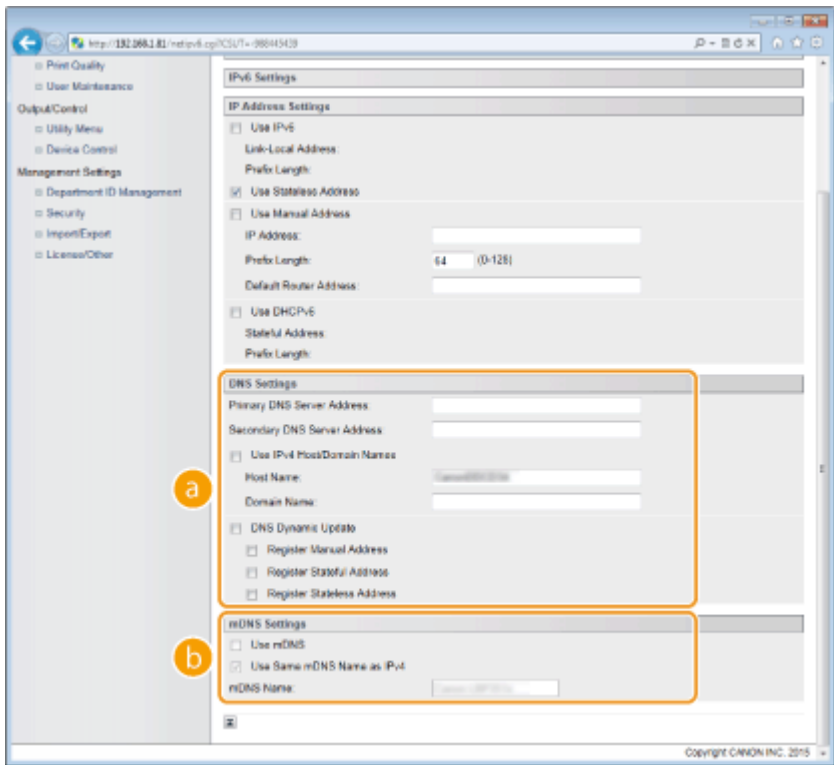
a **[DNS Settings]**

[Primary DNS Server Address]
Enter the IP address of a DNS server. You cannot enter an address that starts with "ff" (or multicast address), the address of "0000::0000" (all zeros), or an address that starts with "0:0:0:0:0:ffff" or "0:0:0:0:0:0".

[Secondary DNS Server Address]

Enter the IP address of a secondary DNS server, if any. You cannot enter an address that starts with "ff" (or multicast address), the address of "0000::0000" (all zeros), or an address that starts with "0:0:0:0:0:ffff" or "0:0:0:0:0:0".

[Use IPv4 Host/Domain Names]
Select the check box to use the same host and domain names as in IPv4.

[Host Name]
Enter up to 47 alphanumeric characters for the host name of the machine that is to be registered to the DNS server.

[Domain Name]
Enter up to 47 alphanumeric characters for the name of the domain the machine belongs to, such as "example.com."

[DNS Dynamic Update]
Select the check box to dynamically update the DNS records whenever the machine's IP address is changed. To specify the type(s) of addresses you want to register to the DNS server, select the check box for [Register Manual Address], [Register Stateful Address], or [Register Stateless Address].

b [mDNS Settings]/[DHCP Option Settings]

[Use mDNS]
Adopted by Bonjour, mDNS (multicast DNS) is a protocol for associating a host name with an IP address without using DNS. Select the check box to enable mDNS. This check box can only be selected when the [Use IPv6] check box is selected.

[Use Same mDNS Name as IPv4]
Select the check box to use the same mDNS name as that set in IPv4. To set a different name, clear the check box and enter the mDNS name in the [mDNS Name] text box using up to 63 characters.

[Acquire DNS Server Address]
Select the check box to enable Option 23 to obtain a DNS server address from the DHCP server.

[Acquire Domain Name]
Select the check box to enable Option 24 to obtain a domain name from the DHCP server.
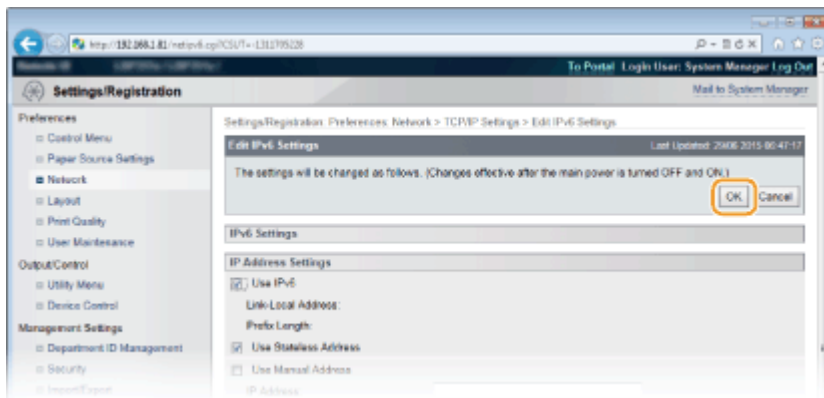
3 Click [OK].

5 Perform a hard reset.

● Click [Device Control], select [Hard Reset], and then click [Execute].
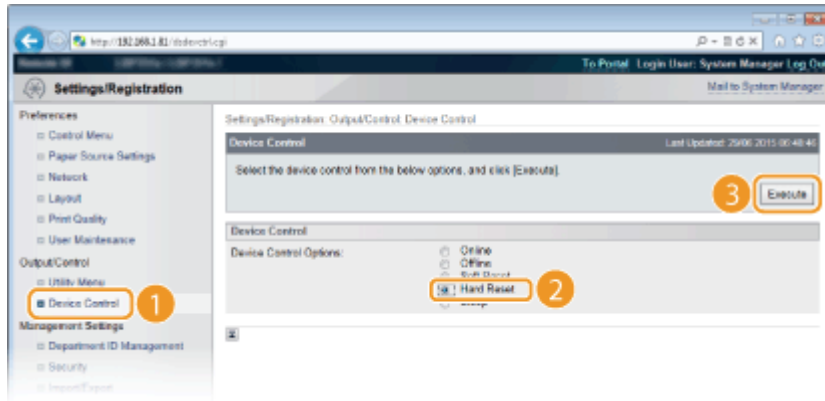
➡ The settings are enabled after the hard reset is performed.

LINKS

❯Setting IPv4 Address(P. 191)
❯Setting IPv6 Addresses(P. 195)
❯Network Status Print(P. 588)

Configuring WINS

0YS1-03J

Windows Internet Name Service (WINS) is a name resolution service that associates a NetBIOS name (a computer or printer name in an SMB network) with an IP address. To enable WINS, the WINS server must be specified.
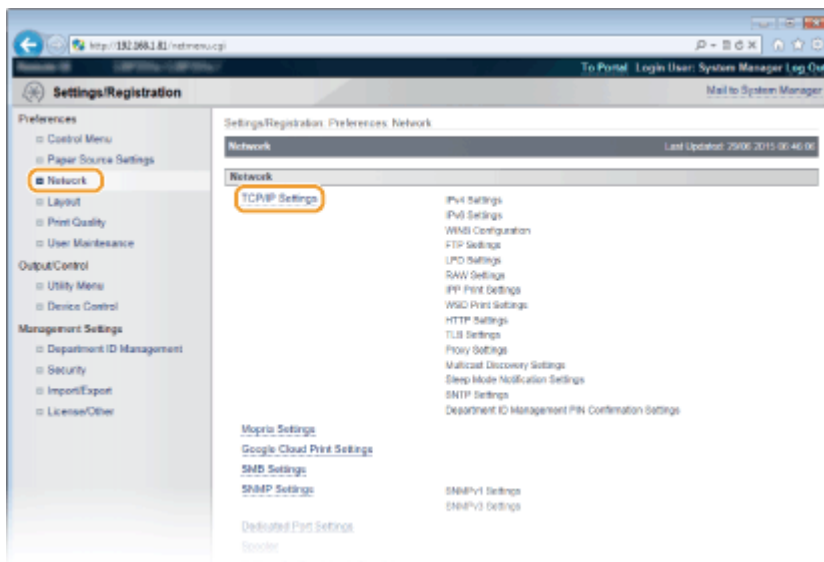
IMPORTANT

- The function is not available in an IPv6 network.

1 Start the Remote UI and log on in Management Mode. **Starting Remote UI(P. 336)**

2 Click [Settings/Registration].
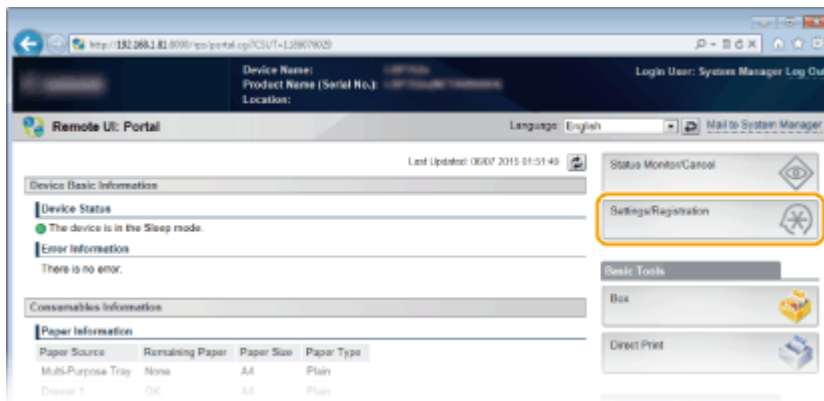
3 Click [Network] ▶ [TCP/IP Settings].

4 Click [Edit] in [WINS Configuration].
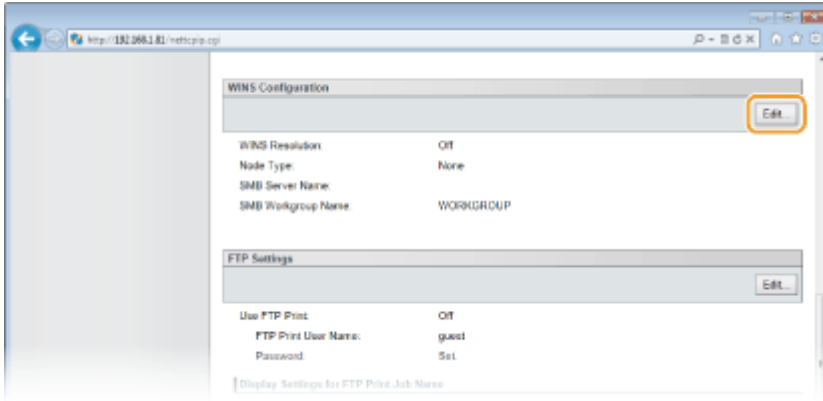
5 Select the [WINS Resolution] check box, specify the required settings, and click [OK].
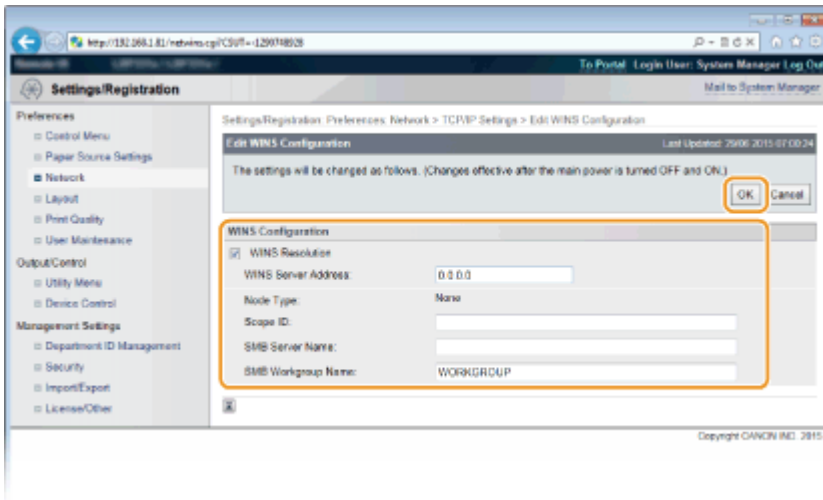
[WINS Resolution]
Select the check box to use WINS for name resolution. When not using WINS, clear the check box.

[WINS Server Address]
Enter the IP address of the WINS server.

IMPORTANT:

- If the IP address of the WINS server is obtained from a DHCP server, the obtained IP address overrides the IP address entered in the [WINS Server Address] text box.

[Scope ID]
When dividing the network into several groups with scope IDs (identifiers for groups of devices in the network), you can enter up to 64 characters depending on the character type. Leave the text box blank if there is no scope ID set for your computer.

[SMB Server Name]
When registering the machine in the WINS server, you can specify the server name in the SMB network by entering up to 16 characters depending on the character type.

NOTE:

- You cannot use spaces.

- A server name set in [Server Name] under [SMB Settings] is automatically used for [SMB Server Name], if any. A change to the server name in [SMB Server Name] is also applied to [Server Name] under [SMB Settings].

[SMB Workgroup Name]
When registering the machine in the WINS server, you can specify the name of the work group to which the machine belongs by entering up to 16 characters depending on the character type.

NOTE:

● You cannot use spaces.

● A workgroup name set in [Workgroup Name] under [SMB Settings] is automatically used for [SMB Workgroup Name], if any. A change to the workgroup name in [SMB Workgroup Name] is also applied to [Workgroup Name] under [SMB Settings].

6 **Perform a hard reset.**

● Click [Device Control], select [Hard Reset], and then click [Execute].
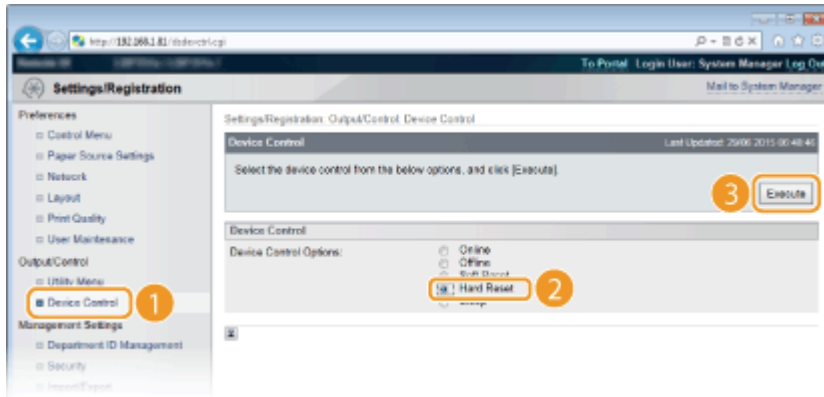
➠ The settings are enabled after the hard reset is performed.

NOTE

Selecting settings from the operation panel

● You can also enable or disable the WINS settings from the setting menu of the operation panel. ○**WINS Resolution(P. 383)**

LINKS

○**Configuring SMB(P. 245)**

Configuring SNTP

0YS1-03K
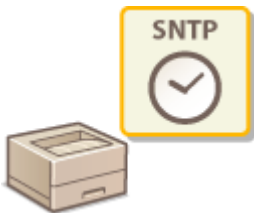
Simple Network Time Protocol (SNTP) enables you to adjust the system clock by using the time server on the network. When you use SNTP, the system checks the time server periodically, so that the system clock is always accurate.

NOTE

- The SNTP of the machine supports both NTP (version 3) and SNTP (versions 3 and 4) servers.

1 Start the Remote UI and log on in Management Mode. ▶Starting Remote UI(P. 336)

2 Click [Settings/Registration].
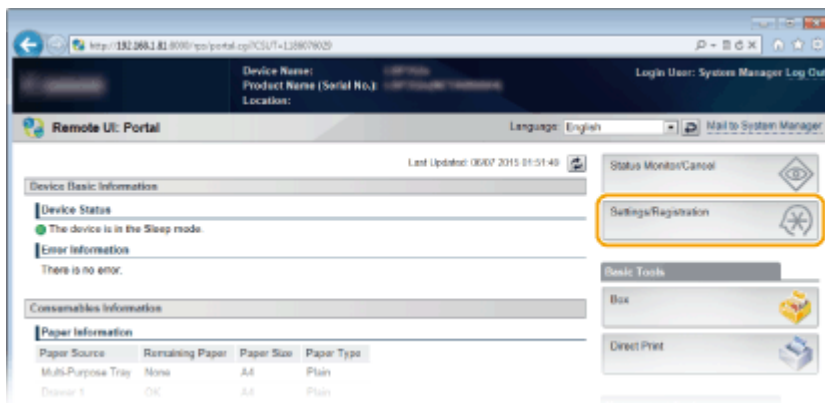
3 Click [Network] ▶ [TCP/IP Settings].
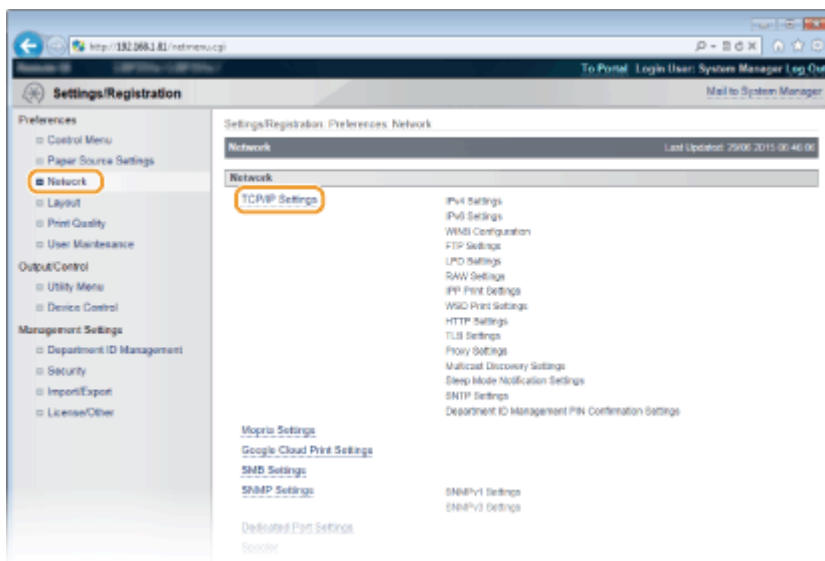
4 Click [Edit] in [SNTP Settings].
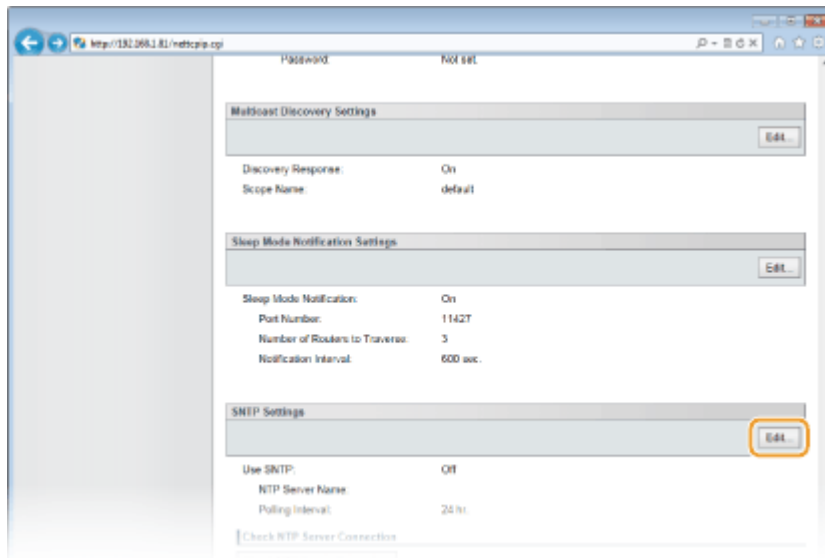
5 Select the [Use SNTP] check box and specify the required settings.
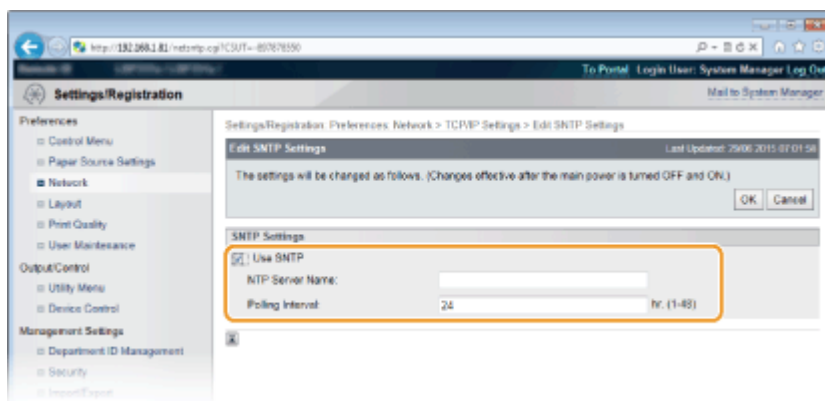
[Use SNTP]
Select the check box to use SNTP for synchronization. If you do not want to use SNTP, clear the check box.

[NTP Server Name]
Enter the IP address of the NTP or the SNTP server. If DNS is available on the network, you can enter "<host name>.<domain name>" (or FQDN) of up to 255 alphanumeric characters instead (example: ntp.example.com).

[Polling Interval]
Specify the interval between one synchronization and the next. Specify an interval from 1 to 48 hours.

6 Click [OK].

7 Perform a hard reset.

- Click [Device Control], select [Hard Reset], and then click [Execute].
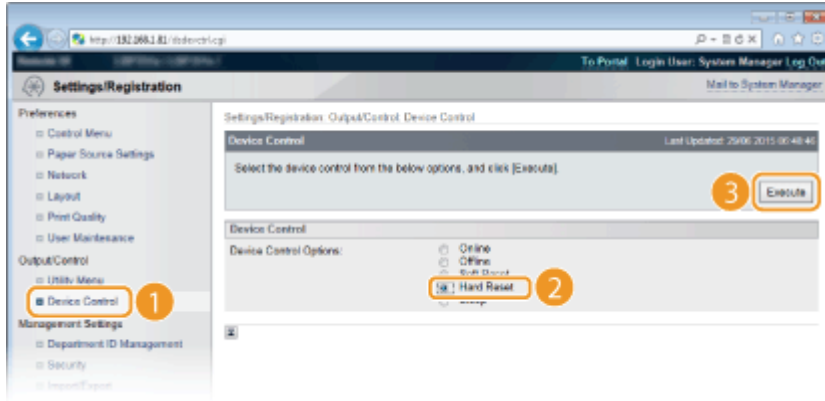
➠ The settings are enabled after the hard reset is performed.

NOTE

Testing communication with the NTP/SNTP server

- You can view communication status with the registered server by clicking [Settings/Registration] ▶ [Network] ▶ [TCP/IP Settings] and then clicking [Check NTP Server Connection] in [SNTP Settings] that appears. If a proper connection has been established, the result is displayed as shown below. Note that this operation does not adjust the system clock.
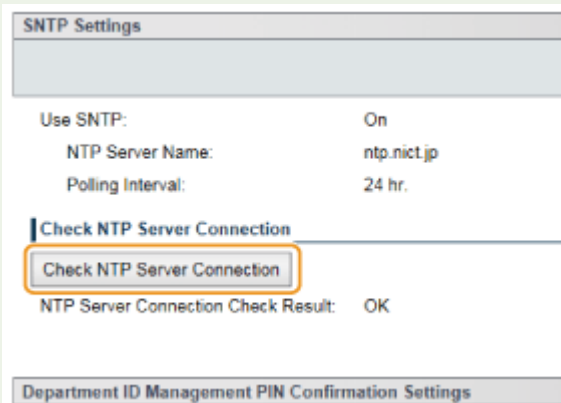
Selecting settings from the operation panel

- You can also enable or disable the SNTP settings from the setting menu of the operation panel. ◉ **SNTP(P. 388)**

Monitoring and Controlling the Machine with SNMP

0YS1-03L

Simple Network Management Protocol (SNMP) is a protocol for monitoring and controlling communication devices in a network by using Management Information Base (MIB). The machine supports SNMPv1 and security-enhanced SNMPv3. You can check the status of the machine from a computer when you print documents or use the Remote UI. You can enable either SNMPv1 or SNMPv3, or both at the same time. Specify the settings for each version to suit your network environment and the purpose of use.
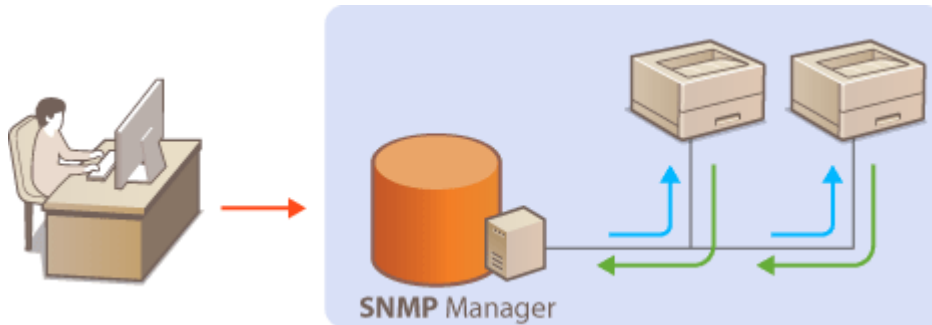
SNMPv1

SNMPv1 uses information called "community" to define the scope of SNMP communication. Because this information is exposed to the network in plain text, your network will be vulnerable to attacks. If you want to ensure network security, disable SNMPv1 and use SNMPv3.

SNMPv3

With SNMPv3, you can implement network device management that is protected by robust security features. Note that TLS must be enabled for the Remote UI before configuring SNMPv3 (**Using TLS for Encrypted Communications(P. 297)**).

> **NOTE**
>
> - The machine does not support the trap notification feature of SNMP.
>
> - SNMP management software, when installed on a computer on the network, enables you to configure, monitor, and control the machine remotely from the computer. For more information, see the instruction manuals for your management software.

1 Start the Remote UI and log on in Management Mode. **Starting Remote UI(P. 336)**

2 Click [Settings/Registration].
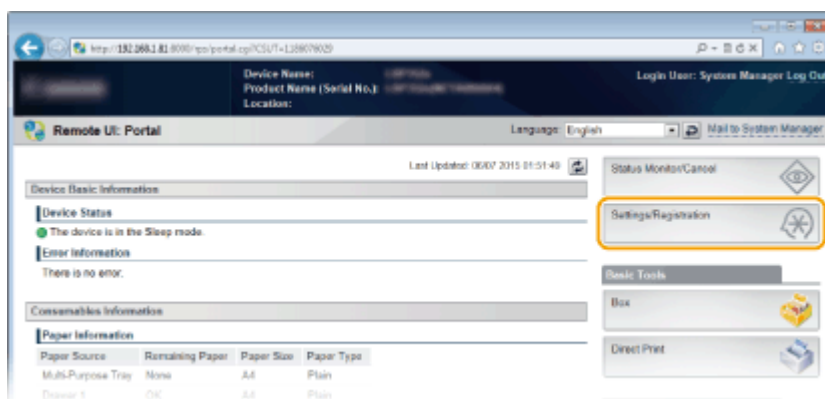
3 **Click [Network] ▶ [SNMP Settings].**
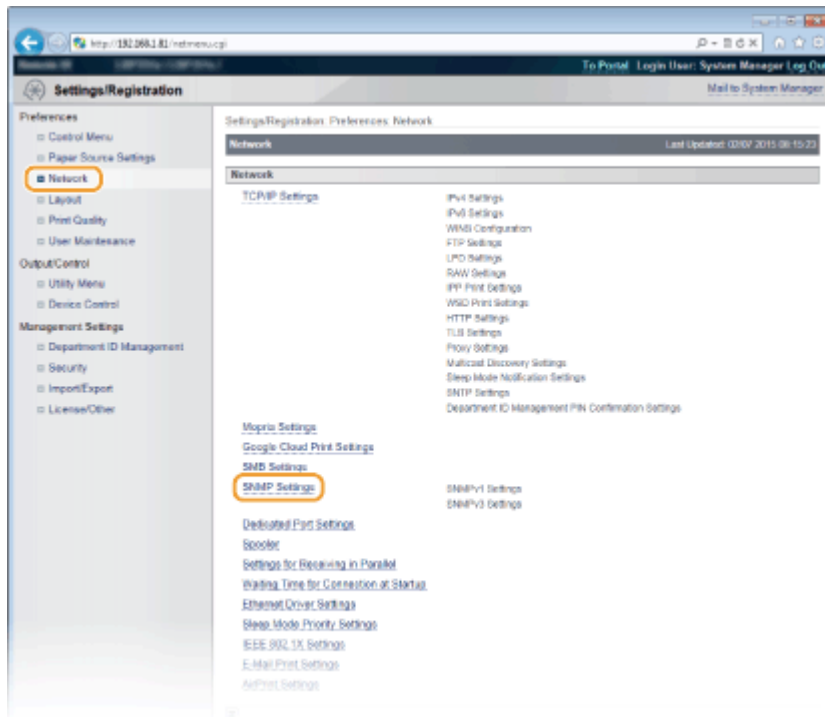
4 **Click [Edit].**
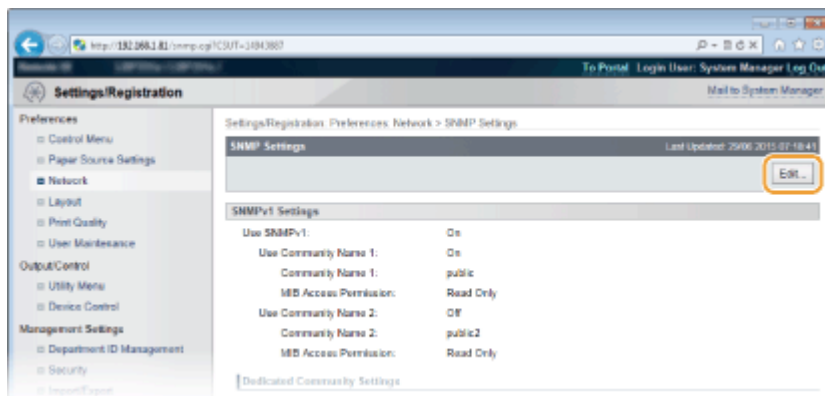
5 **Specify SNMPv1 settings.**

- If you do not need to change SNMPv1 settings, proceed to the next step.
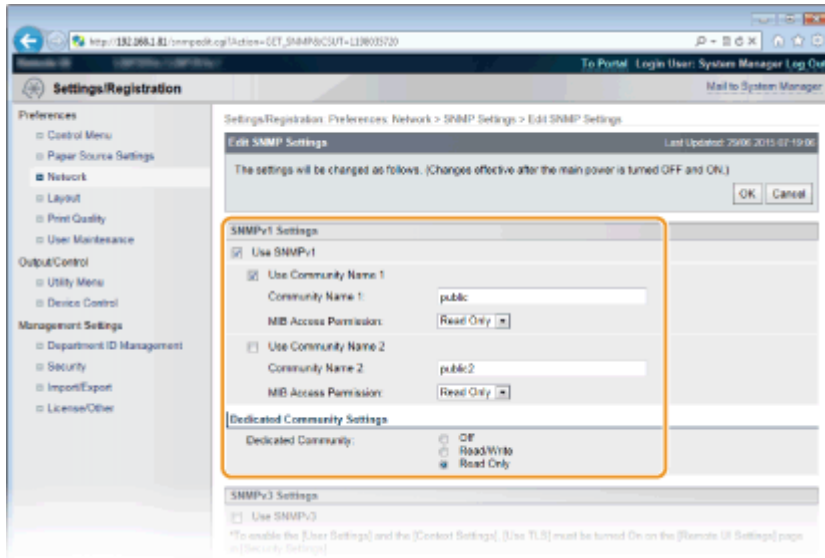
[Use SNMPv1]
Select the check box to enable SNMPv1. You can specify the rest of SNMPv1 settings only when this check box is selected.

[Use Community Name 1]/[Use Community Name 2]
Select the check box to specify a community name. If you do not need to specify a community name, clear the check box.

[Community Name 1]/[Community Name 2]
Enter up to 32 alphanumeric characters for the name of the community.

[MIB Access Permission]
For each community, select [Read/Write] or [Read Only] for the access privileges to MIB objects.

[Read/Write]	Permits both viewing and changing the values of MIB objects.
[Read Only]	Permits only viewing the values of MIB objects.

[Dedicated Community]
Dedicated Community is a preset community, intended exclusively for administrators using Canon software, such as imageWARE Enterprise Management Console. Select [Off], [Read/Write], or [Read Only] for the access privileges to MIB objects.

[Off]	Does not use Dedicated Community.
[Read/Write]	Permits both viewing and changing the values of MIB objects by using Dedicated Community.
[Read Only]	Permits only viewing the values of MIB objects by using Dedicated Community.

6 **Specify SNMPv3 settings.**

- If you do not need to change SNMPv3 settings, proceed to the next step.
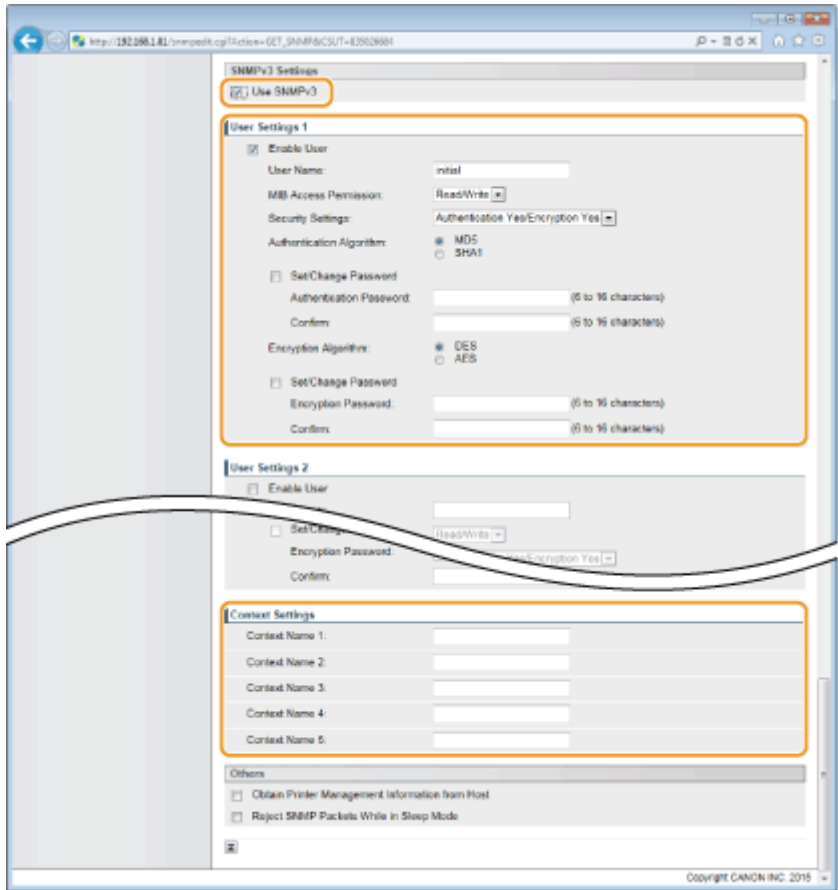
[Use SNMPv3]
Select the check box to enable SNMPv3. You can specify the rest of SNMPv3 settings only when this check box is selected.

[Enable User]
Select the check box to enable [User Settings 1] to [User Settings 5]. To disable user settings, clear the corresponding check box.

[User Name]
Enter up to 32 alphanumeric characters for the user name.

[MIB Access Permission]
Select [Read/Write] or [Read Only] for the access privileges to MIB objects.

[Read/Write]	Permits both viewing and changing the values of MIB objects.
[Read Only]	Permits only viewing the values of MIB objects.

[Security Settings]
Select [Authentication Yes/Encryption Yes], [Authentication Yes/Encryption No], or [Authentication No/Encryption No] for the desired combination of authentication and encryption settings.

[Authentication Algorithm]
Click the [Authentication Yes/Encryption Yes] or [Authentication Yes/Encryption No] for [Security Settings] for the algorithm that corresponds to your environment.

[Encryption Algorithm]
Click the [Authentication Yes/Encryption Yes] for [Security Settings] for the algorithm that corresponds to your environment.

[Set/Change Password]
To set or change the password, select the check box and enter between 6 and 16 alphanumeric characters for the password in the [Authentication Password] or [Encryption Password] text box. For confirmation, enter the same password in the [Confirm] text box. Passwords can be set independently for authentication and encryption algorithms.

[Context Name 1] to [Context Name 5]

Enter up to 32 alphanumeric characters for the context name. Up to five context names can be registered.

7 Specify Printer Management Information Acquisition Settings.

● With SNMP, the printer management information, such as printing protocols and printer ports, can be monitored and obtained regularly from a computer on the network.
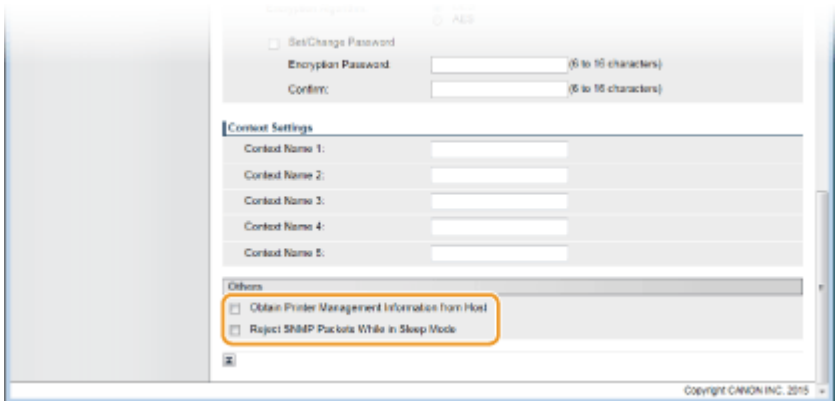
[Obtain Printer Management Information from Host]
Select the check box to enable monitoring of the printer management information of the machine via SNMP. To disable monitoring of the printer management information, clear the check box.

[Reject SNMP Packets While in Sleep Mode]
Select the check box to discard SNMP packets received during sleep mode. If you do not want to discard the packets, clear the check box.

NOTE:

● If you select the check box, applications that use the SNMP protocol, such as Canon software imageWARE Series, may be disabled to access the machine.

8 Click [OK].

9 Perform a hard reset.

● Click [Device Control], select [Hard Reset], and then click [Execute].
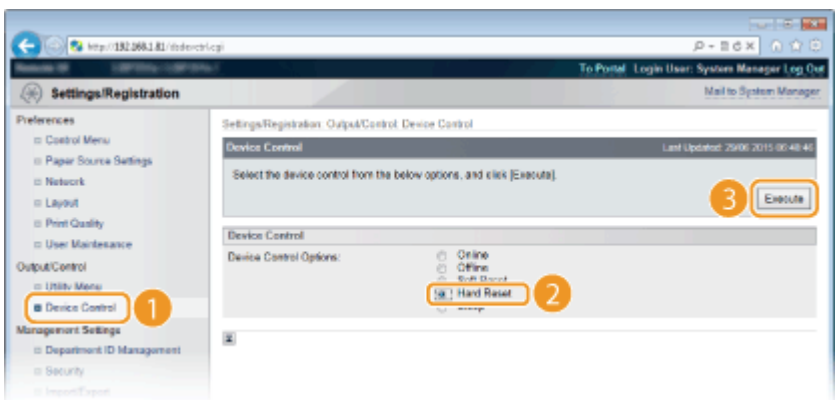
➟ The settings are enabled after the hard reset is performed.

NOTE

Disabling SNMPv1

- If SNMPv1 is disabled, some of the functions of the machine become unavailable, such as obtaining machine information via the printer driver.

Using the operation panel

- SNMP settings can also be accessed from the setting menu of the operation panel. **◯SNMP Settings(P. 391)**

Enabling Both SNMPv1 and SNMPv3

- If both versions of SNMP are enabled, it is recommended that MIB access permission in SNMPv1 be set to [Read Only]. MIB access permission can be set independently in SNMPv1 and SNMPv3 (and for each user in SNMPv3). Selecting [Read/Write] (full access permission) in SNMPv1 negates the robust security features that characterize SNMPv3 because most of the machine settings can then be controlled with SNMPv1.

LINKS

◯Using TLS for Encrypted Communications(P. 297)

Configuring Settings for Device Management Software

0YS1-03R

You can facilitate the collection and management of various information about networked devices by implementing device management software, such as imageWARE Enterprise Management Console, into the network. Information such as device settings and error logs is retrieved and distributed via the server computer. If the machine is connected to such a network, imageWARE Enterprise Management Console searches the network for the machine by using protocols such as Service Location Protocol (SLP) to gather information from the machine, including the power status. SLP settings can be specified via the Remote UI.

1 **Start the Remote UI and log on in Management Mode.** ○**Starting Remote UI(P. 336)**

2 **Click [Settings/Registration].**
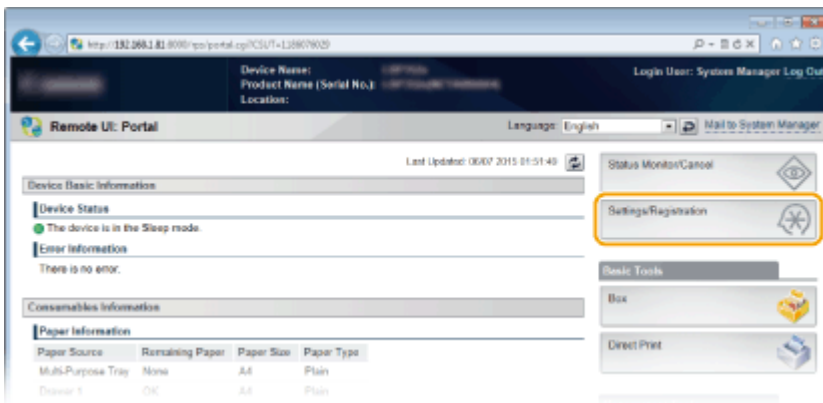
3 **Click [Network] ▶ [TCP/IP Settings].**
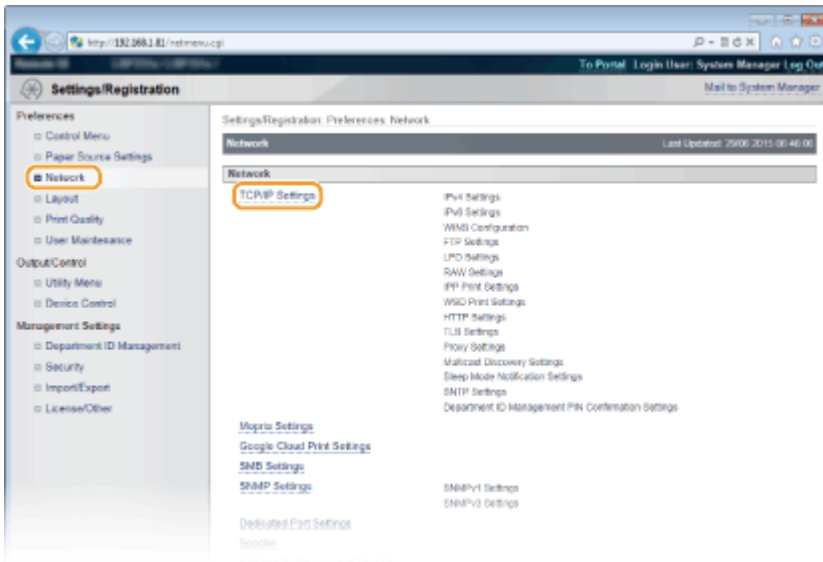
4 **Specify SLP settings.**

■**Specifying multicast device discovery**

**1** Click [Edit] in [Multicast Discovery Settings].

241
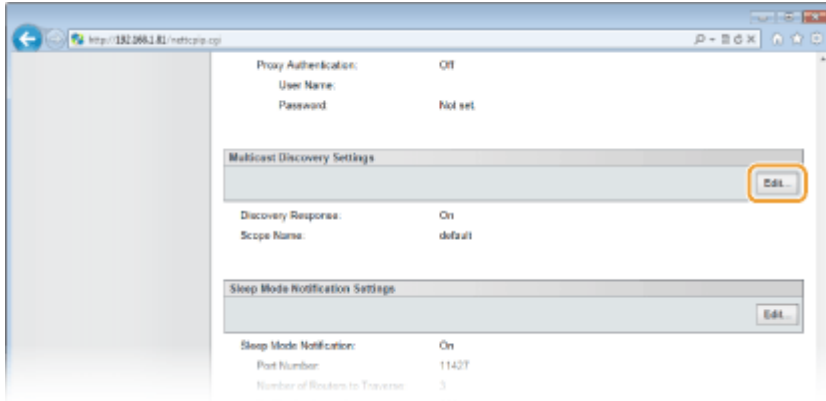
2 Select the [Respond to Discovery] check box and specify the required settings.
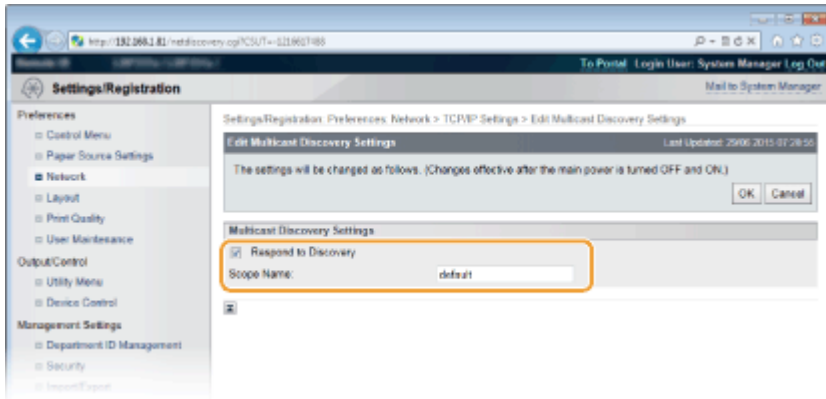
[Respond to Discovery]
Select the check box to set the machine to respond to device management software multicast discovery packets and enable monitoring by device management software. If you do not want to set the machine to respond, clear the check box.

[Scope Name]
To include the machine into a specific scope, enter up to 32 characters for the scope name.

3 Click [OK].

■Notifying a device management software of the power status of the machine

1 Click [Edit] in [Sleep Mode Notification Settings].
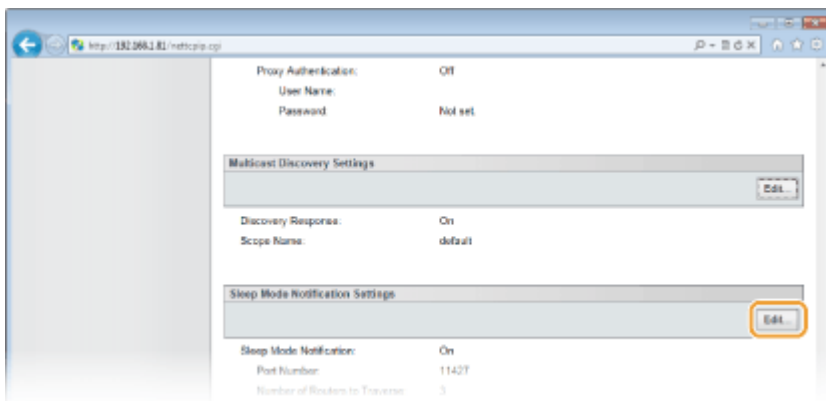
2 Select the [Notify] check box and specify the required settings.
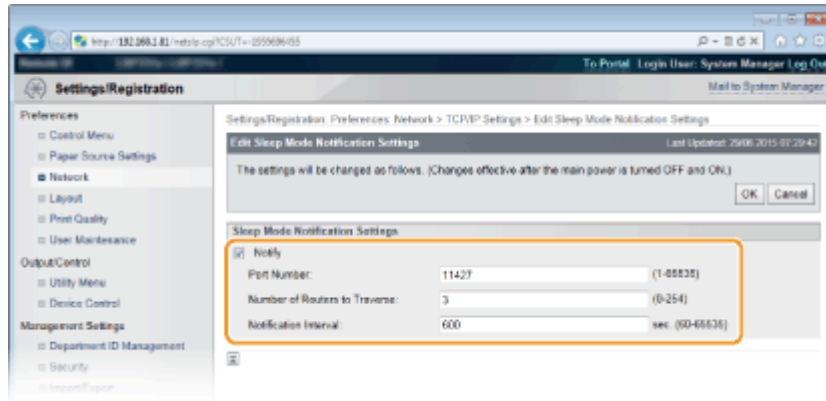
[Notify]
Select the check box to notify a device management software of the power status of the machine. When [Notify] is selected, you can expect the machine to avoid unnecessary communication during sleep mode and reduce the total power consumption.

[Port Number]
Change the port number for this function according to the network environment.

[Number of Routers to Traverse]
Specify how many routers the notification packets can pass. Enter a number from 0 to 254.

[Notification Interval]
Specify how often the machine notifies a device management software of its power status. Enter a number in seconds from 60 to 65535.

3 Click [OK].

5 Perform a hard reset.

- Click [Device Control], select [Hard Reset], and then click [Execute].
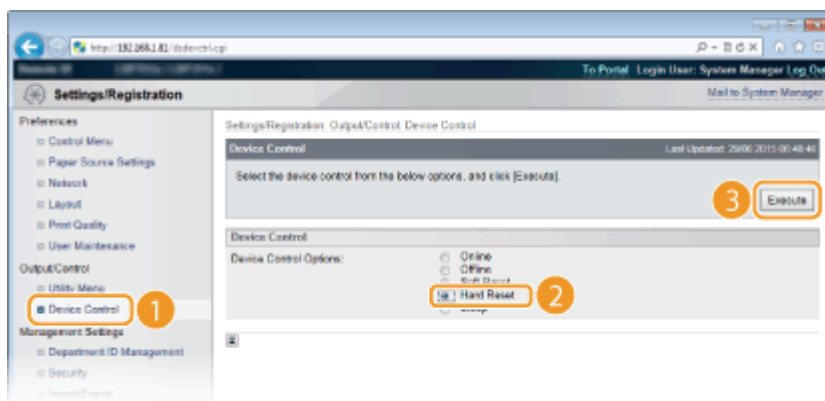
➡ The settings are enabled after the hard reset is performed.

> **NOTE**
>
> **Using the operation panel**
>
> - You can also enable or disable discovery response from the setting menu of the operation panel. ○
>   **Discovery Response(P. 388)**
>
> - Power status notification settings can also be accessed from the setting menu of the operation panel. ○
>   **Sleep Notif. Set.(P. 389)**

LINKS

Entering Sleep Mode(P. 63)

Configuring SMB

0YS1-03S

Server Message Block (SMB) is a protocol for sharing resources, such as files and printers, with more than one device in a network and used to register the machine as a shared printer on the SMB network.

NOTE

- SMB supports only NetBIOS over TCP/IP and does not support NetBEUI. Configure the IP address before configuring the SMB settings. ❍**Setting IP Addresses(P. 190)**
- SMB is enabled only when the optional SD card is installed in the machine.

1 Start the Remote UI and log on in Management Mode. ❍**Starting Remote UI(P. 336)**

2 Click [Settings/Registration].
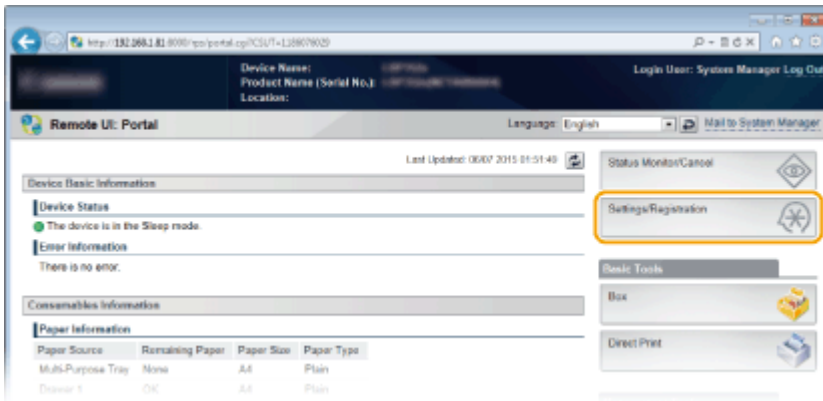
3 Click [Network] ▶ [SMB Settings].
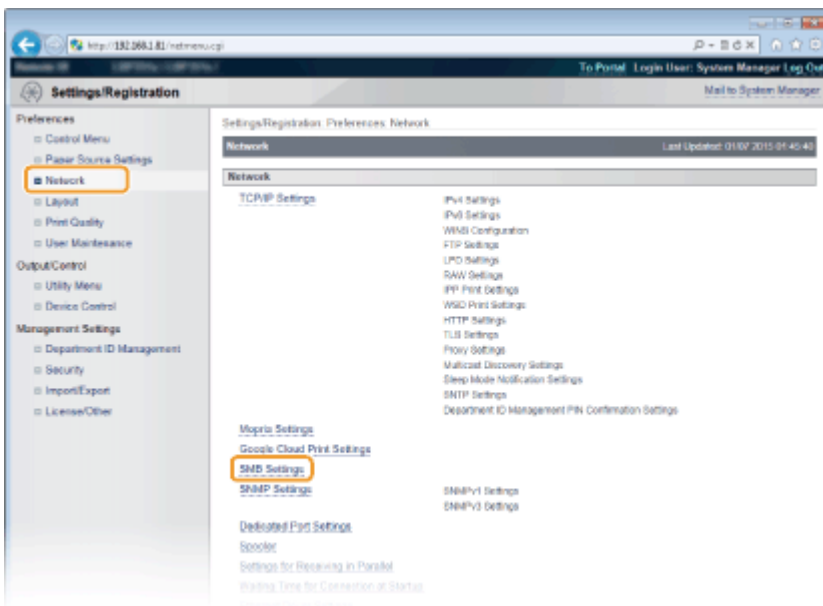
4 Click [Edit].
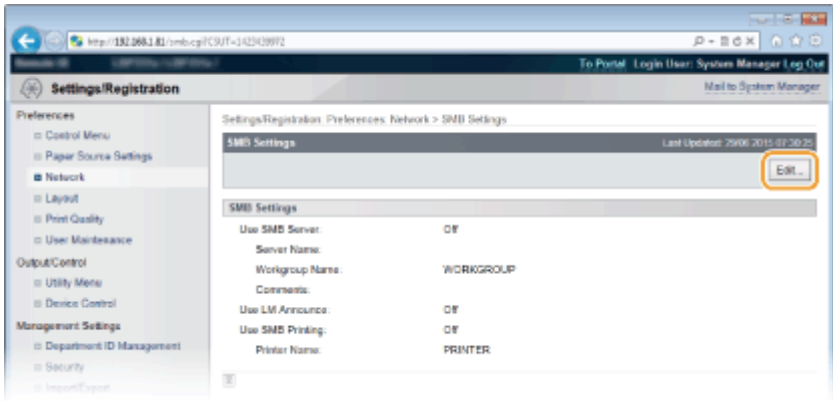
5 Select the [Use SMB Server] check box and specify the required settings.
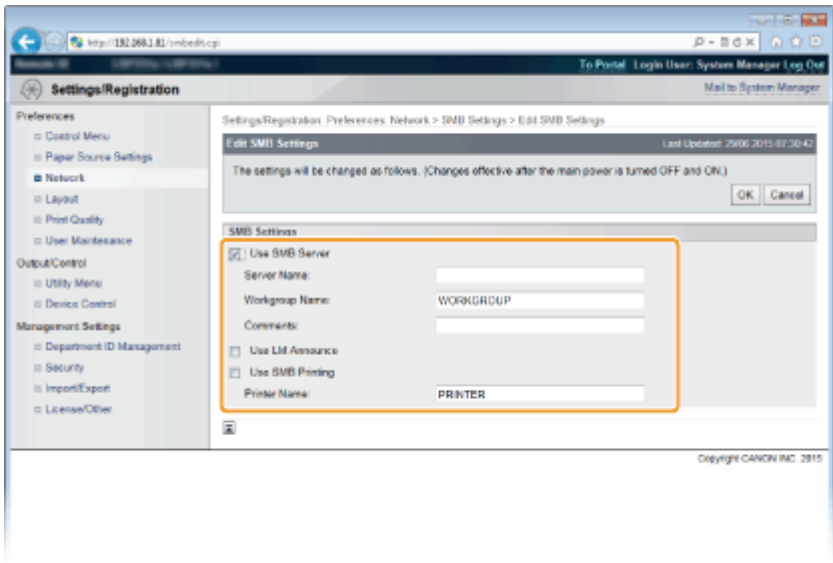
[Use SMB Server]
If you select the check box, the computer is indicated as an SMB server on the SMB network.

[Server Name]
To specify the server name that is to be displayed on the SMB network, you can enter up to 16 characters depending on the character type. The name must be different from the names of any other computers and printers on the network.

NOTE:

- You cannot use spaces.

- A server name set in [SMB Server Name] under [WINS Configuration] is automatically used for [Server Name], if any. A change to the server name in [Server Name] is also applied to [SMB Server Name] under [WINS Configuration].

[Workgroup Name]
To specify the name of the work group to which the machine belongs, you can enter up to 16 characters depending on the character type. If there is no workgroup in your network environment, create a workgroup on Windows and enter the name of the workgroup.

NOTE:

- You cannot use spaces.

- A workgroup name set in [SMB Workgroup Name] under [WINS Configuration] is automatically used for [Workgroup Name], if any. A change to the server name in [Workgroup Name] is also applied to [SMB Workgroup Name] under [WINS Configuration].

[Comments]

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To create comments on the machine as necessary, you can enter up to 192 characters depending on the character type.

[Use LM Announce]
Select the check box to notify the LAN Manager of existence of the machine. If you do not need to notify, clear the check box, reducing a network load.

[Use SMB Printing]
When using SMB printing with the machine, select the check box.

[Printer Name]
To specify the name of the machine, you can enter up to 13 characters depending on the character type.

NOTE:

- You cannot use spaces.

6 Click [OK].

7 Perform a hard reset.

- Click [Device Control], select [Hard Reset], and then click [Execute].
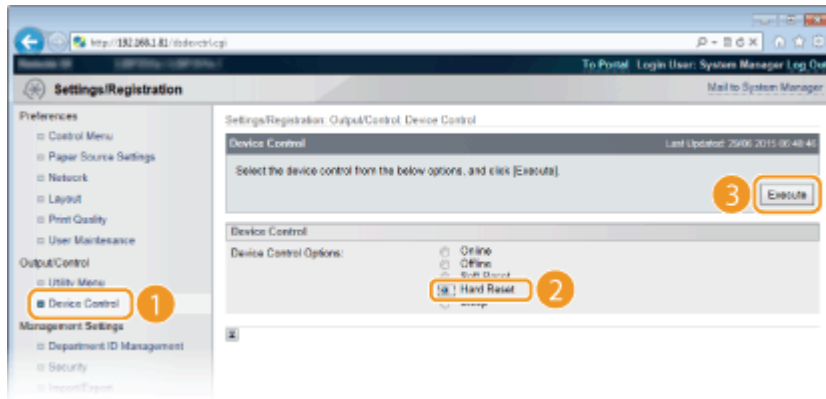
➠ The settings are enabled after the hard reset is performed.

» Continue to ◉**Configuring Settings on the Computer for Printing(P. 248) .**

NOTE

Using the operation panel

- You can also enable or disable the SMB server from the setting menu of the operation panel. ◉**SMB(P. 391)**

- You can also enable or disable SMB print from the setting menu of the operation panel. ◉**SMB(P. 391)**

LINKS

◉**Configuring WINS(P. 229)**

Configuring Settings on the Computer for Printing

0YS1-03U

Configure the connection settings and install the printer driver on the computer so that printing can be performed with the machine from the computer via SMB network.

◉**Connecting to the SMB Network(P. 248)**
◉**Installing the Printer Driver(P. 249)**

Connecting to the SMB Network

1 **Display [Local Area Connection Properties].** ◉**Displaying [Local Area Connection Properties](P. 667)**

2 **Select the [Client for Microsoft Networks] check box.**
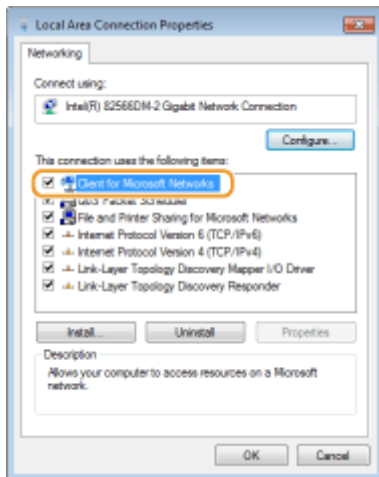
3 **Select the [Internet Protocol Version 4 (TCP/IPv4)] or [Internet Protocol] check box and click [Properties].**
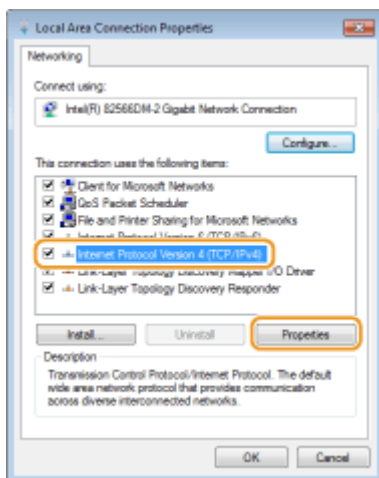
4 **Click the [General] tab ▶ [Advanced].**

248
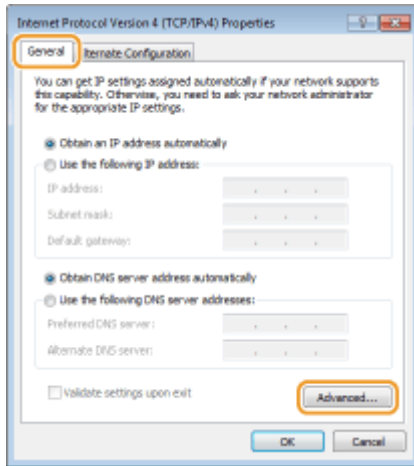
5 Click the [WINS] tab, select [Enable NetBIOS over TCP/IP], and then click [OK].
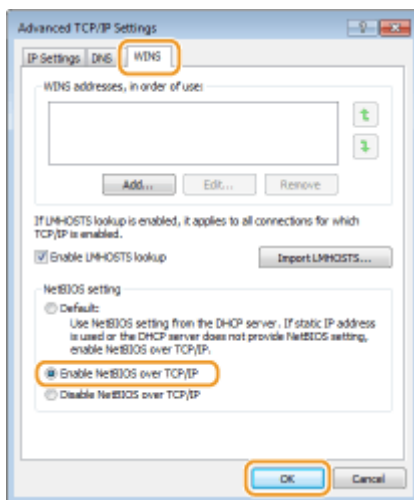
6 Click [OK] until all dialog boxes are closed.

NOTE:

- Restart the computer if you are prompted to do so.

Installing the Printer Driver

Install the printer driver by following the procedure described in the "Printer Driver Installation Guide".

NOTE

When a port selection screen appears during installation

- Follow the procedure below.

1 Click [Add Port].

2 Select [Network] and click [OK].

3 From the list, select "Workgroup Name," "Server Name," and "Printer Name" that were specified in the SMB protocol settings in this order. ○Configuring SMB(P. 245)

Security

Security

0YS1-03W

Confidential information is handled by information devices everywhere, including computers and printers, and any of these devices may become a target for malicious third parties at anytime. Attackers may directly gain unauthorized access to your devices, or indirectly take advantage of negligence or improper use. Either way, you may incur unanticipated losses when your confidential information is leaked. To counter these risks, the machine is equipped with a variety of security functions. Set the necessary configuration depending on your network environment.

> **NOTE**
>
> - You can configure the best security system by building an environment that inhibits access to printers on your in-house network via the Internet and using such environment together with the machine's security features. ⊙**Preventing Unauthorized Access(P. 253)**

■ Establishing the Basics of Information Security
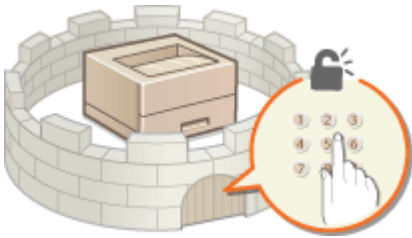
⊙**Protecting the Machine from Unauthorized Access(P. 252)**

■ Preparing for Risks from Negligence or Misuse
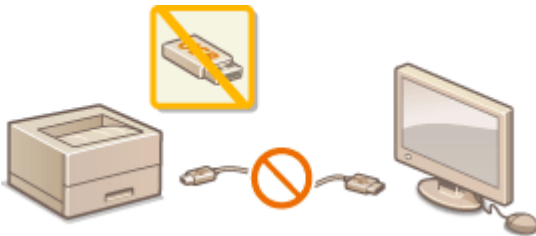
⊙**Restricting the Machine's Functions(P. 280)**

⊙**Printing a Document Secured by a PIN (Secured Print) (P. 130)**

■ Implementing Robust Security Features

⊙**Implementing Robust Security Features(P. 296)**

Protecting the Machine from Unauthorized Access

0YS1-03X

Prevent unauthorized third parties from accessing and using the machine. You can implement multiple security measures, such as managing user access privileges and using firewalls.
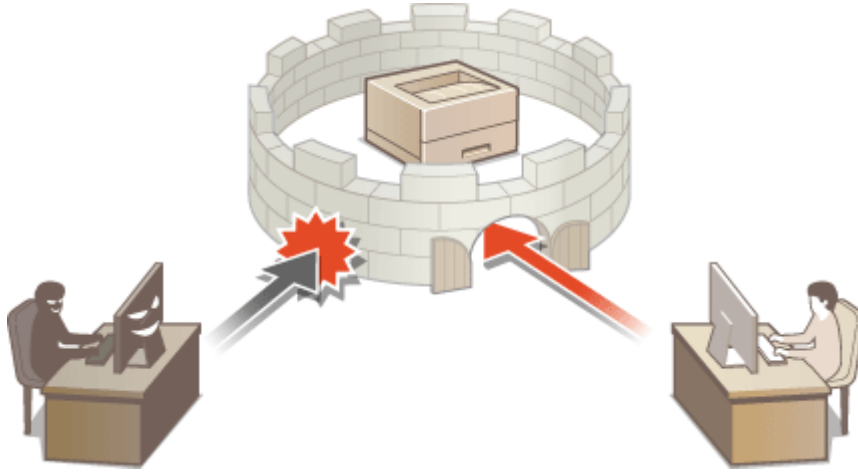
Preventing Unauthorized Access

0YS1-03Y

This section describes the security measures on how to prevent unauthorized access from the external network. This is a must-read for all users and administrators before using this machine, other printers, and multifunction machines connected to the network. In recent years, a printer/multifunction machine connected to the network can offer you a variety of useful functions, such as printing from a computer, operating from a computer using the remote function, and sending scanned documents via the Internet. On the other hand, it is essential to take security measures to reduce the security risk for information leakage, as a printer/multifunction machine has become more exposed to threats, such as unauthorized access and theft, when it is connected to the network. This section explains necessary settings you need to specify to prevent unauthorized access before using a printer/multifunction machine connected to the network.

Security Measures to Prevent Unauthorized Access from the External Network

◉**Assigning a Private IP Address(P. 253)**
◉**Using Firewall to Restrict Transmission(P. 254)**
◉**Specifying the TLS Encrypted Communication (P. 254)**
◉**Setting PIN to Manage Information Stored in the Printer(P. 254)**

Assigning a Private IP Address

An IP address is a numerical label assigned to each device participating in a computer network. A "global IP address" is used for the communication connecting to the Internet, and a "private IP address" is used for the communication within a local area network, such as a LAN in the company. If a global IP address is assigned, your printer/multifunction machine is open to the public and can be accessed via the Internet. Thus, the risk of information leakage due to unauthorized access from external network increases. On the other hand, if a private IP address is assigned, your printer/multifunction machine is closed to a local area network and can be accessed by only users on your local area network, such as a LAN in the company.
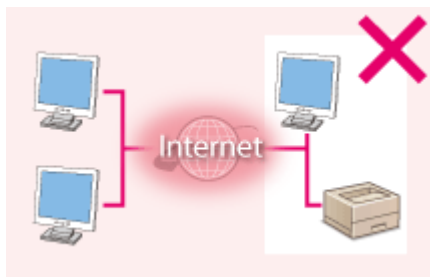
Global IP Address
Can be accessed from the users within a local area network
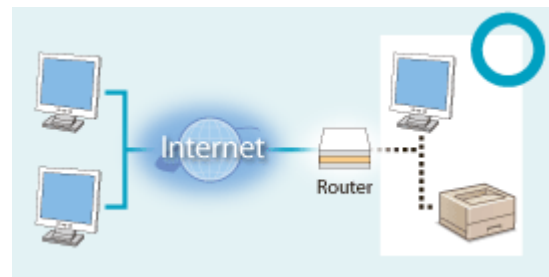
Private IP Address
Can be accessed from the users within a local area network

Basically, assign a private IP address to your printer/multifunction machine. Make sure to confirm the IP address, assigned to the printer/multifunction machine you are using, is a private IP address or not. A private IP address is found in one of the following ranges.

■**Ranges for Private IP addresses**

- From 10.0.0.0 to 10.255.255.255
- From 172.16.0.0 to 172.31.255.255
- From 192.168.0.0 to 192.168.255.255

For information on how to confirm the IP address, see ◉**Setting IPv4 Address(P. 191)** .

NOTE

- If a global IP address is assigned to a printer/multifunction machine, you can create a network environment to reduce the risk of unauthorized access by installing security software, such as a firewall that prevents access from the external networks. If you want to assign a global IP address to and use a printer/multifunction machine, contact your network administrator.

Using Firewall to Restrict Transmission

A firewall is a system that prevents unauthorized access from the external networks and protects against attacks/intrusions to a local area network. You can use a firewall on your network environment to block access from the external network that appears to be dangerous, by restricting communication from specified IP address of the external network. The function installed to a Canon printer/multifunction machine enables you to set up the IP address filter. For information on how to set up an IP address filter, see ❯**Specifying IP Addresses for Firewall Rules(P. 268)** .

Specifying the TLS Encrypted Communication

For information on the TLS Encrypted Communication, see ❯**Implementing Robust Security Features(P. 296)** , and on the procedures to specify, see ❯**Using TLS for Encrypted Communications(P. 297)** .

Setting PIN to Manage Information Stored in the Printer

If a malicious third party attempts to gain unauthorized access to a printer/multifunction machine, setting PIN to information stored in the machine will reduce the risk of information leakage. Canon printer/multifunction machine enables you to protect various type of information by setting PIN.

■Setting PIN to Each Function

- Setting PIN for Using Remote UI
  For more information, see ❯**Setting a Remote UI PIN(P. 266)** .

- Setting the password for the System Manager
  For more information, see ❯**Setting the System Manager Password(P. 256)** .

Listed above are some examples of security measures for preventing unauthorized access. For more information on the other security measures, see ❯**Security(P. 251)** and take necessary security measures for preventing unauthorized access to suit your environment.

Setting Access Privileges

0YS1-040

Protect the machine from unauthorized access by only allowing users with access privileges to use the machine. Access privileges are set separately for the System Manager password, an account called "Department ID," and the Remote UI. When privileges are set, the user must enter an ID and PIN to print or change settings.
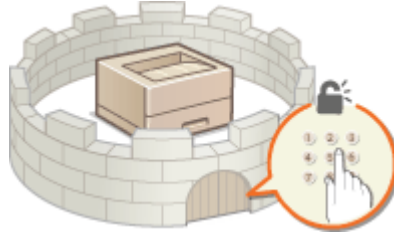
The System Manager password is intended exclusively for administrators while the Department ID is for general users. Both are specified by System Managers. And by setting a Remote UI Access PIN, you can restrict use of the Remote UI.

System Manager Password

Specifying the settings for the machine from the Remote UI requires the System Manager password. The password is set to "7654321" by default, and can be changed to allow only specific administrators to change the settings.

Setting the System Manager Password(P. 256)

Department ID (Department ID Management)

Department ID is an account for managing printing jobs. You can register multiple Department IDs to specify access privileges for a user (or group of users). If a user tries to print a document when Department IDs are enabled, the screen for entering a Department ID is displayed, and the user must enter his/her own Department ID. Information for each Department ID can be viewed, such as how many pages have been printed.

Setting the Department ID Management(P. 259)

Remote UI PIN (Remote UI Access PIN)

This is a PIN for using the Remote UI. Only users who know the PIN can access the Remote UI.

Setting a Remote UI PIN(P. 266)

Setting the System Manager Password

0YS1-041
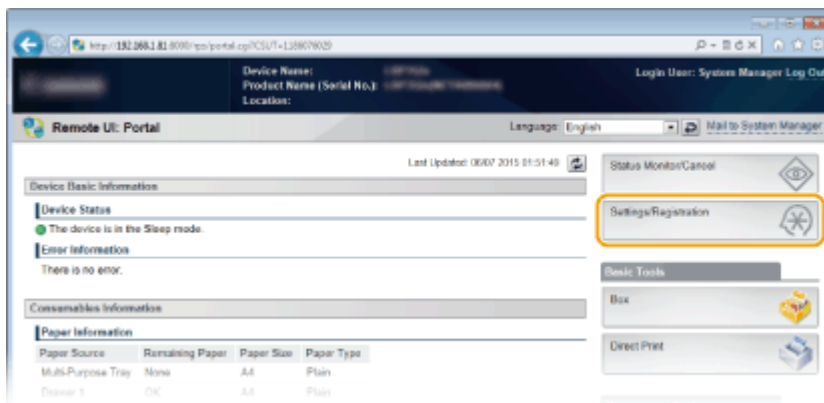
Changing the settings configured in the machine from the Remote UI requires administrative privileges. Follow the procedure shown below to change the System Manager password. The System Manager password settings information is critical to the security of the machine, so make sure that only Administrators know the System Manager password.

NOTE

- The factory default setting of the System Manager password is "7654321." Note that it is not preferable to use this value as it is, from the viewpoint of security. It is recommended that you change the value by using the following procedure.

1 Start the Remote UI and log on in Management Mode. ○Starting Remote UI(P. 336)

2 Click [Settings/Registration].

3 Click [Security] ▶ [Management Settings].

256
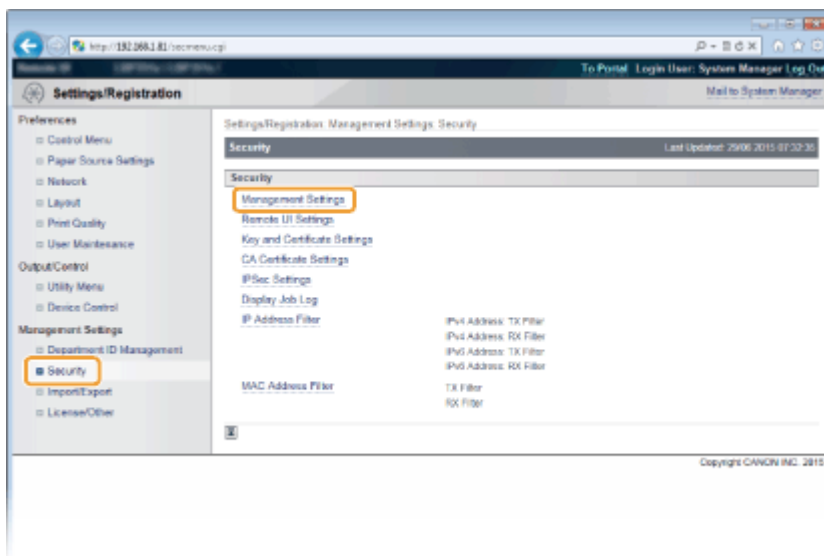
4 **Click [Edit].**
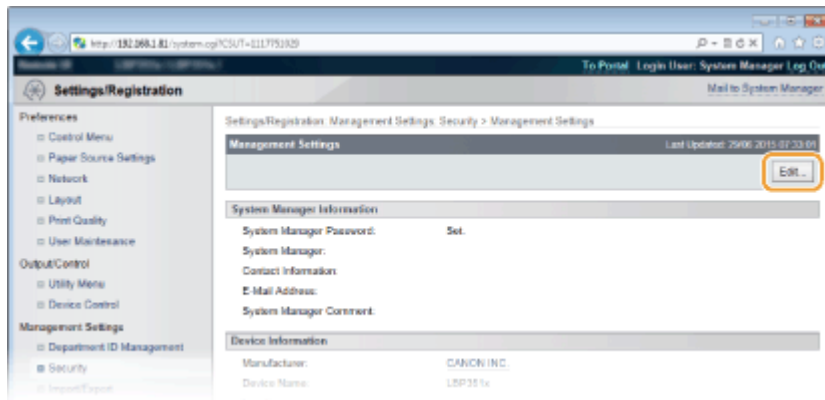
**5** **Enter the current password in [Current System Manager Password].**

- The default password is "7654321".
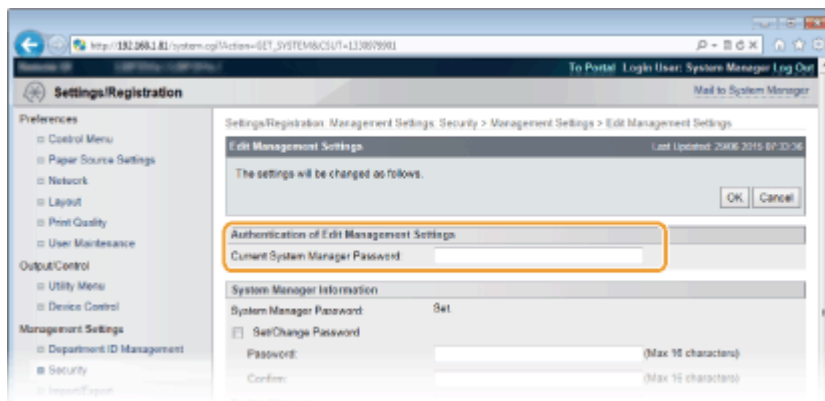
6 **Enter a new password.**
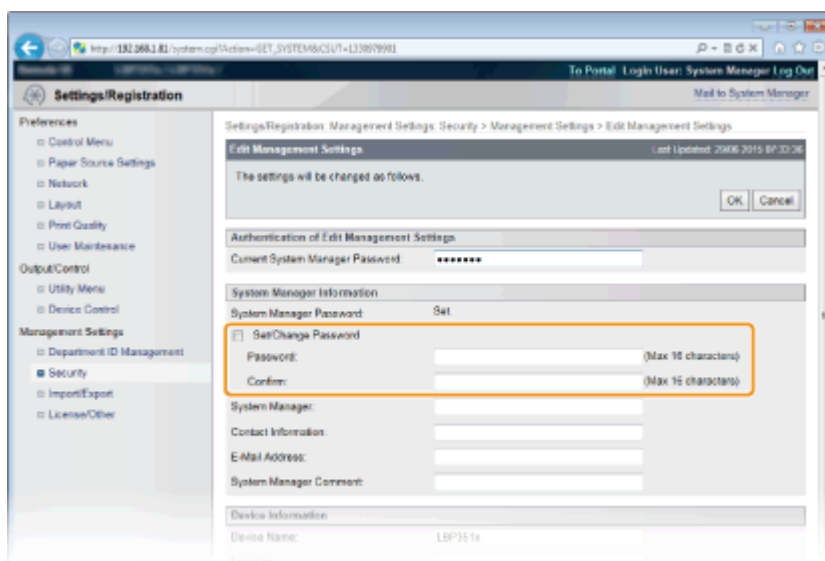
[Set/Change Password]
To set or change the password, select the check box and enter up to 16 alphanumeric characters for the password in the [Password] text box. For confirmation, enter the same password in the [Confirm] text box.

NOTE:

● If you click [OK] with the check box selected and the [Password] and [Confirm] text boxes left blank, the currently set password is deleted.

7 **Enter the System Manager name and contact information as necessary, and click [OK].**

[System Manager]
Enter up to 128 characters for the name of an administrator.

[Contact Information]
Enter up to 128 characters for the contact information of the administrator.

[E-Mail Address]
Enter up to 64 alphanumeric characters for the e-mail address of the administrator.

[System Manager Comment]
Enter up to 128 characters for comments of the administrator.

IMPORTANT

● Be sure to remember the password that you have set. If you have forgotten the password, contact your local authorized Canon dealer or the Canon help line.

LINKS

Setting Access Privileges(P. 255)
Checking System Manager Information(P. 349)

Setting the Department ID Management

You can control access to the machine by using multiple IDs for multiple users or groups. If a user tries to operate the machine when Department ID Management is enabled, a logon screen is displayed, and the user must enter their own Department ID and PIN to use the machine. Department ID Management provides recorded details of the past use of the machine for each Department ID. To configure Department ID Management, register department IDs as necessary and then enable Department ID Management function. Additional settings are required if you want to enable Department ID Management for printing from a computer.
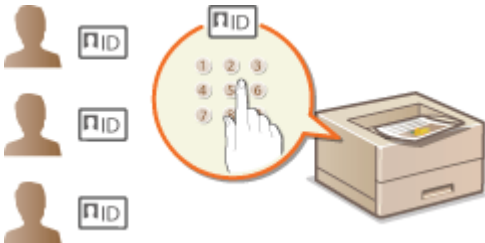
Registering/Editing Department ID and PIN(P. 259)
Enabling the Department ID Management(P. 260)
Setting the Department ID Management for Printing from the Computer(P. 263)
Blocking Jobs When Department ID Is Unknown(P. 264)

> **NOTE**
>
> **To manage the print status of each department**
> **Checking the Number of Pages Printed for Each Department(P. 597)**

Registering/Editing Department ID and PIN

Register a Department ID and set a PIN for it. Up to 300 Department IDs can be registered.

1 **Start the Remote UI and log on in Management Mode. Starting Remote UI(P. 336)**

2 **Click [Settings/Registration].**
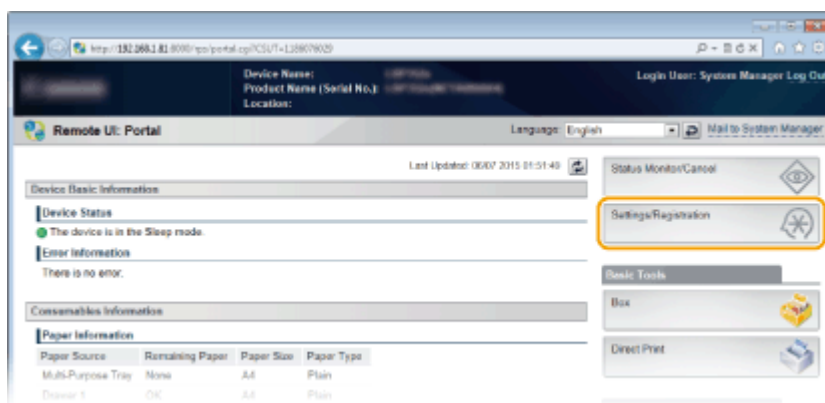
3 **Click [Department ID Management] and register or edit Department IDs.**
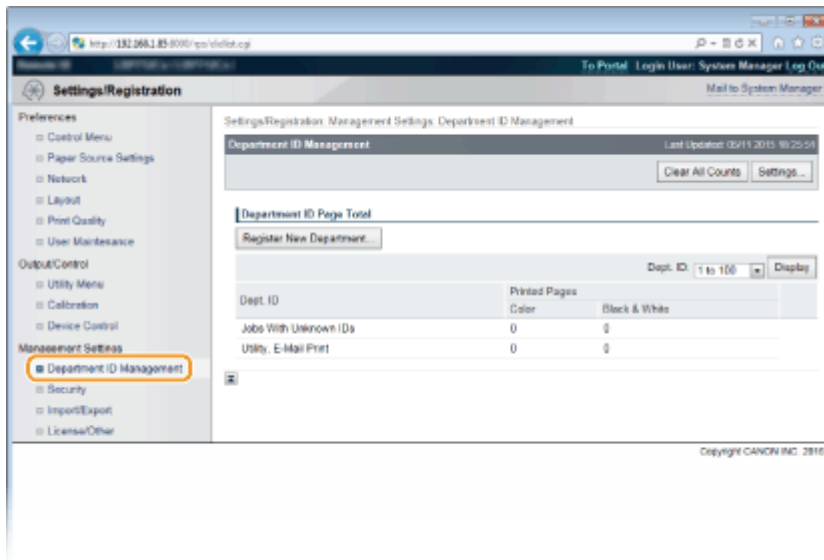
■ Registering a Department ID

1 Click [Register New Department].

2 Specify the required settings and click [OK].
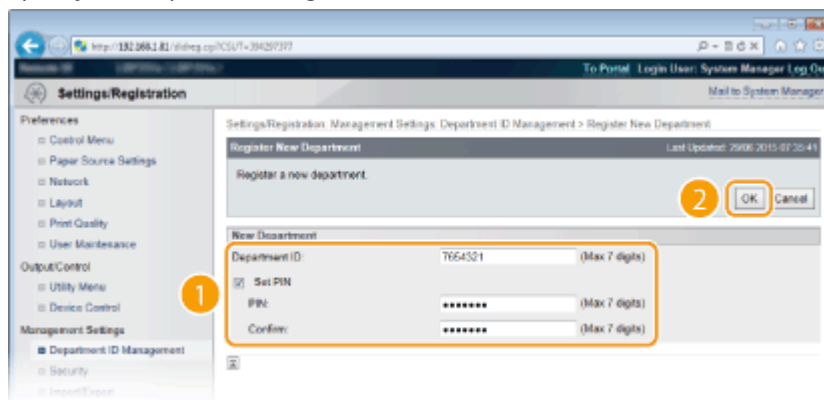
[Department ID]

Enter a number of up to seven digits for the Department ID.

[Set PIN]

To set a PIN, select the check box and enter a number of up to seven digits both in the [PIN] and [Confirm] text boxes.

■Editing the settings of the registered Department ID

1 Click the corresponding text link under [Department ID] to edit.

2 Change the settings as necessary and click [OK].

NOTE:

Deleting a Department ID

● Click [Delete] on the right of the Department ID you want to delete ▶ click [OK].

Enabling the Department ID Management

After you register as many Department IDs as necessary, enable Department ID Management.

1 **Start the Remote UI and log on in Management Mode. ▶Starting Remote UI(P. 336)**

2 **Click [Settings/Registration].**
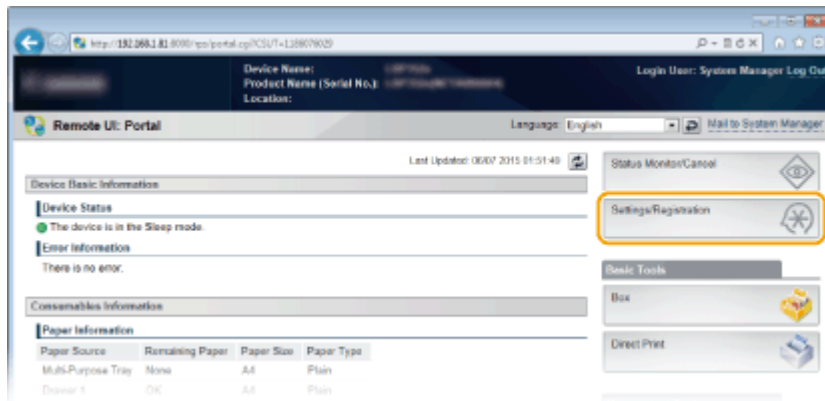
3 **Click [Department ID Management] ▶ [Settings].**
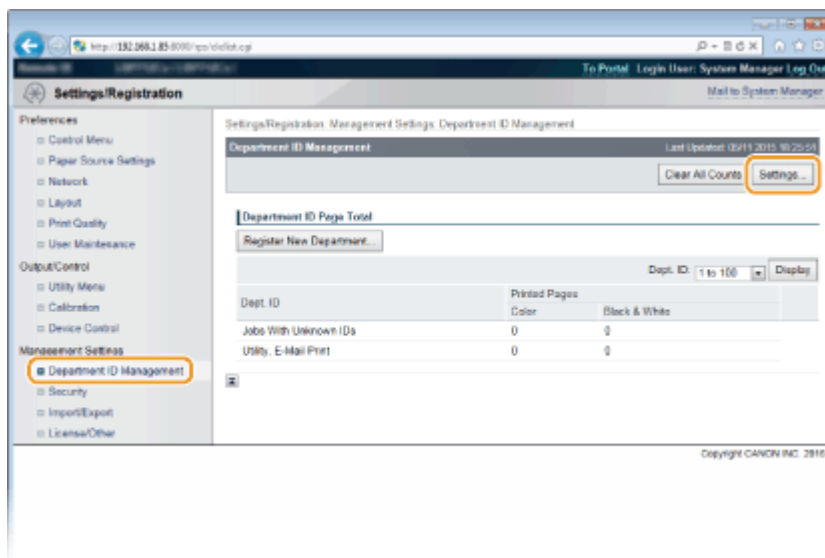
4 **Select the [Enable Department ID Management] check box and click [OK].**
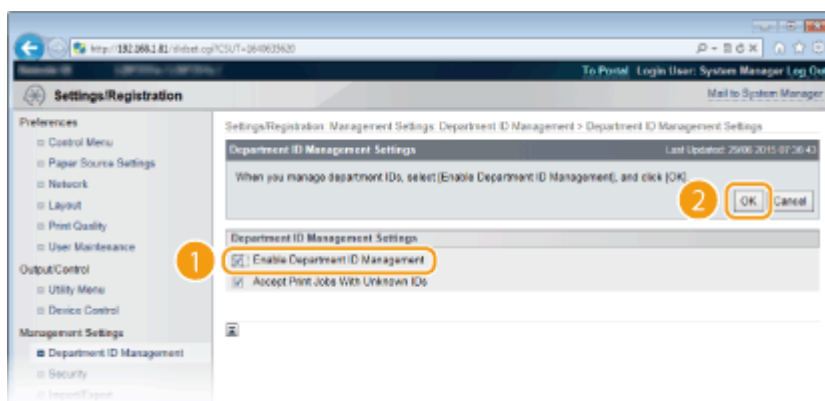
[Enable Department ID Management]

Select the check box to enable Department ID Management. If you do not want to use Department ID Management, clear the check box.

NOTE:

● For information on the [Accept Print Jobs With Unknown IDs] check box, see ❯**Blocking Jobs When Department ID Is Unknown(P. 264)** .

NOTE

If Department ID Management is enabled

● When users try to print a file in the USB memory device or a document stored on the SD card from the operation panel, the authentication screen is displayed. Enter the Department ID and PIN, select <Log In>, and press 🆗 .

```
Enter Dept. ID & PIN
<Remove USB Memory>
<Log In>
Dept. ID:
PIN:
```

● To log on to the Remote UI in General User Mode, you must enter the Department ID and PIN. ❯**Starting Remote UI(P. 336)**

■ **When the XPS Printer Driver Is Used**

If you want to use Department ID Management when the XPS printer driver is used, set key pairs for TLS encrypted communication (❯**Using TLS for Encrypted Communications(P. 297)**). After completing the settings of key pairs, configure the settings shown below.

Log on to the Remote UI in Management Mode (❯**Starting Remote UI(P. 336)**) ▶ [Settings/ Registration] ▶ [Network] ▶ [TCP/IP Settings] ▶ [Edit] in [Department ID Management PIN Confirmation Settings] ▶ Select the [Use Department ID Management PIN Confirmation] check box ▶ [OK]
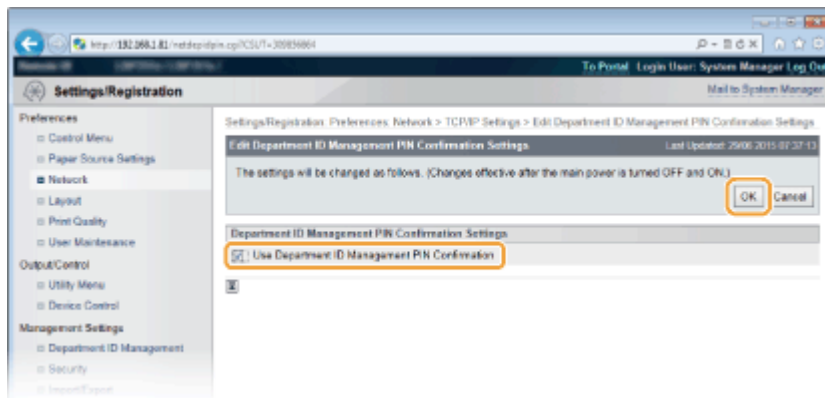
[Use Department ID Management PIN Confirmation]

If you select the check box, Department ID Management will be enabled for printing with the XPS printer driver. If you do not want to use Department ID Management, clear the check box.

IMPORTANT:

● If any key pair is not set in the machine, you cannot enable [Use Department ID Management PIN Confirmation]. ❯**Configuring Settings for Key Pairs and Digital Certificates(P. 318)**

Setting the Department ID Management for Printing from the Computer

If you want to enable Department ID Management for printing from a computer, you need to specify settings by using the printer driver you already installed on the computer. Specify the Department ID and PIN as necessary.

IMPORTANT

- To perform the following procedure, log on to your computer with an administrator account.

1 Open the printer folder. ●Displaying the Printer Folder(P. 662)

2 Right-click your printer icon and click [Printer properties] or [Properties].
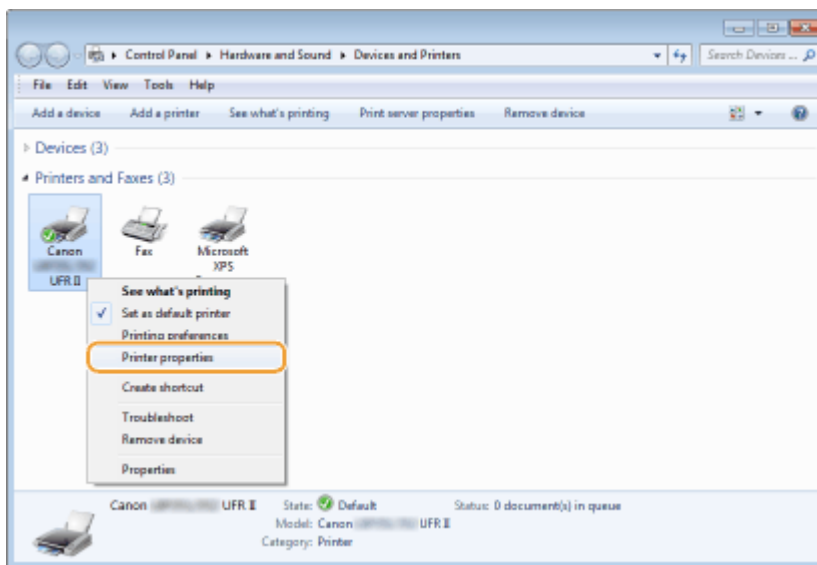
3 Click the [Device Settings] tab and specify the required settings.
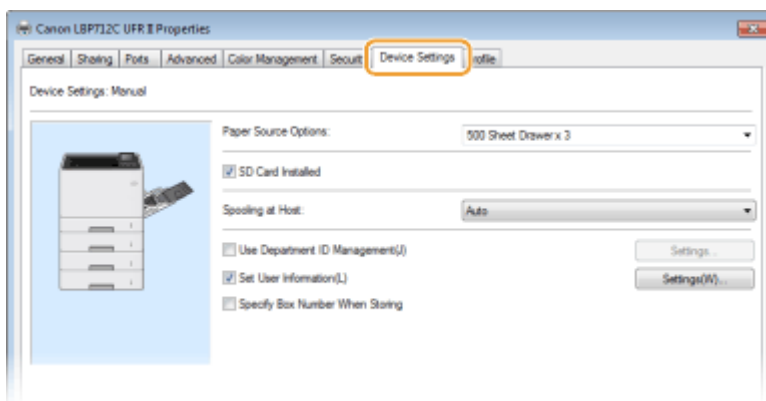
1 Select the [Use Department ID Management] check box and click [Settings] on the right of it.

2 Specify the settings as necessary and click [OK].
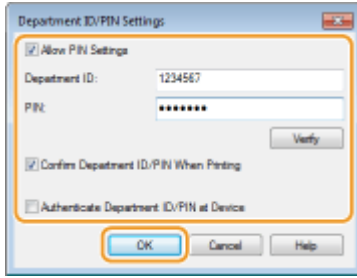
[Allow PIN Setting]

Select the check box to enable the PIN setting.

[Department ID]

Enter a number of up to seven digits for the Department ID.

[PIN]

Enter a number of up to seven digits for the PIN if it is set for the Department ID.

[Verify]

Click to verify that the correct ID and PIN are entered. This function is not available if the machine and the computer are connected via a USB or WSD (Web Services on Devices) port.

[Confirm Department ID/PIN When Printing]

Select the check box to display the [Confirm Department ID/PIN] pop-up screen each time you print from a computer.

[Authenticate Department ID/PIN at Device]

Select the check box if the machine and the computer are connected via a USB or WSD port.

3 Click [OK].
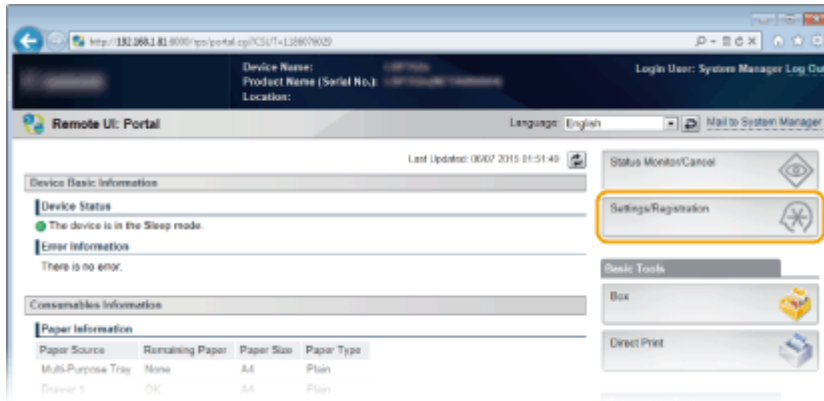
NOTE

Logging on to the machine

- When you try to print from a computer when Department ID Management is enabled, the following pop-up screen is displayed (unless the [Confirm Department ID/PIN When Printing] check box is cleared):

Blocking Jobs When Department ID Is Unknown

The factory default settings are such that even when Department ID Management is enabled, you can print from a computer without entering an ID and PIN. If you want to change this so that printing is not possible unless an ID and PIN are entered, use the following procedure.

1 Start the Remote UI and log on in Management Mode. ○Starting Remote UI(P. 336)

2 Click [Settings/Registration].

3 **Click [Department ID Management] ▶ [Settings].**
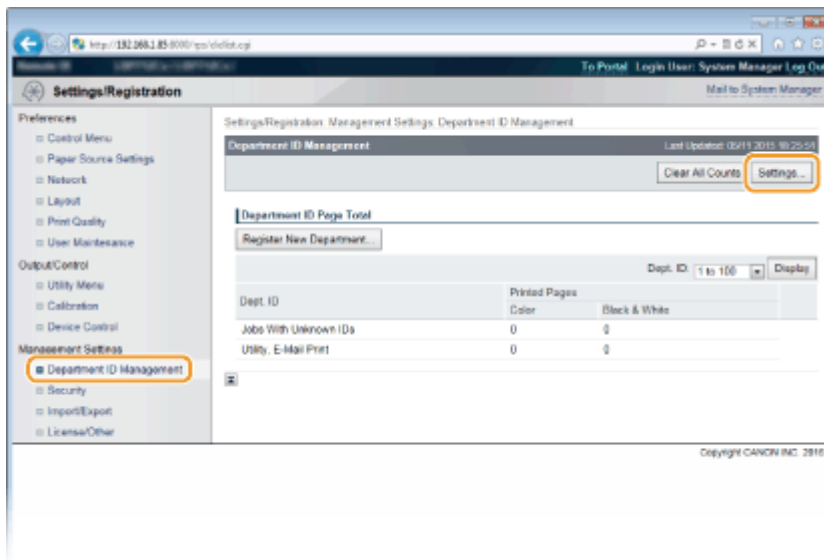
4 **Clear the [Accept Print Jobs With Unknown IDs] check box and click [OK].**
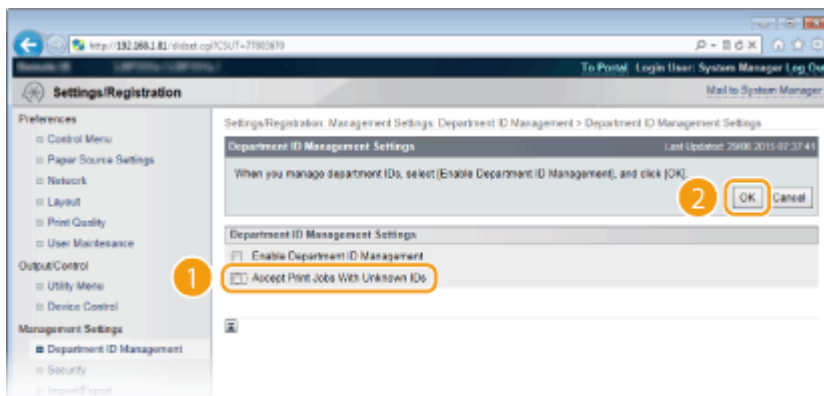
IMPORTANT:

- If you clear the check box, users cannot print by a method that is not supported by Department ID Management or perform Direct Print from the Remote UI that the users log on in Management Mode.

LINKS

Setting Access Privileges(P. 255)
Setting the System Manager Password(P. 256)

Setting a Remote UI PIN

0YS1-043

You can set a PIN for access to the Remote UI. All users use a common PIN.

NOTE

- When Department ID Management is enabled, setting here is not required. ◉**Setting the Department ID Management(P. 259)**

1 Press ▶ (Settings).

2 Use ▲ / ▼ to select **<Network>**, and press ⊙.

- When a message appears, press ⊙.

3 Select **<Remote UI Settings>** ▶ **<RUI Access Sec. Set.>**.

4 Select **<On>**, and press ⊙.

```
RUI Access Sec. Set.
off
On
```
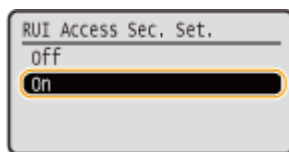
5 Set a PIN.

- Enter up to 7 digits and press ⊙.

- As **<Confirm PIN>** is displayed for confirmation, enter again the same PIN digits.

```
Remote UI Access PIN        Confirm PIN
*******                     *******

     (fix : OK key)              (fix : OK key)
```

NOTE

If Remote UI settings are initialized

- The Remote UI Access PIN is also initialized. After an initialization, reset the PIN. ◉**Initializing Menu(P. 603)**

LINKS

◉**Setting Access Privileges(P. 255)**
◉**Setting the System Manager Password(P. 256)**

Restricting Communication by Using Firewalls

0YS1-044

Without proper security, unauthorized third parties can access computers and other communication devices that are connected to a network. To prevent this unauthorized access, specify the settings for packet filter, a feature that restricts communication to devices with specified IP addresses or MAC addresses.
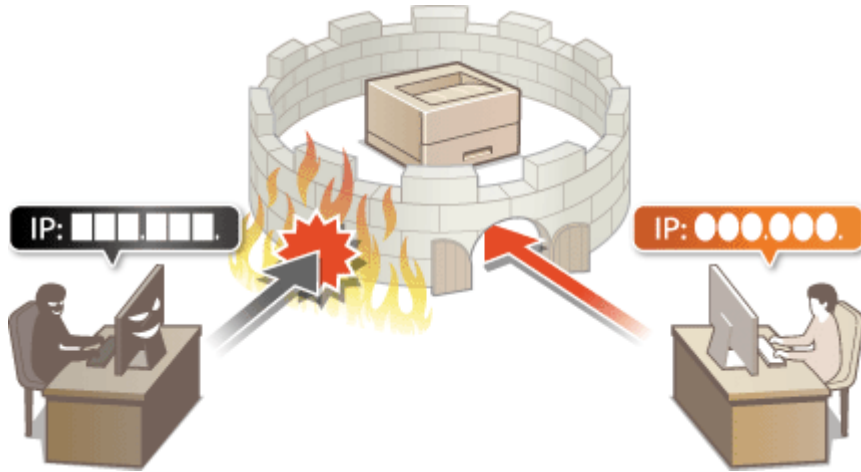
Specifying IP Addresses for Firewall Rules

0YS1-045

You can either limit communication to only devices with specified IP addresses, or block devices with specified IP addresses but permit other communications. You can specify a single IP address or a range of IP addresses. For data reception, you can specify IP addresses by specifying port numbers.

> **NOTE**
>
> - Up to 16 IP addresses (or ranges of IP addresses) can be specified for both IPv4 and IPv6.
>
> - The maximum number of port numbers that can be specified for a single IP address is 50.
>
> - The packet filters described in this section control communications over TCP, UDP, and ICMP.

1 Start the Remote UI and log on in Management Mode. **Starting Remote UI(P. 336)**

2 Click [Settings/Registration].
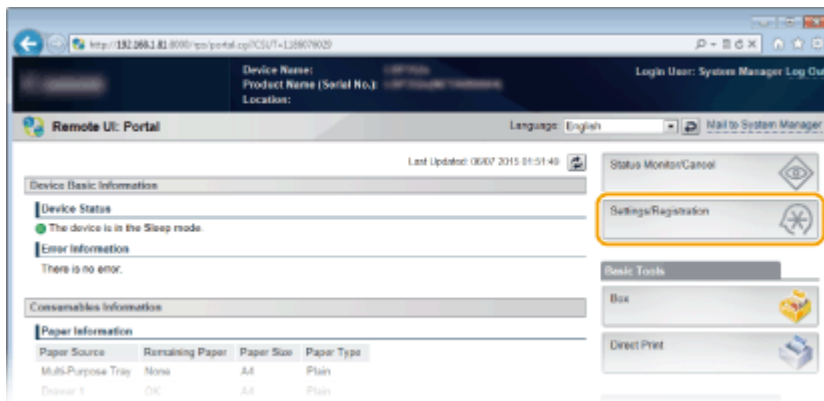
3 Click [Security] ▶ [IP Address Filter].
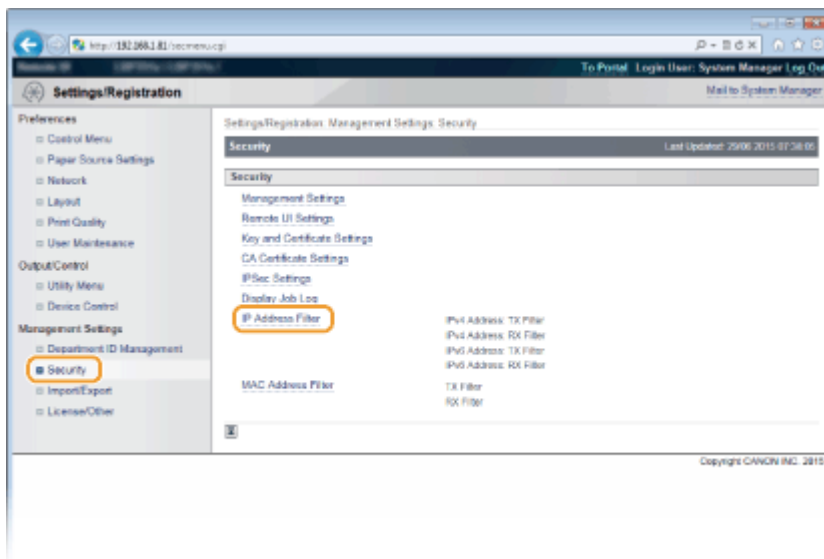
4 Click [Edit] for the filter type that you want to use.
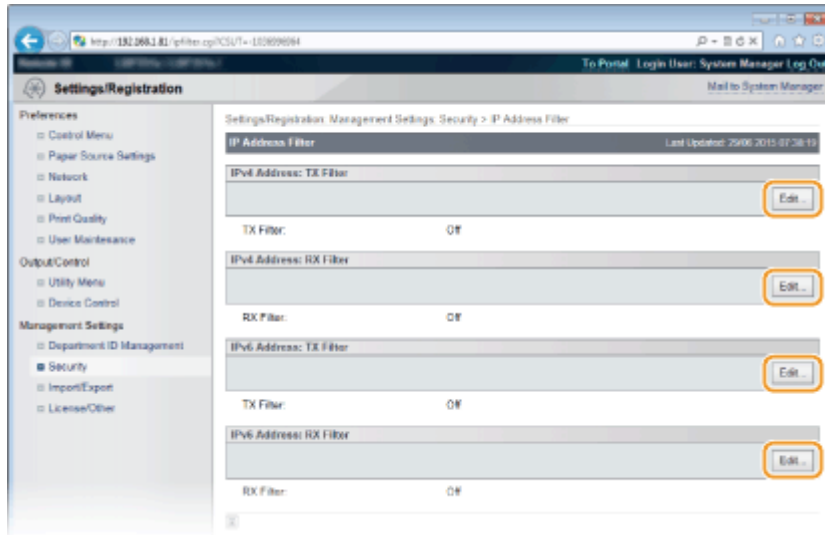
[IPv4 Address: TX Filter]
Select to restrict sending data from the machine to a computer by specifying IPv4 addresses.

[IPv4 Address: RX Filter]
Select to restrict receiving data from the machine to a computer by specifying IPv4 addresses and the port number.

[IPv6 Address: TX Filter]
Select to restrict sending data from the machine to a computer by specifying IPv6 addresses.

[IPv6 Address: RX Filter]
Select to restrict receiving data from the machine to a computer by specifying IPv6 addresses and the port number.

5 Specify the settings for packet filtering.

■For TX Filter

Select the default policy to allow or reject the communication of other devices with the machine, and then specify IP addresses for exceptions.

1 **Select the [Use Filter] check box and click the [Reject] or [Allow] radio button for the [Default Policy].**

[Use Filter]
Select the check box to restrict communication. Clear the check box to disable the restriction.

[Default Policy]
Select the precondition to allow or reject the communication of other devices with the machine.

| [Allow]	Select to block communication packets when they are sent to or received from devices whose IP addresses are entered in [Exception Addresses]. Communications with other devices are permitted.
[Reject]	Select to pass communication packets only when they are sent to or received from devices whose IP addresses are entered in [Exception Addresses]. Communications with other devices are prohibited.

2 **Specify address exceptions.**

- Enter the IP address (or the range of IP addresses) in [Register Address] and click [Add].

IMPORTANT:
Check for entry errors

- If IP addresses are incorrectly entered, you may be unable to access the machine from the Remote UI, in which case you need to set <Address Filter> to <Off>. **Address Filter(P. 396)**

NOTE:
When you have selected [Reject] under [Default Policy]

- Neither multicast packets nor broadcast packets can be filtered.

Deleting an IP address from exceptions

- Select an IP address and click [Delete].

3 Click [OK].

■For RX Filter

When selecting [Allow] under [Default Policy], specify the IP addresses of devices whose communication with the machine should be blocked. When selecting [Reject] under [Default Policy], specify the IP addresses of devices that should be able to communicate with the machine.
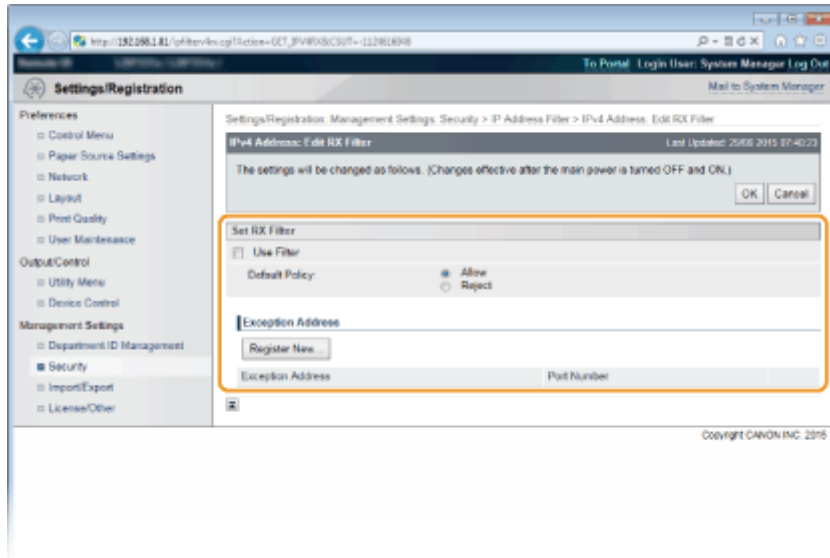
1 **Click [Register New].**

2 **Specify address exceptions.**

- Enter the IP address (or the range of IP addresses) in [Register Address].
- To specify a port number, select the [Specify Port Number] check box, enter a port number (1 to 65535) in [Port Number], and click [Add].
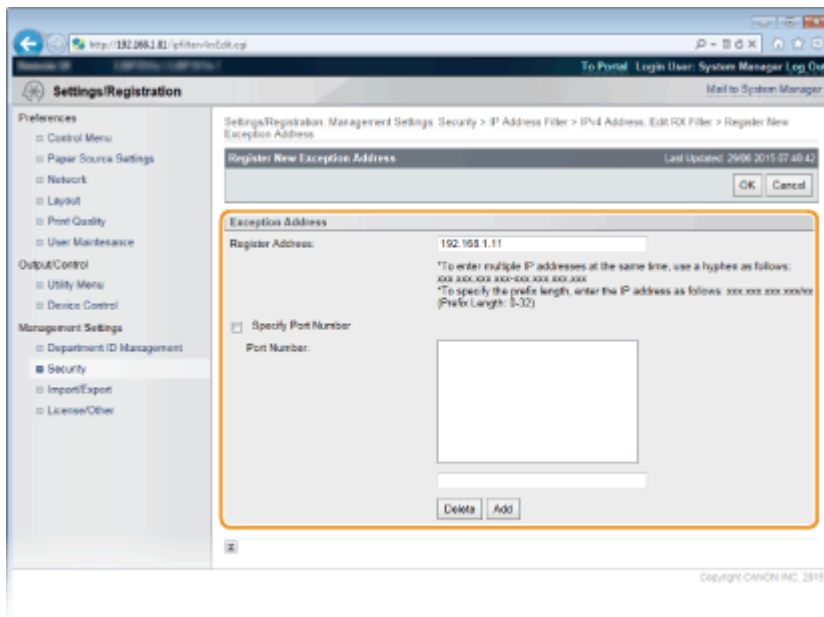
IMPORTANT:

Check for entry errors

- If IP addresses or the port numbers are incorrectly entered, you may be unable to access the machine from the Remote UI, in which case you need to set <Address Filter> to <Off>. **Address Filter(P. 396)**

NOTE:

To delete a set port number

- Select the port number to delete, and click [Delete].
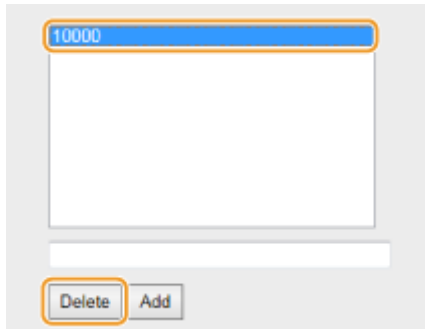
3   **Click [OK].**

4   **Select the [Use Filter] check box and click the [Reject] or [Allow] radio button for the [Default Policy].**

[Use Filter]
Select the check box to restrict communication. Clear the check box to disable the restriction.

[Default Policy]
Select the precondition to allow or reject the communication of other devices with the machine.

[Allow]	Select to block communication packets when they are sent to or received from devices whose IP addresses are entered in [Exception Addresses]. Communications with other devices are permitted.
[Reject]	Select to pass communication packets only when they are sent to or received from devices whose IP addresses are entered in [Exception Addresses]. Communications with other devices are prohibited.

NOTE:

Editing a set IP address from exceptions

- Click the corresponding text link under [Exception Addresses], in the screen that has been displayed change settings as necessary, and click [OK].

**Deleting an IP address from exceptions**

- Select an IP address to delete, and click [Delete].
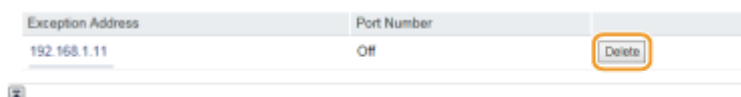
5 **Click [OK].**

6 **Perform a hard reset.**

● Click [Device Control], select [Hard Reset], and then click [Execute].
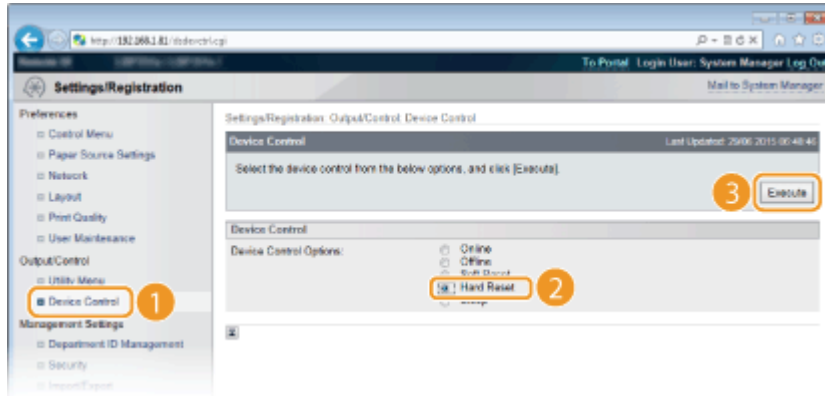
➠ The settings are enabled after the hard reset is performed.

NOTE

Using the operation panel

● You can also enable or disable IP address filtering from the Setting menu of the operation panel. ❍**Address Filter(P. 396)**

LINKS

❍**Specifying MAC Addresses for Firewall Rules(P. 274)**
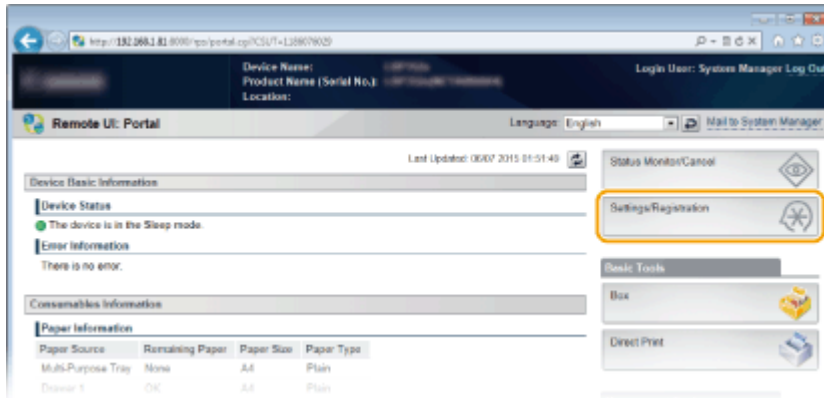
Specifying MAC Addresses for Firewall Rules

0YS1-046

You can limit communication to only devices with specified MAC addresses, or block devices with specified MAC addresses but permit other communications. Up to 50 MAC addresses can be specified.

1 **Start the Remote UI and log on in Management Mode.** ⭕**Starting Remote UI(P. 336)**

2 **Click [Settings/Registration].**

3 **Click [Security]** ▶ **[MAC Address Filter].**
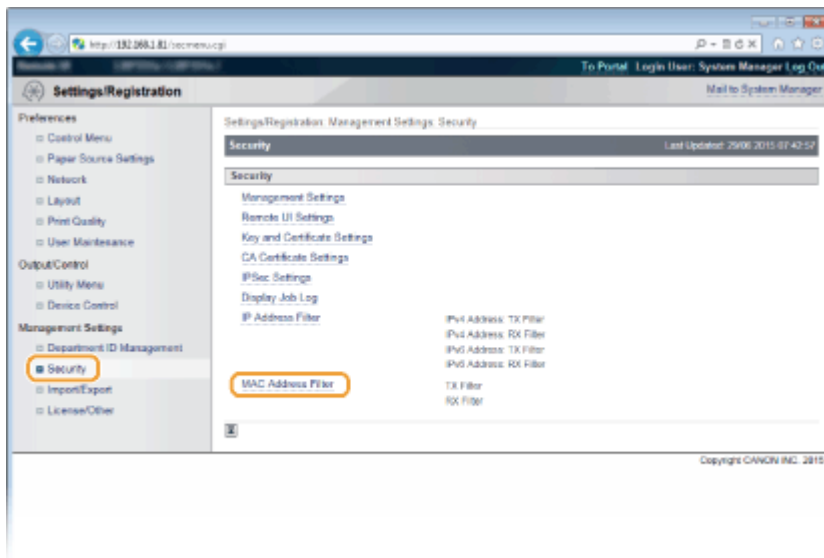

4 **Click [Edit] for a filter type.**
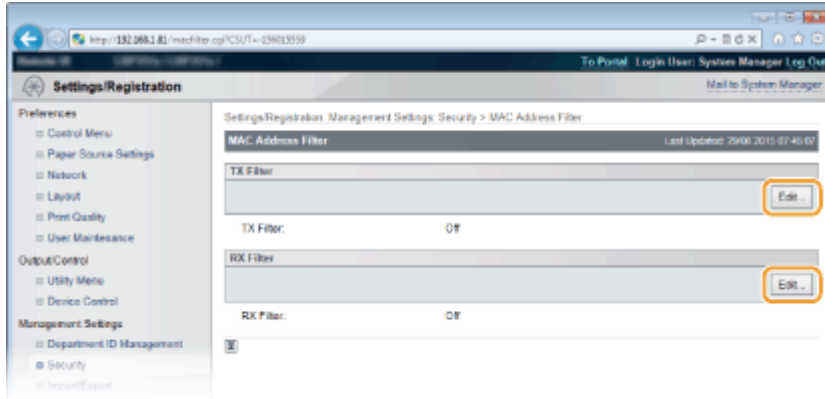
[TX Filter]
Select to restrict sending data from the machine to a computer by specifying MAC addresses.

[RX Filter]
Select to restrict receiving data from the machine to a computer by specifying MAC addresses.

5 Specify the settings for packet filtering.

● Select the precondition (default policy) to allow or reject the communication of other devices with the machine, and then specify MAC addresses for exceptions.
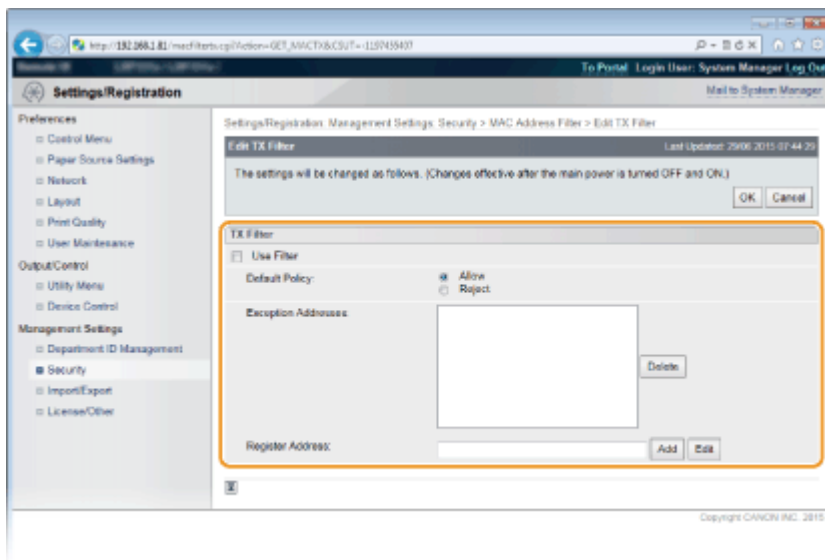
1 Select the [Use Filter] check box and click the [Allow] or [Reject] radio button for the [Default Policy].

[Use Filter]
Select the check box to restrict communication. Clear the check box to disable the restriction.

[Default Policy]
Select the precondition to allow or reject other devices to communicate with the machine.

[Allow]	Select to block communication packets when they are sent to or received from devices whose MAC addresses are entered in [Exception Addresses]. Communications with other devices are permitted.
[Reject]	Select to pass communication packets only when they are sent to or received from devices whose MAC addresses are entered in [Exception Addresses]. Communications with other devices are prohibited.

2 Specify address exceptions.
● Enter the MAC address in the [Register Address] text box and click [Add].

● You do not need to delimit the address with hyphens or colons.

IMPORTANT:

Check for entry errors

● If MAC addresses are incorrectly entered, you may become unable to access the machine from the Remote UI, in which case you need to set <Address Filter> to <Off>. **Address Filter(P. 396)**

NOTE:

When [Reject] is selected for an outbound filter

● Outgoing multicast and broadcast packets cannot be filtered.

Deleting a MAC address from exceptions

● Select a MAC address and click [Delete].
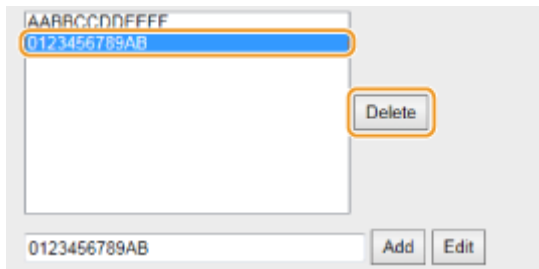
3   Click [OK].

6   **Perform a hard reset.**

● Click [Device Control], select [Hard Reset], and then click [Execute].
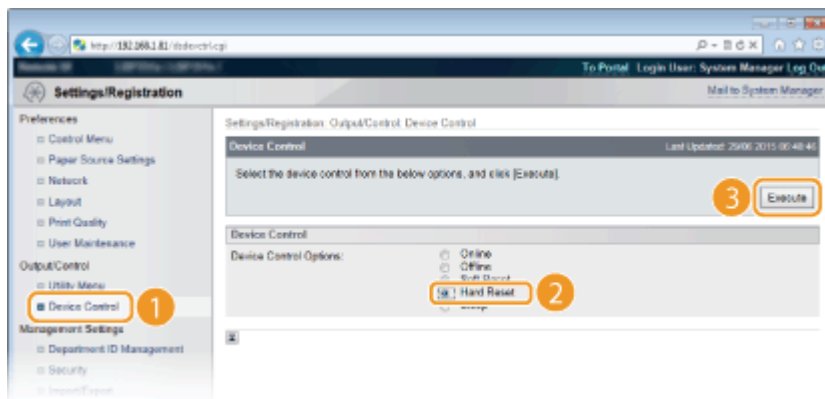
➩ The settings are enabled after the hard reset is performed.

> **NOTE**
>
> **Using the operation panel**
>
> ● You can also enable or disable MAC address filtering from the setting menu of the operation panel. ●
> **Address Filter(P. 396)**

LINKS

Specifying IP Addresses for Firewall Rules(P. 268)

Setting a Proxy

0YS1-047

A proxy (or HTTP proxy server) refers to a computer or software that carries out HTTP communication for other devices, especially when communicating with resources outside the network, such as when browsing Web sites. The client devices connect to the outside network through the proxy server, and do not communicate directly to the resources outside. Setting a proxy not only facilitates management of traffic between in-house and outside networks but also blocks unauthorized access and consolidates anti-virus protection for enhanced security. When you use Google Cloud Print to print over the Internet, you can enhance security by setting a proxy. When setting a proxy, make sure that you have the necessary proxy information, including the IP address, port number, and a user name and password for authentication.

1 Start the Remote UI and log on in Management Mode. ○Starting Remote UI(P. 336)

2 Click [Settings/Registration].
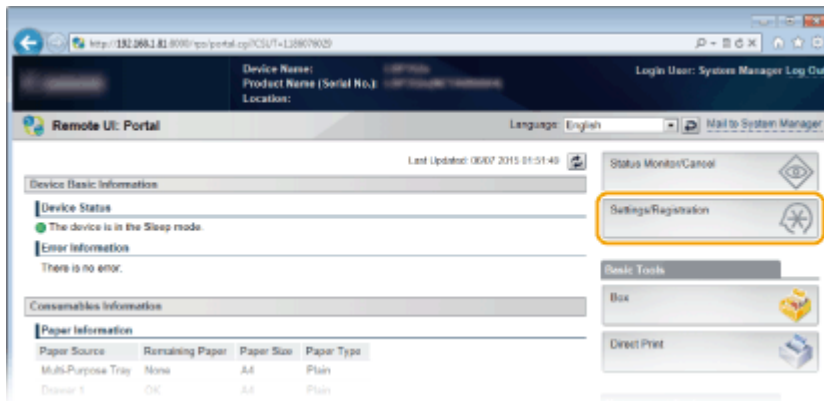
3 Click [Network] ▶ [TCP/IP Settings].
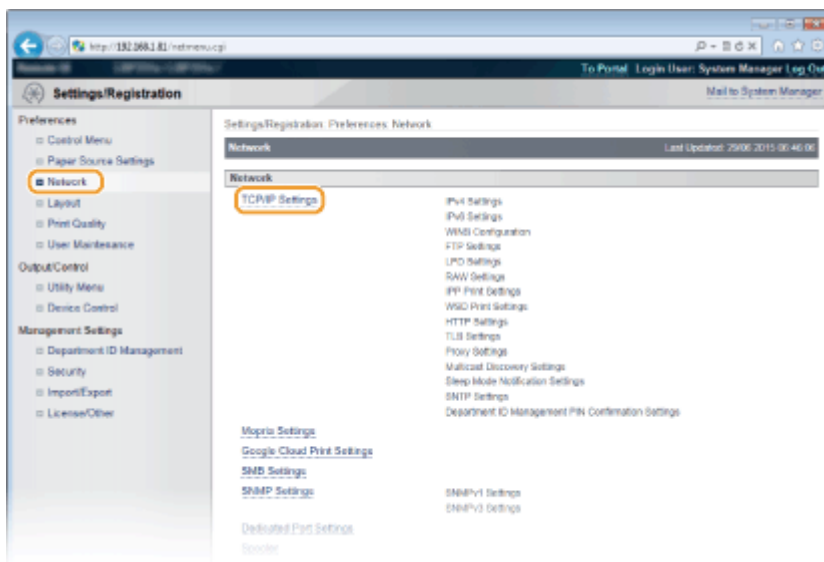
4 Click [Edit] in [Proxy Settings].
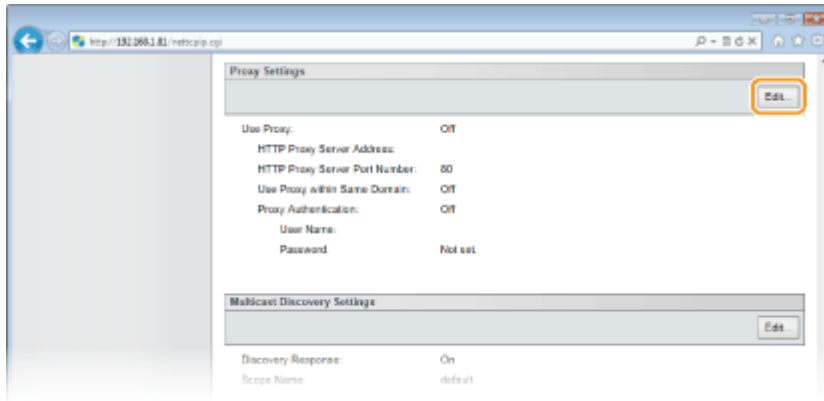
5 **Select the [Use Proxy] check box and specify the required settings.**
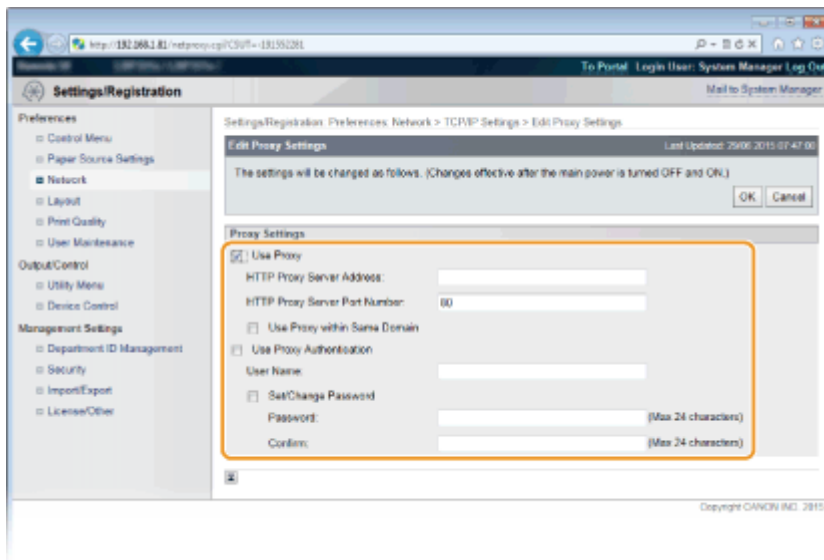
[Use Proxy]
Select the check box to use the specified proxy server when communicating with an HTTP server.

[HTTP Proxy Server Address]
Enter the address of the proxy server. Specify the IP address or host name depending on the environment.

[HTTP Proxy Server Port Number]
Change the port number as necessary. Enter a number between 1 and 65535.

[Use Proxy within Same Domain]
Select the check box to also use the specified proxy server for communication with devices in the same domain.

[Use Proxy Authentication]
To enable authentication by the proxy server, select the check box and enter up to 24 alphanumeric characters for the user name in the [User Name] text box.

[Set/Change Password]
To set or change the password for the proxy authentication, when it is enabled, select the check box and enter up to 24 alphanumeric characters for the new password in the [Password] text box. For confirmation, enter the same password in the [Confirm] text box.

6 **Click [OK].**

7 **Perform a hard reset.**

● Click [Device Control], select [Hard Reset], and then click [Execute].
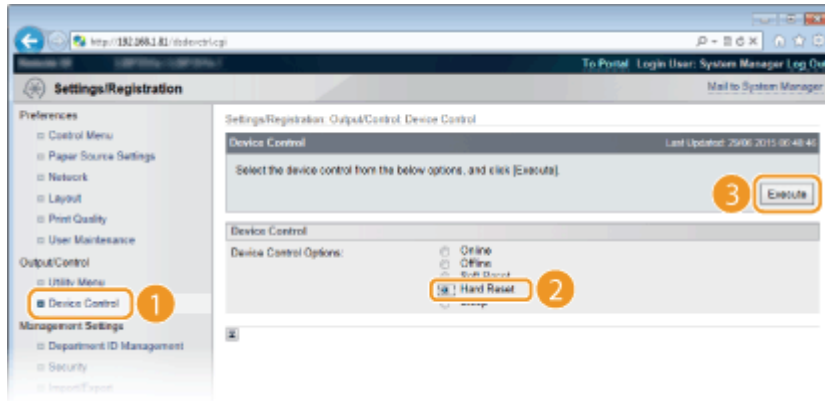
➠ The settings are enabled after the hard reset is performed.

NOTE

Using the operation panel

- Proxy settings can also be accessed from the setting menu of the operation panel. ▶**Proxy Settings(P. 386)**

LINKS

▶**Using Google Cloud Print(P. 179)**

Restricting the Machine's Functions

0YS1-048

Some of the functions of the machine may rarely be used or provide opportunities for misuse. For security purposes, the machine can be set to limit its capabilities by partially or completely disabling these functions.

Restricting the Printing Functions

❍**Restricting the Printing Operations(P. 281)**

Restricting USB Functions
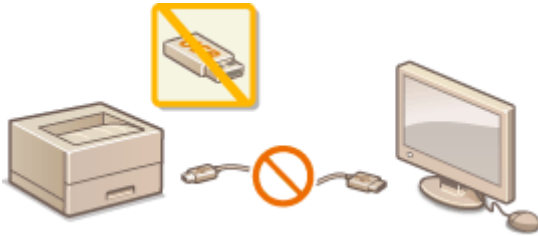
❍**Restricting USB Functions(P. 285)**

Restricting Operation Panel Functions
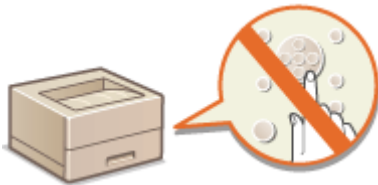
❍**Restricting Operation Panel Functions(P. 288)**

Restricting Network Functions Including HTTP Communications

❍**Disabling HTTP Communication(P. 291)**
❍**Disabling Remote UI(P. 292)**
❍**Disabling the LAN Port(P. 293)**

Hiding the Print Job History
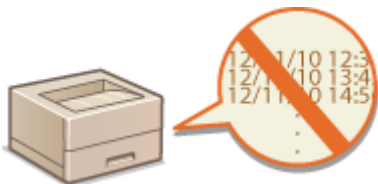
❍**Hiding the Print Job History(P. 294)**

Restricting the Printing Operations

0YS1-049

You can specify settings to prevent received print data from being automatically printed, reducing wasteful use of paper and disabling third parties to use the machine. To use this function, you must install an optional SD card. ◐ **Installing an SD Card(P. 634)**

> **NOTE**
>
> - Even when the printing operations are restricted, settings lists and reports can be printed. ◐**Printing Reports and Lists(P. 588)**

1 Start the Remote UI and log on in Management Mode. ◐**Starting Remote UI(P. 336)**

2 Click [Settings/Registration].
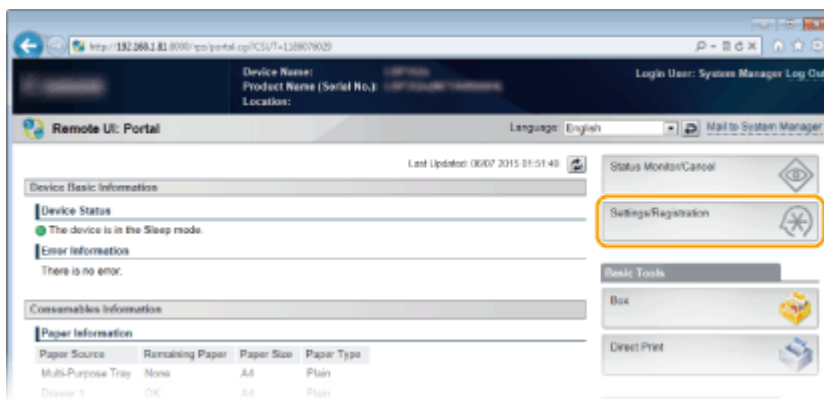
3 Click [Security] ▶ [Management Settings].
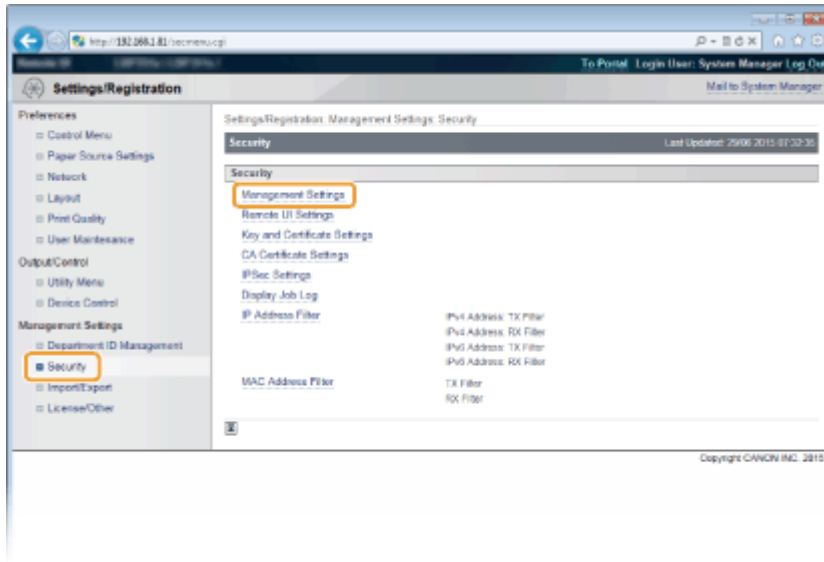
4 Click [Edit].
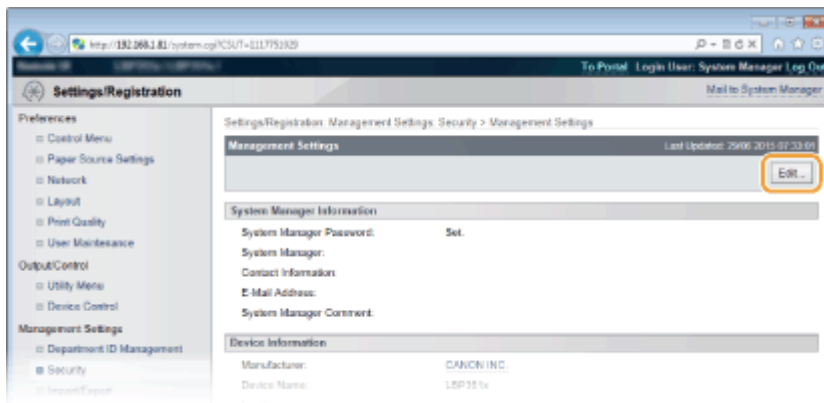
5 Enter the System Manager password in [Current System Manager Password].
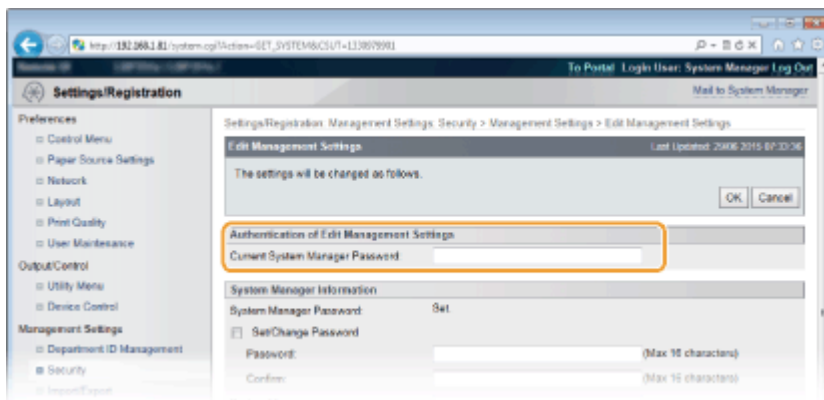
6 Select the [Restrict Printer Jobs] check box and click [OK].
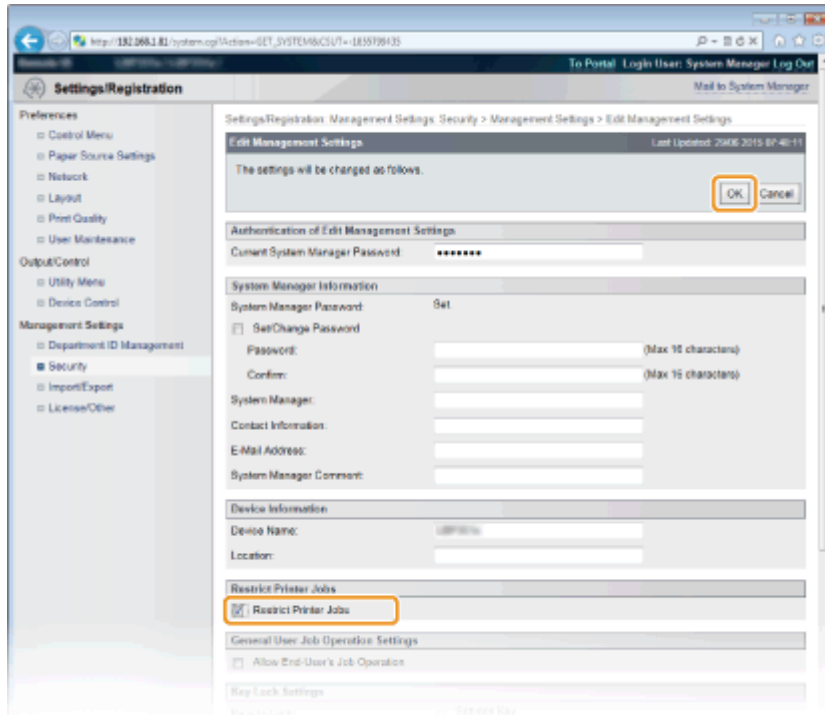
[Restrict Printer Jobs]
Select the check box to restrict the printing operations of the machine. Clear the check box to disable the restriction.

7 Perform a hard reset.

● Click [Device Control], select [Hard Reset], and then click [Execute].
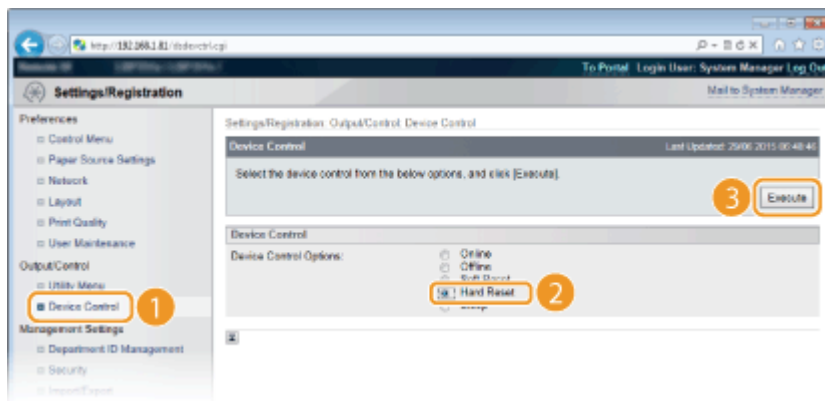
➠ The settings are enabled after the hard reset is performed.

NOTE

When the printing operations are restricted

● Only Stored Job Print can be performed from the printer drivers. ❍**Printing a Document Stored in the Machine (Stored Job Print)(P. 136)**

● Only PDF, PS, EPS, and XPS files stored in boxes can be printed from the Remote UI. ❍**Printing without Opening a File (Direct Print)(P. 145)**

● USB Direct Print from the USB memory device and E-mail Print are not available.

LINKS

Restricting USB Functions

0YS1-04A

USB is a convenient way of connecting peripheral devices and storing or relocating data, but USB can also be a source of information leakage if it is not properly managed. Be especially careful when handling USB memory devices. This section describes how to restrict connection via the USB port of the machine and how to prohibit use of USB memory devices.
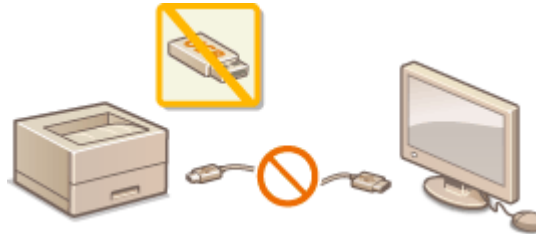
◻**Restricting the USB Connection with a Computer(P. 285)**
◻**Restricting the USB Direct Print Function(P. 286)**

Restricting the USB Connection with a Computer

You can disable the USB port, for connecting a computer, located on the left side of the machine. Connection to a computer via USB will be disabled, but a USB memory device can be connected to the USB port on the right side of the machine.

1 Press ▶ (Settings).

2 Use ▲ / ▼ to select <Interface>, and press [ok].

3 Select <Interface Selection> and press [ok].

● When a message appears, press [ok].

4 Select <USB> and press [ok].

5 Select <Off> and press [ok].

ⓐ **<Off>**

Disables the USB port located on the left side of the machine.

ⓑ **<On>**

Enables the USB port located on the left side of the machine.

285

6 **Perform a hard reset.** ◯**Performing a Hard Reset(P. 499)**

➠ The settings are enabled after the hard reset is performed.

Restricting the USB Direct Print Function

You can disable printing data from a USB memory device. This makes it impossible to print data stored in the USB memory.

1 **Start the Remote UI and log on in Management Mode.** ◯**Starting Remote UI(P. 336)**

**2** **Click [Settings/Registration].**
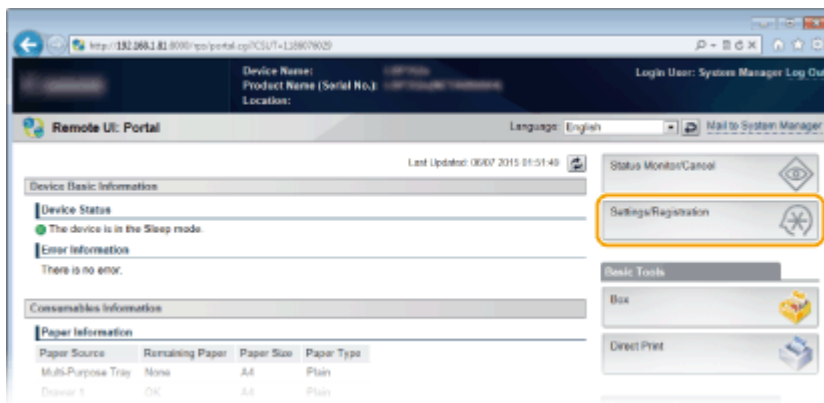
**3** **Click [Security] ▶ [Management Settings].**
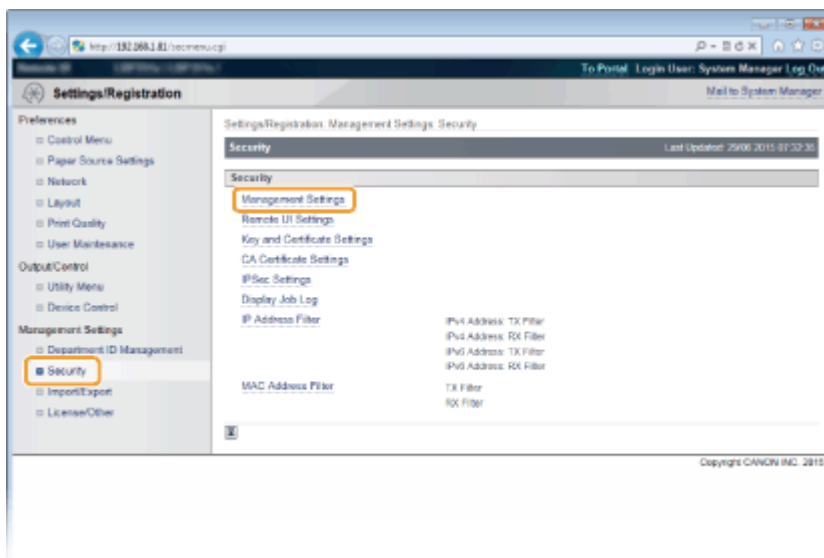
4 **Click [Edit].**
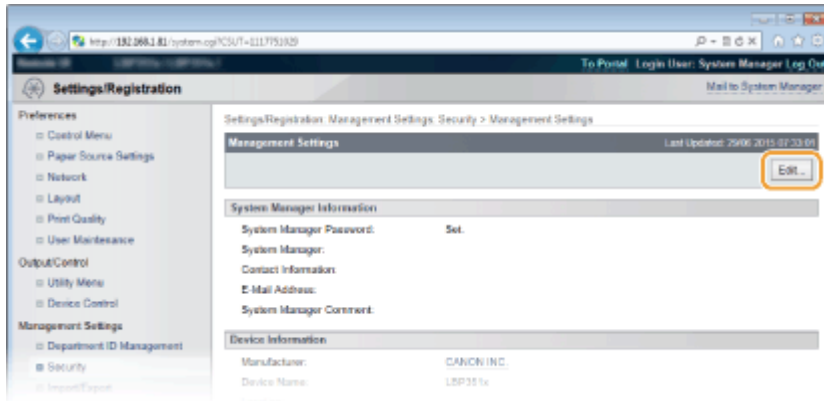
5 Enter the System Manager password in [Current System Manager Password].
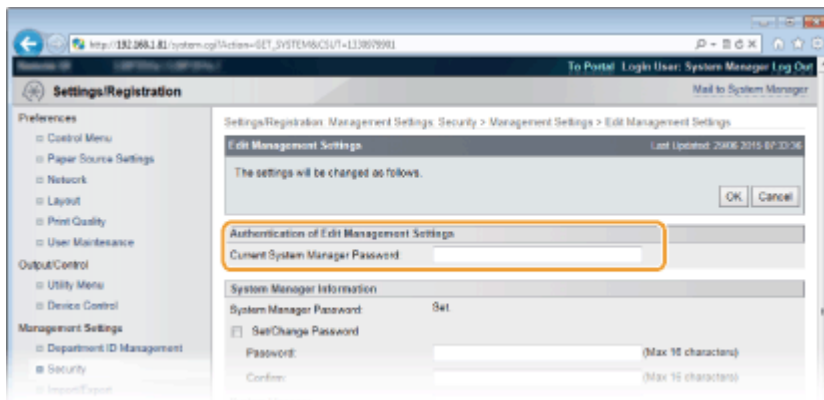
6 Clear the [USB Direct Print] check box and click [OK].
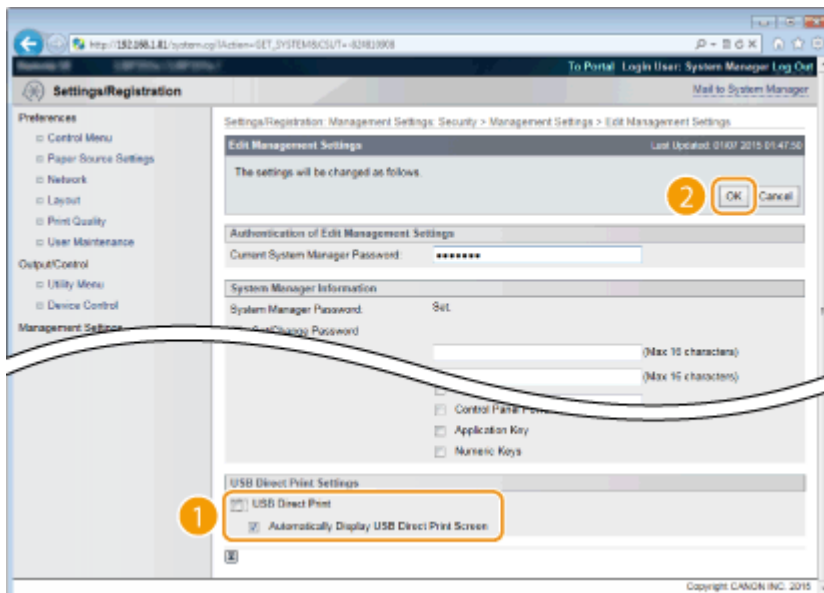
[USB Direct Print]

Clear the check box to disable direct printing from a USB memory device. Select the check box to enable printing from a USB memory device. If you also select the [Automatically Display USB Direct Print Screen] check box, the USB Direct Print screen will be automatically displayed when a USB memory device is attached to the machine.

LINKS

Printing from USB Memory (USB Direct Print)(P. 118)

Restricting Operation Panel Functions

0YS1-04C

You can restrict the use of the keys on the operation panel to prevent the settings of the machine from being carelessly changed.
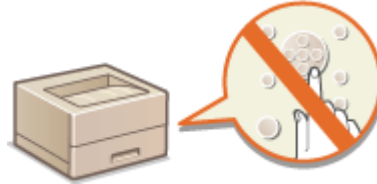
1 **Start the Remote UI and log on in Management Mode.** **⊙Starting Remote UI(P. 336)**

2 **Click [Settings/Registration].**
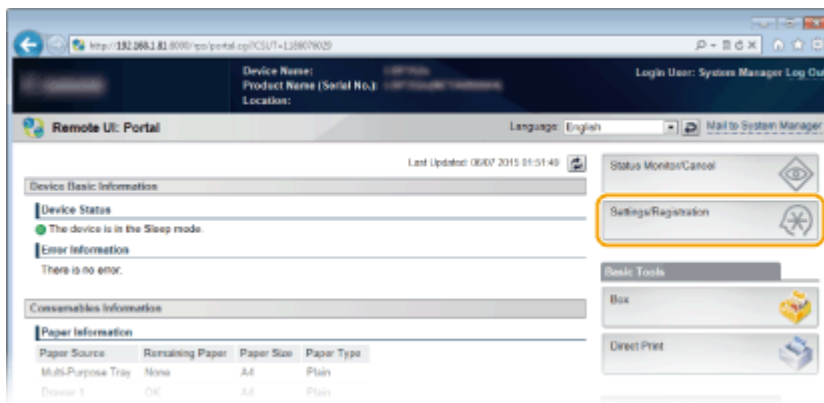
3 **Click [Security]** ▸ **[Management Settings].**
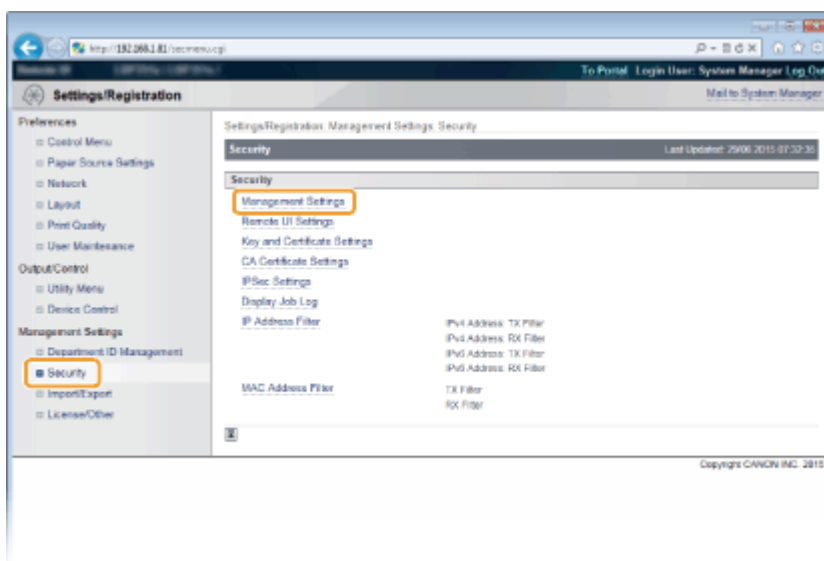
4 **Click [Edit].**
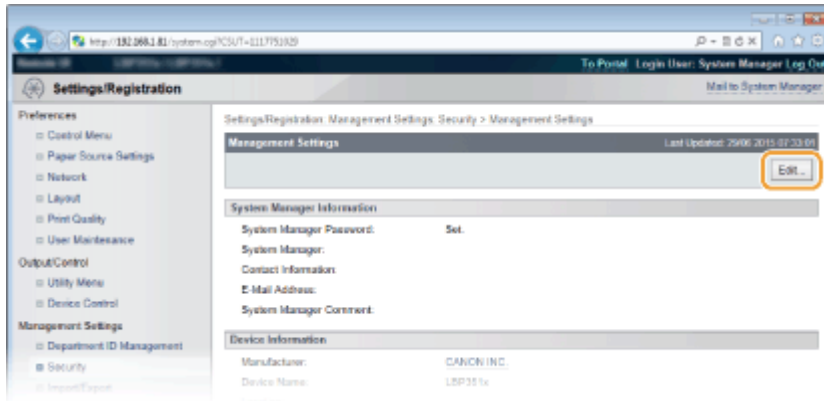
5 Enter the System Manager password in [Current System Manager Password].
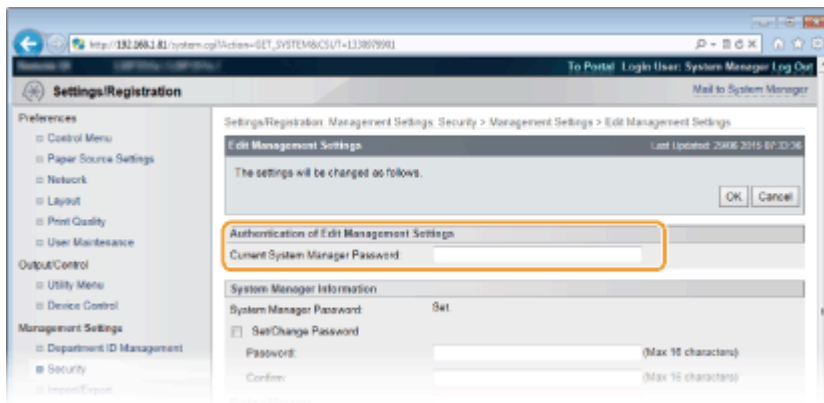
6 Select the check box of the key to restrict and click [OK].
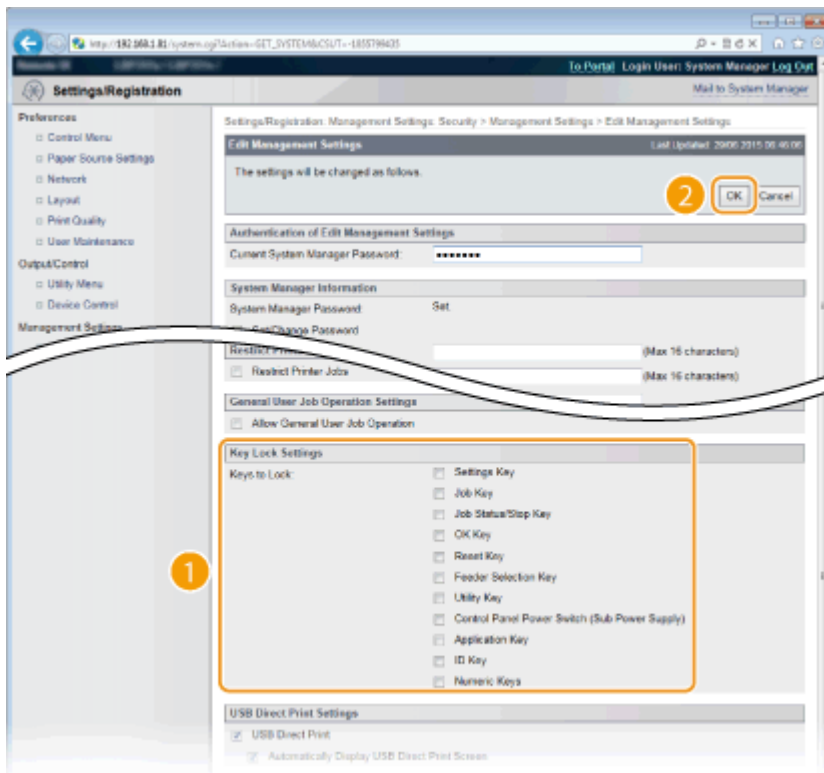
[Keys to Lock]
You can select the check box to lock the corresponding key even when it is pressed on the operation panel.
Clear the check box to unlock the key. You can also lock the Setup key from the operation panel (**◯Mng.
Settings(P. 374)**).

NOTE:

- Functions of the Keys ▶**Operation Panel(P. 24)**

Disabling HTTP Communication

0YS1-04E

HTTP is used for communications over the network, such as when you access the machine via the Remote UI. If you are using a USB connection or are otherwise not using HTTP, you can disable HTTP to block malicious third-party intrusions via the unused HTTP port.

IMPORTANT

- Disabling HTTP disables some of the network capabilities, such as the Remote UI, WSD printing, and printing with Google Cloud Print.

1 Press ▶ (Settings).

2 Use ▲ / ▼ to select <Network>, and press ▣.

- When a message appears, press ▣.

3 Select <TCP/IP Settings> ▶ <HTTP>.

4 Select <Off>, and press ▣.

ⓐ **<Off>**

Disables HTTP communication.

ⓑ **<On>**

Enables HTTP communication.

5 Perform a hard reset. ◖Performing a Hard Reset(P. 499)

➟ The settings are enabled after the hard reset is performed.

LINKS

◖**Using Remote UI(P. 335)**
◖**Configuring Printing Protocols and WSD Functions(P. 200)**
◖**Using Google Cloud Print(P. 179)**
◖**When the XPS Printer Driver Is Used(P. 262)**

Disabling Remote UI

0YS1-04F

The Remote UI is useful because the machine settings can be specified by using a Web browser on a computer. To use the Remote UI, the machine must be connected to a computer over the network. If the machine is connected to a computer via USB, or if you do not need to use the Remote UI, you might want to disable the Remote UI to reduce the risk of having your machine controlled remotely over the network by malicious third parties.

1 Press ▶ (Settings).

2 Use ▲ / ▼ to select **<Network>**, and press OK.

- When a message appears, press OK.

3 Select **<Remote UI Settings>** ▶ **<Remote UI>**.

4 Select **<Off>**, and press OK.

a **<Off>**

Disables the Remote UI.

b **<On>**

Enables the Remote UI.

5 Perform a hard reset. ◉**Performing a Hard Reset(P. 499)**

➠ The settings are enabled after the hard reset is performed.

LINKS

◉**Using Remote UI(P. 335)**
◉**Disabling HTTP Communication(P. 291)**

Disabling the LAN Port

0YS1-04H

A LAN port is an interface that connects a LAN cable for using a network. When you are using the machine via USB, you can disable the LAN port to completely shut down the network, blocking malicious third-party intrusions via the LAN port.

1 Press ▶ (Settings).

2 Use ▲ / ▼ to select <Interface>, and press OK.

3 Select <Interface Selection> and press OK.

- When a message appears, press OK.

4 Select <Network> and press OK.

5 Select <Off> and press OK.

ⓐ **<Off>**

Disables the LAN port.

ⓑ **<On>**

Enables the LAN port.

6 Perform a hard reset. ▶Performing a Hard Reset(P. 499)

➠ The settings are enabled after the hard reset is performed.

Hiding the Print Job History

0YS1-04J

To protect the privacy of users, you can specify settings to disable displaying the print job history on the Remote UI screen and printing the print history list. The print job history is updated and maintained even if it is set to be hidden, so that administrators can view the history as necessary.

1 **Start the Remote UI and log on in Management Mode.** ○**Starting Remote UI(P. 336)**

2 **Click [Settings/Registration].**
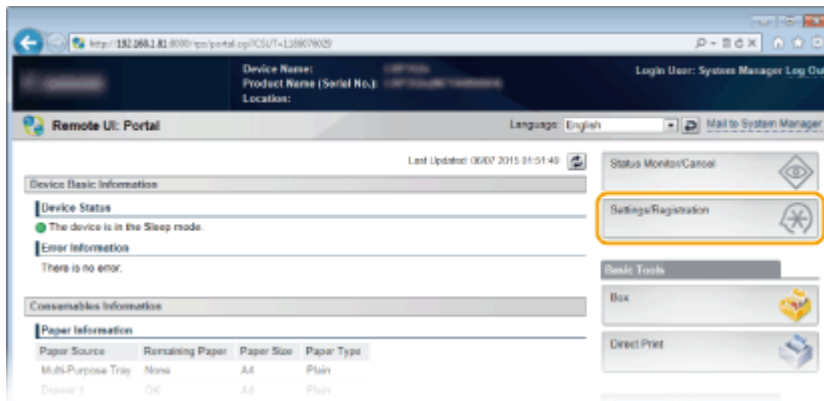
3 **Click [Security]** ▶ **[Display Job Log].**
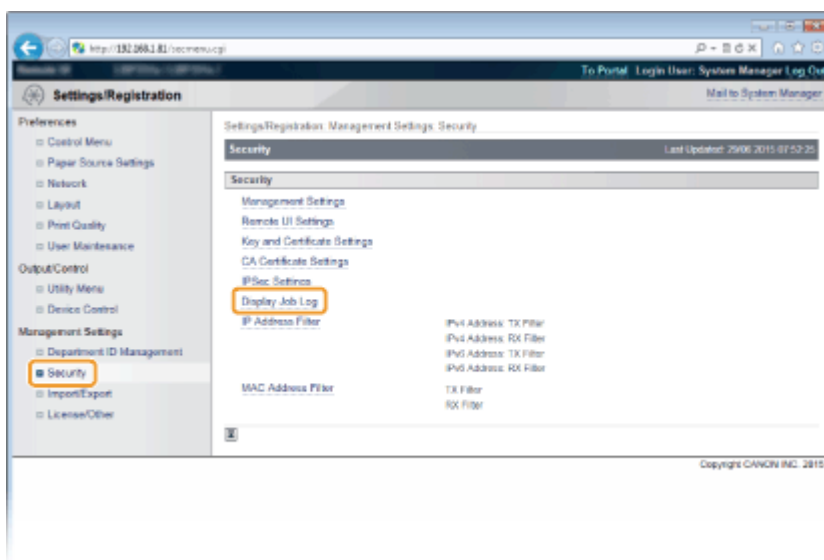
4 **Click [Edit].**
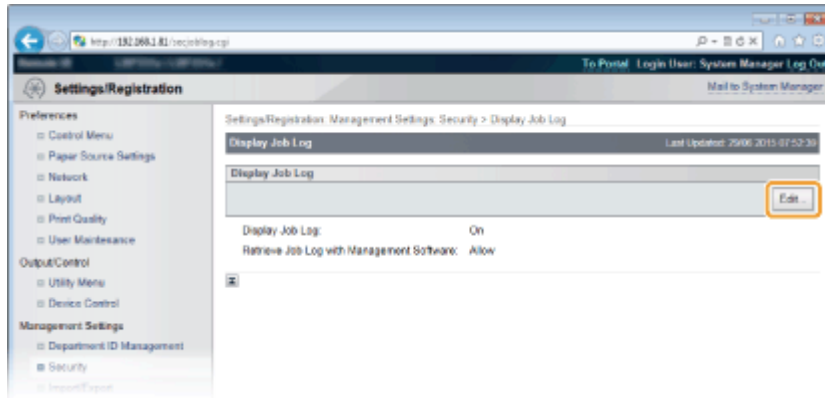
5 **Clear the [Display Job Log] check box and click [OK].**
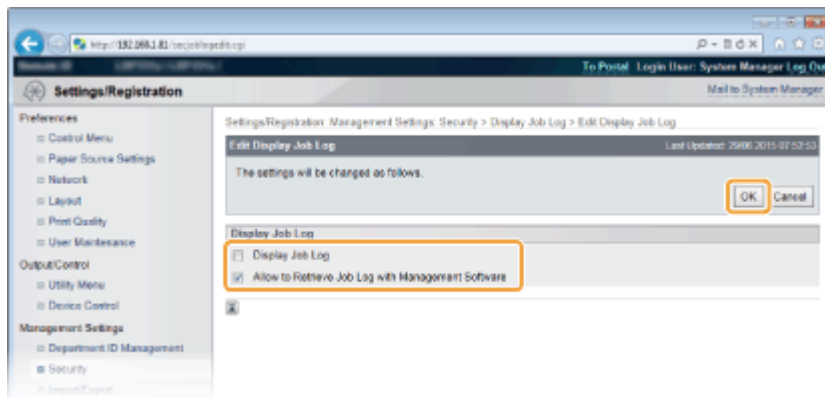
[Display Job Log]
If you clear the check box, the print job history will not be displayed on the Remote UI screen and the print history list cannot be printed, either. To display the job history, select the check box.

[Allow to Retrieve Job Log with Management Software]
If you select the check box, device management software such as imageWARE Enterprise Management Console can be used to obtain a print job history. Clear the check box to disable the management software to obtain the print job history. This function is automatically enabled when the [Display Job Log] check box is selected.

LINKS

⬤**Checking History of Documents(P. 346)**
⬤**Job Menu(P. 497)**

Implementing Robust Security Features

0YS1-04K

Authorized users may incur unanticipated losses from attacks by malicious third parties, such as sniffing, spoofing, and tampering of data as it flows over a network. To protect your important and valuable information from these attacks, the machine supports the following features to enhance security and secrecy.

TLS Encrypted Communication

TLS is a protocol for encryption for data sent over a network and is often used for communication via a Web browser or an e-mail application. TLS enables secure network communication when you access the machine from a computer via the Remote UI. **Using TLS for Encrypted Communications(P. 297)**

IPSec Communication

While TLS only encrypts data used on a specific application, such as a Web browser or an e-mail application, IPSec encrypts the whole (or payloads of) IP packets. This enables IPSec to offer a more versatile security system than TLS. **Configuring IPSec Settings(P. 301)**
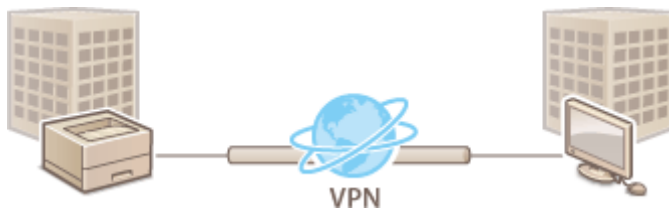
IEEE 802.1X Authentication

IEEE 802.1X is a standard and mechanism for blocking unauthorized access to the network by collectively managing user authentication information. If a device tries to connect to the 802.1X network, the device must go through user authentication in order to prove that the connection is made by an authorized user. Authentication information is sent to and checked by a RADIUS server, which permits or rejects communication to the network depending on the authentication result. If authentication fails, a LAN switch blocks access from the outside of the network. The machine can connect to an 802.1X network as a client device. **Configuring IEEE 802.1X Authentication(P. 312)**
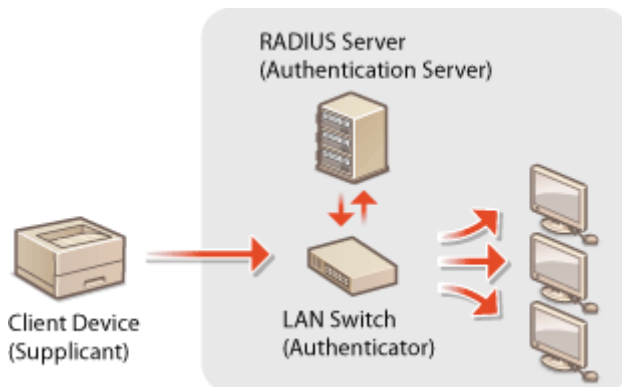
LINKS

Configuring Settings for Key Pairs and Digital Certificates(P. 318)

# Using TLS for Encrypted Communications

0YS1-04L

You can encrypt communication between the machine and a Web browser on the computer and the IPP Print data to print via Internet by using Transport Layer Security (TLS). TLS is a mechanism for encrypting data sent or received over the network. TLS must be enabled when the Remote UI is used for specifying settings for IPSec (Pre-Shared Key Method), IEEE 802.1X authentication (TTLS/PEAP), or SNMPv3. To use TLS encrypted communication, you need to set a key pair and enable the TLS function. Have a key pair to use ready (▶**Configuring Settings for Key Pairs and Digital Certificates(P. 318)**).

1 **Start the Remote UI and log on in Management Mode.** ▶**Starting Remote UI(P. 336)**

2 **Click [Settings/Registration].**
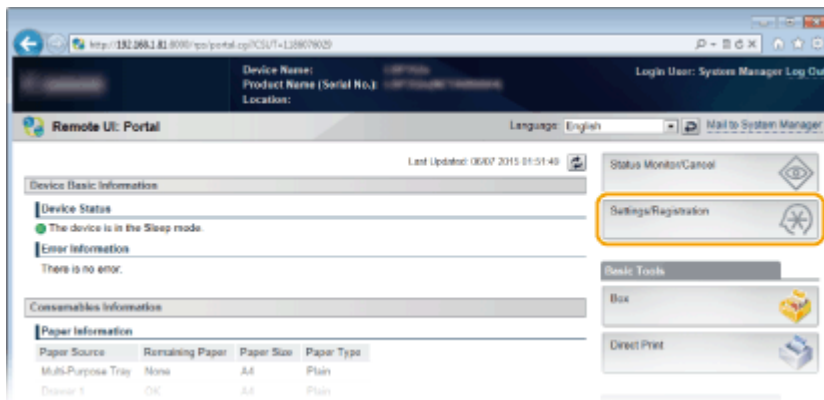
3 **Click [Network]** ▶ **[TCP/IP Settings].**
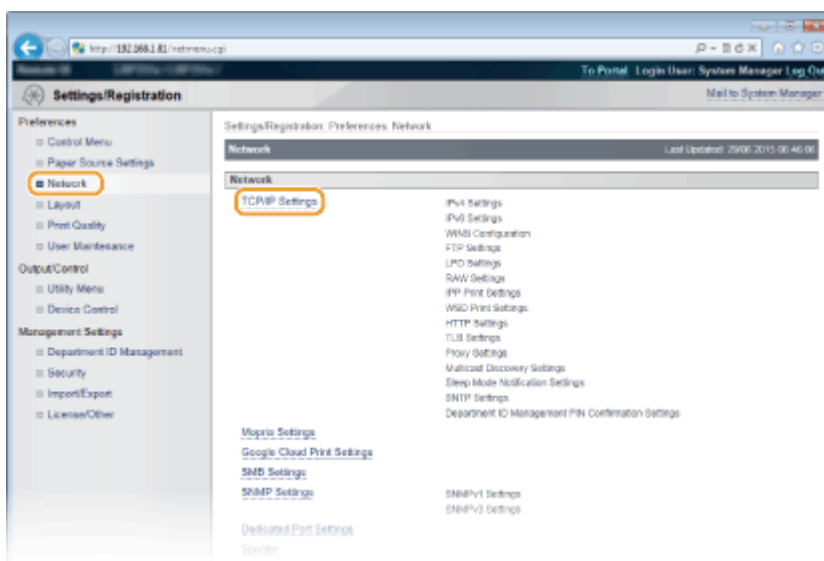
4 **Click [Key and Certificate] in [TLS Settings].**
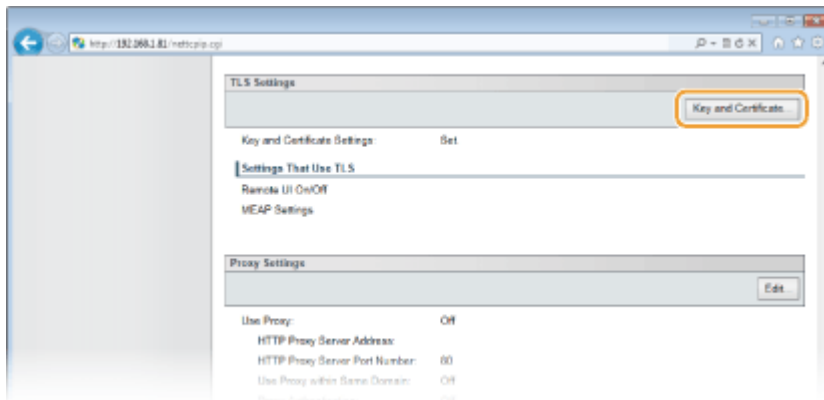
5 **Select a key from the list of keys and certificates, and click [Default Key Settings].**
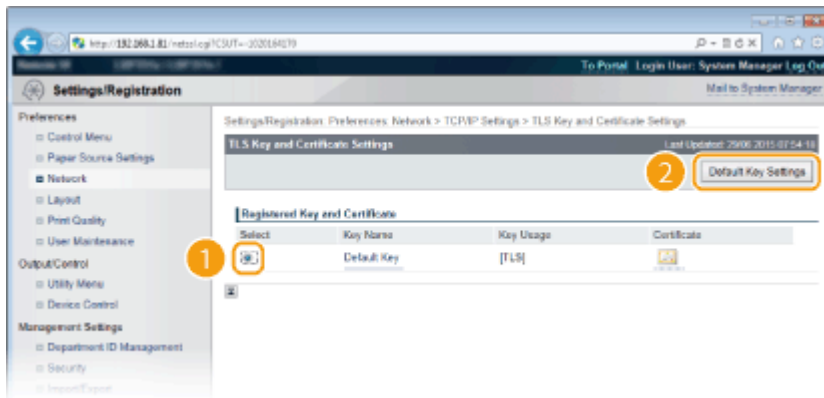
NOTE:

Viewing details of a certificate

● You can check the details of the certificate or verify the certificate by clicking the corresponding text link under [Key Name], or the certificate icon. ◉**Verifying Key Pairs and Digital Certificates(P. 332)**

If [Default Key Settings] is not displayed

● When TLS is already enabled by [Remote UI Settings] or [IPP Print Settings], [Default Key Settings] is not displayed. To change the key to use, refer to step 6 and clear the [Use TLS] check boxes under [Remote UI Settings] or [IPP Print Settings], respectively.

6 **Enable TLS for the Remote UI.**

■**Using TLS for communication with the Remote UI**

1 Click [Security] ▶ [Remote UI Settings].
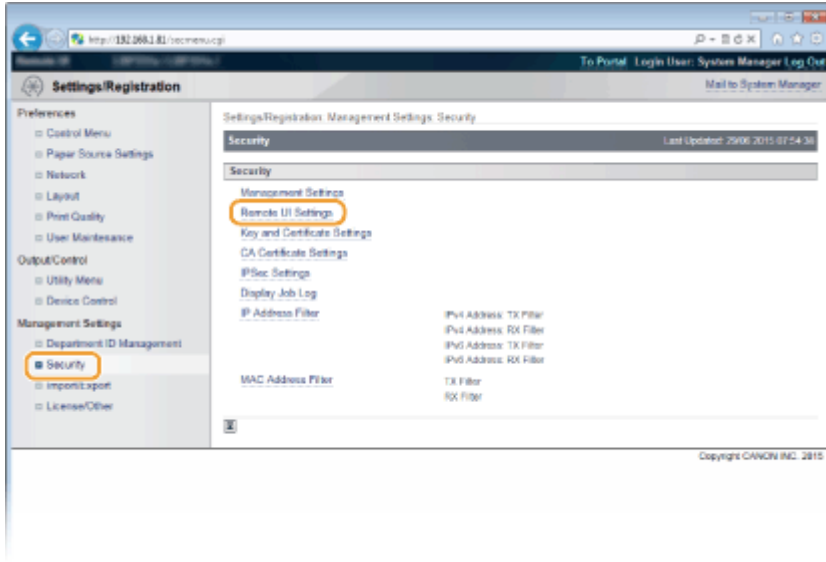
2 Click [Edit].
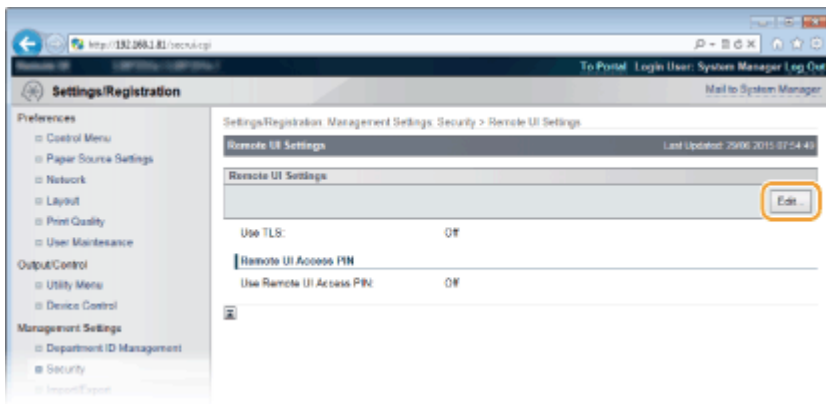
3 Select the [Use TLS] check box and click [OK].
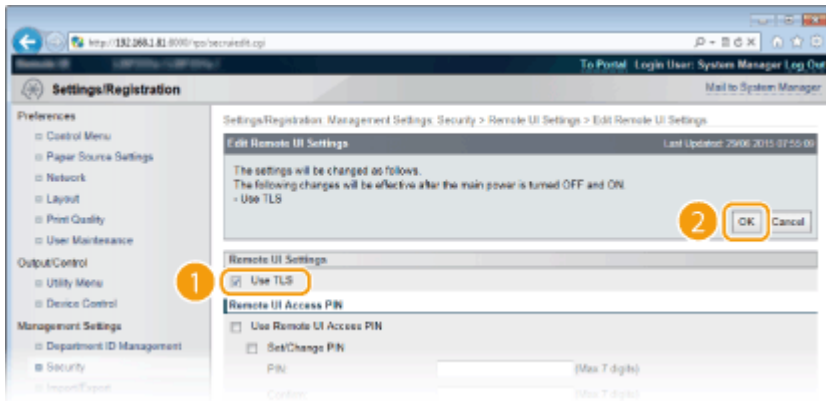
[Use TLS]
When using TLS for Remote UI communication, select the check box. When not using, clear the check box.

■ Using TLS for a function that is compatible with encrypted communication

Using TLS for IPP printing

Make the following setting to perform IPP printing using TLS. For other IPP print settings, see ●**Configuring Printing Protocols and WSD Functions(P. 200)** .

[Network] ▶ [TCP/IP Settings] ▶ [Edit] in [IPP Print Settings] ▶ Select the [Use TLS] check box ▶ [OK]

7 Perform a hard reset.
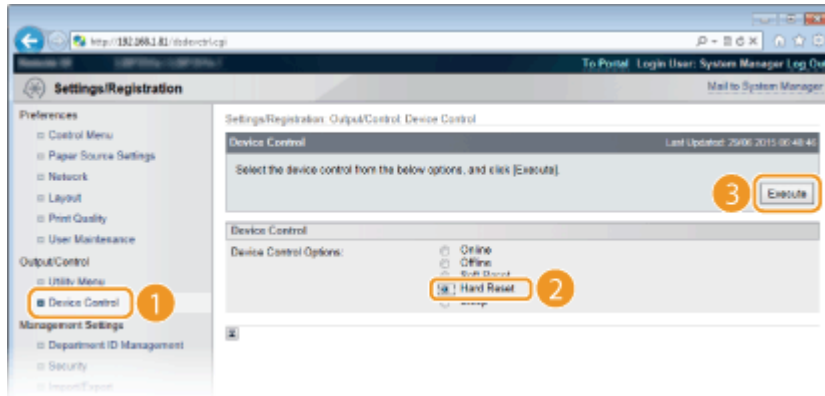
- Click [Device Control], select [Hard Reset], and then click [Execute].

➥ The settings are enabled after the hard reset is performed.

NOTE

Using the operation panel

- You can also enable or disable TLS encrypted communication from the setting menu of the operation panel.
❏**Remote UI Settings(P. 394)**

Starting the Remote UI with TLS

- If you try to start the Remote UI when TLS is enabled, a security alert may be displayed regarding the security certificate. In this case, check that the correct URL is entered in the address field, and then proceed to display the Remote UI screen. ❏**Starting Remote UI(P. 336)**

LINKS

❏**Generating Key Pairs(P. 320)**
❏**Using CA-issued Key Pairs and Digital Certificates(P. 329)**
❏**Configuring IPSec Settings(P. 301)**
❏**Configuring IEEE 802.1X Authentication(P. 312)**
❏**Monitoring and Controlling the Machine with SNMP(P. 235)**

Configuring IPSec Settings

0YS1-04R

Internet Protocol Security (IPSec or IPsec) is a protocol suite for encrypting data transported over a network, including Internet networks. While TLS only encrypts data used on a specific application, such as a Web browser or an e-mail application, IPSec encrypts either whole IP packets or the payloads of IP packets, offering a more versatile security system. The IPSec of the machine works in transport mode, in which the payloads of IP packets are encrypted. With this feature, the machine can connect directly to a computer that is in the same virtual private network (VPN). Check the system requirements and set the necessary configuration on the computer before you configure the machine.
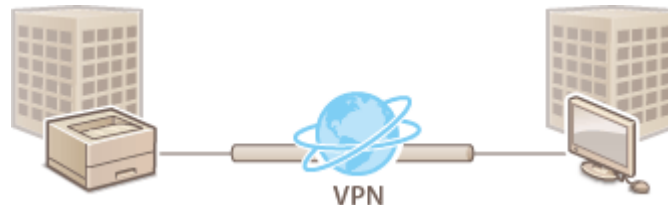
�’**Registering Security Policies(P. 302)**
�’**Enabling IPSec Communication(P. 309)**

System Requirements

IPSec that is supported by the machine conforms to RFC4301, RFC4302, RFC4303, and RFC4305.

Operating systems supported by communication partners	Windows Vista/7/8/10/Server 2003/Server 2008/Server 2012	
Connection mode	Transport mode	
Key exchange protocol	IKEv1	
	Print Mode	• Main mode • Aggressive mode
	Authentication method	• Pre-shared key • Digital signature
	Hash algorithm	• HMAC-MD5-96 • HMAC-SHA1-96
	Encryption algorithm (and key length)	• 3DES-CBC • AES-CBC (128 bits, 192 bits, or 256 bits)
	Key exchange algorithm/group (and key length)	Diffie-Hellman (DH) • Group 1 (768 bits) • Group 2 (1024 bits) • Group 14 (2048 bits)
ESP (Encapsulating Security Payload)	Hash algorithm	• HMAC-MD5-96 • HMAC-SHA1-96
	Encryption algorithm (and key length)	• 3DES-CBC • AES-CBC (128 bits, 192 bits, or 256 bits)
AH (Authentication Header)	Hash algorithm	• HMAC-MD5-96 • HMAC-SHA1-96

IMPORTANT

Before configuring IPSec communication settings

● Check the IPSec settings in the operating system the machine will communicate with. An incorrect combination of the operating system settings and machine settings will disable the IPSec communication.

NOTE

IPSec functional restrictions

● IPSec supports communication to a unicast address (or a single device).

● The machine cannot use both IPSec and DHCPv6 at the same time.

● IPSec is unavailable in networks in which NAT or IP masquerade is implemented.

● In IKEv1 phase1, PFS is not supported.

Using IPSec with IP address filter

● The IPSec settings are applied before the IP address filter settings during packet reception while the IP address settings are applied before the IPSec settings during packet transmission. ●**Specifying IP Addresses for Firewall Rules(P. 268)**

Registering Security Policies

To use IPSec for encrypted communication, you need to register security policies (SP) before enabling the IPSec settings (●**Enabling IPSec Communication(P. 309)**). A security policy consists of the groups of settings described below. Up to 10 policies can be registered. You can register multiple policies according to a combination of the IP address and the port number. After registering policies, specify the order in which they are applied.

Selector

Selector defines conditions for IP packets to apply IPSec communication. Selectable conditions include IP addresses and port numbers of the machine and the devices to communicate with.

IKE

IKE configures the IKEv1 that is used for key exchange protocol. Note that instructions vary depending on the authentication method selected.

[Pre-Shared Key Method]
A key of up to 24 alphanumeric characters can be shared with the other devices. Enable TLS for the Remote UI in advance (●**Using TLS for Encrypted Communications(P. 297)**).

[Digital Signature Method]
The machine and the other devices authenticate each other by mutually verifying their digital signatures. Have a key pair to use ready (●**Using CA-issued Key Pairs and Digital Certificates(P. 329)**).

### Setting Protocols and Options

Specify the settings for ESP and AH, which are added to packets during IPSec communication. ESP and AH cannot be used at the same time. You can also select whether or not to enable PFS for tighter security.

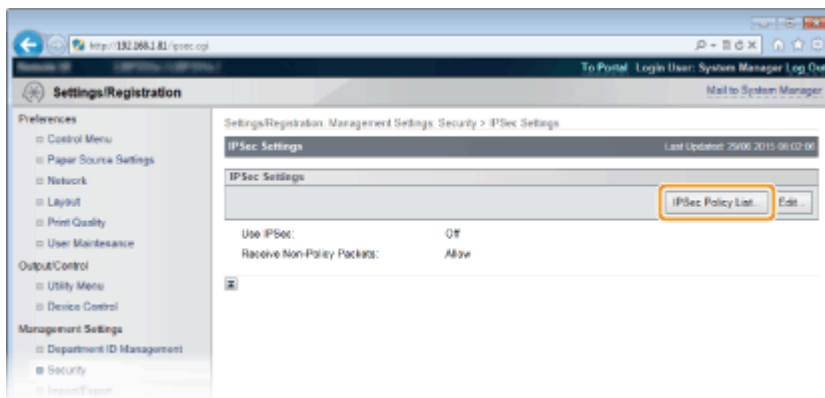**1** **Start the Remote UI and log on in Management Mode. ●Starting Remote UI(P. 336)**

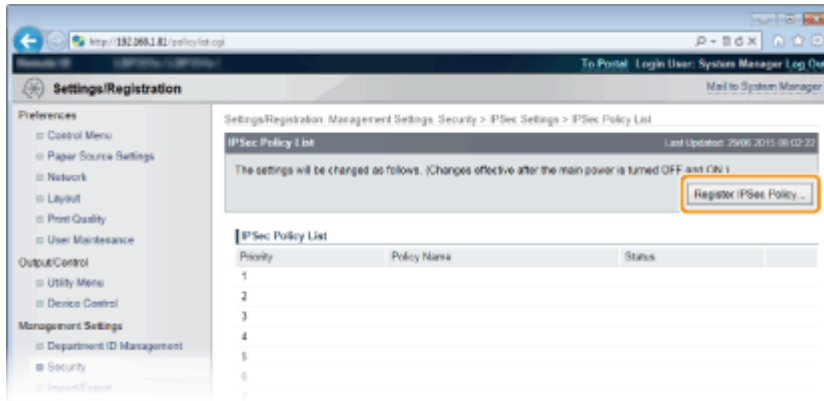**2** **Click [Settings/Registration].**
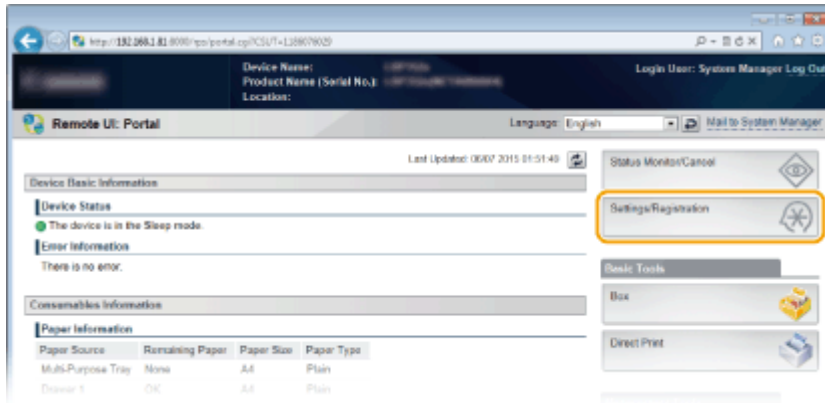
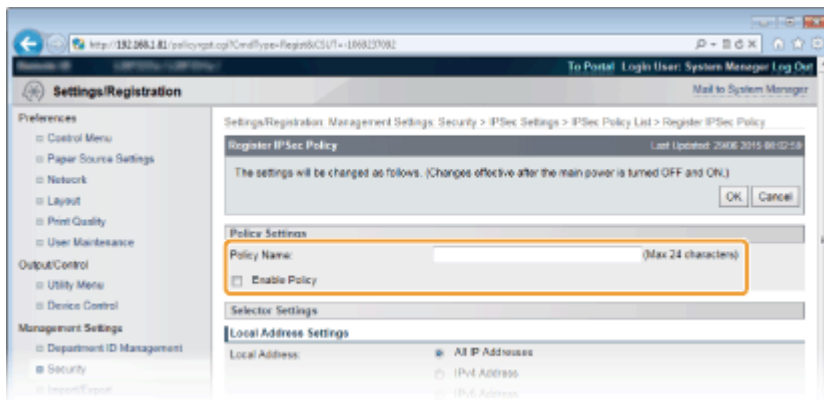**3** Click [Security] ▶ [IPSec Settings].
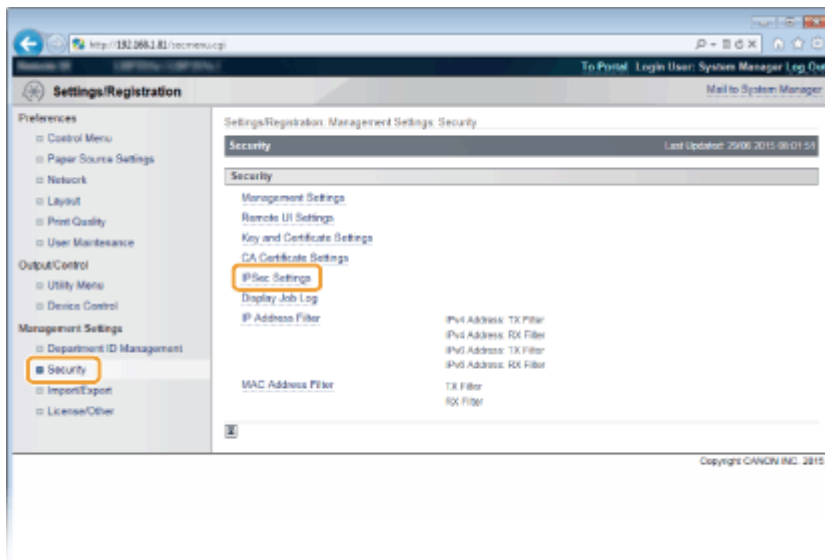
4 Click [IPSec Policy List].

5 Click [Register IPSec Policy].

6 Enter a policy name in [Policy Name], and select the [Enable Policy] check box.
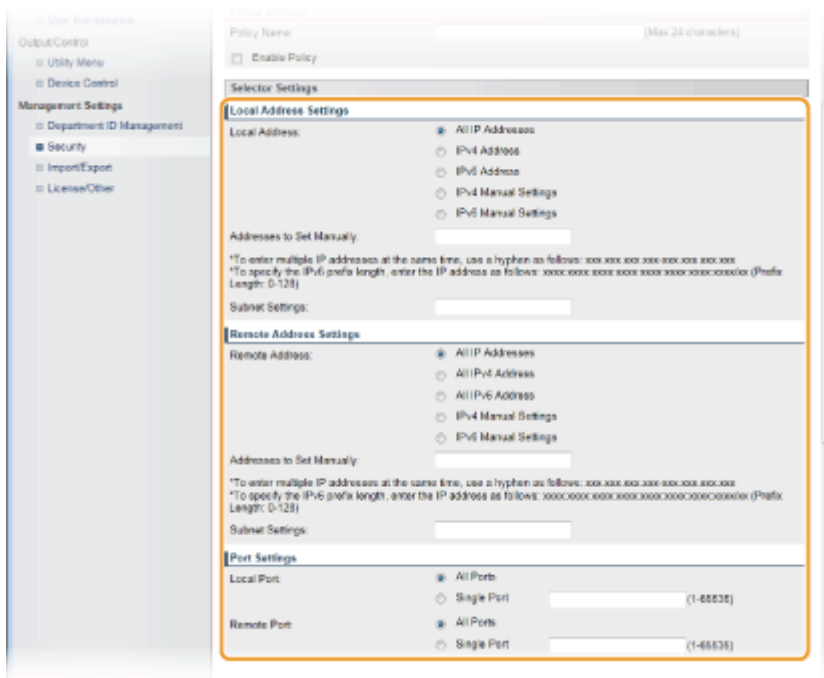

[Policy Name]
Enter up to 24 alphanumeric characters for a name that is used for identifying the policy.

[Enable Policy]
Select the check box to enable the policy. When not using the policy, clear the check box.

7 Specify the selector settings.

[Local Address]

Select the type of the IP address of the machine to apply the policy from the following list.

[All IP Addresses]	Select to use IPSec for all IP packets.
[IPv4 Address]	Select to use IPSec for all IP packets that are sent to or from the IPv4 address of the machine.
[IPv6 Address]	Select to use IPSec for all IP packets that are sent to or from an IPv6 address of the machine.
[IPv4 Manual Settings]	Select to specify a single IPv4 address or a range of IPv4 addresses to apply IPSec. Enter the IPv4 address (or the range) in the [Addresses to Set Manually] text box.
[IPv6 Manual Settings]	Select to specify a single IPv6 address or a range of IPv6 addresses to apply IPSec. Enter the IPv6 address (or the range) in the [Addresses to Set Manually] text box.

[Addresses to Set Manually]
If [IPv4 Manual Settings] or [IPv6 Manual Settings] is selected for [Local Address], enter the IP address to apply the policy.

[Subnet Settings]
When manually specifying IPv4 addresses, you can express the range by using the subnet mask. Enter the subnet mask using periods to delimit numbers (example:"255.255.255.240").

[Remote Address]
Select the type of IP address of the other devices to apply the policy from the list shown below.

[All IP Addresses]	Select to use IPSec for all IP packets.
[All IPv4 Address]	Select to use IPSec for all IP packets that are sent to or from an IPv4 address.
[All IPv6 Address]	Select to use IPSec for all IP packets that are sent to or from an IPv6 address.
[IPv4 Manual Settings]	Select to specify a single IPv4 address or a range of IPv4 addresses to apply IPSec. Enter the IPv4 address (or the range) in the [Addresses to Set Manually] text box.
[IPv6 Manual Settings]	Select to specify a single IPv6 address or a range of IPv6 addresses to apply IPSec. Enter the IPv6 address (or the range) in the [Addresses to Set Manually] text box.

[Addresses to Set Manually]
If [IPv4 Manual Settings] or [IPv6 Manual Settings] is selected for [Remote Address], enter the IP address to apply the policy.

[Subnet Settings]
When manually specifying IPv4 addresses, you can express the range by using the subnet mask. Enter the subnet mask using periods to delimit numbers (example:"255.255.255.240").

[Local Port]/[Remote Port]
If you want to create separate policies for each protocol, such as HTTP or SMTP, enter the appropriate port number for the protocol to determine whether to use IPSec.

IMPORTANT:

- IPSec is not applied to the packets that have a specified multicast or broadcast address.

8 **Specify the IKE Settings.**
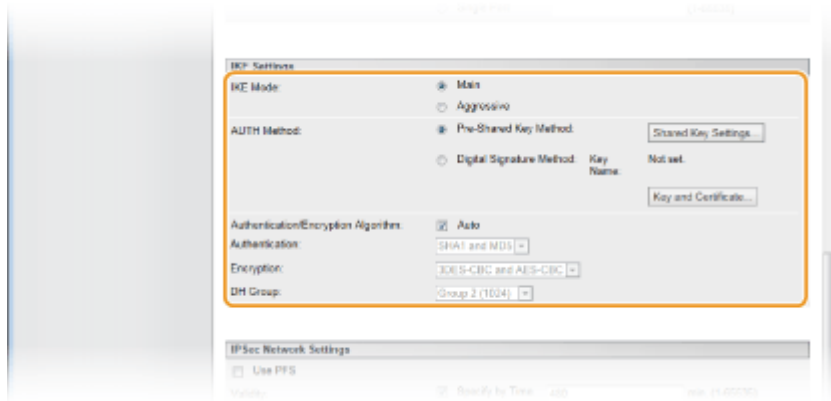
[IKE Mode]

The mode used for the key exchange protocol is displayed. Normally select the main mode.

NOTE:

- Select the aggressive mode when the IP address is not fixed. Note that security is lower in the aggressive mode than in the main mode.

[AUTH Method]

Select [Pre-Shared Key Method] or [Digital Signature Method] for the method used when authenticating the machine.

IMPORTANT:

- When the aggressive mode is selected in [IKE Mode], the [Pre-Shared Key Method] setting does not encrypt the shared key.

[Authentication/Encryption Algorithm]

To automatically set the algorithm that is used for key exchange, select the [Auto] check box. If you select the check box, the algorithm is set as shown below.

[Authentication]	[SHA1 and MD5]
[Encryption]	[3DES-CBC and AES-CBC]
[DH Group]	[Group 2 (1024)]

To manually set the algorithm, clear the check box and select the algorithm.

[Authentication]	Select the hash algorithm.
[Encryption]	Select the encryption algorithm.
[DH Group]	Select the Diffie-Hellman group, which determines the key strength.

◾Using [Pre-Shared Key Method] for authentication

1 Select [Pre-Shared Key Method] for [AUTH Method] and click [Shared Key Settings].

2 Enter up to 24 alphanumeric characters for the pre-shared key and click [OK].
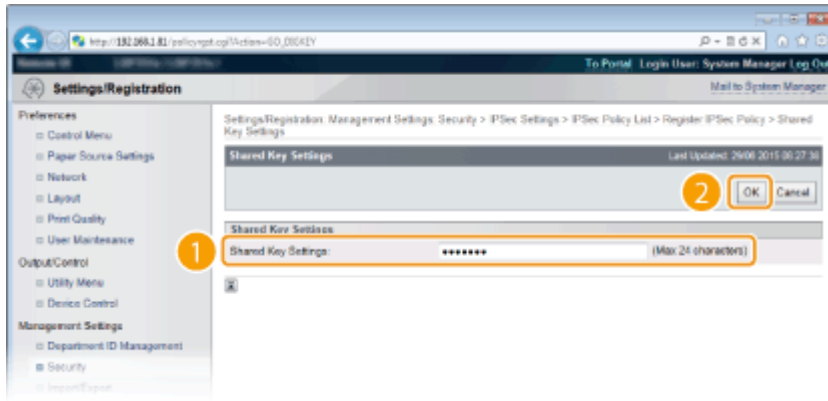
■Using [Digital Signature Method] for authentication

1 Select [Digital Signature Method] for [AUTH Method] and click [Key and Certificate].

2 Select the key pair you want to use, and click [Default Key Settings].
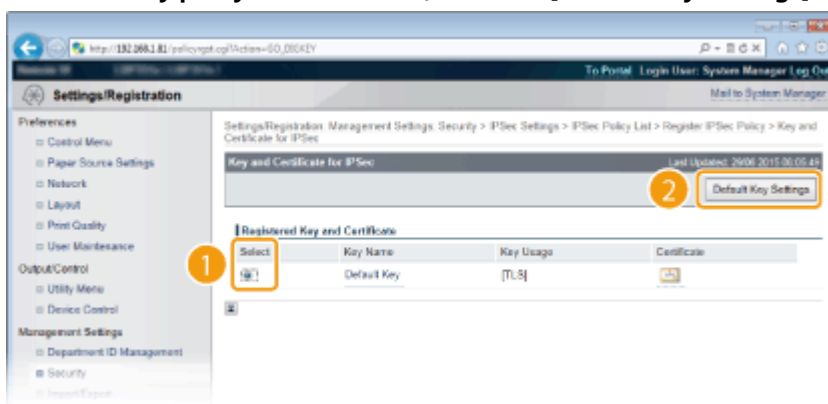
NOTE:

Viewing details of a key pair or certificate

- You can check the details of the certificate or verify the certificate by clicking the corresponding text link under [Key Name], or the certificate icon. **○Verifying Key Pairs and Digital Certificates(P. 332)**

9 Specify the IPSec Network Settings.
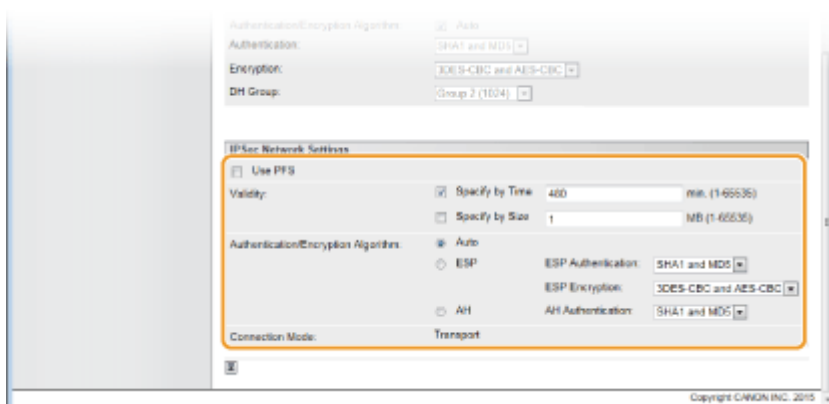
[Use PFS]

Select the check box to enable Perfect Forward Secrecy (PFS) for IPSec session keys. Enabling PFS enhances the security while increasing the load on the communication. Make sure that PFS is also enabled for the other devices. When not using PFS, clear the check box.

[Validity]

Specify how long SA is used as a communication tunnel. Select the [Specify by Time] or [Specify by Size] check box or both check boxes as necessary. If both check boxes are selected, the IPSec SA session is terminated when either of the conditions has been satisfied.

[Specify by Time]	Enter a time in minutes to specify how long a session lasts. The entered time is applied to both IPSec SA and IKE SA.
[Specify by Size]	Enter a size in megabytes to specify how much data can be transported in a session. The entered size is applied to IPSec SA only.

NOTE:

If you have selected the [Specify by Size] check box only

- The IKE SA validity cannot be specified by size, so that the initial value (480 minutes) of [Specify by Time] is applied.

[Authentication/Encryption Algorithm]
Select the protocol and algorithm to use for IPSec communication.

■ **Automatically setting up connection**

Select [Auto].

[ESP Authentication]	ESP is enabled and the authentication algorithm is set to [SHA1 and MD5].
[ESP Encryption]	ESP is enabled and the encryption algorithm is set to [3DES-CBC and AES-CBC].

■ **Using ESP**

Choose [ESP] and select the authentication algorithm and encryption algorithm.

[ESP Authentication]	Select the hash algorithm to use for ESP authentication.
[ESP Encryption]	Select the encryption algorithm for ESP.

■**Using AH**

Choose [AH], and select the hash algorithm to use for AH authentication from [AH Authentication].

[Connection Mode]
The connection mode of IPSec is displayed. The machine supports transport mode, in which the payloads of IP packets are encrypted. Tunnel mode, in which whole IP packets (headers and payloads) are encapsulated is not available.

10 Click [OK].

- If you need to register an additional security policy, return to step 5.

11 Arrange the order of policies listed under [IPSec Policy List].

- Policies are applied from one at the highest position to the lowest. Click [Raise Priority] or [Lower Priority] to move a policy up or down the order.
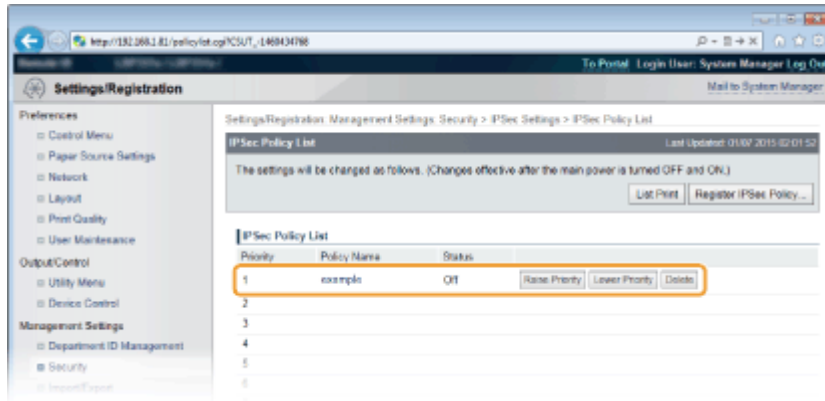
NOTE:

Editing a policy

- You can click the text link under [Policy Name] to edit the settings.

Deleting a policy

- Click [Delete] on the right of the policy that you want to delete.

12 Perform a hard reset.

- Click [Device Control], select [Hard Reset], and then click [Execute].
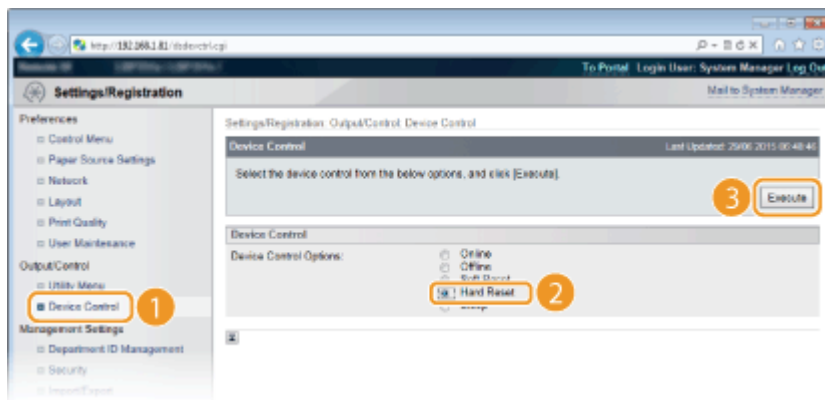
➡ The settings are enabled after a hard reset is performed.

Enabling IPSec Communication

After completion of registering security policies, enable the IPSec communication.

1 Start the Remote UI and log on in Management Mode. ○Starting Remote UI(P. 336)

2 Click [Settings/Registration].
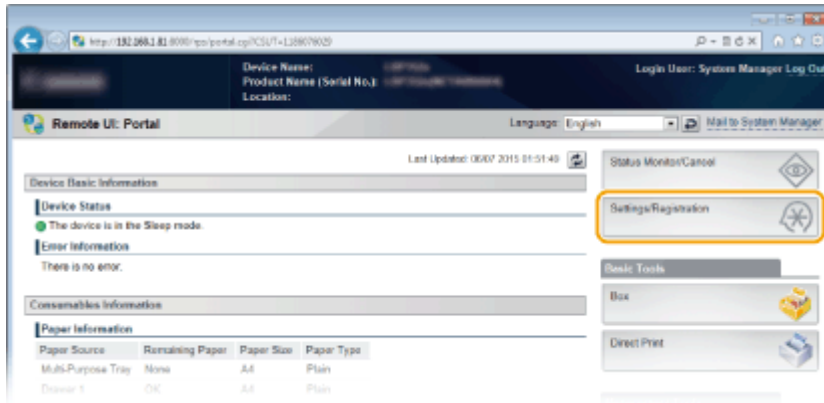
3 **Click [Security] ▶ [IPSec Settings].**
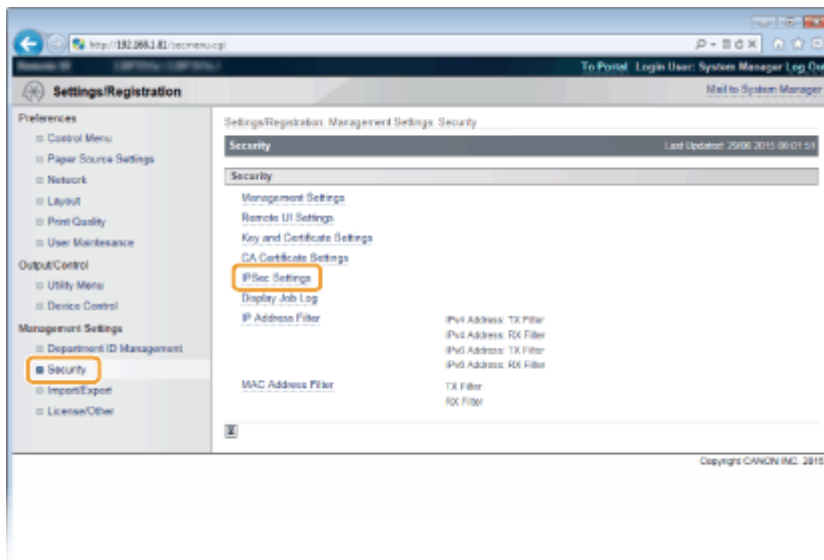

4 **Click [Edit].**
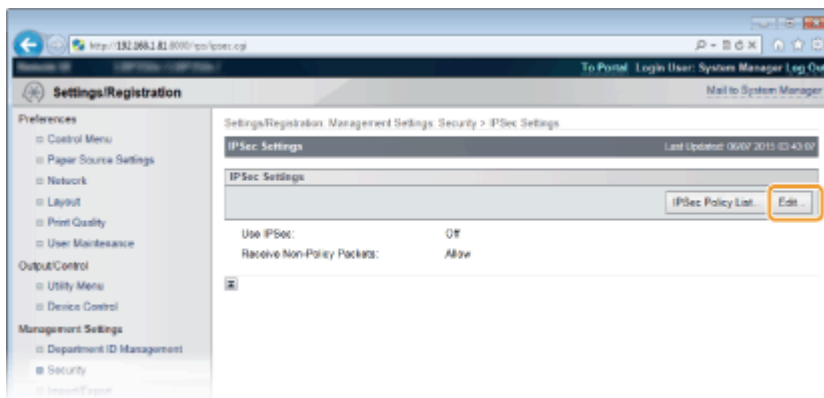
5 **Select the [Use IPSec] check box and click [OK].**
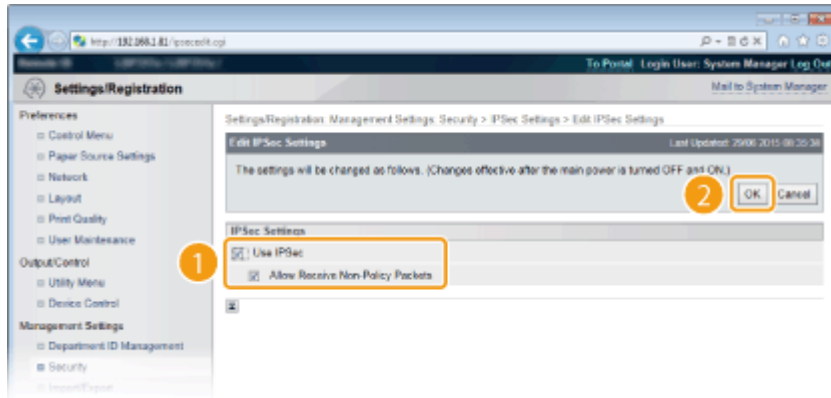
[Use IPSec]

When using IPSec in the machine, select the check box. When not using, clear the check box.

[Allow Receive Non-Policy Packets]
If you select the check box when using IPSec, packets that are not available for the registered policies are also sent/received. To disable sending/receiving the packets that are not available for the policies, clear the check box.

6 Perform a hard reset.

● Click [Device Control], select [Hard Reset], and then click [Execute].
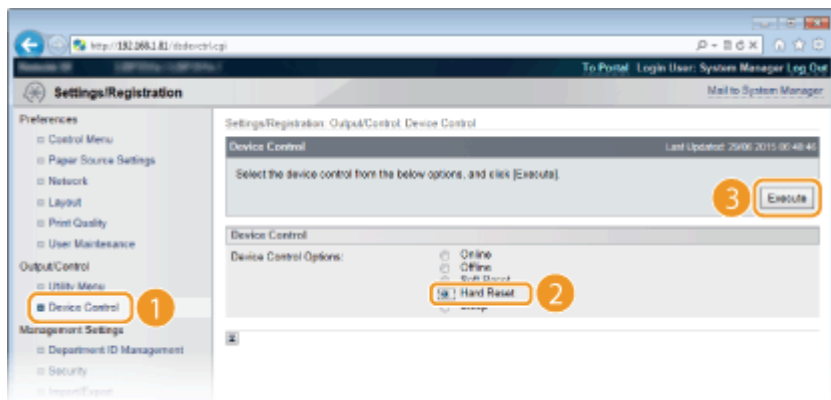
➡ The settings are enabled after the hard reset is performed.

NOTE

Using the operation panel

● You can also enable or disable IPSec communication from the setting menu of the operation panel. **IPSec(P. 389)**

LINKS

Configuring Settings for Key Pairs and Digital Certificates(P. 318)
IPSec Policy List(P. 493)

Configuring IEEE 802.1X Authentication

0YS1-04S

The machine can connect to an 802.1X network as a client device. A typical 802.1X network consists of a RADIUS server (authentication server), LAN switch (authenticator), and client devices with authentication software (supplicants). If a device tries to connect to the 802.1X network, the device must go through user authentication in order to prove that the connection is made by an authorized user. Authentication information is sent to and checked by a RADIUS server, which permits or rejects communication to the network depending on the authentication result. If authentication fails, a LAN switch (or an access point) blocks access from the outside of the network.
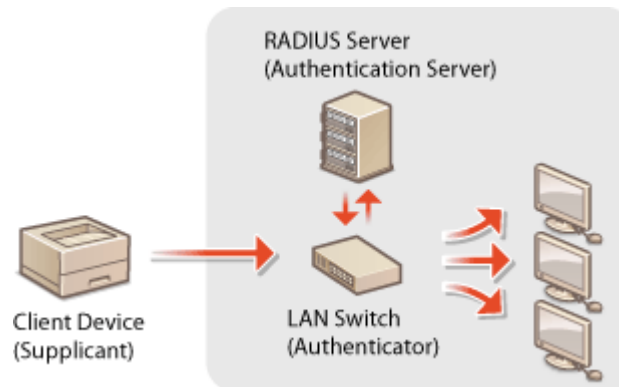
Select the authentication method from the options below. If necessary, install or register a key pair or CA certificate before configuring IEEE 802.1X authentication (❯**Using CA-issued Key Pairs and Digital Certificates(P. 329)**).

TLS

The machine and the authentication server authenticate each other by mutually verifying their certificates. A key pair issued by a certification authority (CA) is required for the client authentication (when authenticating the machine). For the server authentication, a CA certificate installed via the Remote UI can be used in addition to a CA certificate preinstalled in the machine.

TTLS

This authentication method uses a user name and password for the client authentication and a CA certificate for the server authentication. MSCHAPv2 or PAP can be selected as the internal protocol. TTLS can be used with PEAP at the same time. Enable TLS for the Remote UI before configuring this authentication method (❯**Using TLS for Encrypted Communications(P. 297)**).

PEAP

The required settings are almost the same as those of TTLS. MS-CHAPv2 is used as the internal protocol. Enable TLS for the Remote UI before configuring this authentication method (❯**Using TLS for Encrypted Communications(P. 297)**).

1 **Start the Remote UI and log on in Management Mode.** ❯**Starting Remote UI(P. 336)**

2 **Click [Settings/Registration].**

3 **Click [Network] ▶ [IEEE 802.1X Settings].**
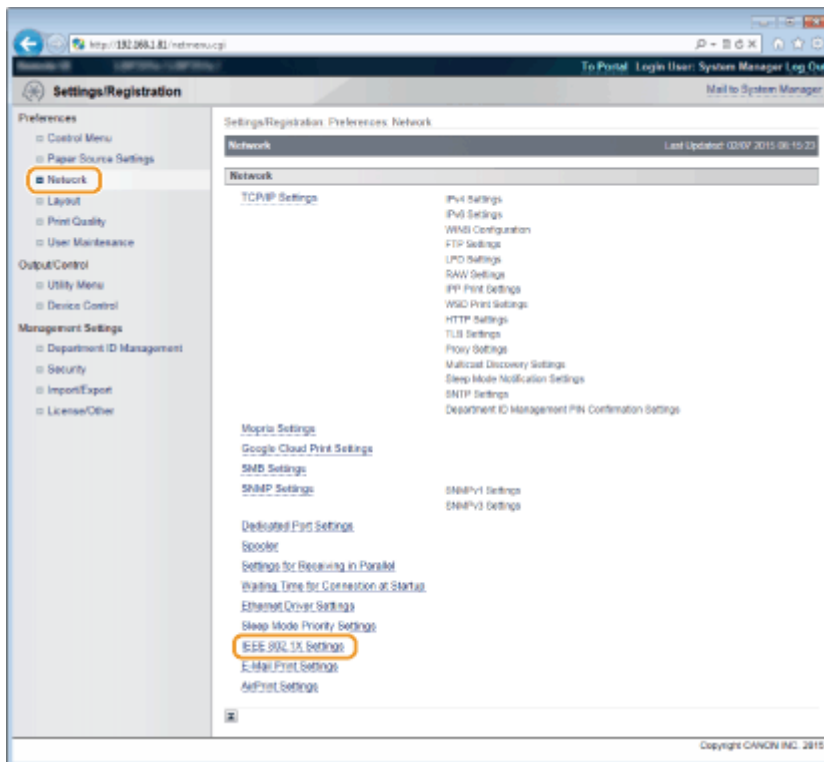
4 **Click [Edit].**
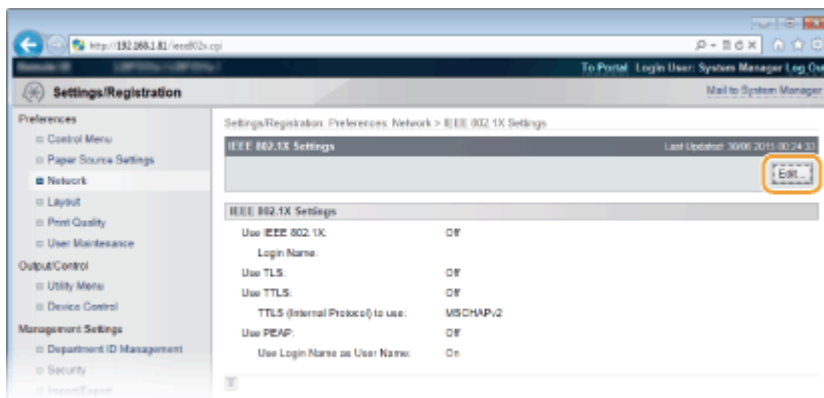
5 **Select the [Use IEEE 802.1X] check box, enter the login name in the [Login Name] text box, and specify the required settings.**
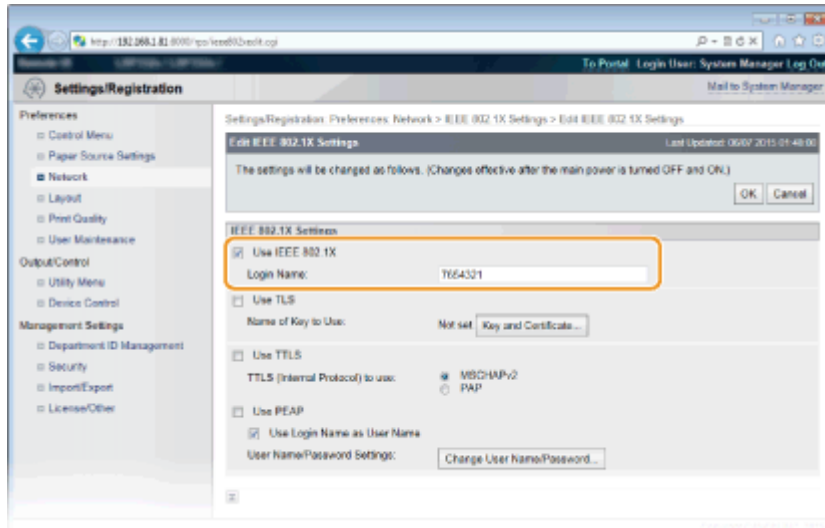
[Use IEEE 802.1X]
Select the check box to enable IEEE 802.1X authentication.

[Login Name]
Enter up to 24 alphanumeric characters for a name (EAP identity) that is used for identifying the user.

Setting TLS

1 Select the [Use TLS] check box and click [Key and Certificate].

- You cannot use TLS with TTLS or PEAP.

2 Select a key from the list of keys and certificates, and click [Default Key Settings].
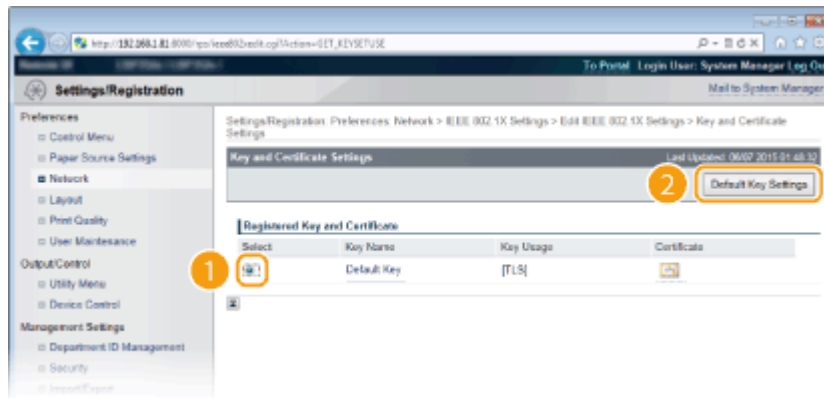
NOTE:

Viewing details of a key pair or certificate

- You can check the details of the certificate or verify the certificate by clicking the corresponding text link under [Key Name], or the certificate icon. **Verifying Key Pairs and Digital Certificates(P. 332)**

Setting TTLS/PEAP

1 Select the [Use TTLS] or [Use PEAP] check box.
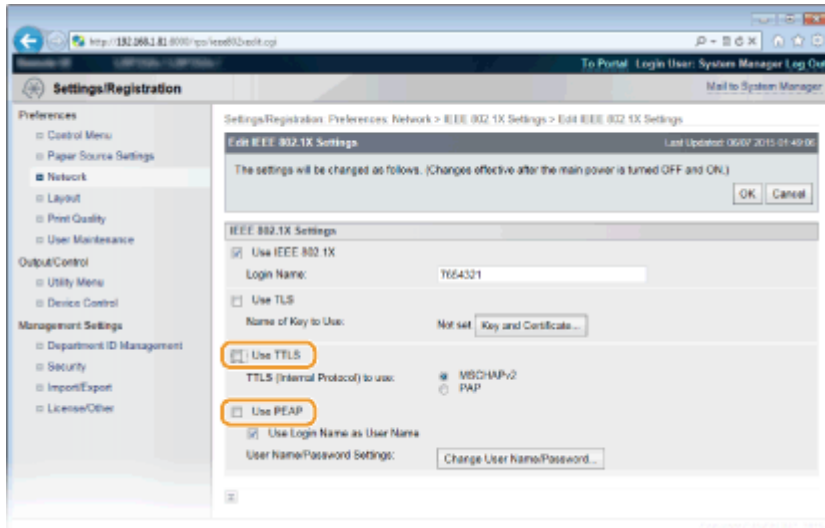
NOTE:

Internal protocol for TTLS

- You can select MSCHAPv2 or PAP. If you want to use PAP, click the [PAP] radio button.

2 Click [Change User Name/Password].

- To specify a user name other than the login name, clear the [Use Login Name as User Name] check box. Select the check box if you want to use the login name as the user name.
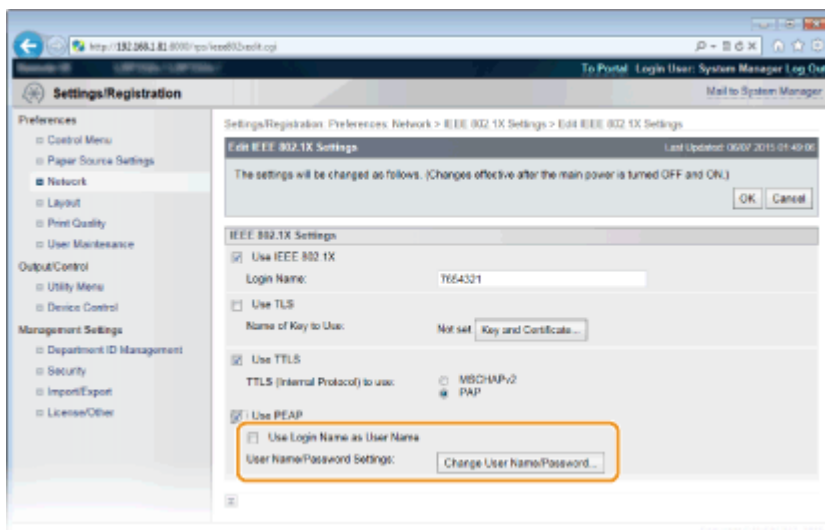
3 Set the user name/password and click [OK].
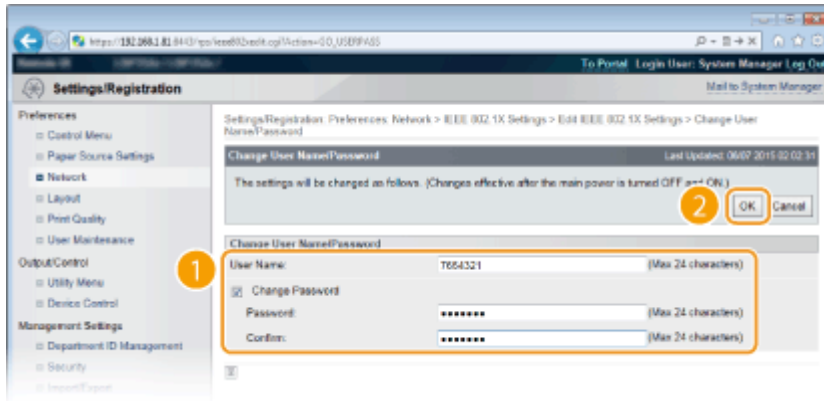
[User Name]
Enter up to 24 alphanumeric characters for the user name.

[Change Password]
To set or change the password, select the check box and enter up to 24 alphanumeric characters for the new password both in the [Password] and [Confirm] text boxes.

6 Click [OK].
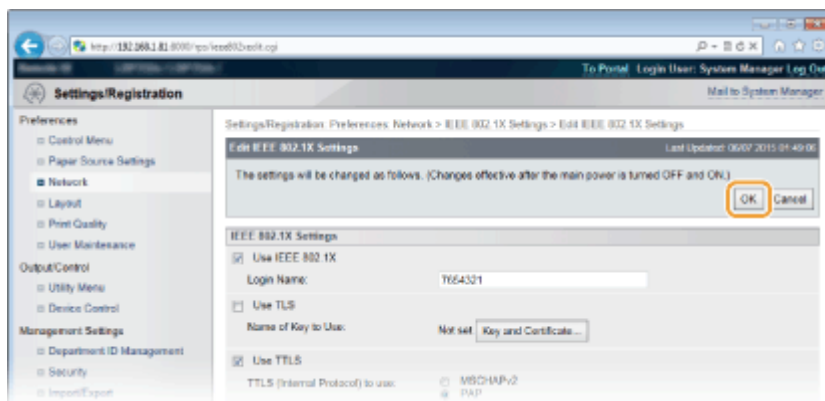
7 Perform a hard reset.

- Click [Device Control], select [Hard Reset], and then click [Execute].
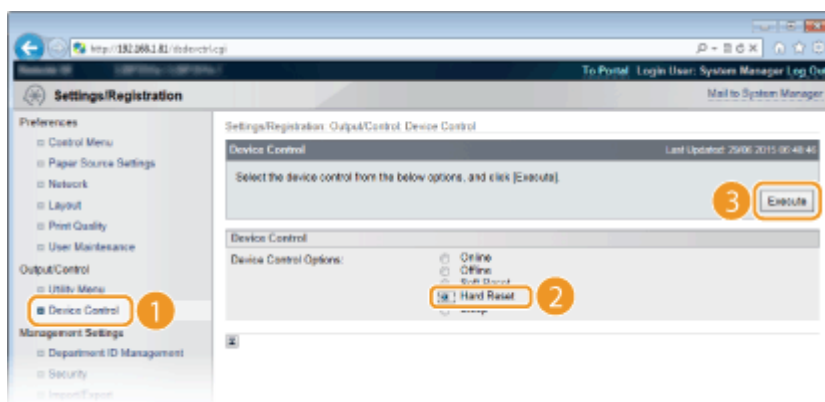
➠ The settings are enabled after the hard reset is performed.

NOTE

Using the operation panel

- You can also enable or disable IEEE 802.1X authentication from the setting menu of the operation panel. ○ **IEEE802.1X(P. 396)**

LINKS

○**Configuring Settings for Key Pairs and Digital Certificates(P. 318)**

Configuring Settings for Key Pairs and Digital Certificates

0YS1-04U

In order to encrypt communication with a remote device, an encryption key must be sent and received over an unsecured network beforehand. This problem is solved by public-key cryptography. Public-key cryptography ensures secure communication by protecting important and valuable information from attacks, such as sniffing, spoofing, and tampering of data as it flows over a network.

Key Pair

A key pair consists of a public key and a secret key, both of which are required for encrypting or decrypting data. Because data that has been encrypted with one of the key pair cannot be returned to its original data form without the other, public-key cryptography ensures secure communication of data over the network. Up to eight key pairs, including the preinstalled pairs, can be registered (**Using CA-issued Key Pairs and Digital Certificates(P. 329)**). For TLS encrypted communication, a key pair can be generated for the machine (**Generating Key Pairs(P. 320)**).

CA Certificate

Digital certificates including CA certificates are similar to other forms of identification, such as driver's licenses. A digital certificate contains a digital signature, which enables the machine to detect any spoofing or tampering of data. It is extremely difficult for third parties to abuse digital certificates. A digital certificate that contains a public key of a certification authority (CA) is referred to as a CA certificate. CA certificates are used for verifying the device the machine is communicating with for features such as printing with Google Cloud Print or IEEE 802.1X authentication. Up to 150 CA certificates can be registered, including the 72 certificates that are preinstalled in the machine (**Using CA-issued Key Pairs and Digital Certificates(P. 329)**).

■Key and Certificate Requirements

The certificate contained in a key pair generated with the machine conforms to X.509v3. If you install a key pair or a CA certificate from a computer, make sure that they meet the following requirements:

Format	● Key pair: PKCS#12[*1] ● CA certificate: X.509v1 DER (encoded binary) X.509v3 DER (encoded binary)
File extension	● Key pair: ".p12" or ".pfx" ● CA certificate: ".cer"
Public key algorithm (and key length)	● Key Pair: RSA (512 bits[*2], 1024 bits, 2048 bits, 4096 bits) ● CA Certificate: RSA (512 bits[*2], 1024 bits, 2048 bits, 4096 bits) DSA (1024 bits/2048 bits/3072 bits)

[*1] Requirements for the certificate contained in a key pair are pursuant to CA certificates.

[*2] Not supported when the operating system of the device the machine communicates with is Windows 8/10/Server 2012. Encrypted communication may also be unavailable with other Windows versions depending on the program update status.

[*3] SHA384-RSA and SHA512-RSA are available only when the RSA key length is 1024 bits or more.

Certificate signature algorithm	SHA1-RSA, SHA256-RSA, SHA384-RSA[*3], SHA512-RSA[*3], MD5-RSA, or MD2-RSA
Certificate thumbprint algorithm	SHA1

[*1] Requirements for the certificate contained in a key pair are pursuant to CA certificates.

[*2] Not supported when the operating system of the device the machine communicates with is Windows 8/10/Server 2012. Encrypted communication may also be unavailable with other Windows versions depending on the program update status.

[*3] SHA384-RSA and SHA512-RSA are available only when the RSA key length is 1024 bits or more.

NOTE

- The machine does not support use of a certificate revocation list (CRL).

Generating Key Pairs

0YS1-04W

A key pair can be generated with the machine when it is required for encrypted communication via Transport Layer Security (TLS). You can use TLS when accessing the machine via the Remote UI or performing IPP Print. Up to eight key pairs, including the preinstalled pairs, can be registered. Self-signed certificates are used with key pairs generated in "Network Communication". With a "Key and Certificate Signing Request (CSR)", you can apply for a CA-issued digital certificate for the key pair generated by the machine.

Generate Network Communication Key

1 Start the Remote UI and log on in Management Mode. ●**Starting Remote UI(P. 336)**

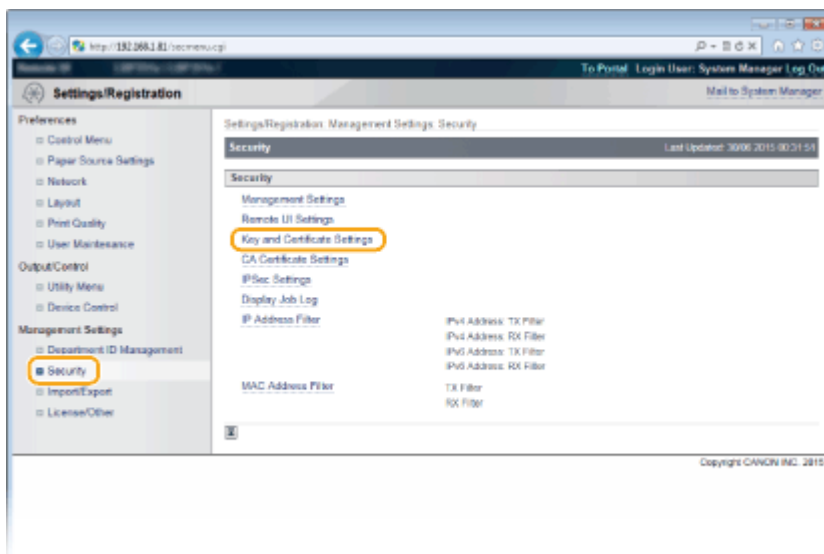**2** Click [Settings/Registration].

3 Click [Security] ▶ [Key and Certificate Settings].
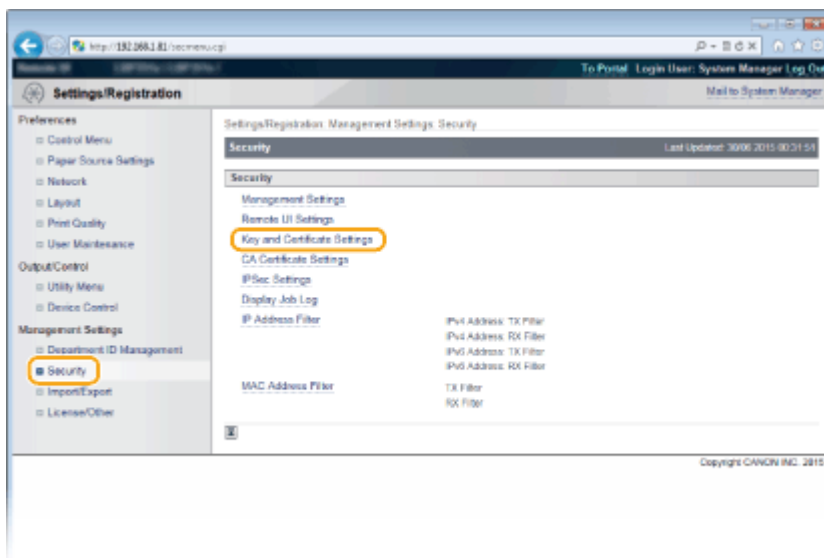
4 **Click [Generate Key].**
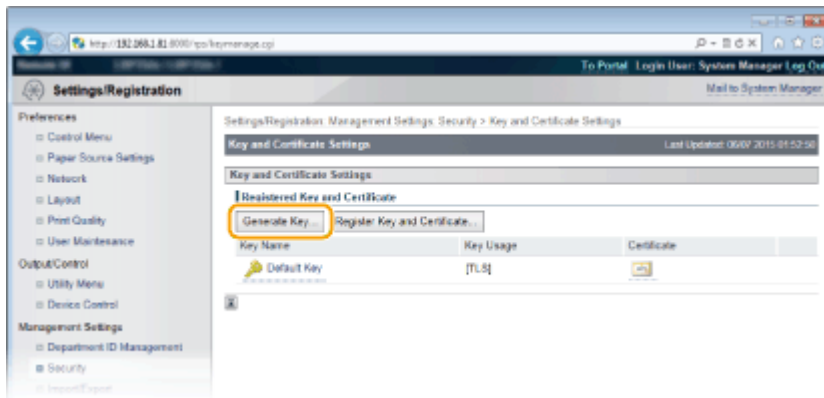
NOTE:

Deleting a registered key pair

- Click [Delete] on the right of the key pair you want to delete ▶ click [OK].
- A key pair cannot be deleted if it is currently used for some purpose, such as when "TLS" or "IEEE 802.1X", is displayed under [Key Usage]. In this case, disable the function or replace the key pair before deleting it.

5 **Select [Network Communication] and click [OK].**

6 **Specify settings for the key and certificate.**

ⓐ [Key Settings]

[Key Name]
Enter up to 24 alphanumeric characters for naming the key pair. Set a name that will be easy for you to find later in a list.

[Signature Algorithm]
Select the signature algorithm from the drop-down list.

[Key Algorithm]
RSA is used for generating a key pair. Select the key length from the drop-down list. The larger the number for the key length, the slower the communication. However, the security is tighter.

> **NOTE:**
> ● [512 bit] cannot be selected for the key length, if [SHA384] or [SHA512] is selected for [Signature Algorithm].

ⓑ [Certificate Settings]

[Validity Start Date (mm/dd/yyyy)]
Enter the validity start date of the certificate in the range between 01/01/2000 and 12/31/2037.

[Validity End Date (mm/dd/yyyy)]
Enter the validity end date of the certificate in the range between 01/01/2000 and 12/31/2037. A date earlier than [Validity Start Date (mm/dd/yyyy)] cannot be set.

[Country/Region]
Enter up to 2 characters for the Internet country code.

[State]/[City]
Enter up to 24 alphanumeric characters for the location as necessary.

[Organization]/[Organization Unit]
Enter up to 24 alphanumeric characters for the organization name as necessary.

[Common Name]
Enter up to 41 alphanumeric characters for the common name of the certificate as necessary. "Common Name" is often abbreviated as "CN."

> **IMPORTANT:**

To perform IPPS Print from Windows Vista/7/8/10/Server 2008/Server 2012, the "IP address" or "<host name>.<domain name>" that is used for connection via IPPS must be entered in [Common Name].

- Enter the "IP address" when it is fixed.

- Enter "<host name>.<domain name>" when the DNS server is used. **●Enabling IPP/ IPPS(P. 206)**

7 Click [OK].

- Keys for network communication may take approximately 10 to 15 minutes to generate.
- After a key pair is generated, it is automatically registered to the machine.

Generate Key and Certificate Signing Request (CSR)

1 Start the Remote UI and log on in Management Mode. **●Starting Remote UI(P. 336)**

2 Click [Settings/Registration].
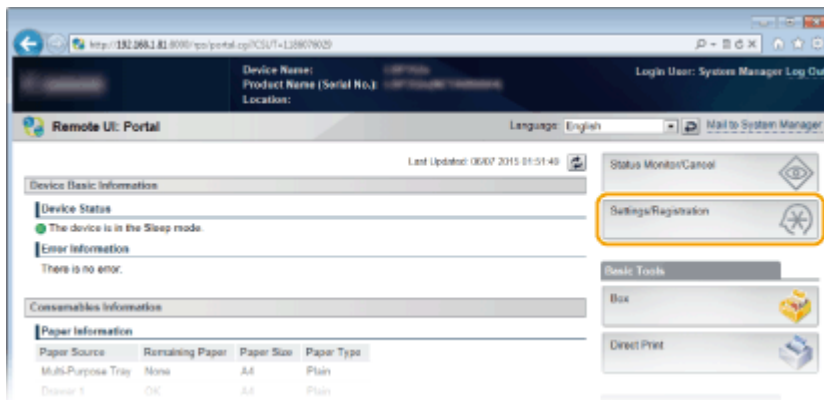
3 Click [Security] ▶ [Key and Certificate Settings].

4 **Click [Generate Key].**
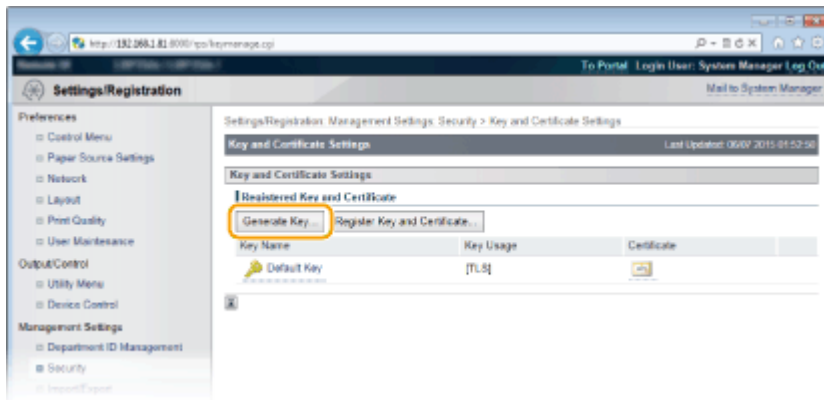
NOTE:

Deleting a registered key pair

- Click [Delete] on the right of the key pair you want to delete ▶ click [OK].
- A key pair cannot be deleted if it is currently used for some purpose, such as when "TLS" or "IEEE 802.1X", is displayed under [Key Usage]. In this case, disable the function or replace the key pair before deleting it.

5 **Select [Key and Certificate Signing Request (CSR)] and click [OK].**
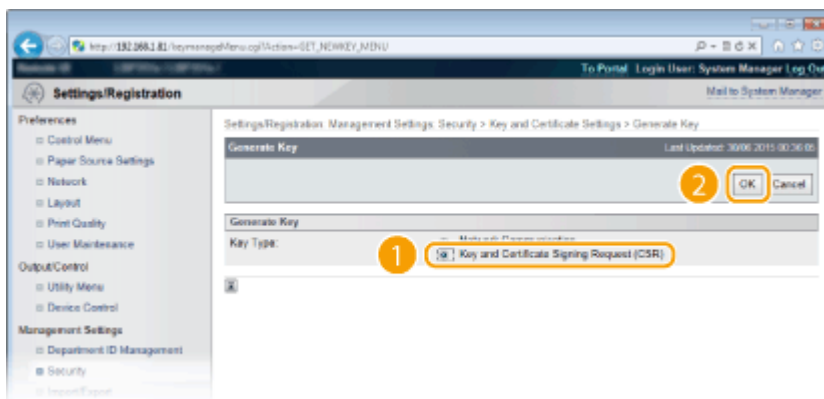
6 **Specify settings for the key and certificate.**
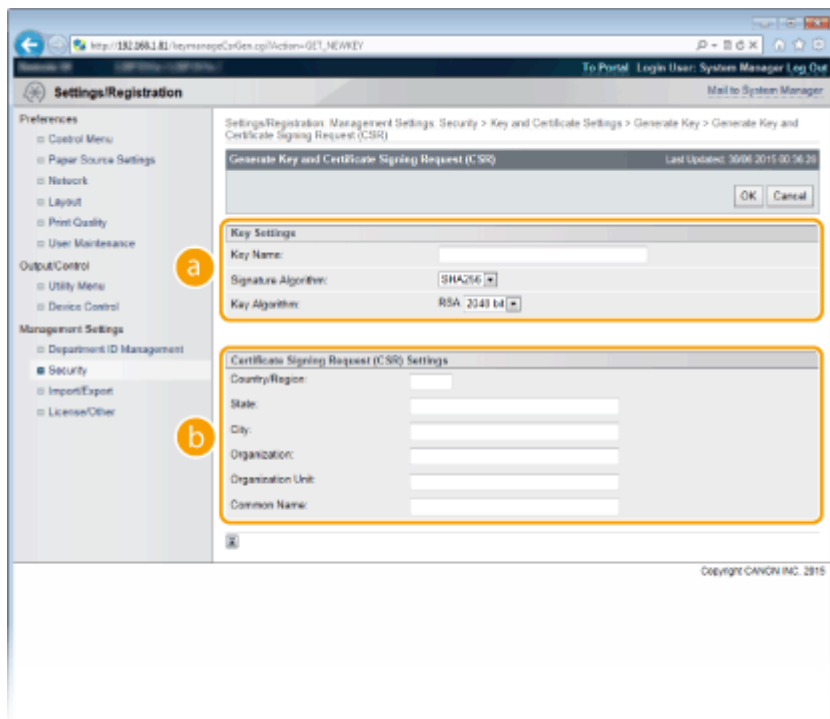
ⓐ [Key Settings]

[Key Name]
Enter up to 24 alphanumeric characters for naming the key pair. Set a name that will be easy for you to find later in a list.

[Signature Algorithm]
Select the signature algorithm from the drop-down list.

[Key Algorithm]
RSA is used for generating a key pair. Select the key length from the drop-down list. The larger the number for the key length, the slower the communication. However, the security is tighter.

NOTE:

- [512 bit] cannot be selected for the key length, if [SHA384] or [SHA512] is selected for [Signature Algorithm].

ⓑ [Certificate Signing Request (CSR) Settings]

[Country/Region]
Enter up to 2 characters for the Internet country code.

[State]/[City]
Enter up to 24 alphanumeric characters for the location as necessary.

[Organization]/[Organization Unit]
Enter up to 24 alphanumeric characters for the organization name as necessary.

[Common Name]
Enter up to 41 alphanumeric characters for the common name of the certificate as necessary. "Common Name" is often abbreviated as "CN."

IMPORTANT:

To perform IPPS Print from Windows Vista/7/8/10/Server 2008/Server 2012, the "IP address" or "<host name>.<domain name>" that is used for connection via IPPS must be entered in [Common Name].

- Enter the "IP address" when it is fixed.

● Enter "<host name>.<domain name>" when the DNS server is used. ●**Enabling IPP/ IPPS(P. 206)**

7 **Click [OK].**

● Key and Certificate Signing Request (CSR) may take approximately 10 to 15 minutes to generate.

8 **Click [Store in File].**

● A dialog box for storing the file appears. Choose where to store the file and click [Save].
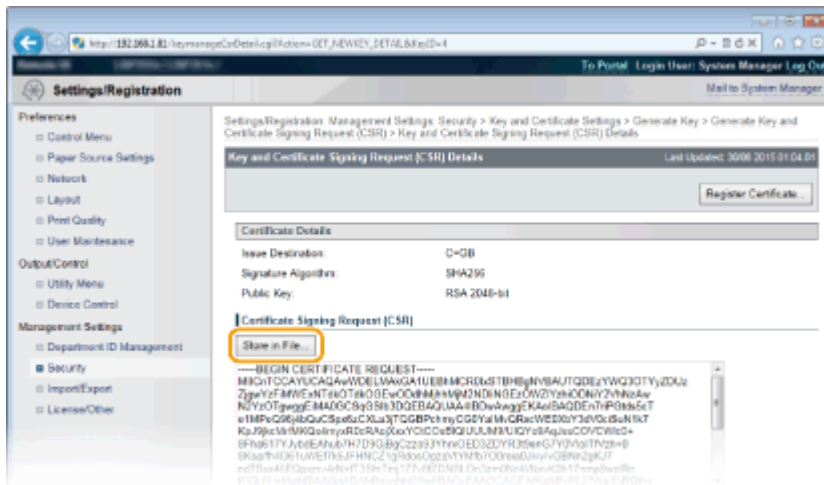
➭ The Key and Certificate Signing Request (CSR) file is stored on the computer.

9 **Attach the stored file and submit the application to the certification authority.**

■Register the digital certificate issued by the certification authority.

You cannot use the key pair generated by the Certificate Signing Request (CSR) until the certificate is registered. Once the certification authority has issued the digital certificate, register it using the procedure below.

1 **Start the Remote UI and log on in Management Mode.** ●**Starting Remote UI(P. 336)**

2 **Click [Settings/Registration].**

3 **Click [Security] ▶ [Key and Certificate Settings].**

4 **Click [Key Name] or [Certificate] for the certificate to be registered.**
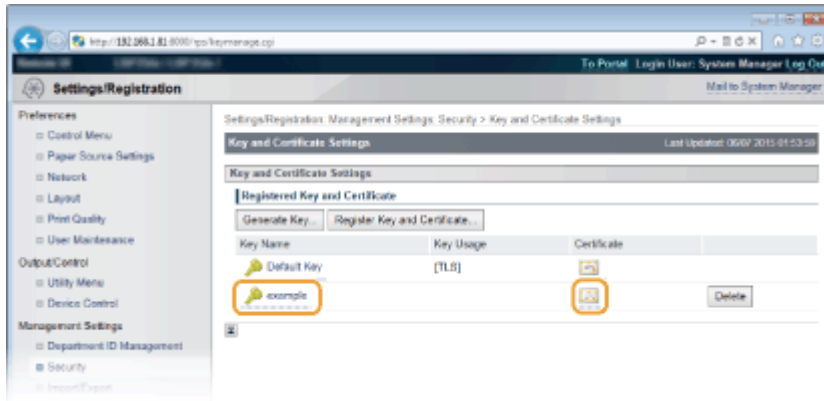
5 Click [Register Certificate].
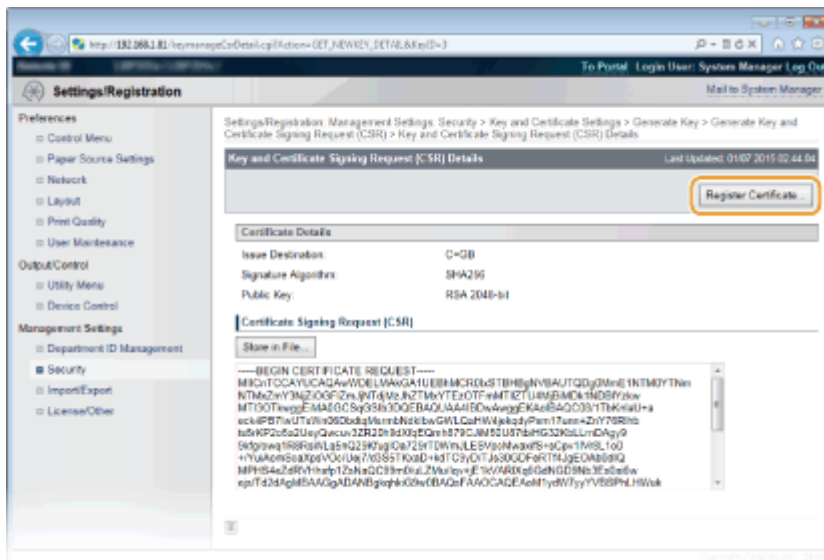
6 Click [Browse] in [File Path], specify the file for the certificate signing request, and click [Register].
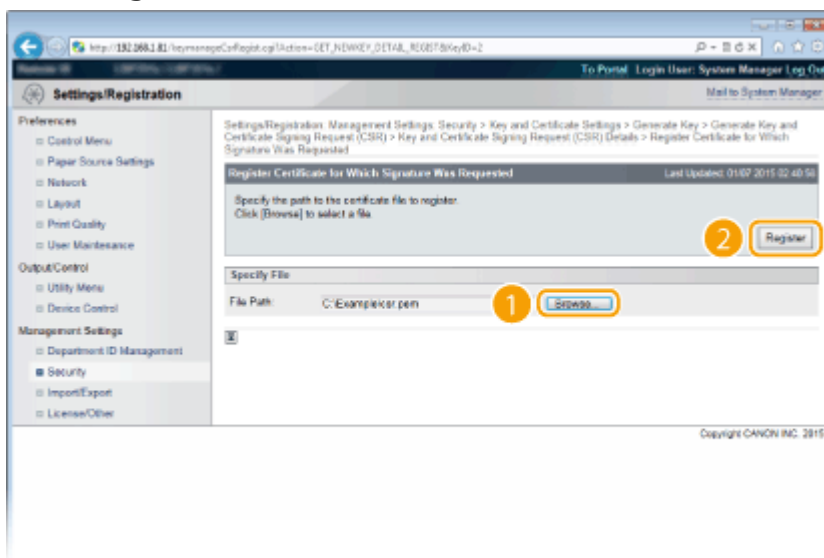
LINKS

○Using CA-issued Key Pairs and Digital Certificates(P. 329)
○Verifying Key Pairs and Digital Certificates(P. 332)

Using CA-issued Key Pairs and Digital Certificates

0YS1-04X

Key pairs and digital certificates can be obtained from a certification authority (CA) for use with the machine. You can store and then register these files by using the Remote UI. Make sure that the key pair and the certificate satisfy the requirements of the machine (○**Key and Certificate Requirements(P. 318)**). Up to 8 key pairs (including the preinstalled ones) can be registered, and up to 150 CA certificates (including the 72 preinstalled ones) can be registered.


1 Start the Remote UI and log on in Management Mode. ○**Starting Remote UI(P. 336)**

2 Click [Settings/Registration].
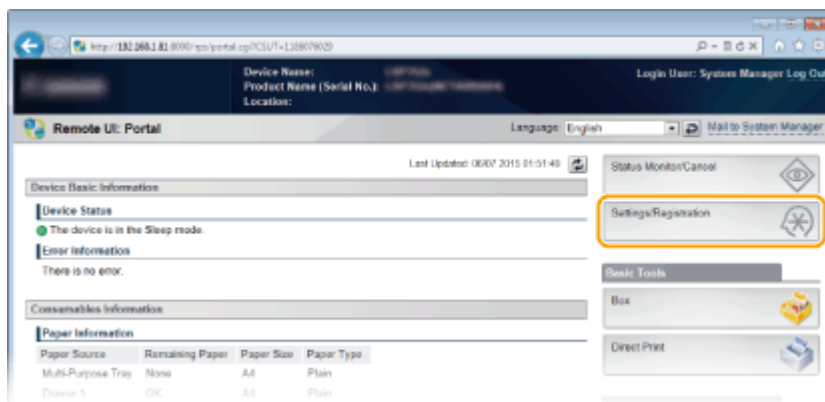
3 Click [Security] ▶ [Key and Certificate Settings] or [CA Certificate Settings].

- Click [Key and Certificate Settings] to install a key pair, or [CA Certificate Settings] to install a CA certificate.
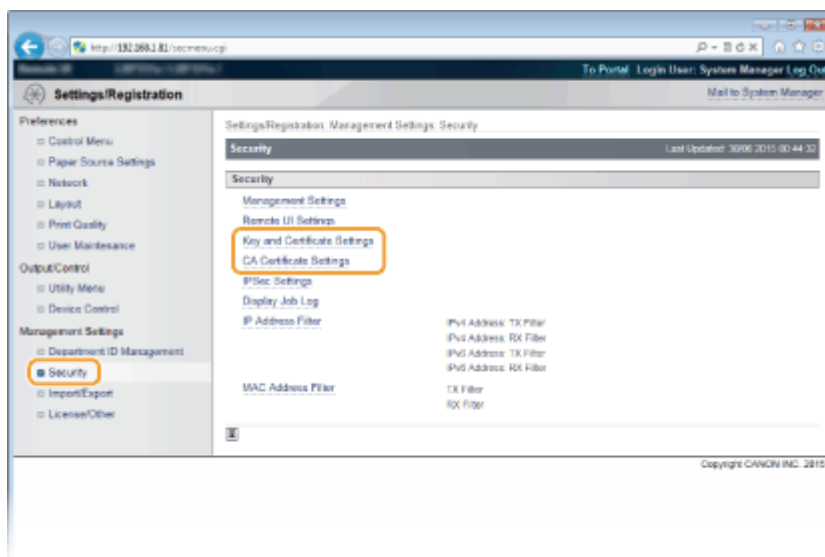
4 **Click [Register Key and Certificate] or [Register CA Certificate].**
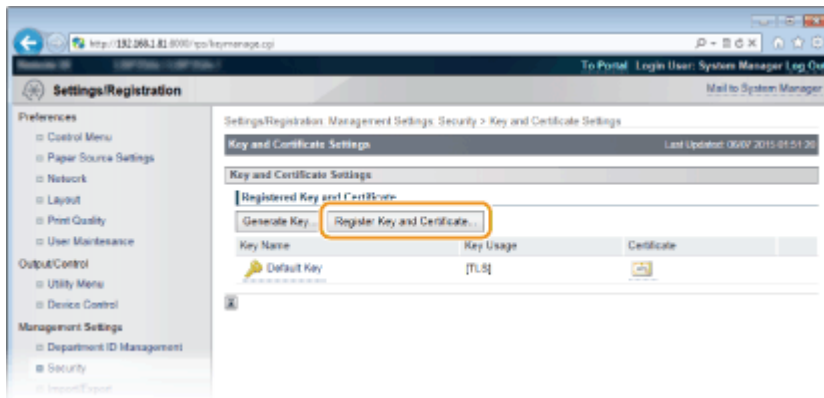
NOTE:

Deleting a registered key pair or CA certificate

- Click [Delete] on the right of the key pair or CA certificate you want to delete ▶ click [OK].

- A key pair cannot be deleted if it is currently used for some purpose, such as when "[TLS]" or "[IEEE 802.1X]" is displayed under [Key Usage]. In this case, disable the function or replace the key pair before deleting it. The preinstalled CA certificate cannot be deleted.

5 **Click [Install].**
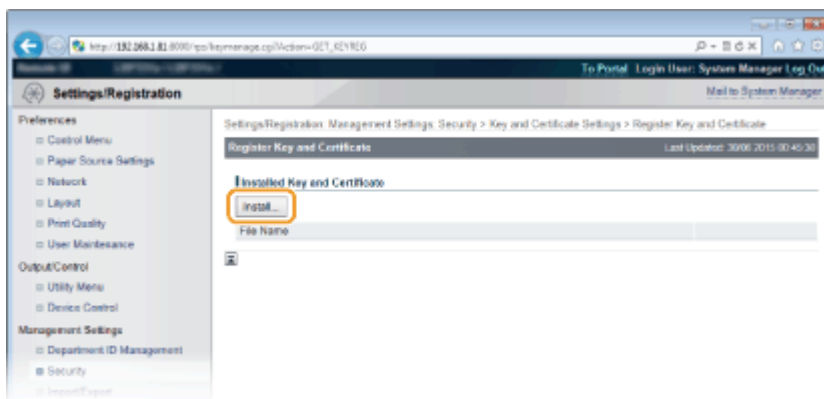
NOTE:

Deleting a key pair or CA certificate

- Click [Delete] on the right of the file you want to delete, and then click [OK].

6 **Click [Browse], specify the file to install, and click [Start Installation].**
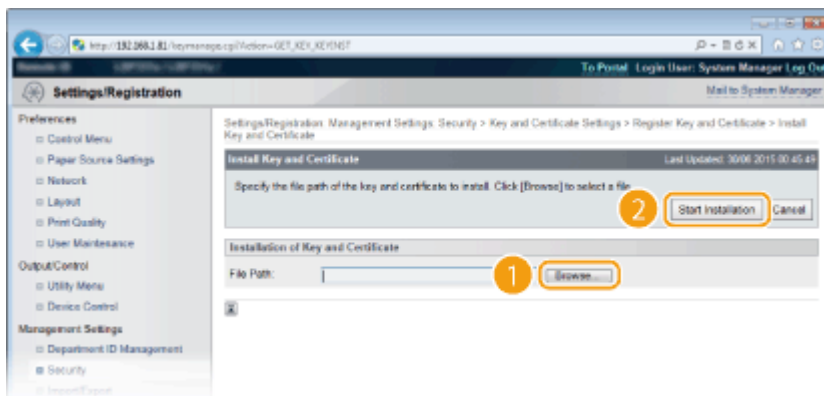
● The key pair or CA certificate is installed in the machine.

7 Register the key pair or CA certificate.

■ Registering a key pair

1 Click [Register] on the right of the key pair you want to register.

2 Enter the name of the key pair and password, and then click [OK].
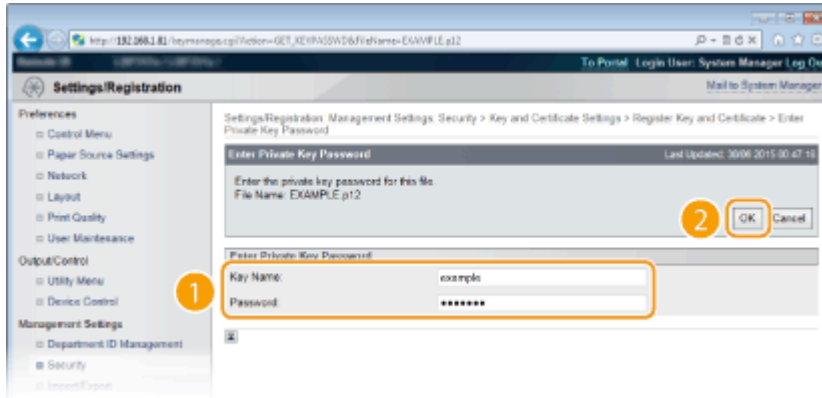
[Key Name]
Enter up to 24 alphanumeric characters for the name of the key pair to be registered.

[Password]
Enter up to 24 alphanumeric characters for the password of the private key set for the file to be registered.

■ Registering a CA certificate
Click [Register] on the right of the CA certificate you want to register.
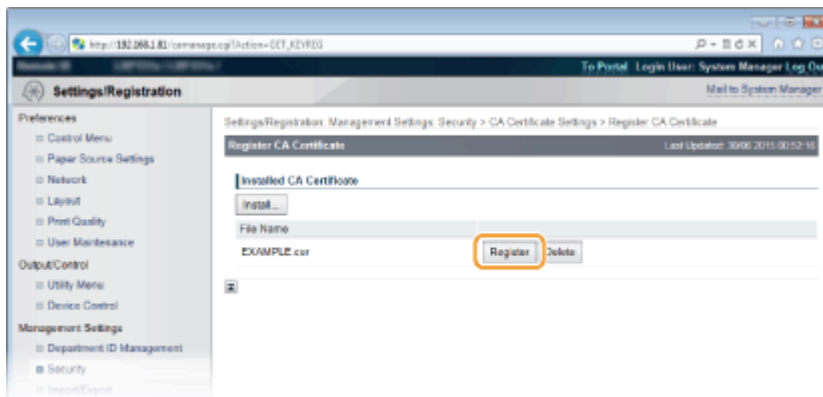
LINKS

◯Generating Key Pairs(P. 320)
◯Verifying Key Pairs and Digital Certificates(P. 332)
◯Using TLS for Encrypted Communications(P. 297)
◯Configuring IPSec Settings(P. 301)
◯Configuring IEEE 802.1X Authentication(P. 312)

Verifying Key Pairs and Digital Certificates

0YS1-04Y

Once key pairs and CA certificates are registered, you can view their detailed information or verify them for validity and signature.

1 **Start the Remote UI and log on in Management Mode. ○Starting Remote UI(P. 336)**

2 **Click [Settings/Registration].**
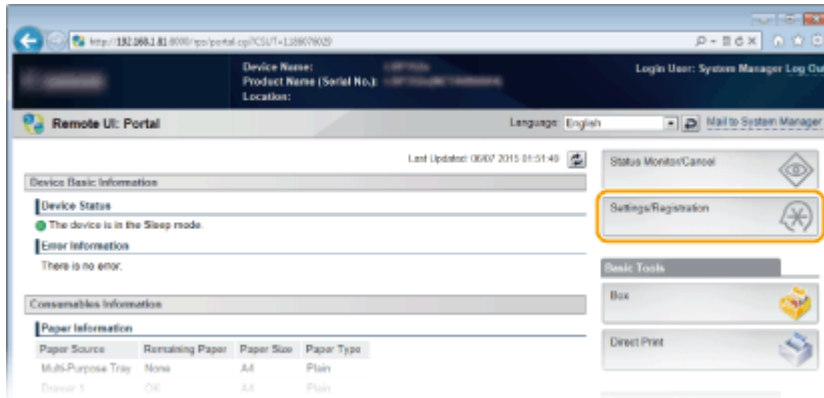
3 **Click [Security] ▶ [Key and Certificate Settings] or [CA Certificate Settings].**

● Click [Key and Certificate Settings] to verify a key pair, or [CA Certificate Settings] to verify a CA certificate.
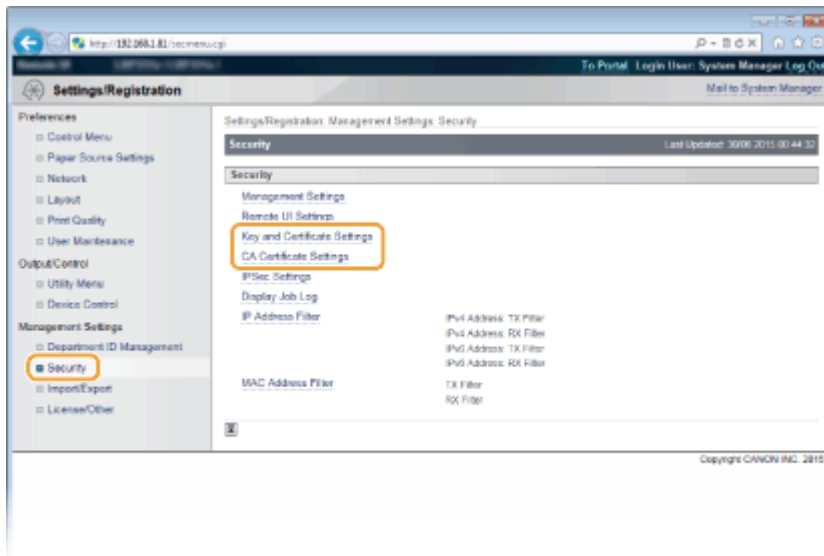
4 **Click the icon for the key pair or certificate that you want to verify.**
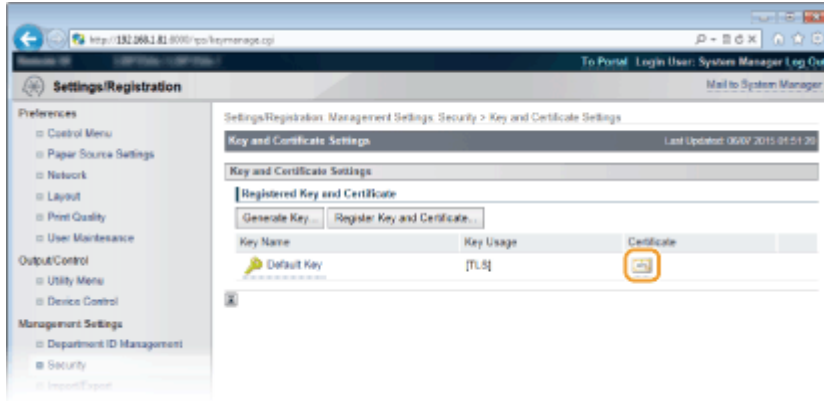
● Certificate details can be viewed on this screen.

5 Check the details of the certificate, and click [Certificate Verification].
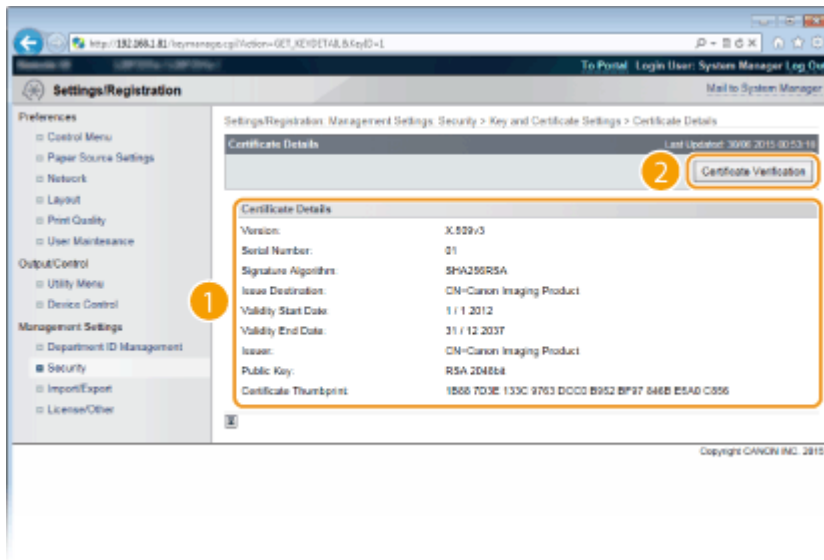
● The result from verifying the certificate is displayed as shown below.
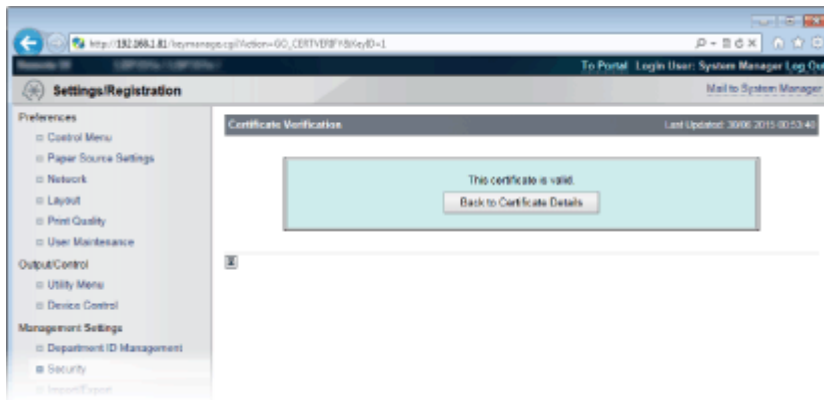
LINKS

◯Generating Key Pairs(P. 320)
◯Using CA-issued Key Pairs and Digital Certificates(P. 329)

Using Remote UI

Using Remote UI

0YS1-050

Using a Web browser to operate the machine remotely, you can check the documents waiting to be printed or the status of the machine. You can also make some settings for the machine. You can do this without leaving your desk, making system management easier.
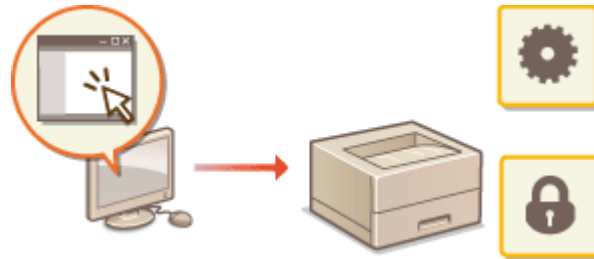
Functions of the Remote UI

Managing Documents and Checking the Machine Status(P. 345)
Setting Up Menu Options from Remote UI(P. 354)
Saving/Loading Registered Data(P. 356)

Basics of the Remote UI

Starting Remote UI(P. 336)
Remote UI Screens(P. 339)

System Requirements

The following environment is required to use the Remote UI. In addition, set the Web browser to enable Cookies.

- Microsoft Internet Explorer 7.0 or later

- Display with a resolution of 800 x 600 pixels or higher and 256 or more colors

Starting Remote UI

0YS1-051

To operate remotely, you need to input the IP address of the machine into a Web browser and start the Remote UI. Check the IP address set to the machine in advance (○**Network Status Print(P. 493)**). If you have any questions, ask your Network Administrator.

1 **Start the Web browser.**

2 **Enter "http://(the IP address of the machine)/" in the address field, and press the [ENTER] key.**
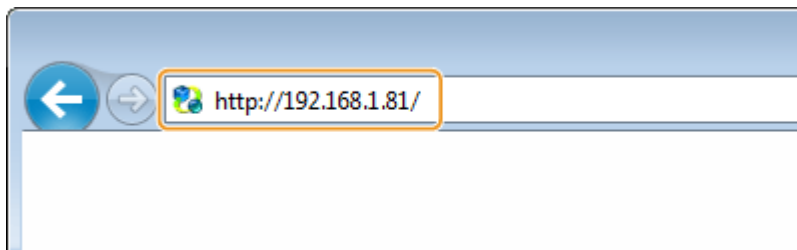
- If you want to use an IPv6 address, enclose the IPv6 address with brackets (example: http://[fe80::2e9e:fcff:fe4e:dbce]/).

NOTE:

If using a DNS server

- You can enter "<host name of the machine>.<domain name>" instead of "IP address of the machine" (example: http://my_printer.example.com).

If a security alert is displayed

- A security alert may be displayed when the Remote UI communication is encrypted (○**Using TLS for Encrypted Communications(P. 297)**). When certificate settings or TLS settings have no errors, continue browsing the Web site.

3 **Log on to the Remote UI.**

■**When the Department ID Management is disabled**

Select [Management Mode] or [General User Mode].
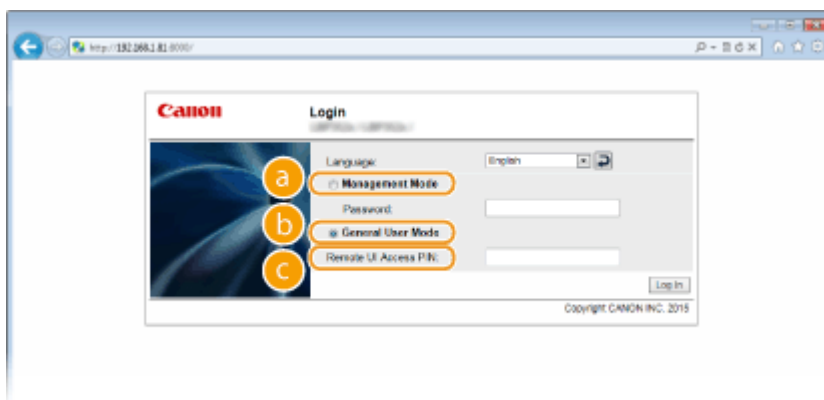
ⓐ **[Management Mode]**

You can perform all the Remote UI operations and settings. Enter the System Manager password in [Password].

336

> **NOTE:**
>
> - The default System Manager password is "7654321." ⊙**Setting the System Manager Password(P. 256)**

ⓑ [General User Mode]

You can check the status of documents or the machine, and you can also change some of the settings. If you wish to delete your print documents, enter the user name of the documents in [User Name]. The user name is automatically set to print documents based on information such as your computer name or computer logon name.

> **NOTE:**
>
> **About [User Name]**
>
> - By default, [User Name] is not displayed to disable general users to operate documents. If you want to operate documents in General User Mode, log on in Management Mode and enable [Allow General User Job Operation]. ⊙**Enabling End Users to Operate Documents(P. 351)**

ⓒ [Remote UI Access PIN]

If [Remote UI Access PIN] is displayed, enter the PIN (⊙**Setting a Remote UI PIN(P. 266)**).

■When the Department ID Management is enabled

Enter the appropriate ID in [Department ID] and PIN in [PIN] (⊙**Setting the Department ID Management(P. 259)**).
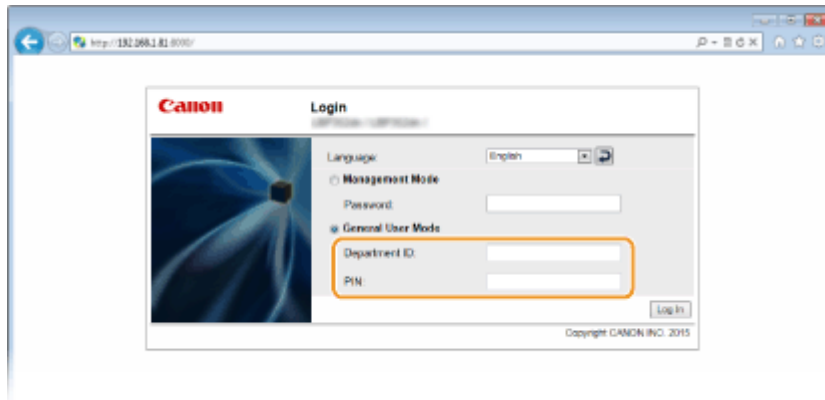
4 Click [Log In].

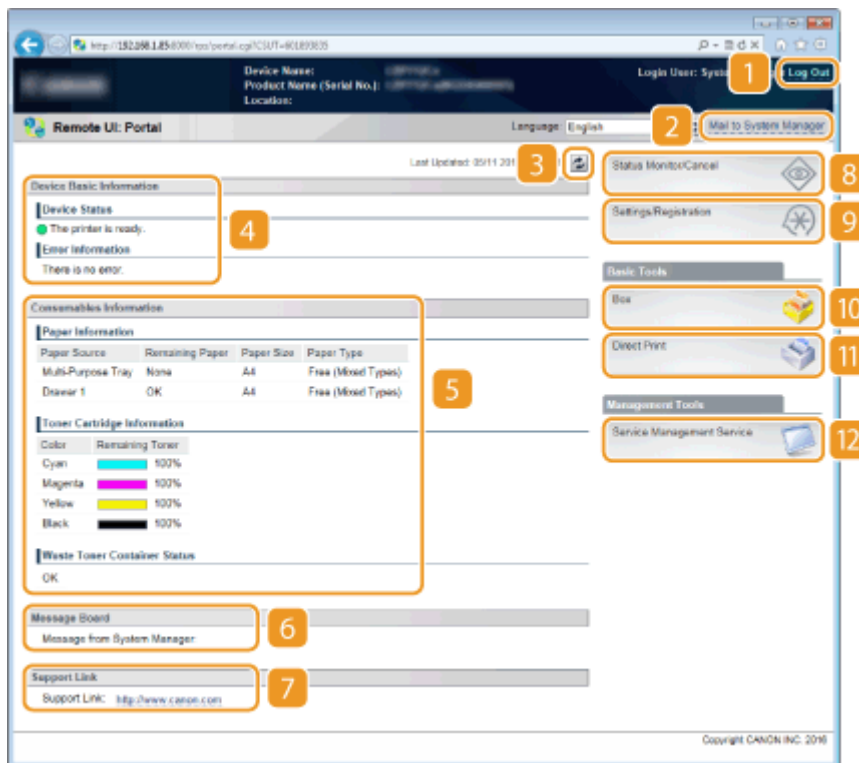➠ Portal Page (main page) will be displayed. ⊙**Remote UI Screens(P. 339)**

Remote UI Screens

This section describes the typical screens of the Remote UI.

▶**Portal Page (Main Page)(P. 339)**
▶**[Status Monitor/Cancel] Page(P. 340)**
▶**[Settings/Registration] Page(P. 341)**
▶**[Box] Page(P. 342)**
▶**[Direct Print] Page(P. 343)**

Portal Page (Main Page)

1 [Log Out]

Logs off from the Remote UI. The Login page will be displayed.

2 [Mail to System Manager]

Displays a window for creating an e-mail to the system manager specified in [Management Settings] under [Security].

3 Refresh Icon

Refreshes the currently displayed page.

4 Device Basic Information

Displays the current status of the machine and error information. If an error has occurred, the link to the Error Information page will be displayed.

5 **Consumables Information**

Displays information about paper (remaining amount, size, etc.), the remaining amount of toner in each cartridge and the remaining capacity of the waste toner container.

6 **Message Board**

Displays a message from the System Manager specified in [Message Board/Support Link] under [Settings/ Registration] ▶ [License/Other].

7 **Support Link**

Displays a text link to the support information of the machine specified in [Message Board/Support Link] under [Settings/Registration] ▶ [License/Other].

8 **[Status Monitor/Cancel]**

Displays [Status Monitor/Cancel] page. You can use this page to check the current printing status, cancel print processing, and view a history of print jobs.

9 **[Settings/Registration]**

Displays [Settings/Registration] page. When you have logged on in Management Mode, you can change the settings items and save/load the registered data. **Setting Up Menu Options from Remote UI(P. 354)**

10 **[Box] (only when an optional SD card is installed)**

Displays the [Box] page. You can print and delete documents stored in the machine. **Printing a Document Stored in the Machine (Stored Job Print)(P. 136)**
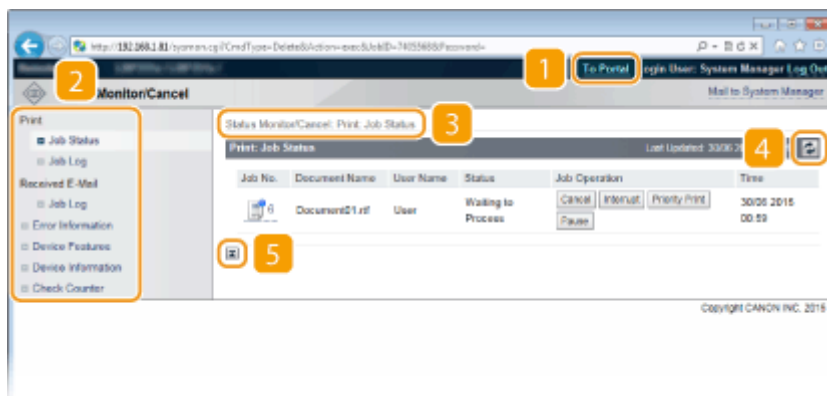
11 **[Direct Print]**

You can print a file stored in a computer without opening it. **Printing without Opening a File (Direct Print)(P. 145)**

12 **[Service Management Service]**

Starts Service Management Service (SMS) used to manage MEAP applications (function-enhancing software). **Function Guide for MEAP Application Management**

[Status Monitor/Cancel] Page

1 **[To Portal]**

Returns to Portal Page (main page).

2 **Menu**

Click an item, and the content is displayed in the right page. ◯**Managing Documents and Checking the Machine Status(P. 345)**

3 **Breadcrumb Trail**

Indicates the series of pages you opened to display the currently displayed page. You can check what page is currently displayed.
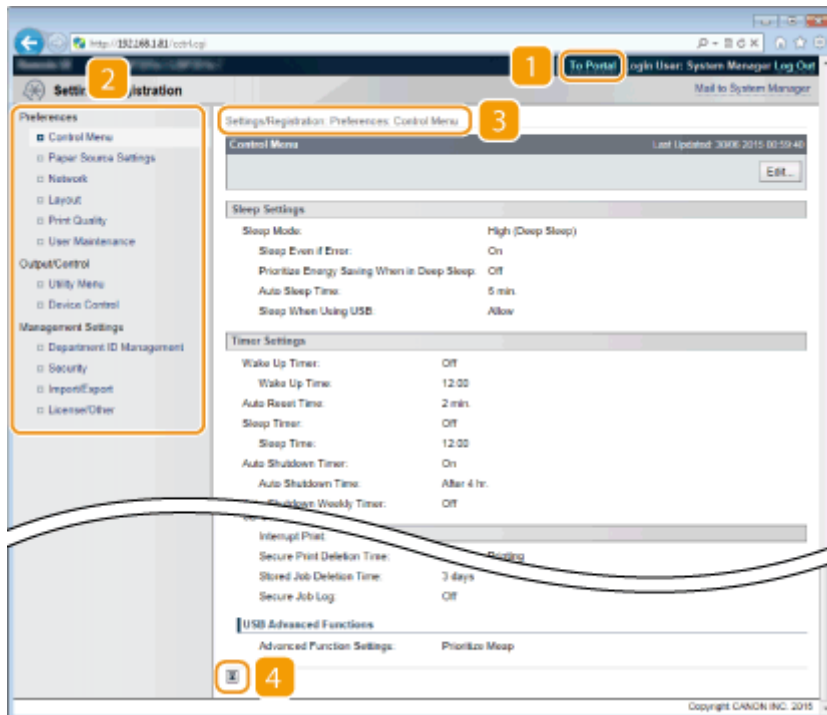
**4** **Refresh Icon**

Refreshes the currently displayed page.

5 **Top Icon**

Moves the scroll box up to the top of the page when the page is scrolled down.

[Settings/Registration] Page

1 **[To Portal]**

Returns to Portal Page (main page).

2 **Menu**

Click an item, the content is displayed in the right page. ◯**Setting Up Menu Options from Remote UI(P. 354)**

3 **Breadcrumb Trail**

Indicates the series of pages you opened to display the currently displayed page. You can check what page is currently displayed.

4 **Top Icon**

Moves the scroll box up to the top of the page when the page is scrolled down.

> **NOTE**
>
> **Menu on the [Settings/Registration] page**
>
> - You can change settings on the [Settings/Registration] page only when you have logged on in Management Mode.
>
> - If you log on in General User Mode, [Utility Menu], [Device Control], [Department ID Management], and [Import/Export] are not displayed.

[Box] Page
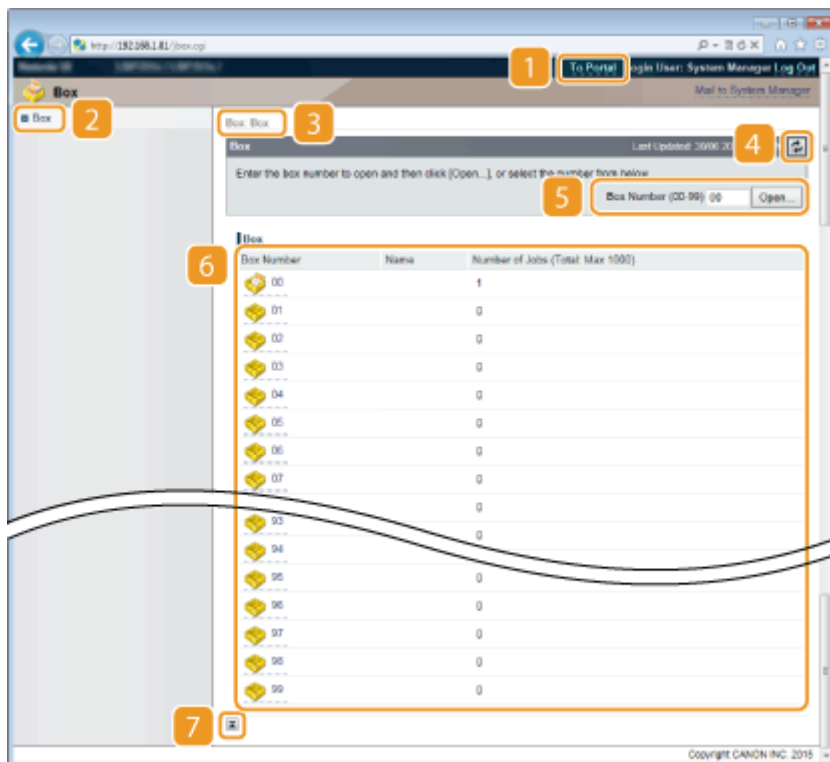
1 **[To Portal]**

Returns to Portal Page (main page).

2 **[Box]**

Displays a list of boxes. You can open a box to check detailed information of the documents stored in the box, print and delete the documents. **Printing a Document Stored in the Machine (Stored Job Print) (P. 136)**

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3 Breadcrumb Trail

Indicates the series of pages you opened to display the currently displayed page. You can check what page is currently displayed.

4 Refresh Icon

Refreshes the currently displayed page.

5 Box Number

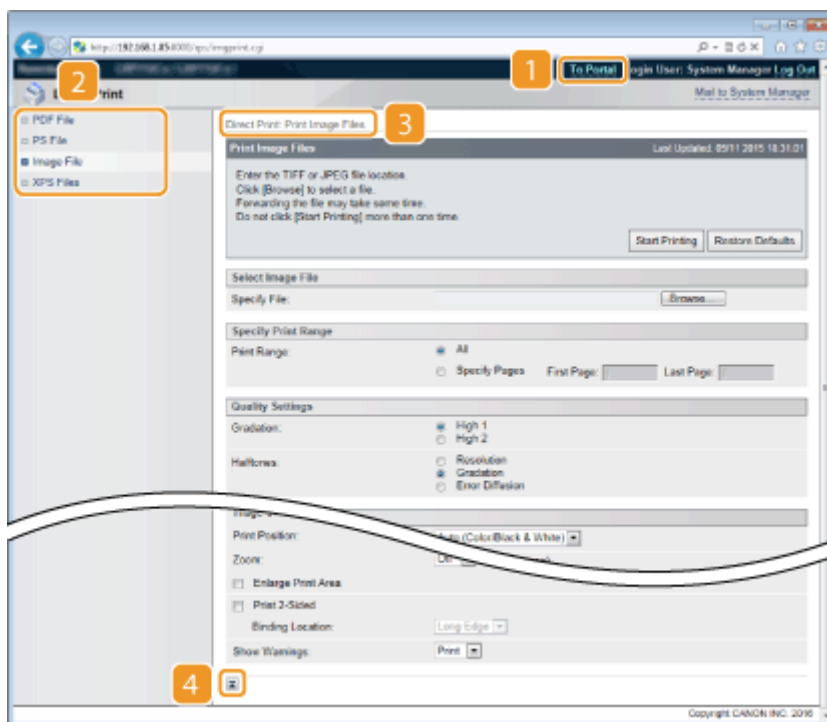You can enter a box number and click [Open] to open the box of the entered number.

6 Box List

You can click the text link under [Box Number] to open the applicable box.

7 Top Icon

Moves the scroll box up to the top of the page when the page is scrolled down.

[Direct Print] Page

1 [To Portal]

Returns to Portal Page (main page).

2 Menu

Displays the page for specifying the file format of a file to be printed by Direct Print. ◐**Printing without Opening a File (Direct Print)(P. 145)**

3 **Breadcrumb Trail**

Indicates the series of pages you opened to display the currently displayed page. You can check what page is currently displayed.

4 **Top Icon**

Moves the scroll box up to the top of the page when the page is scrolled down.

# Managing Documents and Checking the Machine Status

0YS1-053

> **NOTE**
>
> - The document file name displays only 128 characters. The printed application name may be added to the file name.

Checking Current Status of Print Documents

You can check the print status (currently being printed or waiting to be printed) of the documents designated to be printed from a computer, and delete or interrupt documents.

Log on to the Remote UI (**Starting Remote UI(P. 336)**) ▶ [Status Monitor/Cancel] ▶ [Job Status]
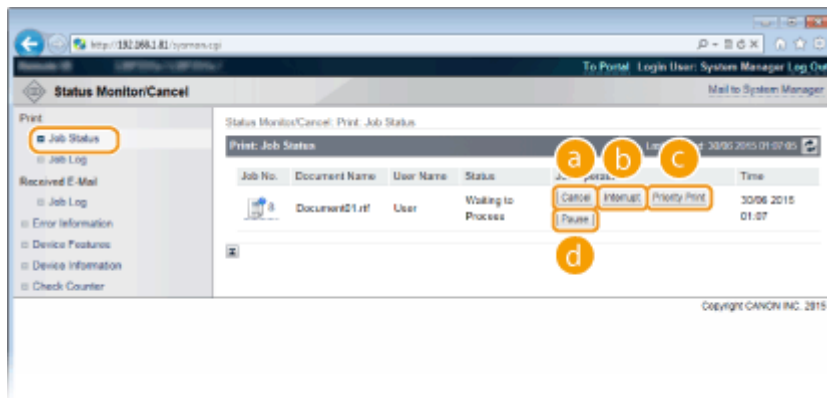
ⓐ [Cancel]

You can delete documents that are being printed or waiting to be printed.

ⓑ [Interrupt] *

Temporarily stops the current print job in progress and starts a specified print job. For the interrupted print job, printing of the remaining pages is started as soon as the interrupting print job is finished.

ⓒ [Priority Print] *

Moves up the print order of a document waiting to be printed by one.

ⓓ [Pause] */[Resume] *

Press [Pause] to temporarily stop the current print job. Press [Resume] to restart the paused print job.

NOTE:

- For a secured or encrypted document, clicking [Resume] displays a screen to prompt you to enter the PIN. Enter the correct PIN and click [OK].

* Not displayed when <Interrupt Print> is set to <Off> in the setting menu of the operation panel (⬤**Interrupt Print(P. 372)**).


NOTE

- The status of all print jobs is displayed regardless of the settings of the Department ID Management.

- The factory default settings prevent some operations, such as deleting a document to print or interrupting a print job, from being performed in General User Mode. If you want to operate documents in General User Mode, log on in Management Mode and enable [Allow General User Job Operation]. ⬤**Enabling End Users to Operate Documents(P. 351)**

- If you entered your user name when you logged on in General User Mode, your user name will only be displayed on the documents that you printed.

- Click [Job No.] on the paused documents and secure documents to display detailed information. You can check the user name and the page count of the printed document.

Checking History of Documents

The print history and e-mail reception history are displayed in list form.

Log on to the Remote UI (⬤**Starting Remote UI(P. 336)**) ▶ [Status Monitor/Cancel] ▶ [Job Log]
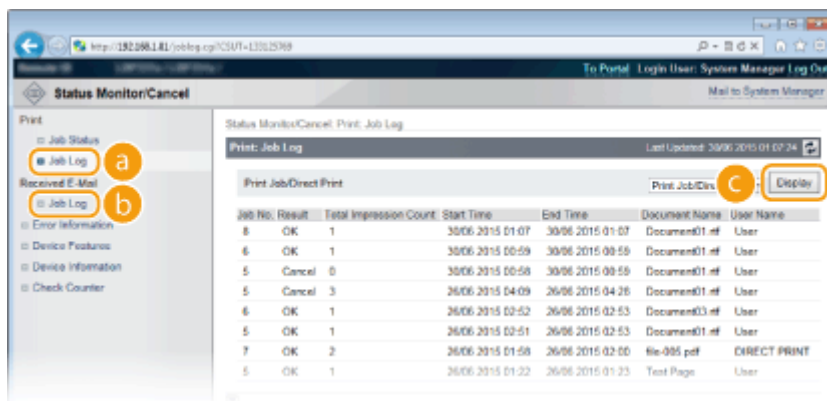
ⓐ [Job Log] (Print)

Four types of print history can be displayed.

[Print Job/Direct Print]	Up to 400 documents printed from computers and USB memory devices are displayed (up to 2,000 documents when the SD card is mounted).
[Stored Job]	The history of up to 2,000 printed documents stored in the machine is displayed (only when the SD card is installed).

[Report]	The history of up to 16 documents printed as setting lists and reports is displayed (up to 128 documents when the SD card is installed).
[E-Mail Print]	The history of up to 16 e-mails printed after received is displayed (up to 128 documents when the SD card is installed).

ⓑ [Job Log] (E-Mail RX)

The e-mail reception history shows up to 96 e-mails. If an error occurs during e-mail reception, the applicable error code is displayed in [RX Results].

Error Code	Cause	Action
407	The POP3 mail server was disconnected.	• Consult your network administrator. • If the error occurs frequently with the same e-mail data, check whether the e-mail data is normal.
	Data of 1 KB (1024 bytes) could not be received within 10 minutes during e-mail reception.	
408	The "ERR" response was returned from the POP3 mail server.	Consult your network administrator.
412	Data of 1 KB (1024 bytes) could not be received within 10 minutes during e-mail reception.	• Consult your network administrator. • If the error occurs frequently with the same e-mail data, check whether the e-mail data is normal.
420	The e-mail data size exceeds 1.5 GB.	If the SD card is installed on the machine, the data size of an e-mail to send must be 1.5 GB or less.
421	The e-mail message size exceeds 25 MB.	If the SD card is installed on the machine, the message size of an e-mail to send must be 25 MB or less.
422	The size of an attached file exceeds 100 MB.	If the SD card is installed on the machine, the size of each attached file must be 100 MB or less.
423	A received attached file is in an unsupported format.	Attached files must be in JPEG or TIFF format. Do not attach any files of other formats to an e-mail to send.
424	More than three files are attached.	Excessive attached files are not printed.
430	The sender of the received e-mail is unknown.	Make sure to set a sender before sending e-mails.
431	A divided e-mail has been received.	Take the following action to prevent e-mails from being sent as a divided e-mail. • Reduce the size of an e-mail to send. (Reduce the e-mail size to be less than the one that causes a divided e-mail.) • Configure the application to prevent e-mails from being divided before sending.
	The received e-mail contains unsupported encoding or character codes.	For e-mails to send, use the encoding and character codes supported by the machine. ▶**Outline of E-Mail Print(P. 160)**
	The received e-mail is in an unsupported format.	Check the e-mail format. We recommend sending e-mails in text format.
432	The received data is invalid.	Check whether the data of the sent e-mail is normal.

433	The received e-mail is in HTML format.	This machine does not support HTML e-mails. (An HTML e-mail message is printed as a plain text.)
434	No message is in the e-mail.	The received e-mail contains no message.
435	Forwarded fax document is illegal.	The attached file is not in TIFF format or exceeds the printable size.
436	Forwarded fax document has no attached file.	No document is printed due to no attached file.
440	Printing was canceled for some reason.	Resend the e-mail.
441	An error has occurred during processing.	Resend the e-mail.
499	An error has occurred in the machine.	Take appropriate action according to the message on the display of the machine. ○**When an Error Message Appears(P. 520)**

NOTE:

- If two or more errors occur, only the error code of a lower number is displayed.
- You can also check error codes by using the E-Mail RX History List. ○**E-Mail RX Log List(P. 590)**

○ [Display] (print history only)

When you select the print type from the drop-down list and click [Display], the history of the selected print type is displayed in list form.

NOTE

- If any optional SD card is not installed on the machine, the history is erased when a shutdown or hard reset is performed.

Checking Error Information

When an error occurs, this page will be displayed by clicking the message displayed under [Error Information] on Portal Page (main page). ○**Portal Page (Main Page)(P. 339)**

Log on to the Remote UI (○**Starting Remote UI(P. 336)**) ▶ [Status Monitor/Cancel] ▶ [Error Information]
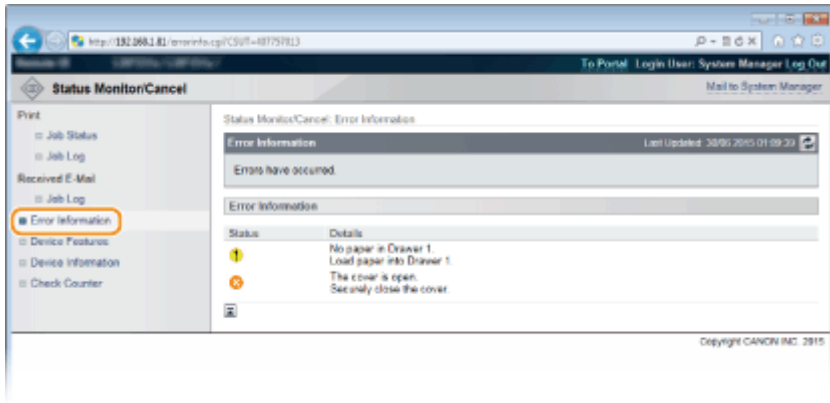
Checking Device Specifications

You can view the information including the maximum print speed and features of the machine.

Log on to the Remote UI (❍**Starting Remote UI(P. 336)**) ▶ [Status Monitor/Cancel] ▶ [Device Features]
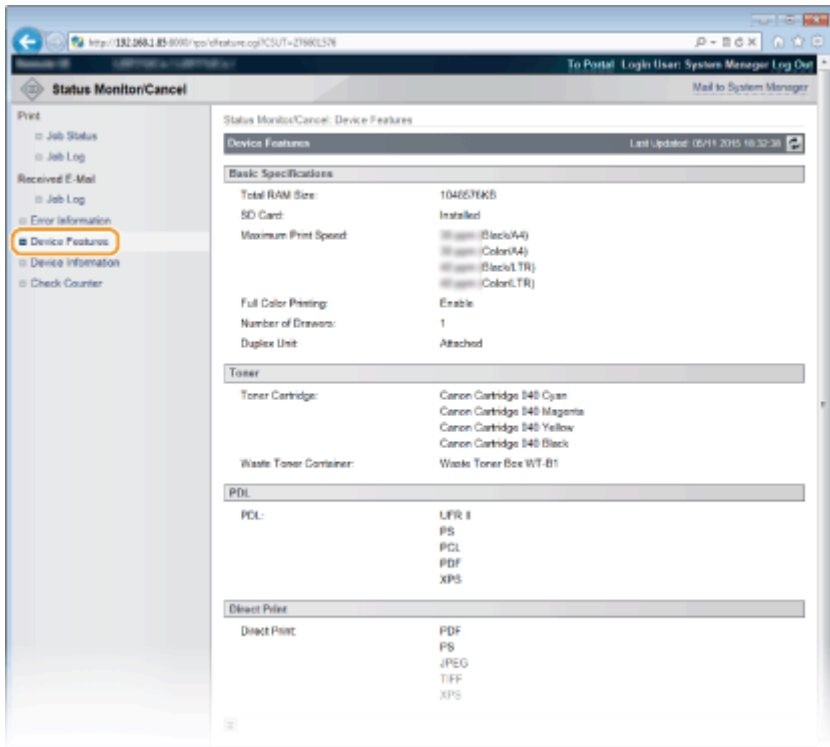
Checking System Manager Information

Information about the machine and the system manager is displayed. This information is what has been set in [Security] ▶ [Management Settings] on the [Settings/Registration] page (❍**Setting the System Manager Password(P. 256)**).

Log on to the Remote UI (▶**Starting Remote UI(P. 336)**) ▶ [Status Monitor/Cancel] ▶ [Device Information]
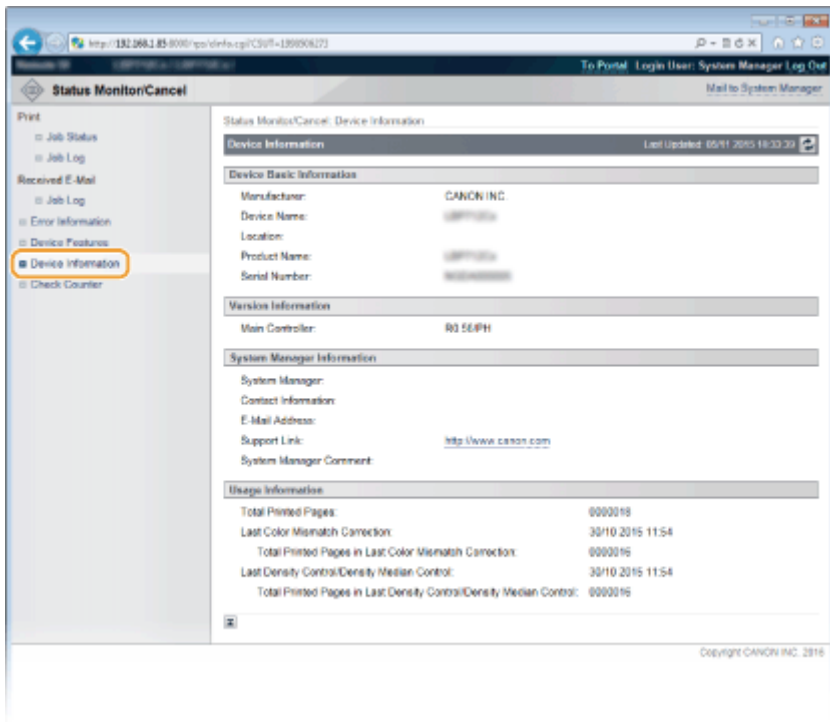
Checking Print Total Counter

The total number of pages that have been printed is displayed.

Log on to the Remote UI (▶**Starting Remote UI(P. 336)**) ▶ [Status Monitor/Cancel] ▶ [Check Counter]
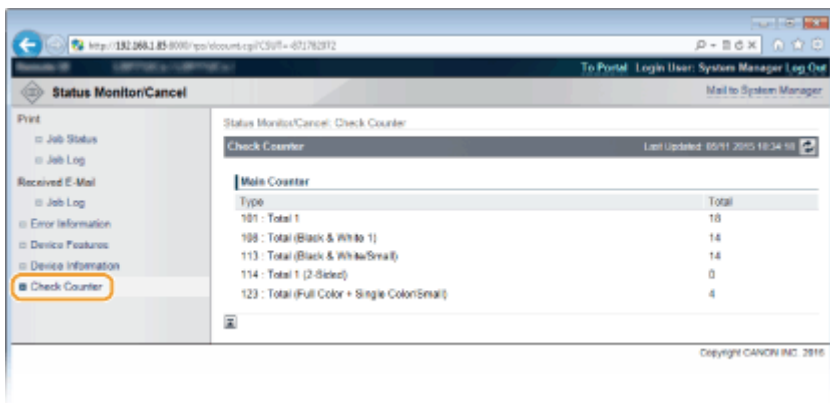
LINKS

▶**Remote UI Screens(P. 339)**
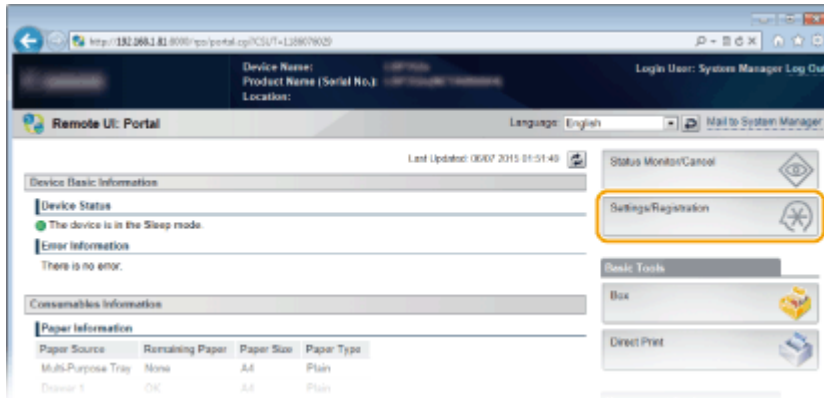
Enabling End Users to Operate Documents

0YS1-054

You can configure settings so that you can delete or interrupt the documents even when you log on to the Remote UI in General User Mode.

1 **Start the Remote UI and log on in Management Mode.** ⏵**Starting Remote UI(P. 336)**

2 **Click [Settings/Registration].**

3 **Click [Security]** ▶ **[Management Settings].**
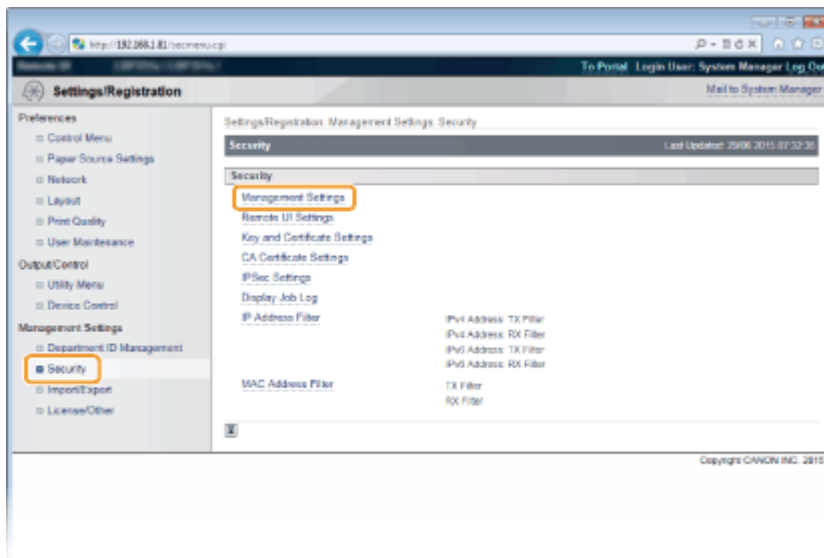
4 **Click [Edit].**
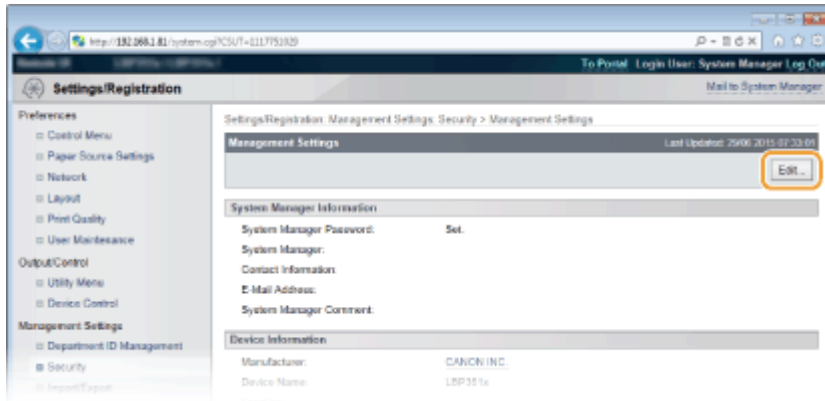
5 Enter the System Manager password in [Current System Manager Password].
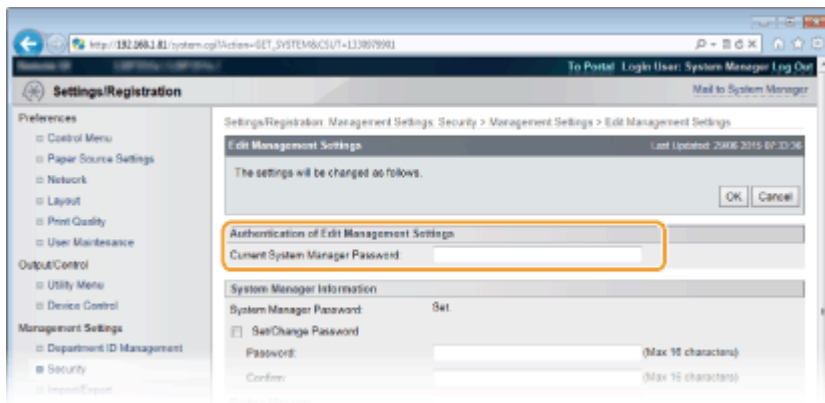
6 Select the [Allow General User Job Operation] check box and click [OK].
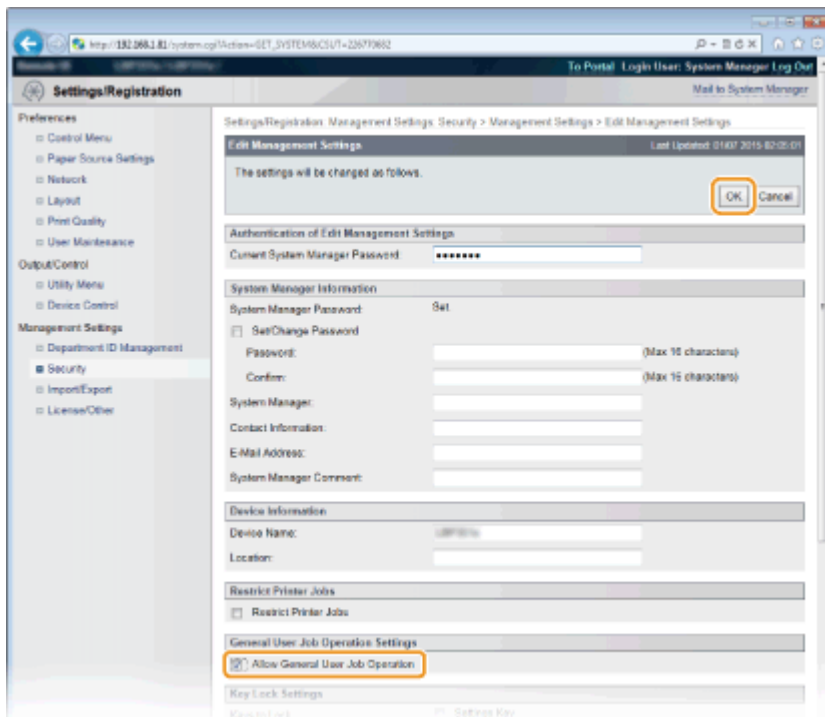
[Allow General User Job Operation]
If you select the check box, general users will be able to operate the documents of which the user name matches the one that was used to log on. When you do not want to allow general users to operate documents, clear the check box.

LINKS

⯈**Remote UI Screens(P. 339)**

Setting Up Menu Options from Remote UI

0YS1-055

You can change the various machine settings by using the Remote UI. Most of the settings can be set also on the machine, but some settings can only be set using the Remote UI.

1 Start the Remote UI and log on in Management Mode. ○**Starting Remote UI(P. 336)**

2 Click [Settings/Registration].

3 Click the menu item you want to set, and click [Edit].
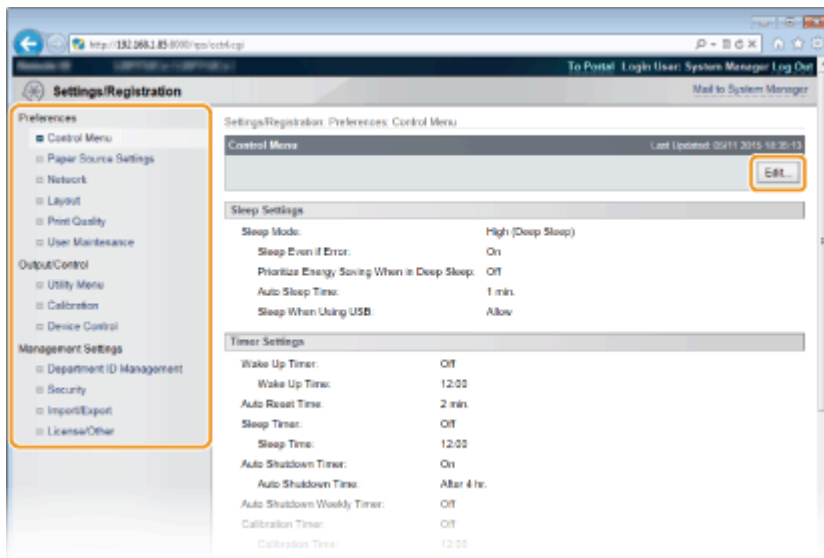
- For more information about the settings menu, see each item below

Menu items	Referents
Preferences	
Control Menu	○**Control Menu(P. 364)**
Paper Source Settings	○**Select Feeder Menu(P. 501)**
Network	○**Network(P. 379)**

Menu items	Referents
Layout	◉**Layout(P. 399)**
Print Quality	◉**Print Quality(P. 403)**
User Maintenance	◉**User Maintenance(P. 421)**
Output/Control	
Utility Menu	◉**Printing Reports and Lists(P. 588)** ◉**Job Menu(P. 497)**
Calibration	◉**Correcting Color Mismatch and Hues(P. 581)**
Device Control	You can control the status of the machine. ◉**[Online] key(P. 25)** ◉**Soft Reset(P. 499)** ◉**Entering Sleep Mode(P. 63)**
Management Settings	
Department ID Management	◉**Setting the Department ID Management(P. 259)**
Security	◉**Security(P. 251)**
Import/Export	◉**Saving/Loading Registered Data(P. 356)**
License/Other	• You can change messages shown on the message board and the link to the support page that are displayed on the Portal Page (main page). • You can register or update software (**Function Guide for Software Registration and Update**).

LINKS

◉**Remote UI Screens(P. 339)**
◉**Setting Menu List(P. 362)**

Saving/Loading Registered Data

0YS1-056

Menu options data that has been registered in the machine can be saved in your computer (export). Data that is saved on your computer can also be registered in the machine (import). Data exported from this machine can be imported to another machine of the same model. So you can easily copy a variety of settings data to multiple machines. To use these features, it is required that you have logged on in Management Mode.

Saving Registered Data(P. 357)
Loading Registered Data(P. 359)

IMPORTANT

Do not turn OFF the machine until the export/import process is complete

- It may take a few minutes to complete the process. If the machine is turned OFF during the process, it may result in damage to data or the machine.

Do not operate the machine during the export/import process

- Before exporting/importing, check that no operation such as printing documents is currently processing.

NOTE

Import/export using the operation panel

- You can also save/load settings data via a USB memory device by using the operation panel of the machine.
  Import/Export Set.(P. 434)

Saving Registered Data

0YS1-057

You can export machine settings data and save them in your computer. It is recommended that you regularly back up important settings.

1 **Start the Remote UI and log on in Management Mode.** ○**Starting Remote UI(P. 336)**

2 **Click [Settings/Registration].**
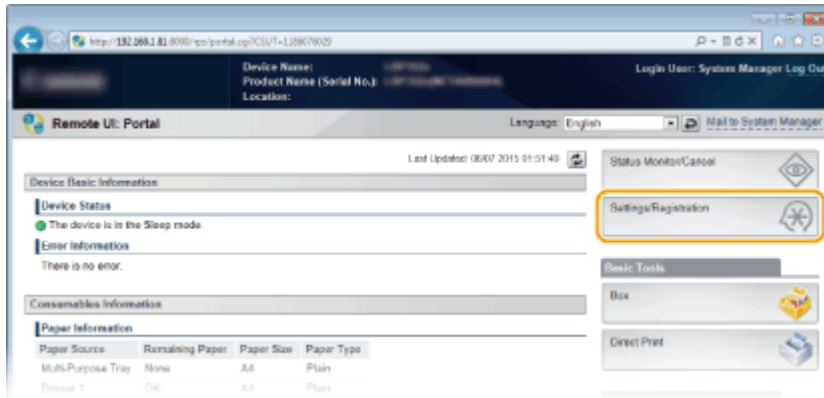
3 **Click [Import/Export]** ▸ **[Export].**
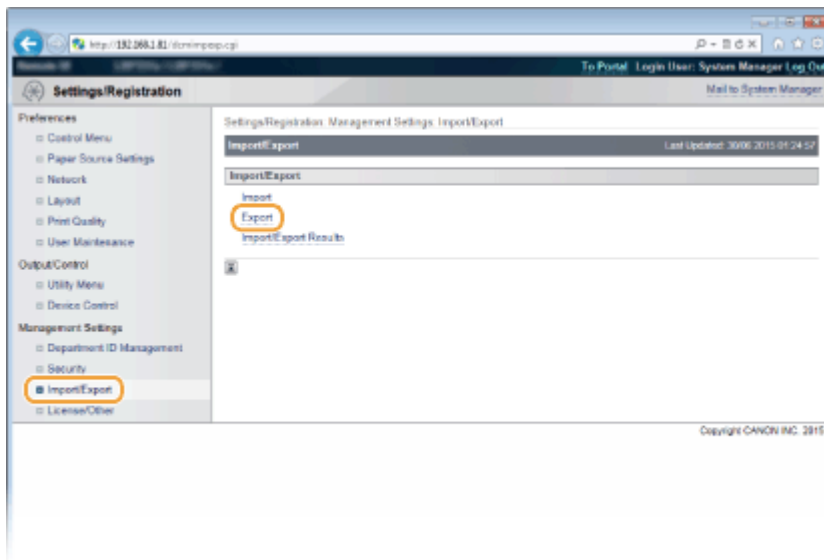
4 **Select the settings to export, and set the encryption password.**
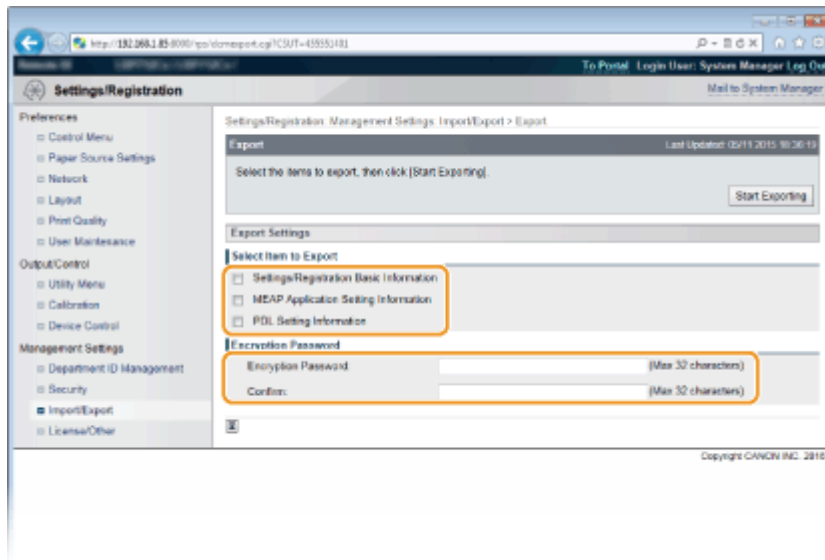
[Settings/Registration Basic Information]
To export the settings data of items that can be set from [Settings/Registration] in the Portal Page, select this check box.

[MEAP Application Setting Information]
To export the settings data of MEAP applications, select this check box.

[PDL Setting Information]
To export the settings data of items that can be set from ◖**Settings Specific to Print Mode(P. 439)** , select this check box.

[Encryption Password]
Enter the password to encrypt data to be exported using up to 32 characters. Enter the same password in [Confirm]. If no password is set, data exporting is impossible.

NOTE:

● The password is required when exported data is imported. ◖**Loading Registered Data(P. 359)**

5 **Click [Start Exporting].**

6 **Follow the on-screen instructions to specify the location where the exported setting data is saved.**

➠ The setting data will be saved.

LINKS

◖**Remote UI Screens(P. 339)**
◖**Setting Menu List(P. 362)**

Loading Registered Data

0YS1-058

Load (import) data that was exported from the machine. You can also import settings from another machine if it is the same model as your machine.

1 **Start the Remote UI and log on in Management Mode.** ◉**Starting Remote UI(P. 336)**

2 **Click [Settings/Registration].**

3 **Click [Import/Export] ▶ [Import].**
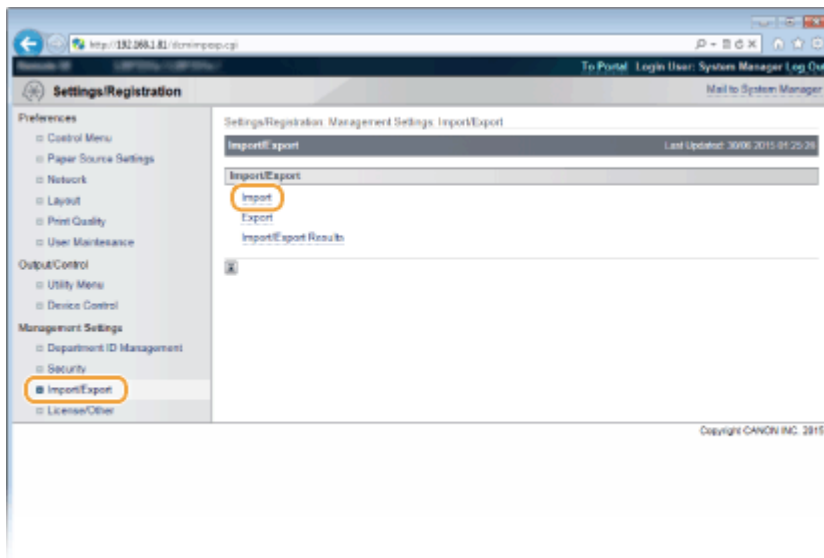
4 **Specify the setting file to be imported, and enter the password.**
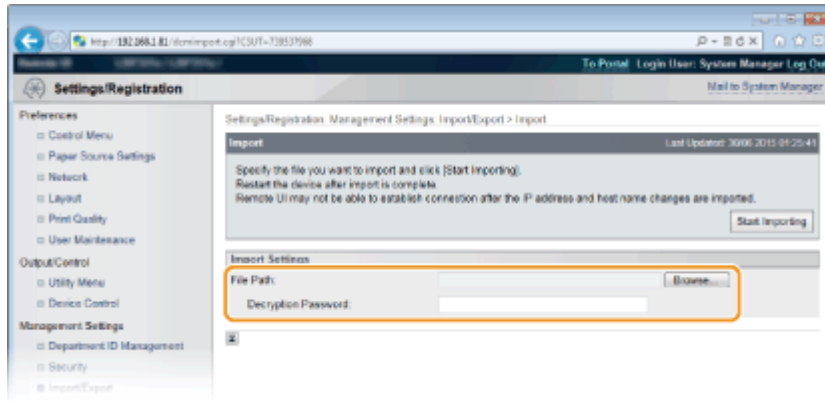
[File Path]
Click [Browse] and select the file.

[Decryption Password]
Enter the password set when the settings were exported.

5 **Click [Start Importing].**

6 **Click [OK].**

➠ The specified setting data will be imported into the machine.

7 **Click [Restart].**
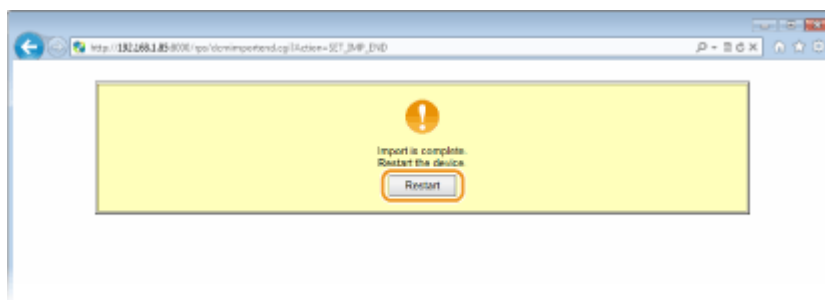
➠ The settings are enabled after the machine is restarted.

LINKS

◉Remote UI Screens(P. 339)
◉Setting Menu List(P. 362)

Setting Menu List

Setting Menu List

0YS1-059

There are various settings in this machine. You can adjust each of the settings in detail. Specify the settings from the menu screens of the operation panel.

NOTE

To display menu settings in a list form

- Refer to the diagrams in PDF format that are included with this manual to visualize the mapping of the whole setting menu. **Menu Route Map(P. 674)**

Priority of settings

- Settings that are specified on the printer driver will override those specified on the operation panel.

- When you perform USB Direct Print or Direct Print, the settings specified for printing or stored in TIFF data override those specified on the operation panel.
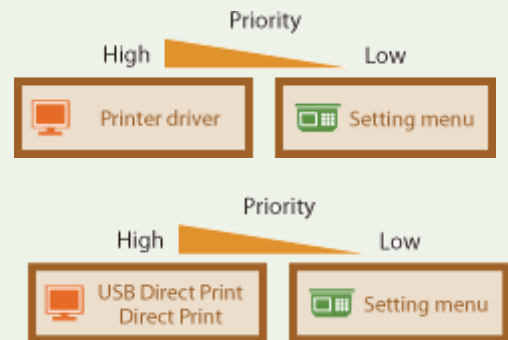
TIPS

- You can print the setting menu in list form to check the current settings:

    Configuration Page(P. 492)
    Network Status Print(P. 493)

Setup Menu

0YS1-05A
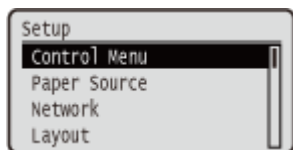
You can specify the settings for the operation environment of the machine and for printing. When you press ▶ (**Settings**) on the operation panel, the Setup menu appears to show the setting items under each function item.

⬤**Control Menu(P. 364)**
⬤**Paper Source(P. 378)**
⬤**Network(P. 379)**
⬤**Layout(P. 399)**
⬤**Print Quality(P. 403)**
⬤**Interface(P. 418)**
⬤**User Maintenance(P. 421)**
⬤**Print Mode(P. 437)**
⬤**Settings Specific to Print Mode(P. 439)**
⬤**MEAP Settings(P. 489)**
⬤**Check Counter(P. 490)**
⬤**Initialize Menu(P. 491)**

Control Menu

0YS1-05C
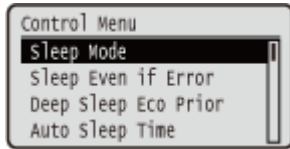
The settings about the sleep mode and how the machine should behave if an error occurs are listed with short descriptions. Default settings are marked with a dagger (†).

NOTE

Asterisks (*)

- Settings marked with an asterisk (*) are not displayed depending on other settings or whether an optional SD card is installed on the machine.

�‣**Sleep Mode(P. 364)**
�‣**Sleep Even if Error(P. 364)**
�‣**Deep Sleep Eco Prior(P. 365)**
�‣**Auto Sleep Time(P. 365)**
�‣**Sleep When Using USB(P. 365)**
�‣**Timer Settings(P. 366)**
�‣**Warning Step(P. 367)**
�‣**Auto Skip Error(P. 368)**
◼**Language(P. 368)**
◼**Alarm(P. 369)**
◼**Show Warnings(P. 369)**
◼**Date/Time Settings(P. 370)**
◼**Main Pwr Quick Start(P. 372)**

◼**SD Card(P. 372)**
◼**Interrupt Print(P. 372)**
◼**Sec. Print Del. Time(P. 373)**
◼**Secure Job Log(P. 373)**
◼**USB-Connected PC OS(P. 373)**
◼**PDL Selection (PnP)(P. 374)**
◼**Mng. Settings(P. 374)**
◼**RMT-SW(P. 375)**
◼**Adjust Screen(P. 375)**
◼**Animated Instruction(P. 376)**
◼**Show Toner Gauge(P. 376)**
◼**Set. Comp. Notify(P. 376)**
◼**Scrolling Speed(P. 377)**

Sleep Mode

The sleep mode function reduces the amount of power consumed by the machine by temporarily stopping some internal operations. Specify the sleep mode level. ◼**Entering Sleep Mode(P. 63)**

High (Deep Sleep) †
Mid (Printer Sleep)
Low (Panel Sleep)
Off

Sleep Even if Error

Select whether to automatically enter sleep mode when an error occurs.

Off
On †

▶ (Settings) ▶ <Control Menu> ▶ 🆗 ▶ <Sleep Even if Error> ▶ 🆗 ▶ <Off> or <On> ▶ 🆗
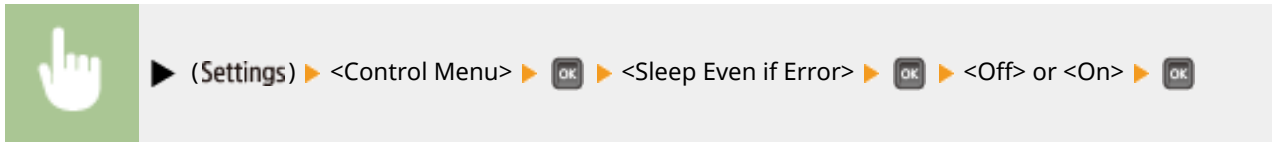
Deep Sleep Eco Prior

Select whether to further reduce power consumption when the machine and the computer are connected via USB.

Off [†]
On

▶ (Settings) ▶ <Control Menu> ▶ 🆗 ▶ <Deep Sleep Eco Prior> ▶ 🆗 ▶ <Off> or <On> ▶ 🆗

NOTE

- It may be possible that when you do an operation to perform printing with this item set to <On>, the machine does not exit the sleep mode. In that case, press [⬛] to exit the sleep mode.

Auto Sleep Time

If the machine has not been operated or has had no data to print for a specified period of time, it enters sleep mode to save energy consumption (Auto Sleep). Specify the period of time after which auto sleep is performed. We recommend using the factory default settings to save the most power. **Entering Sleep Mode(P. 63)**

1 min. [†]
5 min.
10 min.
15 min.
30 min.
60 min.
180 min.

Sleep When Using USB [*]

Select whether to allow the machine to enter sleep mode when you are using USB over NW to access a USB device from a computer via a network. **Adv. Func. Settings(P. 418)**

Do Not Allow
Allow [†]

▶ (Settings) ▶ <Control Menu> ▶ [OK] ▶ <Sleep When Using USB> ▶ [OK] ▶ <Do Not Allow> or <Allow> ▶ [OK]
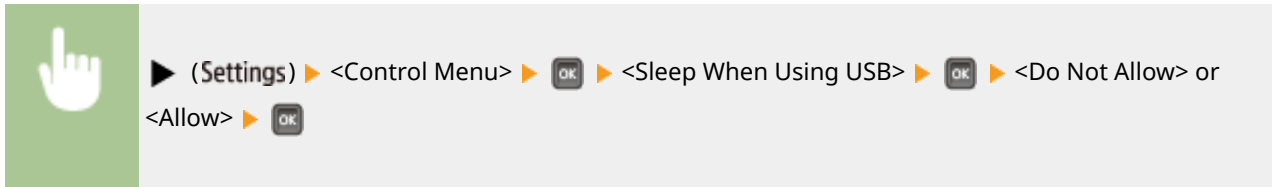
Timer Settings

You can specify the settings for the machine operations and time regarding Sleep Mode and for the Auto Reset function that displays the main screen if any key is not pressed for a specified period of time.

Wake Up Timer

Select whether to automatically exit sleep mode at a specified time. ◗**Entering Sleep Mode(P. 63)**

Off [†]
On

Wake Up Time

Set the time to exit sleep mode if <Wake Up Timer> is set to <On>. ◗**Entering Sleep Mode(P. 63)**

12:00 AM to 12:00 PM[†] to 11:59 PM or 00:00 to 12:00[†] to 23:59

Auto Reset Time

If any key is not pressed for a specified period of time, the current menu screen automatically returns to the main screen and the machine returns to the online mode (Auto Reset). Specify the interval at which the Auto Reset is performed. Select <Off> to disable the Auto Reset function.

Off
10 sec.
20 sec.
30 sec.
40 sec.
50 sec.
1 min.
2 min. [†]
3 min.
4 min.
5 min.
6 min.
7 min.
8 min.
9 min.

▶ (Settings) ▶ <Control Menu> ▶ [OK] ▶ <Timer Settings> ▶ [OK] ▶ <Auto Reset Time> ▶ [OK] ▶ Select the time ▶ [OK]
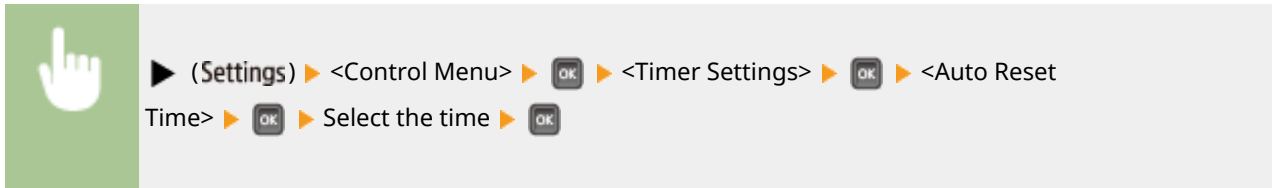
Sleep Timer

Select whether to automatically enter sleep mode at a specified time. ◗**Entering Sleep Mode(P. 63)**

Off [†]
On

Sleep Time

Set the time to enter sleep mode if <Sleep Timer> is set to <On>. ◗**Entering Sleep Mode(P. 63)**

12:00 AM to 12:00 PM [†] to 11:59 PM or 00:00 to 12:00 [†] to 23:59

Calibration Timer

Select whether to automatically perform a calibration at a specified time.

Off [†]
On

    ▶ (Settings) ▶ <Control Menu> ▶ [OK] ▶ <Timer Settings> ▶ [OK] ▶ <Calibration Timer> ▶ [OK] ▶ <Off> or <On> ▶ [OK]

Calibration Time

Set the time to perform a calibration if <Calibration Timer> is set to <On>.

12:00 AM to 12:00 PM [†] to 11:59 PM or 00:00 to 12:00 [†] to 23:59

    ▶ (Settings) ▶ <Control Menu> ▶ [OK] ▶ <Timer Settings> ▶ [OK] ▶ <Calibration Time> ▶ [OK] ▶ Set the time ▶ [OK]
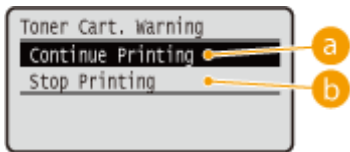
Warning Step

Specify how the machine should behave when a toner cartridge lifetime message appears.

Toner Cart. Warning

Select whether to automatically stop printing when the toner cartridge will soon reach the end of its lifetime.

Continue Printing [†]
Stop Printing

▶ (Settings) ▶ <Control Menu> ▶ OK ▶ <Warning Step> ▶ OK ▶ <Toner Cart. Warning> ▶ OK ▶ <Continue Printing> or <Stop Printing> ▶ OK

```
Toner Cart. Warning
Continue Printing  ──── ⓐ
Stop Printing      ──── ⓑ
```

ⓐ <Continue Printing>

When the time for toner cartridge replacement is near, the <X toner cartridge will soon reach lifetime.> message is displayed, but the printing is continued.

ⓑ <Stop Printing>

When the time for toner cartridge replacement is near, the <X toner cartridge will soon reach end of lifetime.> message is displayed, and the printing is temporarily stopped. To resume the printing, press ▭ (Online).

NOTE:

- "X" in the above message represents a CMYK color.

Auto Skip Error

If an error occurs during printing, the printing is stopped. When you want to continue printing even if an error occurs, specify <On>. For the errors during which the current print job is allowed to continue by this setting, see ●**When an Error Message Appears(P. 520)** .

Off [†]
On

▶ (Settings) ▶ <Control Menu> ▶ OK ▶ <Auto Skip Error> ▶ OK ▶ <Off> or <On> ▶ OK
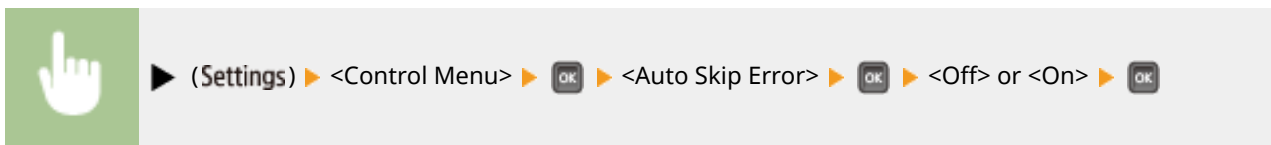
Language

You can change the language displayed on the operation panel screen, login screen of the remote UI, and the setting lists.

Čeština
Dansk
Deutsch
English [†]
Español
Français
Italiano
Magyar

Nederlands
Norsk
Polski
Português
Русский
Suomi
Svenska
Türkçe
中文(简体)
한국어

▶ (Settings) ▶ <Control Menu> ▶ ⟨ok⟩ ▶ <Language> ▶ ⟨ok⟩ ▶ Select the language ▶ ⟨ok⟩

Alarm

Select whether the machine beeps when a problem such as a paper jam or an operation mistake occurs.
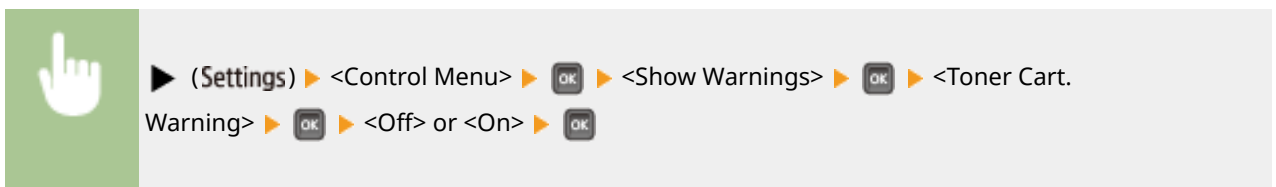
Off
On †

▶ (Settings) ▶ <Control Menu> ▶ ⟨ok⟩ ▶ <Alarm> ▶ ⟨ok⟩ ▶ <Off> or <On> ▶ ⟨ok⟩
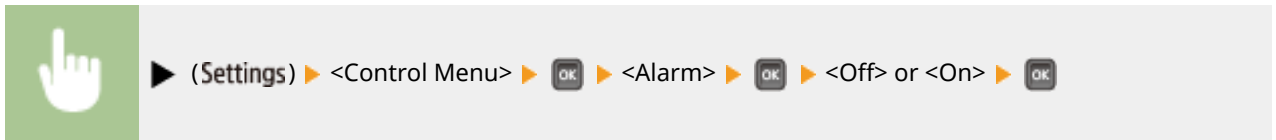
Show Warnings

Select whether to inform about warnings by messages when the machine has entered the warning state.

Toner Cart. Warning

Select whether to display an applicable message when the replacement time for the toner cartridge is near.

Off
On †

▶ (Settings) ▶ <Control Menu> ▶ ⟨ok⟩ ▶ <Show Warnings> ▶ ⟨ok⟩ ▶ <Toner Cart.
Warning> ▶ ⟨ok⟩ ▶ <Off> or <On> ▶ ⟨ok⟩

Drawer Empty

Select whether to display an applicable message when the paper drawer runs out of paper.

Off
On †

▶ (Settings) ▶ <Control Menu> ▶ [OK] ▶ <Show Warnings> ▶ [OK] ▶ <Drawer Empty> ▶ [OK] ▶ <Off> or <On> ▶ [OK]

E-Mail Trans. Error

Select whether to display an applicable message when a communication error occurs during E-Mail Print.

Off
On †

▶ (Settings) ▶ <Control Menu> ▶ [OK] ▶ <Show Warnings> ▶ [OK] ▶ <E-Mail Trans. Error> ▶ [OK] ▶ <Off> or <On> ▶ [OK]

Date/Time Settings

Set the current date and time.

Date

Set the current date in the order of Year, Month, and Day. Use ◀ / ▶ to move the cursor, and use the numeric keys to specify the date.

01/01 2001 to 12/31 2030

▶ (Settings) ▶ <Control Menu> ▶ [OK] ▶ <Date/Time Settings> ▶ [OK] ▶ <Date> ▶ [OK] ▶ Set the date ▶ [OK]

12/24 Hour Clock

Select the 12- or 24-hour clock display setting.

12 Hour (AM/PM) †
24 Hour

▶ (Settings) ▶ <Control Menu> ▶ [OK] ▶ <Date/Time Settings> ▶ [OK] ▶ <12/24 Hour Clock> ▶ [OK] ▶ <12 Hour (AM/PM)> or <24 Hour> ▶ [OK]

Time

Specify the current time. Use ◀ / ▶ to move the cursor, and use the numeric keys to specify the time.

12:00:00 AM to 11:59:59 PM or 00:00:00 to 23:59:59

▶ (Settings) ▶ <Control Menu> ▶ OK ▶ <Date/Time Settings> ▶ OK ▶ <Time> ▶ OK ▶ Set the time ▶ OK

Daylight Savings

Specify settings for daylight saving time.

DST Settings

Specifies whether to set the daylight saving time.

Off †
On

▶ (Settings) ▶ <Control Menu> ▶ OK ▶ <Date/Time Settings> ▶ OK ▶ <Daylight Savings> ▶ OK ▶ Check the message ▶ OK ▶ <DST Settings> ▶ OK ▶ <Off> or <On> ▶ OK ▶ Perform a hard Reset (▶**Performing a Hard Reset(P. 499)**)

Start Date/Time

Specifies the start date and time of daylight saving time.

Month
Week
Day
Time

▶ (Settings) ▶ <Control Menu> ▶ OK ▶ <Date/Time Settings> ▶ OK ▶ <Daylight Savings> ▶ OK ▶ Check the message ▶ OK ▶ <Start Date/Time> ▶ OK ▶ Set the date and time ▶ OK ▶ Perform a hard Reset (▶**Performing a Hard Reset(P. 499)**)

End Date/Time

Specifies the end date and time of daylight saving time.

Month
Week
Day
Time

> ▶ (Settings) ▶ <Control Menu> ▶ OK ▶ <Date/Time Settings> ▶ OK ▶ <Daylight Savings> ▶ OK ▶ Check the message ▶ OK ▶ <End Date/Time> ▶ OK ▶ Set the date and time ▶ OK ▶ Perform a hard reset (▶**Performing a Hard Reset(P. 499)**)

Time Zone

Specifies the time zone according to the region where the machine is being used.

GMT-12:00 to GMT -05:00 † to GMT+12:00

> ▶ (Settings) ▶ <Control Menu> ▶ OK ▶ <Date/Time Settings> ▶ OK ▶ <Time Zone> ▶ OK ▶ Check the message ▶ OK ▶ Set the time zone ▶ OK ▶ Perform a hard reset (▶ **Performing a Hard Reset(P. 499)**)

Main Pwr Quick Start

If you specify the quick startup settings, you can reduce the time from when the power switch is pressed until the screens become operable. ▶**Performing a Quick Start of the Machine(P. 36)**

Off †
On

SD Card *

Enable or disable the SD card.

Off
On †

> ▶ (Settings) ▶ <Control Menu> ▶ OK ▶ <SD Card> ▶ OK ▶ Check the message ▶ OK ▶ <Off> or <On> ▶ OK ▶ Perform a hard reset (▶**Performing a Hard Reset(P. 499)**)

Interrupt Print *

Select whether to allow use of the Interrupt Print function (▶**Checking Current Status of Print Documents(P. 345)**).

Off
On †

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☞ (Settings) ▶ <Control Menu> ▶ 🆗 ▶ <Interrupt Print> ▶ 🆗 ▶ <Off> or <On> ▶ 🆗

Sec. Print Del. Time *

Set the time until secured documents stored in the machine are automatically deleted. ⬤**Changing the Valid Time Period for Secured Documents(P. 133)**

1 hr. †
2 hr.
3 hr.
6 hr.
12 hr.
24 hr.

Secure Job Log *

If the machine is turned OFF during printing, a print log may not be generated and the total number of printed pages may not be calculated. If you set this function to <On>, print log generation and total printed page counting are surely performed. However, the print speed will be slower.

Off †
On

☞ (Settings) ▶ <Control Menu> ▶ 🆗 ▶ <Secure Job Log> ▶ 🆗 ▶ Check the message ▶ 🆗 ▶ <Off> or <On> ▶ 🆗 ▶ Perform a hard reset (⬤**Performing a Hard Reset(P. 499)**)
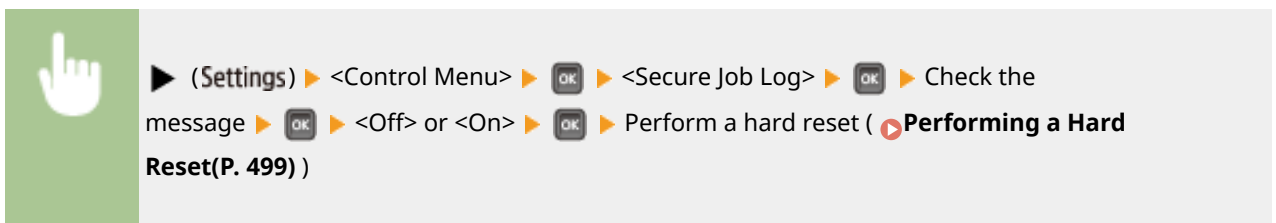
USB-Connected PC OS

Select the OS of your computer connecting to the machine via USB.

Mac OS †
Windows
Other

IMPORTANT

- Be sure to match the machine settings to the OS of your computer. If not matched, the computer will not correctly recognize the machine.

- If the OS of your computer is Mac OS X 10.10 or earlier and if you want to print from a printer driver via USB, set this item to <Other>.

👉 ▶ (Settings) ▶ <Control Menu> ▶ 🆗 ▶ <USB-Connected PC OS> ▶ 🆗 ▶ Select the OS of the computer to connect to the machine ▶ 🆗

PDL Selection (PnP)

Specify a printer driver to be installed when the machine is connected to a computer via USB or it is searched over the WSD network.

UFR II †
UFR II (V4)
PCL6
PS3
XPS (Direct)

👉 ▶ (Settings) ▶ <Control Menu> ▶ 🆗 ▶ <PDL Selection (PnP)> ▶ 🆗 ▶ Check the message ▶ 🆗 ▶ Select the page description language ▶ 🆗 ▶ Perform a hard reset (▶**Performing a Hard Reset(P. 499)**)

Mng. Settings

Select whether to restrict the use of the ▶ (Settings) key on the operation panel to prevent any settings from being changed carelessly.

Settings Key Lock

If you select <On>, the Setup menu is not operable even if ▶ (Settings) is pressed.

Off †
On

👉 ▶ (Settings) ▶ <Control Menu> ▶ 🆗 ▶ <Mng. Settings> ▶ 🆗 ▶ <Settings Key Lock> ▶ 🆗 ▶ Check the message ▶ 🆗 ▶ <Off> or <On> ▶ 🆗

NOTE

● If you select <On>, the Settings key can be unlocked from the Remote UI only. ▶**Restricting Operation Panel Functions(P. 288)**

RMT-SW

Use this machine leaving this item set to <Off>. You may be asked to change the setting to <On> to allow for remote maintenance on your machine by a Canon service representative.

Off [†]
On

▶ (Settings) ▶ <Control Menu> ▶ [OK] ▶ <RMT-SW> ▶ [OK] ▶ <Off> or <On> ▶ [OK]

Adjust Screen

You can adjust the contrast and brightness of the display.

Contrast

Adjust the contrast (difference in brightness between light and dark areas) of the display to suit the installation location of the machine.

-3 to 0 [†] to +3

▶ (Settings) ▶ <Control Menu> ▶ [OK] ▶ <Adjust Screen> ▶ [OK] ▶ <Contrast> ▶ [OK] ▶ Use ▲ / ▼ to adjust the contrast ▶ [OK]

ⓐ Adjusting the contrast

Set a "+" value to brighten the screen. Set a "-" value to darken the screen.

Backlight Brightness

Adjust the backlight brightness of the display by selecting from three levels. Select <Off> to disable the backlight.

Off
Level 1
Level 2
Level 3 [†]

▶ (Settings) ▶ <Control Menu> ▶ ⊙ᴋ ▶ <Adjust Screen> ▶ ⊙ᴋ ▶ <Backlight Brightness> ▶ ⊙ᴋ ▶ Select the brightness level ▶ ⊙ᴋ

Animated Instruction

Select whether to show animated instructions on the display when a paper jam occurs or when you replace toner cartridges or the like.

Off
On †

▶ (Settings) ▶ <Control Menu> ▶ ⊙ᴋ ▶ <Animated Instruction> ▶ ⊙ᴋ ▶ <Off> or <On> ▶ ⊙ᴋ

Show Toner Gauge

Select whether to display the toner gauge in the lower right of the display.

Off
On †

▶ (Settings) ▶ <Control Menu> ▶ ⊙ᴋ ▶ <Show Toner Gauge> ▶ ⊙ᴋ ▶ <Off> or <On> ▶ ⊙ᴋ

Set. Comp. Notify

Specify how long a message that appears when a setting is changed is displayed in seconds. If you select <Off>, the message will no longer be displayed.

Settings changed.

Off
1 sec.
2 sec.
3 sec. †

> ▶ (**Settings**) ▶ <Control Menu> ▶ 🆗 ▶ <Set. Comp. Notify> ▶ 🆗 ▶ Select the number of seconds ▶ 🆗

Scrolling Speed

Adjust the speed for scrolling characters from the right to the left on the display by selecting from three levels.

Slow
Normal †
Fast

> ▶ (**Settings**) ▶ <Control Menu> ▶ 🆗 ▶ <Scrolling Speed> ▶ 🆗 ▶ Select the speed ▶ 🆗

Paper Source

0YS1-05E
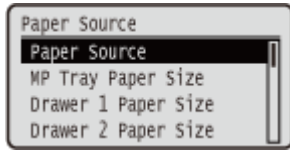
See ▶**Select Feeder Menu(P. 501)** .

Network

0YS1-05F
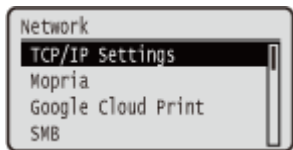
All the settings about the network are listed with short descriptions. Default settings are marked with a dagger (†).

NOTE

If <Network> is not displayed

- If <Network> under <Interface Selection> is set to <Off>, <Network> is not displayed in the Setup menu. **○ Interface Selection(P. 418)**

Asterisks (*)

- Settings marked with an asterisk (*) are not displayed depending on other settings or whether an optional SD card is installed on the machine.

○**TCP/IP Settings(P. 379)**　　　　○**Remote UI Settings(P. 394)**
○**Mopria(P. 390)**　　　　　　　　 ○**Ethernet Driver(P. 395)**
○**Google Cloud Print(P. 391)**　　 ○**Sleep Mode Priority(P. 395)**
○**SMB(P. 391)**　　　　　　　　　 ○**IEEE802.1X(P. 396)**
○**SNMP Settings(P. 391)**　　　　 ○**Address Filter(P. 396)**
○**Spooler(P. 393)**　　　　　　　 ○**MAC Address(P. 397)**
○**Receive in Parallel(P. 394)**　　 ○**E-Mail Print Set.(P. 397)**
○**Wait Time at Startup(P. 394)**　 ○**Init. Network Set.(P. 398)**

TCP/IP Settings

Specify settings for using the machine in a TCP/IP network, such as IP address settings.

IPv4 Settings

Specify settings for using the machine in an IPv4 network.

IPv4

Enable or disable IPv4 in the machine.

Off
On †

▶ (Settings) ▶ <Network> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <TCP/IP Settings> ▶ [OK] ▶ <IPv4 Settings> ▶ [OK] ▶ <IPv4> ▶ [OK] ▶ <Off> or <On> ▶ [OK] ▶ Perform a hard reset (○**Performing a Hard Reset(P. 499)**)

IP Mode

Select how to set the IP address. ○**Setting IPv4 Address(P. 191)**

Auto †
Manual

Protocol *

Select the protocol to use when <IP Mode> is set to <Auto>. If you set the selected protocol to <On>, the other two protocols are automatically set to <Off>. ▶**Setting IPv4 Address(P. 191)**

Use DHCP

Off
On †

Use BOOTP

Off †
On

Use RARP

Off †
On

Auto IP *

Select whether to automatically obtain an IP address. Specify <On> when <IP Mode> is set to <Auto>. ▶
Setting IPv4 Address(P. 191)

Off
On †

IP Address Settings

Configure the IP address, which is used for identifying devices, such as computers and printers, on a TCP/IP network. ▶**Setting IPv4 Address(P. 191)**

IP Address

0.0.0.0 † to 255.255.255.255

Subnet Mask

0.0.0.0 † to 255.255.255.255

Gateway Address

0.0.0.0 † to 255.255.255.255

DNS

Specify settings for the server address of the Domain Name System (DNS), which provides a host name for IP address resolutions. Use ◀ / ▶ to move the cursor, and use the numeric keys to specify the address. Use the Remote UI to specify other settings for DNS. ▶**Configuring DNS(P. 223)**

Primary Address

0.0.0.0 † to 255.255.255.255

Secondary Address

0.0.0.0 † to 255.255.255.255

▶ (Settings) ▶ <Network> ▶ OK ▶ Check the message ▶ OK ▶ <TCP/IP Settings> ▶ OK ▶ <IPv4 Settings> ▶ OK ▶ <DNS> ▶ OK ▶ Select the server to configure ▶ OK ▶ Set the address ▶ OK ▶ Perform a hard reset (**Performing a Hard Reset(P. 499)**)

mDNS Settings *
Specify settings for using DNS functions without DNS servers. **Configuring DNS(P. 223)**

mDNS

Off
On†

▶ (Settings) ▶ <Network> ▶ OK ▶ Check the message ▶ OK ▶ <TCP/IP Settings> ▶ OK ▶ <IPv4 Settings> ▶ OK ▶ <mDNS Settings> ▶ OK ▶ <mDNS> ▶ OK ▶ <Off> or <On> ▶ OK ▶ Perform a hard reset (**Performing a Hard Reset(P. 499)**)

mDNS Name *
When <mDNS> is set to <On>, set this item.

▶ (Settings) ▶ <Network> ▶ OK ▶ Check the message ▶ OK ▶ <TCP/IP Settings> ▶ OK ▶ <IPv4 Settings> ▶ OK ▶ <mDNS Settings> ▶ OK ▶ <mDNS Name> ▶ OK ▶ Set the name ▶ OK ▶ Perform a hard reset (**Performing a Hard Reset(P. 499)**)

DHCP Option
When DHCP is enabled, select whether to acquire the host name and whether to perform dynamic update of the DNS using the DHCP options.

Acquire Host Name

Off
On†

DNS Dynamic Update

Off†
On

▶ (Settings) ▶ <Network> ▶ OK ▶ Check the message ▶ OK ▶ <TCP/IP Settings> ▶ OK ▶ <IPv4 Settings> ▶ OK ▶ <DHCP Option> ▶ OK ▶ <Acquire Host Name> or <DNS Dynamic

	Update> ▶ 🆗 ▶ <Off> or <On> ▶ 🆗 ▶ Perform a hard reset (⊙**Performing a Hard Reset(P. 499)**)

IPv6 Settings

Select whether to use the machine in an IPv6 network. Use the Remote UI to specify the IPv6 address settings. ⊙**Setting IPv6 Addresses(P. 195)**

IPv6

Enable or disable IPv6 in the machine.

Off [†]

On

	▶ (Settings) ▶ <Network> ▶ 🆗 ▶ Check the message ▶ 🆗 ▶ <TCP/IP Settings> ▶ 🆗 ▶ <IPv6 Settings> ▶ 🆗 ▶ <IPv6> ▶ 🆗 ▶ <Off> or <On> ▶ 🆗 ▶ Perform a hard reset (⊙**Performing a Hard Reset(P. 499)**)

mDNS Settings [*]

Specify settings for using DNS functions without DNS servers. ⊙**Configuring DNS(P. 223)**

mDNS

Off

On [†]

	▶ (Settings) ▶ <Network> ▶ 🆗 ▶ Check the message ▶ 🆗 ▶ <TCP/IP Settings> ▶ 🆗 ▶ <IPv6 Settings> ▶ 🆗 ▶ <mDNS Settings> ▶ 🆗 ▶ <mDNS> ▶ 🆗 ▶ <Off> or <On> ▶ 🆗 ▶ Perform a hard reset (⊙**Performing a Hard Reset(P. 499)**)

Use IPv4 Name (mDNS) [*]

Off

On [†]

	▶ (Settings) ▶ <Network> ▶ 🆗 ▶ Check the message ▶ 🆗 ▶ <TCP/IP Settings> ▶ 🆗 ▶ <IPv6 Settings> ▶ 🆗 ▶ <mDNS Settings> ▶ 🆗 ▶ <Use IPv4 Name (mDNS)> ▶ 🆗 ▶ <Off> or <On> ▶ 🆗 ▶ Perform a hard reset (⊙**Performing a Hard Reset(P. 499)**)

mDNS Name [*]

When <Use IPv4 Name (mDNS)> is set to <Off>, set this item.

▶ (Settings) ▶ <Network> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <TCP/IP Settings> ▶ [OK] ▶ <IPv6 Settings> ▶ [OK] ▶ <mDNS Settings> ▶ [OK] ▶ <mDNS Name> ▶ [OK] ▶ Set the name ▶ [OK] ▶ Perform a hard reset (○**Performing a Hard Reset(P. 499)**)

WINS Resolution

Select whether to use Windows Internet Name Service (WINS), which provides a NetBIOS name for IP address resolutions in a mixed network environment of NetBIOS and TCP/IP. Use the Remote UI to specify detailed settings that are applied when WINS is enabled. ○**Configuring WINS(P. 229)**

Off †
On

▶ (Settings) ▶ <Network> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <TCP/IP Settings> ▶ [OK] ▶ <WINS Resolution> ▶ [OK] ▶ <Off> or <On> ▶ [OK] ▶ Perform a hard reset (○ **Performing a Hard Reset(P. 499)**)

FTP

Select whether to change the settings for printing and those configured in the machine from FTP.

FTP Print

Select whether to print from FTP. Use the Remote UI to set the user name and password that are used to print from FTP. ○**Preparing for Using the FTP Server(P. 649)**

Off †
On

▶ (Settings) ▶ <Network> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <TCP/IP Settings> ▶ [OK] ▶ <FTP> ▶ [OK] ▶ <FTP Print> ▶ [OK] ▶ <Off> or <On> ▶ [OK] ▶ Perform a hard reset (○**Performing a Hard Reset(P. 499)**)

Allow Set. via FTP

Select whether to change the settings configured in the machine from FTP.

Off †
On

383

> ▶ (Settings) ▶ <Network> ▶ ⚬ᴋ ▶ Check the message ▶ ⚬ᴋ ▶ <TCP/IP Settings> ▶ ⚬ᴋ ▶ <FTP> ▶ ⚬ᴋ ▶ <Allow Set. via FTP> ▶ ⚬ᴋ ▶ <Off> or <On> ▶ ⚬ᴋ ▶ Perform a hard reset (●**Performing a Hard Reset(P. 499)**)

LPD Settings

Enable or disable LPD, a printing protocol that can be used on any hardware platform or operating system. Also, set the time period after which the print job automatically ends when print data cannot be received due to a communication error or some other problem. Use the Remote UI to specify settings for banner page printing when LPD is enabled. ●**Configuring Printing Protocols and WSD Functions(P. 200)**

LPD Print

> Off
> On †

> ▶ (Settings) ▶ <Network> ▶ ⚬ᴋ ▶ Check the message ▶ ⚬ᴋ ▶ <TCP/IP Settings> ▶ ⚬ᴋ ▶ <LPD Settings> ▶ ⚬ᴋ ▶ <LPD Print> ▶ ⚬ᴋ ▶ <Off> or <On> ▶ ⚬ᴋ ▶ Perform a hard reset (●
> **Performing a Hard Reset(P. 499)**)

RX Timeout *

> 1 to 60 † (min.)

> ▶ (Settings) ▶ <Network> ▶ ⚬ᴋ ▶ Check the message ▶ ⚬ᴋ ▶ <TCP/IP Settings> ▶ ⚬ᴋ ▶ <LPD Settings> ▶ ⚬ᴋ ▶ <RX Timeout> ▶ ⚬ᴋ ▶ Set Timeout Time ▶ ⚬ᴋ ▶ Perform a hard reset (●
> **Performing a Hard Reset(P. 499)**)

RAW Settings

Enable or disable RAW, a Windows specific printing protocol. Also, set the time period after which the print job automatically ends when print data cannot be received due to a communication error or some other problem. Use the Remote UI to specify settings for bidirectional communication. ●**Configuring Printing Protocols and WSD Functions(P. 200)**

RAW Print

> Off
> On †

> 👆 ▶ (Settings) ▶ \<Network> ▶ OK ▶ Check the message ▶ OK ▶ \<TCP/IP Settings> ▶ OK ▶ \<RAW Settings> ▶ OK ▶ \<RAW Print> ▶ OK ▶ \<Off> or \<On> ▶ OK ▶ Perform a hard reset (▶ **Performing a Hard Reset(P. 499)**)

RX Timeout *

1 to 60 † (min.)

> 👆 ▶ (Settings) ▶ \<Network> ▶ OK ▶ Check the message ▶ OK ▶ \<TCP/IP Settings> ▶ OK ▶ \<RAW Settings> ▶ OK ▶ \<RX Timeout> ▶ OK ▶ Set Timeout Time ▶ OK ▶ Perform a hard reset (▶ **Performing a Hard Reset(P. 499)**)

IPP Print

Enable or disable IPP, which enables printing from an external network via Internet. Use the Remote UI to specify settings for TLS encryption of data to send and user authentication. ▶**Configuring Printing Protocols and WSD Functions(P. 200)**

Off
On †

> 👆 ▶ (Settings) ▶ \<Network> ▶ OK ▶ Check the message ▶ OK ▶ \<TCP/IP Settings> ▶ OK ▶ \<IPP Print> ▶ OK ▶ \<Off> or \<On> ▶ OK ▶ Perform a hard reset (▶**Performing a Hard Reset(P. 499)**)

WSD

Enable or disable automatic browsing and acquiring information for the machine by using the WSD protocol that is available on Windows Vista/7/8/10/Server 2008/Server 2012. ▶**Configuring Printing Protocols and WSD Functions(P. 200)**

WSD Print

Select whether to print with the machine by using WSD.

Off †
On

> 👆 ▶ (Settings) ▶ \<Network> ▶ OK ▶ Check the message ▶ OK ▶ \<TCP/IP Settings> ▶ OK ▶ \<WSD> ▶ OK ▶ \<WSD Print> ▶ OK ▶ \<Off> or \<On> ▶ OK ▶ Perform a hard reset (▶**Performing a Hard Reset(P. 499)**)

WSD Browsing *

Select whether to acquire information of the machine from a computer by using WSD. If <WSD Print> is set to <On>, <WSD Browsing> is fixed to <On> and is not displayed in the setting menu.

Off †
On

▶ (Settings) ▶ <Network> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <TCP/IP Settings> ▶ [OK] ▶ <WSD> ▶ [OK] ▶ <WSD Browsing> ▶ [OK] ▶ <Off> or <On> ▶ [OK] ▶ Perform a hard reset (**Performing a Hard Reset(P. 499)**)

Multicast Discovery

Select whether to set the machine to reply to multicast discovery messages.

Off †
On

▶ (Settings) ▶ <Network> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <TCP/IP Settings> ▶ [OK] ▶ <WSD> ▶ [OK] ▶ <Multicast Discovery> ▶ [OK] ▶ <Off> or <On> ▶ [OK] ▶ Perform a hard reset (**Performing a Hard Reset(P. 499)**)

> **NOTE**
>
> - If <Multicast Discovery> is set to <Off>, the machine stays in sleep mode even when multicast discovery messages are flowing on the network.

HTTP

Enable or disable HTTP. HTTP is required for communications with a computer, such as when using the Remote UI and performing WSD printing. **Disabling HTTP Communication(P. 291)**

Off
On †

Proxy Settings

Specify settings for using the proxy server that relays HTTP communications. **Setting a Proxy(P. 277)**

Proxy

Enable or disable the proxy server when the machine performs HTTP communications.

Off †
On

▶ (Settings) ▶ <Network> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <TCP/IP Settings> ▶ [OK] ▶ <Proxy Settings> ▶ [OK] ▶ <Proxy> ▶ [OK] ▶ <Off> or <On> ▶ [OK] ▶ Perform a hard reset (⦿**Performing a Hard Reset(P. 499)**)

Server Address *

Set the address of the proxy server to use. Specify the IP address, domain name, and other necessary information that suit your operational environment. Use ◀ / ▶ to move the cursor, and use the numeric keys to enter the address (⦿**Entering Text(P. 32)**).

▶ (Settings) ▶ <Network> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <TCP/IP Settings> ▶ [OK] ▶ <Proxy Settings> ▶ [OK] ▶ <Server Address> ▶ [OK] ▶ Enter the server address ▶ [OK] ▶ Perform a hard reset (⦿**Performing a Hard Reset(P. 499)**)

Port Number *

Specify the port number of the proxy server to use.

1 to 80 [†] to 65535

▶ (Settings) ▶ <Network> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <TCP/IP Settings> ▶ [OK] ▶ <Proxy Settings> ▶ [OK] ▶ <Port Number> ▶ [OK] ▶ Enter the port number ▶ [OK] ▶ Perform a hard reset (⦿**Performing a Hard Reset(P. 499)**)

Same Domain *

Enable or disable the proxy server even for performing HTTP communications with devices in the same domain.

Use Proxy Do Not Use Proxy [†]

▶ (Settings) ▶ <Network> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <TCP/IP Settings> ▶ [OK] ▶ <Proxy Settings> ▶ [OK] ▶ <Same Domain> ▶ [OK] ▶ <Use Proxy> or <Do Not Use Proxy> ▶ [OK] ▶ Perform a hard reset (⦿**Performing a Hard Reset(P. 499)**)

Proxy Authentication *

Enable or disable the authentication function of the proxy server.

Off [†]

On

> ▶ (Settings) ▶ <Network> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <TCP/IP Settings> ▶ [OK] ▶ <Proxy Settings> ▶ [OK] ▶ <Proxy Authentication> ▶ [OK] ▶ <Off> or <On> ▶ [OK] ▶ Perform a hard reset (○**Performing a Hard Reset(P. 499)**)

User Name *

To enable the proxy authentication, enter up to 24 alphanumeric characters for the user name to authenticate. Use the numeric keys to enter the user name. (○**Entering Text(P. 32)**)

> ▶ (Settings) ▶ <Network> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <TCP/IP Settings> ▶ [OK] ▶ <Proxy Settings> ▶ [OK] ▶ <User Name> ▶ [OK] ▶ Enter the user name ▶ [OK] ▶ Perform a hard reset (○**Performing a Hard Reset(P. 499)**)

Password *

To set the password for the proxy authentication, enter up to 24 alphanumeric characters. Use the numeric keys to enter the password. (○**Entering Text(P. 32)**)

> ▶ (Settings) ▶ <Network> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <TCP/IP Settings> ▶ [OK] ▶ <Proxy Settings> ▶ [OK] ▶ <Password> ▶ [OK] ▶ Enter the password ▶ [OK] ▶ Perform a hard reset (○**Performing a Hard Reset(P. 499)**)

SNTP

Select whether to acquire time from a network time server. Use the Remote UI to specify the server address settings. ○**Configuring SNTP(P. 232)**

Off †
On

> ▶ (Settings) ▶ <Network> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <TCP/IP Settings> ▶ [OK] ▶ <SNTP> ▶ [OK] ▶ <Off> or <On> ▶ [OK] ▶ Perform a hard reset (○**Performing a Hard Reset(P. 499)**)

Discovery Response

Select whether to set the machine to respond to multicast discovery packets on the network. Use the Remote UI to specify the scope name that is used to include the machine into a specific scope. ○**Configuring Settings for Device Management Software(P. 241)**

Off
On †

▶ (Settings) ▶ <Network> ▶ OK ▶ Check the message ▶ OK ▶ <TCP/IP
Settings> ▶ OK ▶ <Discovery Response> ▶ OK ▶ <Off> or <On> ▶ OK ▶ Perform a hard reset (▶
Performing a Hard Reset(P. 499))

IPSec

Select whether to perform encrypted communication by establishing a virtual private network (VPN) via IPSec. Use the Remote UI to register and specify the security policies. ▶**Configuring IPSec Settings(P. 301)**

Off †
On

▶ (Settings) ▶ <Network> ▶ OK ▶ Check the message ▶ OK ▶ <TCP/IP
Settings> ▶ OK ▶ <IPSec> ▶ OK ▶ <Off> or <On> ▶ OK ▶ Perform a hard reset (▶**Performing a Hard Reset(P. 499)**)

Sleep Notif. Set.

Specify settings for SLP communication to notify imageWARE of the power status of the machine. If you set <Sleep Mode Notif.> to <On>, you can expect the machine to avoid unnecessary communication during sleep mode and reduce the total power consumption. ▶**Configuring Settings for Device Management Software(P. 241)**

Sleep Mode Notif.

Enable or disable SLP communication. If you select <On>, the power status of the machine is notified to imageWARE.

Off
On †

▶ (Settings) ▶ <Network> ▶ OK ▶ Check the message ▶ OK ▶ <TCP/IP
Settings> ▶ OK ▶ <Sleep Notif. Set.> ▶ OK ▶ <Sleep Mode Notif.> ▶ OK ▶ <Off> or
<On> ▶ OK ▶ Perform a hard reset (▶**Performing a Hard Reset(P. 499)**)

Port Number *

Enter the port number for SLP communications with management software.

1 to 11427 † to 65535

▶ (Settings) ▶ <Network> ▶ OK ▶ Check the message ▶ OK ▶ <TCP/IP Settings> ▶ OK ▶ <Sleep Notif. Set.> ▶ OK ▶ <Port Number> ▶ OK ▶ Use the numeric keys to enter the port number ▶ OK ▶ Perform a hard reset (◉**Performing a Hard Reset(P. 499)**)

Routers to Traverse *

Specify how many routers the notification packets can pass. Enter a number from 0 to 254.

0 to 3 † to 254

▶ (Settings) ▶ <Network> ▶ OK ▶ Check the message ▶ OK ▶ <TCP/IP Settings> ▶ OK ▶ <Sleep Notif. Set.> ▶ OK ▶ <Routers to Traverse> ▶ OK ▶ Use the numeric keys to enter the number of routers to traverse ▶ OK ▶ Perform a hard reset (◉**Performing a Hard Reset(P. 499)**)

Notif. Interval *

Specify how often the machine notifies imageWARE of its power status. Enter a number in seconds from 60 to 65535.

60 to 600 † to 65535

▶ (Settings) ▶ <Network> ▶ OK ▶ Check the message ▶ OK ▶ <TCP/IP Settings> ▶ OK ▶ <Sleep Notif. Set.> ▶ OK ▶ <Notif. Interval> ▶ OK ▶ Use the numeric keys to enter the notification interval ▶ OK ▶ Perform a hard reset (◉**Performing a Hard Reset(P. 499)**)

Mopria

Select whether to use Mopria™. ◉**Printing with Mopria™(P. 170)**

Off
On †

▶ (Settings) ▶ <Network> ▶ OK ▶ Check the message ▶ OK ▶ <Mopria> ▶ OK ▶ <Off> or <On> ▶ OK ▶ Perform a hard reset (◉**Performing a Hard Reset(P. 499)**)

Google Cloud Print

Enable or disable Google Cloud Print. ❏**Changing Google Cloud Print Settings(P. 179)**

> **Use Cloud Print**
>   Off
>   On †
> **Registration Status**

SMB *

Select whether to use the machine as a shared printer on the SMB network. Use the Remote UI to specify other SMB settings including the server name and the workgroup name. ❏**Configuring SMB(P. 245)**

SMB Server

Select whether to display the machine as an SMB Server on the SMB network configuration screen.

> Off †
> On

▶ (Settings) ▶ <Network> ▶ OK ▶ Check the message ▶ OK ▶ <SMB> ▶ OK ▶ <SMB Server> ▶ OK ▶ <Off> or <On> ▶ OK ▶ Perform a hard reset (❏**Performing a Hard Reset(P. 499)**)

SMB Print *

Enable or disable SMB Print.

> Off †
> On

▶ (Settings) ▶ <Network> ▶ OK ▶ Check the message ▶ OK ▶ <SMB> ▶ OK ▶ <SMB Print> ▶ OK ▶ <Off> or <On> ▶ OK ▶ Perform a hard reset (❏**Performing a Hard Reset(P. 499)**)

SNMP Settings

Specify the settings for monitoring and controlling the machine from a computer running SNMP-compatible software. ❏**Monitoring and Controlling the Machine with SNMP(P. 235)**

SNMPv1 Settings

Specify settings for using SNMPv1. Use the Remote UI to specify a community name and access privileges to Management Information Base (MIB) objects.

SNMPv1

Enable or disable SNMPv1.

Off
On †

👆 ▶ (**Settings**) ▶ <Network> ▶ 🆗 ▶ Check the message ▶ 🆗 ▶ <SNMP Settings> ▶ 🆗 ▶ <SNMPv1 Settings> ▶ 🆗 ▶ <SNMPv1> ▶ 🆗 ▶ <Off> or <On> ▶ 🆗 ▶ Perform a hard reset (▶**Performing a Hard Reset(P. 499)**)

Dctd. Community Set.

Dedicated Community is a preset community, intended exclusively for administrators using Canon software, such as imageWARE Enterprise Management Console. Select the access privilege to Management Information Base (MIB) objects.

Dctd. Community

Off
Read/Write
Read Only †

👆 ▶ (**Settings**) ▶ <Network> ▶ 🆗 ▶ Check the message ▶ 🆗 ▶ <SNMP Settings> ▶ 🆗 ▶ <SNMPv1 Settings> ▶ 🆗 ▶ <Dctd. Community Set.> ▶ 🆗 ▶ <Dctd. Community> ▶ 🆗 ▶ Select the access privilege ▶ 🆗 ▶ Perform a hard reset (▶**Performing a Hard Reset(P. 499)**)

SNMPv3 Settings

Specify settings for using SNMPv3. Use the Remote UI to specify detailed settings that are applied when SNMPv3 is enabled.

SNMPv3

Enable or disable SNMPv3.

Off †
On

👆 ▶ (**Settings**) ▶ <Network> ▶ 🆗 ▶ Check the message ▶ 🆗 ▶ <SNMP Settings> ▶ 🆗 ▶ <SNMPv3 Settings> ▶ 🆗 ▶ <SNMPv3> ▶ 🆗 ▶ <Off> or <On> ▶ 🆗 ▶ Perform a hard reset (▶**Performing a Hard Reset(P. 499)**)

User Settings N (N=1, 2, 3, 4, 5) *

Specify the authentication password and encryption password as the user information used on SNMPv3. Use the Remote UI to register the user information. ❍**Monitoring and Controlling the Machine with SNMP(P. 235)**

Auth. Password /Encryption Password

Enter 6 to 16 alphanumeric characters for each password. Use the numeric keys to enter the password.

▶ (Settings) ▶ <Network> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <SNMP Settings> ▶ [OK] ▶ <SNMPv3 Settings> ▶ [OK] ▶ Select the user settings number ▶ [OK] ▶ Check the user name ▶ [OK] ▶ <Auth. Password> or <Encryption Password> ▶ [OK] ▶ Enter the password ▶ [OK] ▶ Perform a hard reset (❍**Performing a Hard Reset(P. 499)**)

Rjct Packet in Sleep

Select whether to discard SNMP packets received during sleep mode.

Off †
On

▶ (Settings) ▶ <Network> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <SNMP Settings> ▶ [OK] ▶ <Rjct Packet in Sleep> ▶ [OK] ▶ <Off> or <On> ▶ [OK] ▶ Perform a hard reset (❍**Performing a Hard Reset(P. 499)**)

NOTE

- If you select <On>, applications that use the SNMP protocol, such as Canon software imageWARE Series, may be disabled to access the machine.

Spooler *

Select whether to include the SD card in the storage locations of received print data. If you select <On>, the machine capacity of receiving print data is increased.

Off †
On

▶ (Settings) ▶ <Network> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <Spooler> ▶ [OK] ▶ <Off> or <On> ▶ [OK] ▶ Perform a hard reset (❍**Performing a Hard Reset(P. 499)**)

Receive in Parallel

Specify whether to print the received jobs in the order of reception when multiple print jobs are sent from multiple computers or other devices. When you sequentially send multiple print jobs to the machine, you can print them without being interrupted by print jobs sent from other computers or the like. To do so, set this item to <Off>.

Off On †

> 👆 ▶ (Settings) ▶ <Network> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <Receive in Parallel> ▶ [OK] ▶ <Off> or <On> ▶ [OK] ▶ Perform a hard reset (**🔴Performing a Hard Reset(P. 499)**)
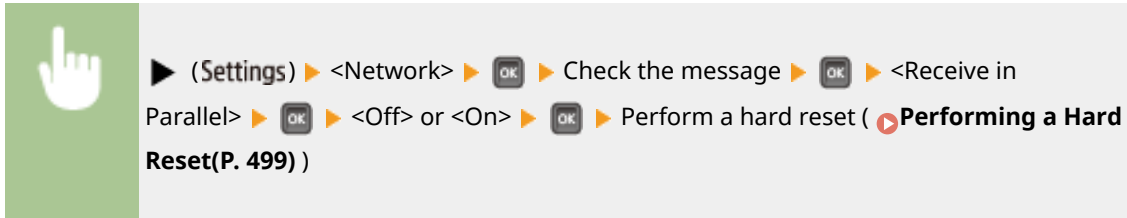
Wait Time at Startup

Specify a wait time for connecting to a network. Select the setting depending on the network environment. **🔴Setting a Wait Time for Connecting to a Network(P. 222)**

0 † to 300 (sec.)

Remote UI Settings

Specify settings for using the Remote UI. You can use the Remote UI to specify settings for the machine from a Web browser.

Remote UI

Enable or disable the Remote UI. **🔴Disabling Remote UI(P. 292)**

Off On †

RUI Access Sec. Set.

Select whether to use a PIN to access the Remote UI. **🔴Setting a Remote UI PIN(P. 266)**

Off † On

TLS *

Enable or disable TLS for Remote UI communications. To use TLS for encrypted communications, you need to set key pairs by using the Remote UI (**🔴Using TLS for Encrypted Communications(P. 297)**), respectively.

Off † On

▶ (Settings) ▶ <Network> ▶ 🆗 ▶ Check the message ▶ 🆗 ▶ <Remote UI Settings> ▶ 🆗 ▶ <TLS> ▶ 🆗 ▶ <Off> or <On> ▶ 🆗 ▶ Perform a hard reset (⊙**Performing a Hard Reset(P. 499)**)

Ethernet Driver

Specify the Ethernet communication mode (half duplex/full duplex) and Ethernet type (10 Base-T/100 Base-TX/1000 Base-T). ⊙**Configuring Ethernet Settings(P. 220)**

Auto Detect

Select whether to automatically detect or manually select the communication mode and the Ethernet type.

Off
On †

Communication Mode *

If <Auto Detect> is set to <Off>, select the Ethernet communication mode.

Half Duplex †
Full Duplex

Ethernet Type *

If <Auto Detect> is set to <Off>, select the Ethernet type.

10 Base-T †
100 Base-TX
1000 Base-T

Sleep Mode Priority

Select whether to give priority to rapid returning from sleep mode or greater energy saving effect of sleep mode.

Optimal Balance †
Exit Speed
Energy Saving

▶ (Settings) ▶ <Network> ▶ 🆗 ▶ Check the message ▶ 🆗 ▶ <Sleep Mode Priority> ▶ 🆗 ▶ Select the settings item ▶ 🆗 ▶ Perform a hard reset (⊙**Performing a Hard Reset(P. 499)**)
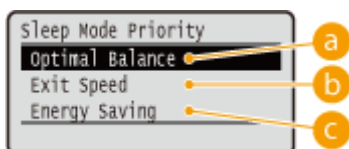
ⓐ Optimal Balance

The machine returns from sleep mode rapidly. When the devices directly connected to the machine support EEE (Energy Efficient Ethernet), power consumption can be reduced to a greater degree. Normally use this setting.

ⓑ Exit Speed

The machine returns from sleep mode more rapidly.

ⓒ Energy Saving

Communication speed during sleep mode is reduced for lowest power consumption.

> **NOTE**
>
> - This item is available when <Sleep Mode> is set to <High (Deep Sleep)>. **▶Entering Sleep Mode(P. 63)**

IEEE802.1X

Enable or disable IEEE 802.1X authentication. Use the Remote UI to specify detailed settings that are applied when IEEE802.1X authentication is enabled. **▶Configuring IEEE 802.1X Authentication(P. 312)**

Off †
On

🖐️ ▶ (Settings) ▶ <Network> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <IEEE802.1X> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <Off> or <On> ▶ [OK] ▶ Perform a hard reset (▶**Performing a Hard Reset(P. 499)**)

Address Filter

Enable or disable communication restricted with the IP address and MAC address. Use the Remote UI to specify the address to restrict. **▶Basic Printing Operations(P. 73)**

Off
On †

🖐️ ▶ (Settings) ▶ <Network> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <Address Filter> ▶ [OK] ▶ <Off> or <On> ▶ [OK] ▶ Perform a hard reset (▶**Performing a Hard Reset(P. 499)**)

MAC Address

Check the MAC address of the machine, which is a number unique to each communication device.

(Display only)

▶ (Settings) ▶ <Network> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <MAC Address> ▶ [OK]

E-Mail Print Set.

Specify settings for using the E-Mail Print function. Use the Remote UI to specify other settings for E-Mail Print including the mail server settings. ◑**Printing Received E-mail (E-Mail Print)(P. 160)**

POP3 RX Interval

Specify the interval for automatically connecting to the mail server in minutes. New e-mails in the mailbox of the mail server are automatically received and printed at the specified time intervals.

0 [†] to 90 (min.)

▶ (Settings) ▶ <Network> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <E-Mail Print
Set.> ▶ [OK] ▶ <POP3 RX Interval> ▶ [OK] ▶ Use the numeric keys to enter the interval of auto e-mail
reception ▶ [OK] ▶ Perform a hard reset (◑**Performing a Hard Reset(P. 499)**)

> **NOTE**
>
> - If you select "0," e-mails are not automatically received. In this case, receive e-mails manually. ◑
>   **Manually Receiving E-Mails(P. 165)**

POP3 RX

Enable or disable E-Mail Print for the POP3 mail server.

Off [†]
On

▶ (Settings) ▶ <Network> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <E-Mail Print
Set.> ▶ [OK] ▶ <POP3 RX> ▶ [OK] ▶ <Off> or <On> ▶ [OK] ▶ Perform a hard reset (◑**Performing a
Hard Reset(P. 499)**)

SMTP RX

Enable or disable E-Mail Print for the SMTP protocol.

Off †
On

> 👆 ▶ (Settings) ▶ <Network> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <E-Mail Print Set.> ▶ [OK] ▶ <SMTP RX> ▶ [OK] ▶ <Off> or <On> ▶ [OK] ▶ Perform a hard reset (⊙**Performing a Hard Reset(P. 499)**)

Init. Network Set.

Select to return the Network Settings to the factory defaults. ⊙**Initializing the Network Settings(P. 604)**

Layout

0YS1-05H
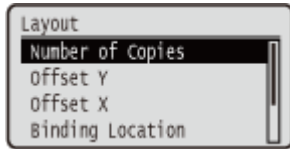
The settings about print appearance including gutter margins and print positions are listed with short descriptions. Default settings are marked with a dagger (†).

Number of Copies

Specify the number of copies.

1 † to 9999

▶ (Settings) ▶ <Layout> ▶ OK ▶ <Number of Copies> ▶ OK ▶ Use the numeric keys to enter the number of copies ▶ OK

Offset Y/Offset X

You can specify settings for shifting the print position for all types of printing in 0.01" (0.5 mm) increments regardless of the paper source.

-1.97 to 0.00 † to +1.97 (Inches) or -50.0 to 0.0 † to +50.0 (mm)

▶ (Settings) ▶ <Layout> ▶ OK ▶ <Offset Y> or <Offset X> ▶ OK ▶ Use ▲ / ▼ to enter the offset value ▶ OK

ⓐ **<Offset Y>**

Shifts the print position vertically.

ⓑ <Offset X>
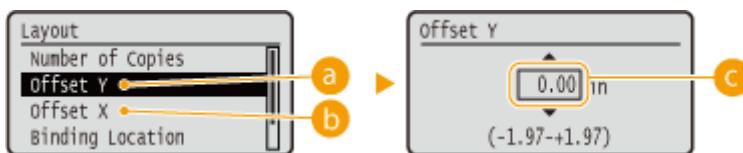
Shifts the print position horizontally.

ⓒ Offset values

For <Offset Y>, set a plus (+) value to shift the print position downward. For <Offset X>, set a plus (+) value to shift the print position rightward. Set a minus (-) value to shift the print position in the opposite direction.

<Offset Y>

"-" direction

"+" direction

A B C D E F G H

<Offset X>

"-" direction ← → "+" direction

A B C D E F G H
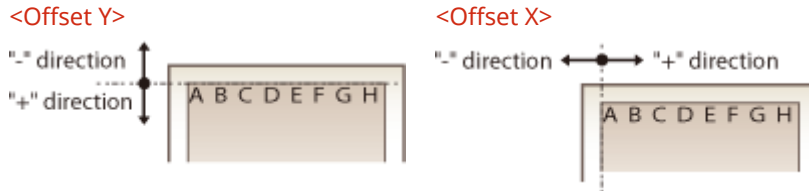
Specifying fine settings for the print position

You can select <Adj. Print Position> under <User Maintenance> to finely specify the print position for each paper source. The range of available offset values is from -0.20" to +0.20" (-5.0 to +5.0 mm) in the vertical direction and from -0.09" to +0.09" (-2.25 to +2.25 mm) in the horizontal direction. ◉**Adjusting Print Position(P. 584)**

Binding Location

Select whether to bind the long edge or short edge of the printouts with a binding tool such as a stapler. In this case, specify settings for <Gutter> to adjust the binding margin, as well.

Long Edge †
Short Edge

▶ (Settings) ▶ <Layout> ▶ OK ▶ <Binding Location> ▶ OK ▶ <Long Edge> or <Short Edge> ▶ OK

Binding Location

Long Edge ⓐ

Short Edge ⓑ

ⓐ <Long Edge>
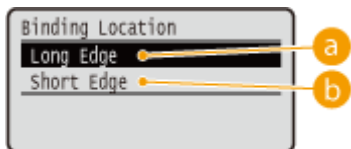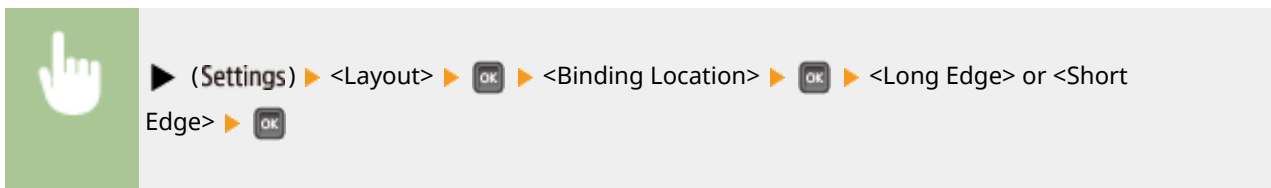
Select to bind the printouts along the long edge.

ⓑ <Short Edge>

Select to bind the printouts along the short edge.

Gutter

Adjust the margin width of the edge specified in <Binding Location> by shifting the print position of the print data. If you select "0.00" or "0.0", the margin will not be changed.

-1.97 to 0.00 † to +1.97 (Inches) or -50.0 to 0.0 † to +50.0 (mm)

👆 ▶ (Settings) ▶ <Layout> ▶ OK ▶ <Gutter> ▶ OK ▶ Use ▲ / ▼ to enter the offset value ▶ OK

Gutter
0.00 in ⓐ
(-1.97-+1.97)
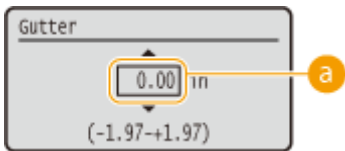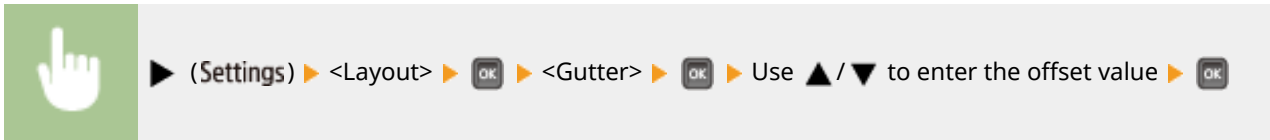
ⓐ Margin values

Specify the direction and width for shifting the print position of the print data. The edge where the margin is changed varies depending on whether a "+" or "-" value is set. You can adjust the margin width in 0.01" (0.5 mm) increments.

■**Portrait-oriented document**

Setting Value	Long edge binding	Short edge binding
"+" value	Left end of paper (for left binding)	Upper end of paper (for top binding)
"-" value	Right end of paper (for right binding)	Lower end of paper (for bottom binding)

■**Landscape-oriented document**

Setting Value	Long edge binding	Short edge binding
"+" value	Left end of paper (for top binding)	Upper end of paper (for right binding)
"-" value	Right end of paper (for bottom binding)	Upper end of paper (for right binding)

Alternative Method

When you perform 2-sided printing of a document that consists of an odd number of pages, you can select whether to process the last page in 1-sided printing mode. If you select <On>, the printing will be finished faster than the regular 2-sided printing.

Off
On †

(Settings) ▶ <Layout> ▶ OK ▶ <Alternative Method> ▶ OK ▶ <Off> or <On> ▶ OK
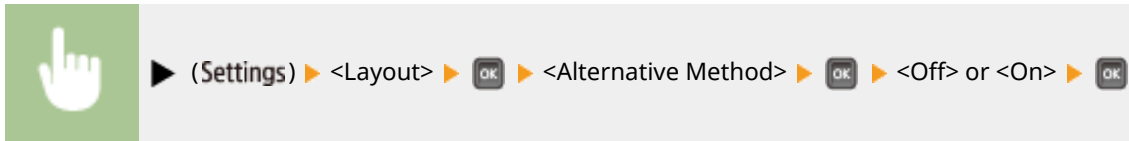
NOTE

When the printing of a document consisting of an even number of pages finishes in 1-sided printing mode
In the following cases, the last page is processed in 1-sided printing mode even if the document consists of an even number of pages.

- The last page is blank.
- The last page cannot be printed for a reason such as the paper size is not available for 2-sided printing.

When paper with preprinted logo is used

- If the last page is processed in 1-sided printing mode with <Alternative Method> to <On>, the orientation or print side of the last page may not match those of other pages. In this case, set <Alternative Method> to <Off>.

Print Quality

0YS1-05J
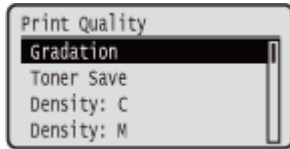
The settings about print quality including the gradation and toner density are listed with short descriptions. Default settings are marked with a dagger (†).

NOTE

Asterisks (*)

- Settings marked with an asterisk (*) are not displayed depending on other settings.

❯**Gradation(P. 403)**
❯**Toner Save(P. 404)**
❯**Density: X (X=C, M, Y, K)(P. 404)**
❯**Density X (Fine Adj) (X=C, M, Y, K)(P. 404)**
❯**Color Mode(P. 404)**
❯**Halftones(P. 405)**
❯**Gray Compensation(P. 406)**

❯**CMS(P. 407)**
❯**Gradation Settings(P. 412)**
❯**Advanced Smoothing(P. 413)**
❯**Toner Volume Corr.(P. 414)**
❯**Line Control(P. 414)**
❯**Reduce Quality(P. 415)**
❯**Sp. Smoothing Mode(P. 415)**

Gradation

Specify the gradation for processing print data.

High 1 †
High 2
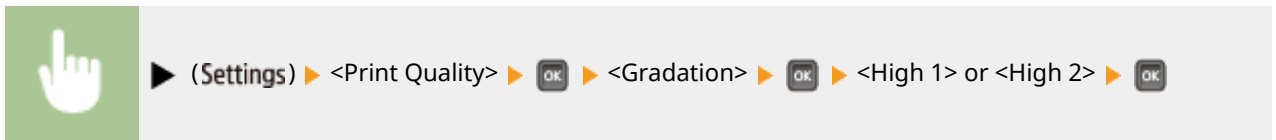
▶ (Settings) ▶ <Print Quality> ▶ [OK] ▶ <Gradation> ▶ [OK] ▶ <High 1> or <High 2> ▶ [OK]

ⓐ <High 1>

This print mode is suitable for printing photos or the like at average quality.

ⓑ <High 2>

Specify this setting to print photos or the like at high quality.

Toner Save

Specify this setting when you want to check the finishing such as the layout before printing a large job, for example. Since this printing mode saves toner, fine lines and portions with lighter print density may become blurred.

Off †
On

▸ (Settings) ▸ <Print Quality> ▸ [OK] ▸ <Toner Save> ▸ [OK] ▸ <Off> or <On> ▸ [OK]
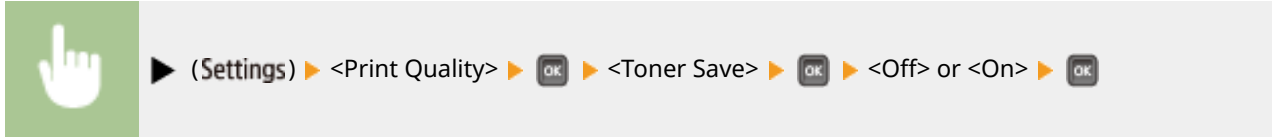
Density: X (X=C, M, Y, K) *

For each CMYK color, adjust the toner density to apply to printing. This item is not displayed when <Toner Save> is set to <On>. ◗**Adjusting Print Density(P. 579)**

-8 to 0 † to +8

Density X (Fine Adj) (X=C, M, Y, K) *

For each CMYK color, you can make fine adjustment of the toner density applied to printing separately for three different density areas. This item is not displayed when <Toner Save> is set to <On>. ◗**Adjusting Print Density(P. 579)**

High
  -8 to 0 † to +8
Medium
  -8 to 0 † to +8
Low
  -8 to 0 † to +8

Color Mode

Specify whether to print in color or black and white.

Auto (Color/Black) †
Color
Black
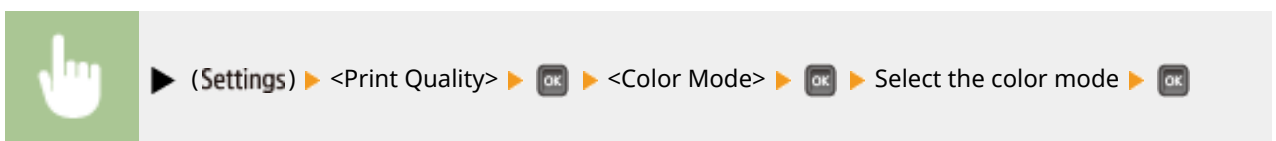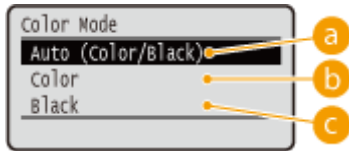
▸ (Settings) ▸ <Print Quality> ▸ [OK] ▸ <Color Mode> ▸ [OK] ▸ Select the color mode ▸ [OK]

ⓐ <Auto (Color/Black)>

Automatically select color or black and white printing depending on the type of document.

ⓑ <Color>

Print in color.

ⓒ <Black>

Print in black and white even when the document is in color.

Halftones

You can select the printing method to reproduce halftones (the intermediate range between the lighter and darker areas of an image).

Error Diffusion

You can perform finer printing than with <Resolution/Grad.>. This print mode is suitable for sharply printing edges of fine granularity data such as characters or thin lines.

Off †
On

► (Settings) ► <Print Quality> ► OK ► <Halftones> ► OK ► <Error Diffusion> ► OK ► <Off> or <On> ► OK

Resolution/Grad. *

Select the halftone reproduction method when <Error Diffusion> is set to <Off>. You can set this item for each of the types of image contained in one document.

Text
Resolution †
Gradation
Graphics
Resolution
Gradation †
Image
Resolution
Gradation †

▶ (**Settings**) ▶ <Print Quality> ▶ 🆗 ▶ <Halftones> ▶ 🆗 ▶ <Resolution/Grad.> ▶ Select the image data type ▶ 🆗 ▶ <Resolution> or <Gradation> ▶ 🆗

ⓐ Image data type

Select the image data type for which the settings are changed. Select <Text> for characters, <Graphics> for lines and figures, or <Image> for images such as photos.

ⓑ <Resolution>

Performs fine printing by sharply reproducing the edges of characters. This print mode is suitable for printing data of characters and thin lines with a clear finish.

ⓒ <Gradation>

Prints gradation and lines with a smooth finish. This print mode is suitable for printing figures and charts with gradation.

Gray Compensation

For black or gray data with color information defining R=G=B, select whether to print with black (K) toner only or print with CMYK 4-color toner. You can set this item for each of the types of image contained in one document.

Text
  Off
  On †

Graphics
  Off
  On †

Image
  Off
  On †

▶ (**Settings**) ▶ <Print Quality> ▶ 🆗 ▶ <Gray Compensation> ▶ 🆗 ▶ Select the image data type ▶ 🆗 ▶ <Off> or <On> ▶ 🆗

a Image data type

Select the image data type for which the settings are changed. Select <Text> for characters, <Graphics> for lines and figures, or <Image> for images such as photos.

b <Off>

Prints with CMYK 4-color toner. Reproducibility of gradation of dark colors is better than with <On>.

c <On>

Prints with black (K) toner only. Color mismatch due to use of color (CMY) toner can be prevented.

CMS

Set the processing methods for color correction. You can make different settings for different data types contained in one document.

CMS Selection

Set whether to perform color correction on the printer side or the host side (printer driver side).

Printer †
Host

▶ (Settings) ▶ <Print Quality> ▶ OK ▶ <CMS> ▶ OK ▶ <CMS Selection> ▶ OK ▶ <Printer> or <Host> ▶ OK
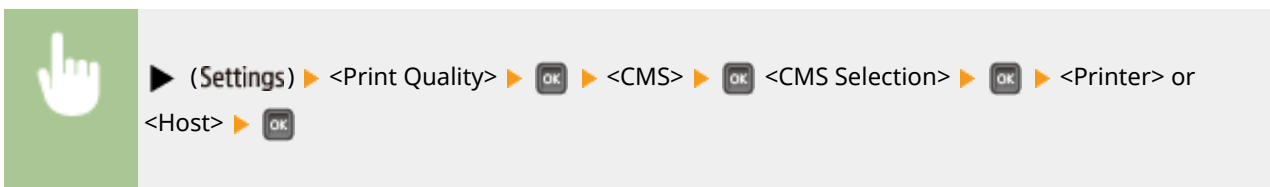
CMS/Gamma

Select the processing mode for color printing. You can set this item for each of the types of image contained in one document.

Text
CMS
Gamma †
Graphics
CMS
Gamma †
Image
CMS
Gamma †
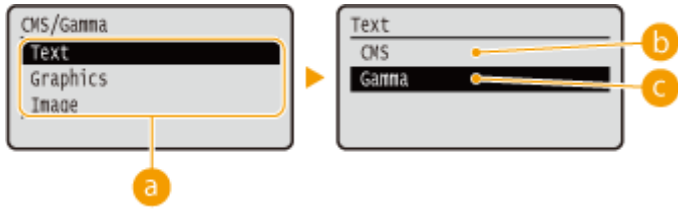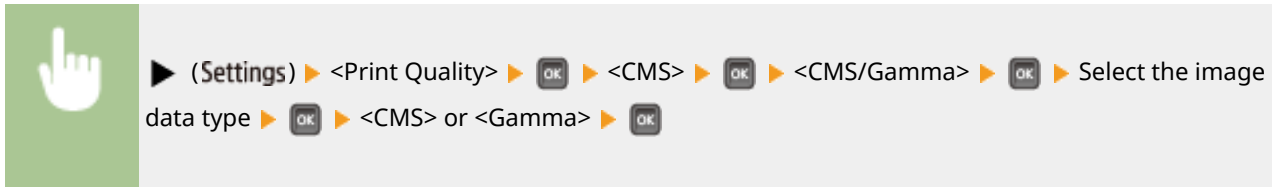
▶ (Settings) ▶ <Print Quality> ▶ OK ▶ <CMS> ▶ OK ▶ <CMS/Gamma> ▶ OK ▶ Select the image data type ▶ OK ▶ <CMS> or <Gamma> ▶ OK

ⓐ Image data type

Select the image data type for which the settings are changed. Select <Text> for characters, <Graphics> for lines and figures, or <Image> for images such as photos.

ⓑ <CMS>

Use a profile for color matching.

ⓒ <Gamma>

Perform color correction by setting a gamma value for brightness adjustment.

RGB Source Profile

Select a suitable profile for RGB data that matches the monitor that you are using. You can set this item for each of the types of image contained in one document.

Text
sRGB v3.0 (Canon) †

Canon HDTV gamma 1.5

Canon HDTV gamma 1.8

Canon HDTV gamma 2.4

Graphics
sRGB v3.0 (Canon) †

Canon HDTV gamma 1.5

Canon HDTV gamma 1.8

Canon HDTV gamma 2.4

Image
sRGB v3.0 (Canon) †

Canon HDTV gamma 1.5

Canon HDTV gamma 1.8

Canon HDTV gamma 2.4

▶ (Settings) ▶ <Print Quality> ▶ OK ▶ <CMS> ▶ OK ▶ <RGB Source Profile> ▶ OK ▶ Select the image data type ▶ OK ▶ Select the profile ▶ OK

ⓐ Image data type

Select the image data type for which the settings are changed. Select <Text> for characters, <Graphics> for lines and figures, or <Image> for images such as photos.

ⓑ <sRGB v3.0 (Canon)>

An RGB profile is used that is similar to an average profile of most Windows PC monitors. When using a monitor that supports sRGB, you can print colors close to the colors displayed on the monitor.

ⓒ <Canon HDTV gamma 1.5> to <Canon HDTV gamma 2.4>

When you want a brightness adjustment after making comparison between the printed colors and the colors displayed on the monitor, make a necessary setting here. The higher the value, the darker the printed colors.

> **NOTE**
>
> - This item is available when <CMS/Gamma> is set to <CMS>.

Output Profile

You can select suitable profiles for data that you are going to print. You can set this item for each of the types of image contained in one document.

Text
  Normal
  Photo †

Graphics
  Normal
  Photo †

Image
  Normal
  Photo †

▶ (Settings) ▶ <Print Quality> ▶ OK ▶ <CMS> ▶ OK ▶ <Output Profile> ▶ OK ▶ Select the image data type ▶ OK ▶ <Normal> or <Photo> ▶ OK

ⓐ Image data type

Select the image data type for which the settings are changed. Select <Text> for characters, <Graphics> for lines and figures, or <Image> for images such as photos.

ⓑ <Normal>

Color matching is performed so that data is printed in colors close to the colors displayed on the monitor.

ⓒ <Photo>

Color matching is performed so that the print result is similar to photography.

> **NOTE**
>
> ● This item is available when <CMS/Gamma> is set to <CMS>.

Matching Method

Specify which element to be given priority over others in color matching by <RGB Source Profile>. You can set this item for each of the types of image contained in one document.

Text
  Perceptual †

  Saturation

  Colorimetric

Graphics
  Perceptual †

  Saturation

  Colorimetric

Image
  Perceptual †

  Saturation

  Colorimetric

▶ (Settings) ▶ <Print Quality> ▶ [OK] ▶ <CMS> ▶ [OK] ▶ <Matching Method> ▶ [OK] ▶ Select the image data type ▶ [OK] ▶ Select the matching method ▶ [OK]

ⓐ Image data type

Select the image data type for which the settings are changed. Select <Text> for characters, <Graphics> for lines and figures, or <Image> for images such as photos.

ⓑ <Perceptual>

Matching is performed with priority given to color perceptual.

ⓒ <Saturation>

Matching is performed with priority given to saturation.

ⓓ <Colorimetric>

Matching is performed so that color difference between originals and printouts is minimized.

Gamma Correction

Brightness adjustment can be performed so that the brightness of the brightest and darkest parts of the original is not effected in the print result. You can set this item for each of the types of image contained in one document.

Text
  1.0

  1.4 †

  1.8

  2.2

Graphics
  1.0

  1.4 †

  1.8

  2.2

Image
  1.0

  1.4 †

  1.8

  2.2

▶ (Settings) ▶ <Print Quality> ▶ ⓞⓚ ▶ <CMS> ▶ ⓞⓚ ▶ <Gamma Correction> ▶ ⓞⓚ ▶ Select the image data type ▶ ⓞⓚ ▶ Select the setting value ▶ ⓞⓚ
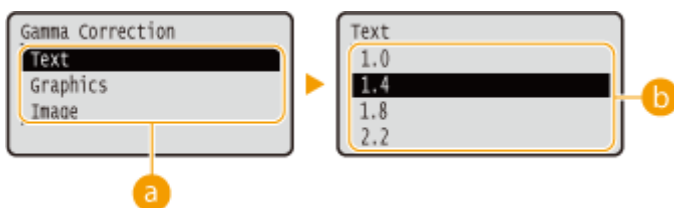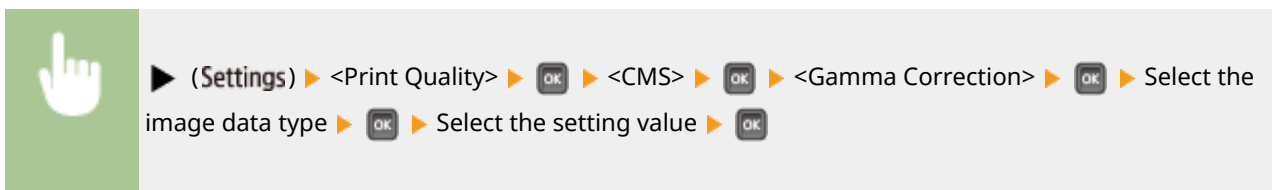
ⓐ Image data type

Select the image data type for which the settings are changed. Select <Text> for characters, <Graphics> for lines and figures, or <Image> for images such as photos.

ⓑ <1.0> to <2.2>

Set this item when you want to adjust the brightness of printouts. <1.4> is the standard setting (no correction), and the larger the setting value, the darker the print will be.

> **NOTE**
>
> - This item is available when <CMS/Gamma> is set to <Gamma>.

Gradation Settings

Make settings for the smoothing mode that enables gradations in lines, figures, or images such as photos to be printed smoothly.

Gradation

Specify whether to enable or disable the smoothing mode. Gradations are printed more smoothly with <Smooth 2> than with <Smooth 1>.

Off †
Smooth 1
Smooth 2
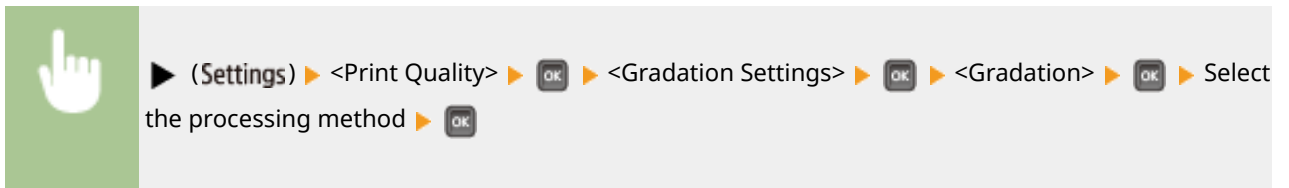
🖐 ▶ (Settings) ▶ <Print Quality> ▶ 🆗 ▶ <Gradation Settings> ▶ 🆗 ▶ <Gradation> ▶ 🆗 ▶ Select the processing method ▶ 🆗

Graphics *

Specify whether to apply the smoothing mode to lines and figures when <Gradation> is set to <Smooth 1> or <Smooth 2>.

Off
On †
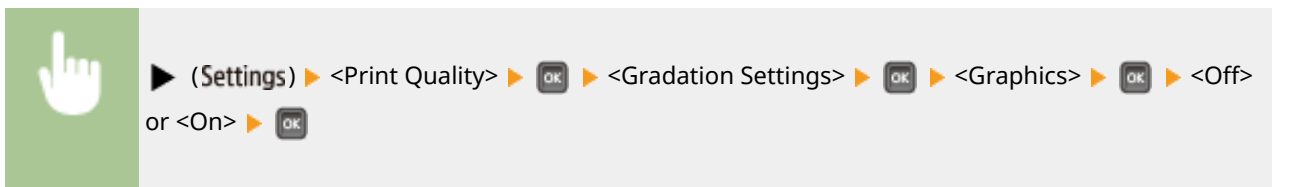
🖐 ▶ (Settings) ▶ <Print Quality> ▶ 🆗 ▶ <Gradation Settings> ▶ 🆗 ▶ <Graphics> ▶ 🆗 ▶ <Off> or <On> ▶ 🆗

Image *

Specify whether to apply the smoothing mode to image data such as photos when <Gradation> is set to <Smooth 1> or <Smooth 2>.

Off
On †
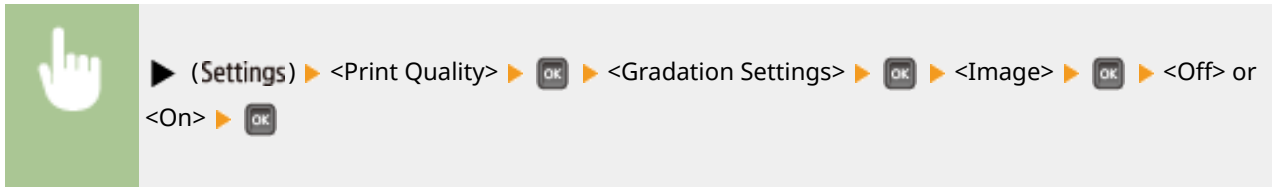
▶ (Settings) ▶ <Print Quality> ▶ [OK] ▶ <Gradation Settings> ▶ [OK] ▶ <Image> ▶ [OK] ▶ <Off> or <On> ▶ [OK]

Advanced Smoothing

Make settings for the smoothing mode that enables edges of lines, figures and text are printed smoothly.

Advanced Smoothing

Specify whether to enable or disable the smoothing mode. Edges will be smoother with <Smooth 2> than with <Smooth 1>.

Off
Smooth 1 †
Smooth 2

▶ (Settings) ▶ <Print Quality> ▶ [OK] ▶ <Advanced Smoothing> ▶ [OK] ▶ <Advanced Smoothing> ▶ [OK] ▶ Select the processing method ▶ [OK]

Graphics *

Specify whether to apply the smoothing mode to lines and figures when <Advanced Smoothing> is set to <Smooth 1> or <Smooth 2>.

Off †
On

▶ (Settings) ▶ <Print Quality> ▶ [OK] ▶ <Advanced Smoothing> ▶ [OK] ▶ <Graphics> ▶ [OK] ▶ <Off> or <On> ▶ [OK]

Text *

Specify whether to apply the smoothing mode to text when <Advanced Smoothing> is set to <Smooth 1> or <Smooth 2>.

Off
On †

▶ (Settings) ▶ <Print Quality> ▶ [OK] ▶ <Advanced Smoothing> ▶ [OK] ▶ <Text> ▶ [OK] ▶ <Off> or <On> ▶ [OK]
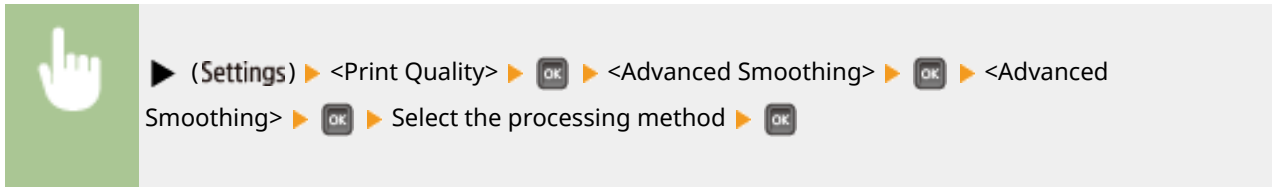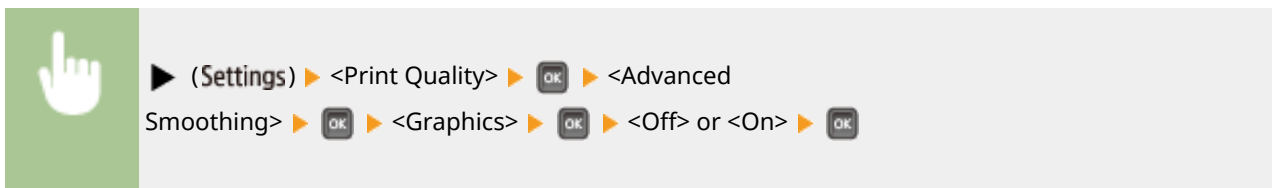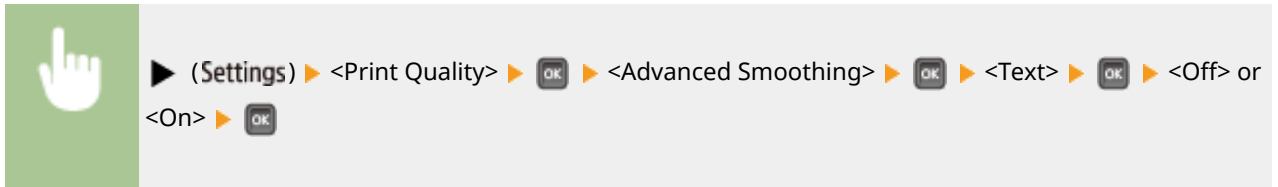
Toner Volume Corr.

Set how to adjust the toner volume when printing high density areas.

Normal [†]
Gradation Priority
Text Priority

▶ (Settings) ▶ <Print Quality> ▶ [OK] ▶ <Toner Volume Corr.> ▶ [OK] ▶ Select the correction method ▶ [OK]

```
Toner Volume Corr.
 Normal              ⓐ
 Gradation Priority  ⓑ
 Text Priority       ⓒ
```
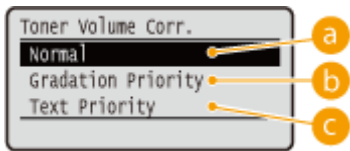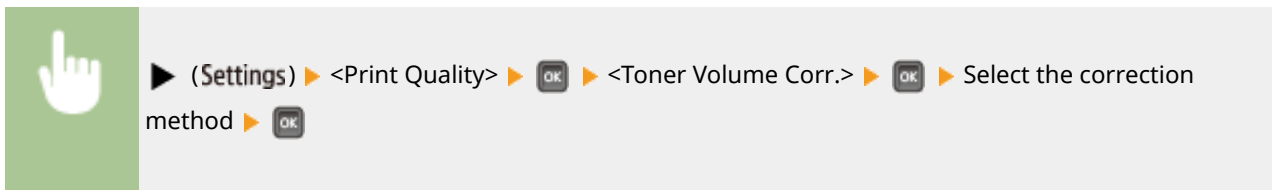
ⓐ <Normal>
Prints text and lines using the toner volume that will preserve resolution, and prints the other types of data with the toner volume that will preserve hue.

ⓑ <Gradation Priority>
Prints all types of data using the toner volume that will preserve hue.

ⓒ <Text Priority>
Prints all types of data using the toner volume that will preserve resolution.

Line Control

Set the image processing method for lines.

Resolution Priority [†]
Gradation Priority

▶ (Settings) ▶ <Print Quality> ▶ [OK] ▶ <Line Control> ▶ [OK] ▶ <Resolution Priority> or <Gradation Priority> ▶ [OK]

ⓐ <Resolution Priority>
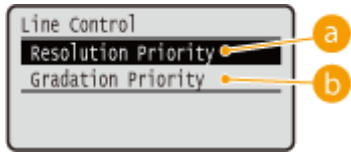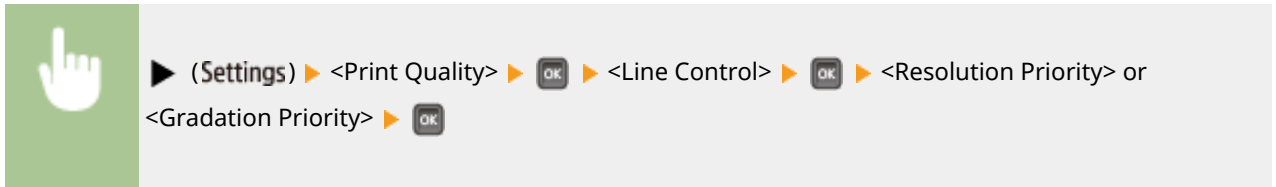
Processes lines so that resolution is preserved to a similar extent to the processing of text.

ⓑ <Gradation Priority>

Processes lines so that hue and gradation are preserved to a similar extent to the processing of figures.

Reduce Quality

Select whether to continue printing by automatically reducing the quality when insufficient memory is available for the processing.

Continue Printing †
Stop Printing

▶ (Settings) ▶ <Print Quality> ▶ [OK] ▶ <Reduce Quality> ▶ [OK] ▶ <Continue Printing> or <Stop Printing> ▶ [OK]
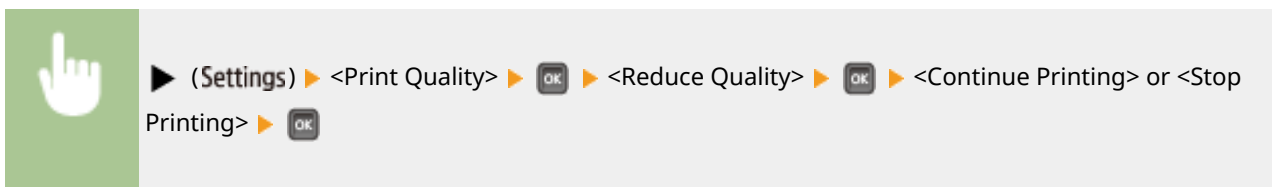
NOTE

- If you select <Stop Printing>, an error message is displayed and the printing is stopped when the machine runs out of memory. You can press [ ] ([Online]) to resume the printing by reducing the quality.

Sp. Smoothing Mode

Change the setting if output print density is uneven or print finish is not smooth.

Mode 1 †
Mode 2
Mode 3
Mode 4
Mode 5
Mode 6

▶ (**Settings**) ▶ <Print Quality> ▶ [OK] ▶ <Sp. Smoothing Mode> ▶ [OK] ▶ Select the mode ▶ [OK]

ⓐ <Mode 1>

Use this setting for most environments.

ⓑ <Mode 2>
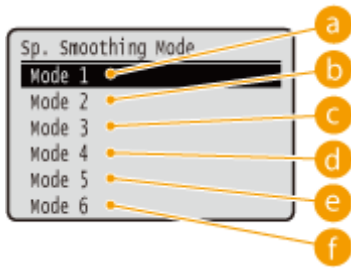
Specify this setting if the internal area of high density figures, large characters, or thick lines cannot be printed with a smooth finish.

ⓒ <Mode 3>

Specify this setting when the following symptoms are observed at a time.

● The internal area of high density figures, large characters, or thick lines cannot be printed with a smooth finish.

● The perimeter of low density figures, characters, or lines cannot be printed with a smooth finish.

● Characters and lines on a solid background cannot be printed with a smooth finish.

d **<Mode 4>**

Specify this setting when the perimeter of low density figures, characters, or lines cannot be printed with a smooth finish.

e **<Mode 5>**

Specify this setting when stripes appear on images such as photos, figures, gradations, or shaded patterns, resulting in uneven printouts.

f **<Mode 6>**

Specify this setting if printing is not smooth as a whole.

NOTE

- When <Mode 2> or <Mode 4> is specified, areas of low density may be unevenly colored.
- When <Mode 3> is specified, areas of thin density or shaded patterns may be unevenly colored.
- When <Mode 5> is specified, the perimeter of characters, lines, or figures may not be printed smoothly.
- When <Mode 6> is specified, color unevenness may appear.

Interface

0YS1-05K
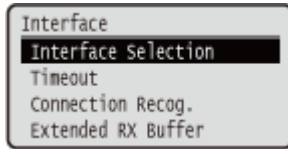
All the settings about interfaces for communications with a computer and USB are listed with short descriptions. Default settings are marked with a dagger (†).

◉**Interface Selection(P. 418)**
◉**Timeout(P. 419)**
◉**Connection Recog.(P. 420)**
◉**Extended RX Buffer(P. 420)**

Interface Selection

Select the interface used for the machine.

USB

Enable or disable the USB port. ◉**Restricting the USB Connection with a Computer(P. 285)**

Off
On †

Network

Enable or disable the LAN port. ◉**Disabling the LAN Port(P. 293)**

Off
On †

USB Adv. Functions

Specify settings for selecting a function to use a USB device or selecting a device driver to use.

Adv. Func. Settings

Select which of MEAP applications and USB over NW to be given priority when a USB device is connected to the machine.

Meap Priority †
USB Over NW Priority

 ▶ (Settings) ▶ <Interface> ▶ [OK] ▶ <Interface Selection> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <USB Adv. Functions> ▶ [OK] ▶ <Adv. Func. Settings> ▶ [OK] ▶ <Meap Priority> or <USB Over NW Priority> ▶ [OK] ▶ Perform a hard reset (▶**Performing a Hard Reset(P. 499)**)

```
Adv. Func. Settings
  Meap Priority          ─── a
  USB Over NW Priority   ─── b
```

ⓐ <Meap Priority>
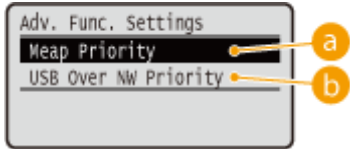
Specify this to give priority to MEAP applications.

ⓑ <USB Over NW Priority>

Specify this to give priority to USB over NW. This function enables you to use, from your computer, a USB device connected to the machine's USB port.

USB Storage Device

Specify settings for the device driver for using a USB memory device.

MEAP Driver

Enable or disable the MEAP specific device driver when a USB memory device is attached to the machine. When you want to perform the direct print function (USB Direct Print) from a USB memory device without using a computer, select <Off>.

Off †
On

 ▶ (Settings) ▶ <Interface> ▶ [OK] ▶ <Interface Selection> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <USB Adv. Functions> ▶ [OK] ▶ <USB Storage Device> ▶ [OK] ▶ <MEAP Driver> ▶ [OK] ▶ <Off> or <On> ▶ [OK] ▶ Perform a hard reset (▶**Performing a Hard Reset(P. 499)**)

Timeout

Specify how the machine should behave if receiving print data is interrupted.

Timeout

Select whether to cancel printing if print data receiving is interrupted for a specified period of time.

Off
On †

▶ (Settings) ▶ <Interface> ▶ [OK] ▶ <Timeout> ▶ [OK] ▶ <Timeout> ▶ [OK] ▶ <Off> or <On> ▶ [OK]
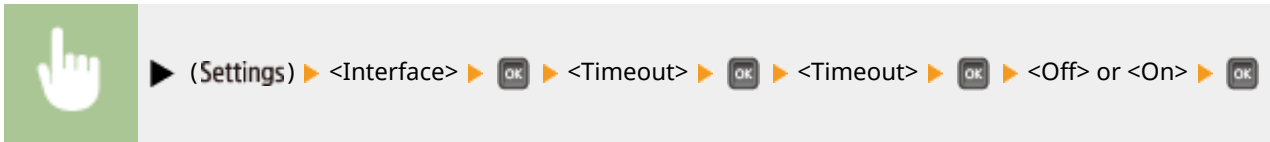
Timeout Time *

Set the time period until a timeout error occurs.

5 to 15 † to 300 (seconds)

▶ (Settings) ▶ <Interface> ▶ [OK] ▶ <Timeout> ▶ [OK] ▶ <Timeout Time> ▶ [OK] ▶ Use the
numeric keys to set the time period ▶ [OK]
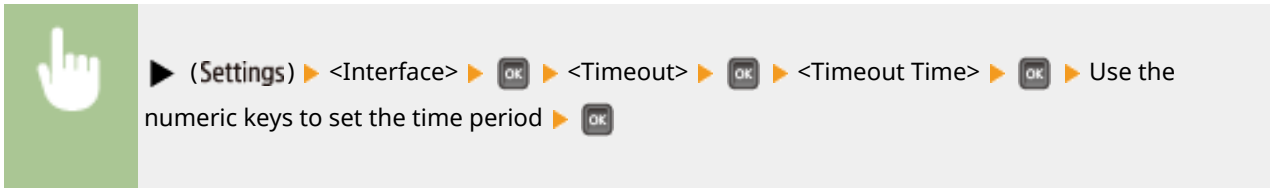
Connection Recog.

A problem such as improper overlay printing or garbled characters may occur during printing via wired LAN connection. In this case, set <Connection Recog.> to <Off>.

Off
On †

▶ (Settings) ▶ <Interface> ▶ [OK] ▶ <Connection Recog.> ▶ [OK] ▶ Check the
message ▶ [OK] ▶ <Off> or <On> ▶ [OK] ▶ Perform a hard reset (●**Performing a Hard
Reset(P. 499)**)
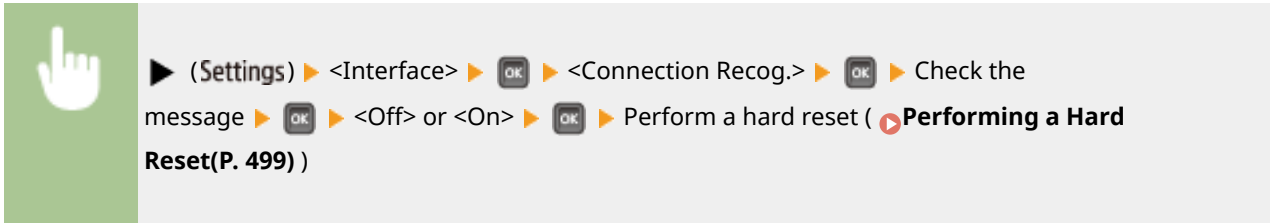
Extended RX Buffer

Select whether to increase the space of the memory built in the machine for receiving print data from a computer. If you select <On>, the time until the computer will be freed from print data processing or transmission can be reduced when the computer sends a large volume of data or complicatedly structured data.

Off
On †

▶ (Settings) ▶ <Interface> ▶ [OK] ▶ <Extended RX Buffer> ▶ [OK] ▶ Check the
message ▶ [OK] ▶ <Off> or <On> ▶ [OK] ▶ Perform a hard reset (●**Performing a Hard
Reset(P. 499)**)

User Maintenance

0YS1-05L
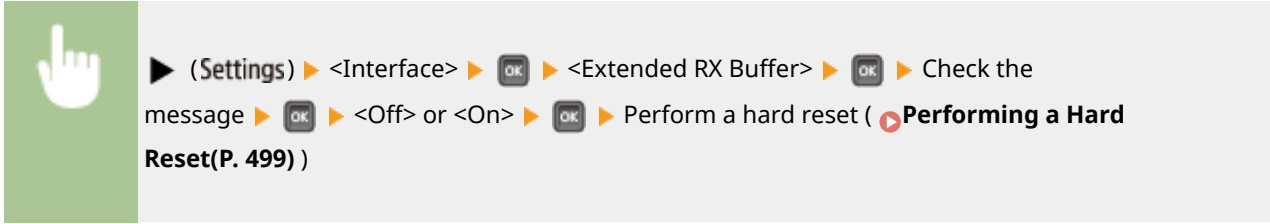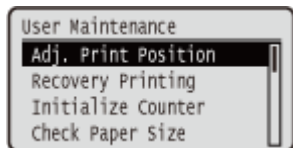
The settings about adjustment of the machine including print position correction for each paper source and print quality improvement are listed with short descriptions. You can specify those settings when the machine is offline. Default settings are marked with a dagger (†).

> **NOTE**
>
> **Asterisks (*)**
>
> - Settings marked with an asterisk (*) are not displayed depending on other settings and whether the paper feeder or SD card (all of these being optional) is installed or not in the machine.

Adj. Print Position(P. 421)
Recovery Printing(P. 422)
Initialize Counter(P. 422)
Check Paper Size(P. 423)
Substitute Size(P. 423)
Auto Detect Ppr Type(P. 423)
Short Edge Fd. Prty.(P. 424)
Special Image Mode(P. 424)
Sp. Transfer Mode(P. 425)
Clr/B&W Switch Mode(P. 425)
Special Density Mode(P. 426)
SD Card Maintenance(P. 426)
Special Print Mode(P. 427)

Special Print Adj. C(P. 431)
Adjust Barcode(P. 431)
Update Firmware(P. 431)
First Calibration(P. 432)
Paper Feed Method(P. 433)
Show Job List(P. 433)
Import/Export Set.(P. 434)
Calibration Freq.(P. 435)
Notify to Clean(P. 435)
Clean. Notif. Timing(P. 435)
Toner Check Timing(P. 435)
Spec Tnr Chk Timing(P. 436)

Adj. Print Position

You can adjust the print position for each paper source. **Adjusting Print Position(P. 584)**

Offset Y (2-Sided)

You can adjust the vertical print position for printing on the first page (front side) in 2-sided printing mode. The print position on the second page (back side) follows the settings for the paper source available when the printing is started.

-0.20 to 0.00 † to +0.20 (Inches) or -5.0 to 0.0 † to +5.0 (mm)

Offset X (2-Sided)

You can adjust the horizontal print position for printing on the first page (front side) in 2-sided printing mode. The print position on the second page (back side) follows the settings for the paper source available when the printing is started.

Multi-Purpose Tray
  -0.09 to 0.00 † to +0.09 (Inches) or -2.25 to 0.00 † to +2.25 (mm)

Drawer 1 to 4 *
  -0.09 to 0.00 † to +0.09 (Inches) or -2.25 to 0.00 † to +2.25 (mm)

Offset Y (MP Tray)

You can adjust the vertical print position for printing on paper from the multi-purpose tray.

-0.20 to 0.00 [†] to +0.20 (Inches) or -5.0 to 0.0 [†] to +5.0 (mm)

Offset X (MP Tray)

You can adjust the horizontal print position for printing on paper from the multi-purpose tray.

-0.09 to 0.00 [†] to +0.09 (Inches) or -2.25 to 0.00 [†] to +2.25 (mm)

Offset Y (Drawer 1 to 4) [*]

You can adjust the vertical print position for printing on paper fed from a paper drawer.

-0.20 to 0.00 [†] to +0.20 (Inches) or -5.0 to 0.0 [†] to +5.0 (mm)

Offset X (Drawer 1 to 4) [*]

You can adjust the horizontal print position for printing on paper fed from a paper drawer.

-0.09 to 0.00 [†] to +0.09 (Inches) or -2.25 to 0.00 [†] to +2.25 (mm)

Recovery Printing

Select whether to print again the page of which printing was interrupted by a paper jam or an error.

Off
On [†]

   ▶ (Settings) ▶ <User Maintenance> ▶ [OK] ▶ <Recovery Printing> ▶ [OK] ▶ <Off> or <On> ▶ [OK]
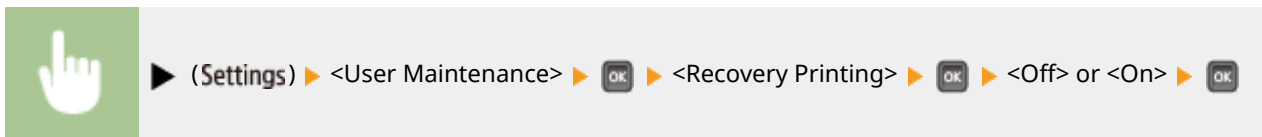
Initialize Counter

Select whether to initialize the count of printed pages on the fixing unit.

Fixing Unit

Initialize the count of pages using the same fixing unit.

   ▶ (Settings) ▶ <User Maintenance> ▶ [OK] ▶ <Initialize Counter> ▶ [OK] ▶ <Fixing Unit> ▶ [OK] ▶ <Yes> ▶ [OK]

Check Paper Size

Select whether to check the size of paper that is fed from the paper source with the paper size set to <Free Size>. If you select <On>, the message for confirming the paper size is displayed and the printing is stopped when the size of the paper fed from the paper source does not match the print data.

Off †
On

▶ (Settings) ▶ <User Maintenance> ▶ [OK] ▶ <Check Paper Size> ▶ [OK] ▶ <Off> or <On> ▶ [OK]

NOTE

- If the difference in size between the fed paper and the print data is not so large, it is possible that no message will be displayed and the printing will be continued even when the selected setting is <On>.

Substitute Size

Select whether to print by substituting A4 size paper and Letter size paper with each other. If you select <On>, Letter size paper is used for printing when you have specified A4 size paper for printing from a computer but the A4 size paper is not loaded in the machine.

Off †
On

▶ (Settings) ▶ <User Maintenance> ▶ [OK] ▶ <Substitute Size> ▶ [OK] ▶ <Off> or <On> ▶ [OK]
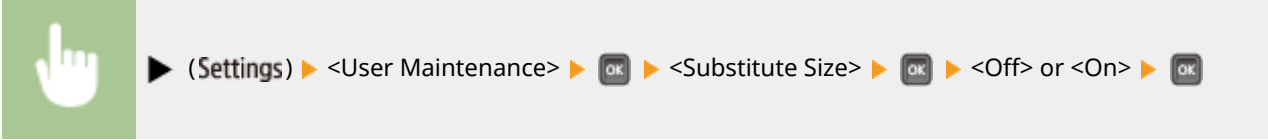
Auto Detect Ppr Type

You can optimize the automatic paper type detection function (**Auto Detect Ppr Type(P. 505)**) depending on the paper size that you use most frequently. We recommend that you normally use the factory default setting for this function.

Mode 1
Mode 2
Mode 3 †

▶ (Settings) ▶ <User Maintenance> ▶ [OK] ▶ <Auto Detect Ppr Type> ▶ [OK] ▶ Select the mode ▶ [OK]

ⓐ <Mode 1>
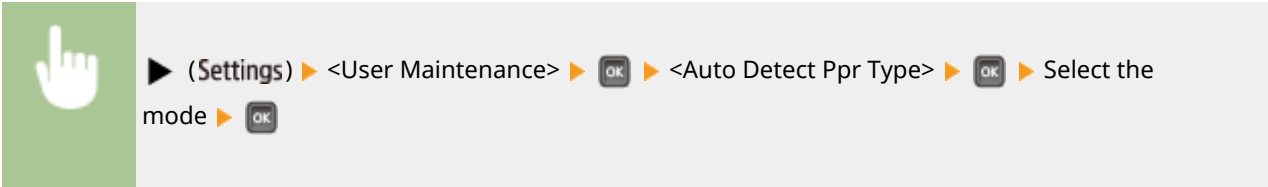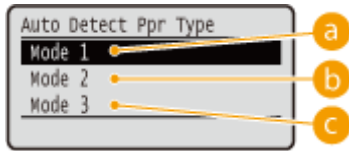
Specify this setting if you use <Plain L> or <Plain L2> of A4 size most frequently.

ⓑ <Mode 2>

Specify this setting if you use <Plain> of A4 size most frequently.

ⓒ <Mode 3>

Specify this setting if you use <Plain> of Letter size most frequently.

NOTE

- This item is enabled when <Auto Detect Ppr Type> in the ●**Select Feeder Menu(P. 501)** is set to other than <Do Not Use>.

- If you change the factory default setting to any other setting, automatic paper type detection may be incorrect.

Short Edge Fd. Prty.

When printing on paper of a size that allows for loading both in portrait and landscape orientations, set this item to <On> if you want the paper in landscape orientation to be fed preferentially. This setting applies only when <Paper Source> to <Auto>.

> Off †
> On

▶ (Settings) ▶ <User Maintenance> ▶ ▣ ▶ <Short Edge Fd. Prty.> ▶ ▣ ▶ <Off> or <On> ▶ ▣
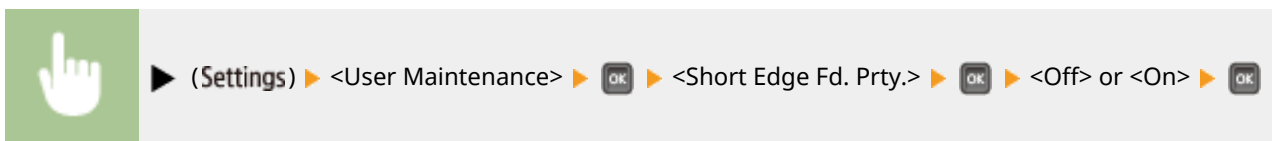
Special Image Mode

Set this item if the central area of characters or lines of dark density cannot be printed. The improvement effect is stronger with <Level 2> than with <Level 1>.

> Off †
> Level 1
> Level 2

▶ (Settings) ▶ <User Maintenance> ▶ [OK] ▶ <Special Image Mode> ▶ [OK] ▶ Select the level ▶ [OK]
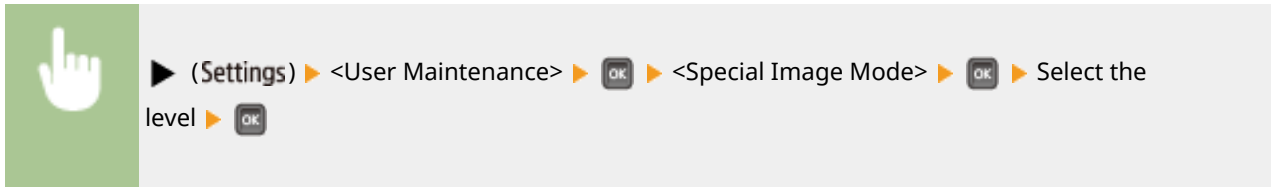
NOTE

- Print density will be lighter when you select stronger improvement.

Sp. Transfer Mode

When you use the machine in an environment with low humidity, printed images or text may be smudged. In this case, setting this item to <On> may solve the problem.
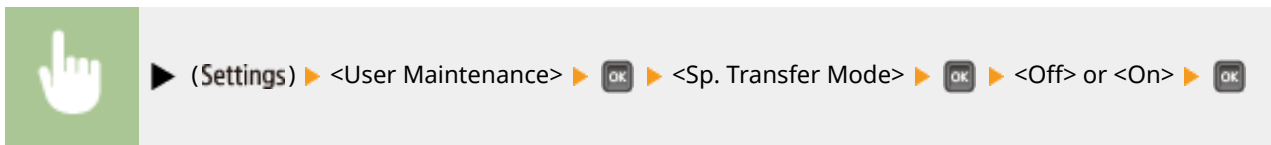
Off [†]
On

▶ (Settings) ▶ <User Maintenance> ▶ [OK] ▶ <Sp. Transfer Mode> ▶ [OK] ▶ <Off> or <On> ▶ [OK]

NOTE

- If you select <On> and use the machine in an environment with high humidity, the print density may become lighter or uneven.

Clr/B&W Switch Mode

When printing data including both black and white data and color data, you can specify whether to give priority to higher printing speed or lower frequency of CMY toner cartridge usage.

Mode 1 [†]
Mode 2

▶ (Settings) ▶ <User Maintenance> ▶ [OK] ▶ <Clr/B&W Switch Mode> ▶ [OK] ▶ Select the mode ▶ [OK]

ⓐ **<Mode 1>**
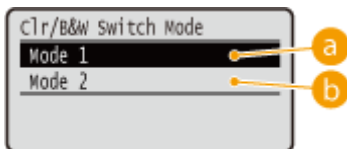
Gives priority to printing speed.

ⓑ **<Mode 2>**

Printing may be possible while using the CMY toner cartridges less frequently.

NOTE

- If you select <Mode 2>, the printing speed may be slower.

Special Density Mode

When you use the machine in an environment with high humidity, the print density may become lighter or uneven. In this case, setting this item to <On> may solve the problem.

Off †
On

▶ (Settings) ▶ <User Maintenance> ▶ 🆗 ▶ <Special Density Mode> ▶ 🆗 ▶ <Off> or <On> ▶ 🆗

NOTE

- If you select <On> and use the machine in an environment with low humidity, printed images or text may be smudged.

SD Card Maintenance *

When an error occurs in an SD card or when you want to discard an SD card, you can erase all the data stored on that card.

Format

Initializes the SD card. All the stored data is erased from the card.

▶ (Settings) ▶ <User Maintenance> ▶ 🆗 ▶ <SD Card Maintenance> ▶ 🆗 ▶ <Format> ▶ 🆗 ▶ <Yes> ▶ 🆗

Completely Del. Data

All the stored data is erased from the SD card. Perform this operation as necessary, such as when you want to discard an SD card after erasing all the stored data including those fragments that cannot be erased normally.
◯Deleting All Data in an SD Card(P. 637)

Special Print Mode

Provides items you can set when printing cannot be performed properly.

Curl Correction

When paper from a paper source curls when printed, set this item to <On> for that paper source.

Off †
On
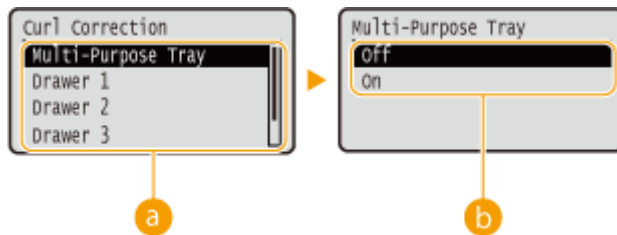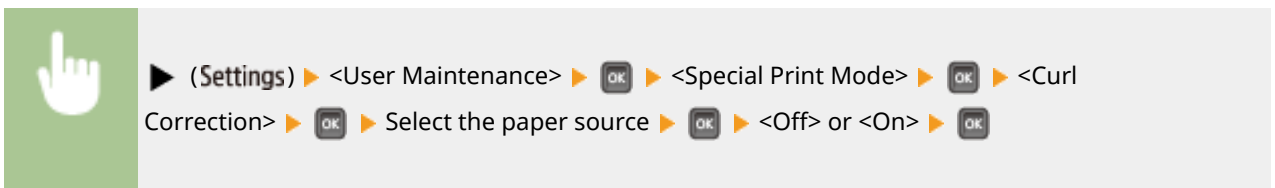
▶ (Settings) ▶ <User Maintenance> ▶ [OK] ▶ <Special Print Mode> ▶ [OK] ▶ <Curl Correction> ▶ [OK] ▶ Select the paper source ▶ [OK] ▶ <Off> or <On> ▶ [OK]

ⓐ Paper source selection

Select the paper source for which you want to change the setting of Curl Correction.

ⓑ Switching of the settings

To perform curl correction, select <On>.

> **NOTE**
>
> - If you select <On>, the print speed may be slower. Also, printouts may be faded.

Reduce Waving (Thin)

If printing on thin paper results in a wrinkled (or wavy) printout, setting this item to <On> may solve the problem.

Off †
On

▶ (Settings) ▶ <User Maintenance> ▶ [OK] ▶ <Special Print Mode> ▶ [OK] ▶ <Reduce Waving (Thin)> ▶ [OK] ▶ <Off> or <On> ▶ [OK]

NOTE

- If you select <On>, printouts may be faded.

Reduce Ppr. Sticking

In 2-sided printing, printed paper may stick to each other depending on the image density of print data. In this case, setting this item may solve the problem.

Off
Mode 1 †
Mode 2

▶ (Settings) ▶ <User Maintenance> ▶ [OK] ▶ <Special Print Mode> ▶ [OK] ▶ <Reduce Ppr. Sticking> ▶ [OK] ▶ Select the mode ▶ [OK]

ⓐ <Off>
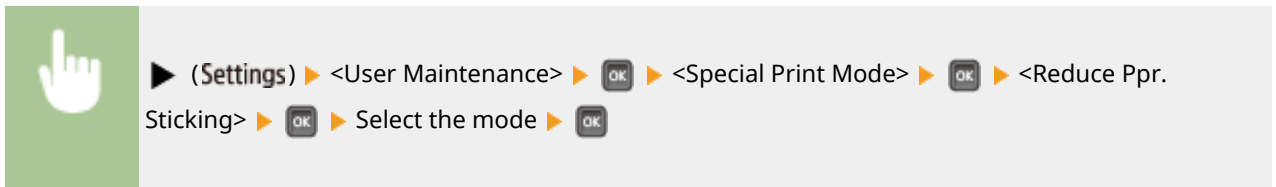
No processing is performed to reduce paper sticking.

ⓑ <Mode 1>

Normally, use this mode because the factory default setting is such that printed paper will not easily stick to each other.

ⓒ <Mode 2>

Ensure that printed paper will not stick to each other even when printing high density image data.

NOTE

- The paper sticking reduction effect is greater but 2-sided printing speed is slower with <Mode 2> than with <Mode 1>.

Special Env. Mode

If the seal flap of an envelope having absorbed moisture sticks to the body, set this item to <On>.

Off †

On

☝ ▶ (Settings) ▶ <User Maintenance> ▶ OK ▶ <Special Print Mode> ▶ OK ▶ <Special Env. Mode> ▶ OK ▶ <Off> or <On> ▶ OK

NOTE

- If you select <On>, printouts may be faded.

Corr. White Line

White streaks (lines) may appear on printed images. In this case, setting this item to <On> may solve the problem.

Off †
On

☝ ▶ (Settings) ▶ <User Maintenance> ▶ OK ▶ <Special Print Mode> ▶ OK ▶ <Corr. White Line> ▶ OK ▶ <Off> or <On> ▶ OK

NOTE

- If you select <On>, the print density will be lower.

Reduce Toner Flaking

Depending on the paper type or environmental conditions, toner may come off printed images. In this case, setting this item may solve the problem. The improvement effect is weakest with <Off> and strongest with <Mode 2>.

Off †
Mode 1
Mode 2

☝ ▶ (Settings) ▶ <User Maintenance> ▶ OK ▶ <Special Print Mode> ▶ OK ▶ <Reduce Toner Flaking> ▶ OK ▶ Select the mode ▶ OK

NOTE

- If you select <Mode 2>, the printing speed will be slower.

● Changing the paper type or environmental conditions may solve the problem of toner coming off without necessity of changing the settings.

Incr Tail End Fixing

If only the tail end of the printed image is too dark due to insufficient fixing of toner, setting this item to <On> may solve the problem.

Off †

On

▶ (Settings) ▶ <User Maintenance> ▶ OK ▶ <Special Print Mode> ▶ OK ▶ <Incr Tail End Fixing> ▶ OK ▶ <Off> or <On> ▶ OK

NOTE

● If you select <On>, the printing speed will be slower.

Reduce Ppr. Slipping

Depending on the environmental conditions, paper may not be fed correctly during printing, resulting in a deteriorated print quality. In this case, setting this item may solve the problem. Specify the mode depending on whether to give priority to paper sticking reduction effect or printing speed.

Mode 1 †

Mode 2

Mode 3

▶ (Settings) ▶ <User Maintenance> ▶ OK ▶ <Special Print Mode> ▶ OK ▶ <Reduce Ppr. Slipping> ▶ OK ▶ Select the mode ▶ OK

a <Mode 1>

This mode is suitable for printing documents that contain pages where there are much text or image data. However, the printing speed may be slower.

b <Mode 2>

When printing documents whose amount of text or image data is small, selecting this mode will reduce the degree of decrease in the printing speed as compared to <Mode 1>.

C **<Mode 3>**

If you want to avoid a slower printing speed, select this mode. However, improvement of the print quality will be impossible.

Special Print Adj. C

Streaks may appear on printed images depending on the paper type or the environmental conditions. Setting this item to <On> may solve the problem.

Off †
On

▶ (Settings) ▶ <User Maintenance> ▶ 🆗 ▶ <Special Print Adj. C> ▶ 🆗 ▶ <Off> or <On> ▶ 🆗
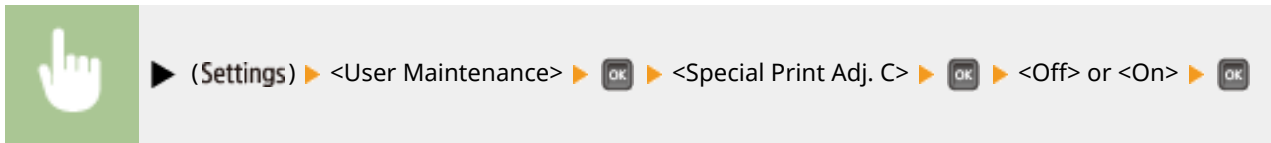
NOTE

- If you set this item to <On>, the printing speed will be slower.

Adjust Barcode

Set this item to <Narrow> when a printed barcode cannot be read correctly.

Normal †
Narrow

▶ (Settings) ▶ <User Maintenance> ▶ 🆗 ▶ <Adjust Barcode> ▶ 🆗 ▶ <Normal> or <Narrow> ▶ 🆗
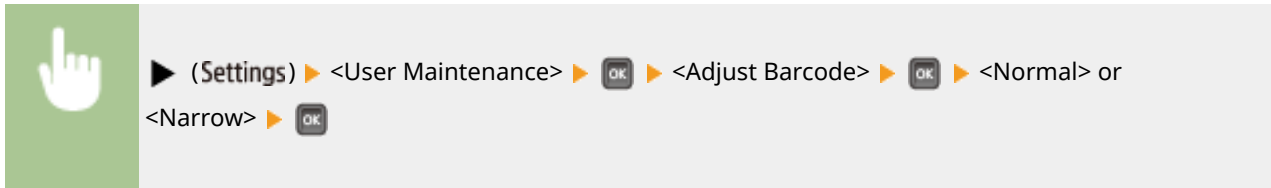
Update Firmware

Upgrades the firmware of the machine.

▶ (Settings) ▶ <User Maintenance> ▶ 🆗 ▶ <Update Firmware> ▶ 🆗 ▶ Select the connection method ▶ 🆗 ▶ <Yes> ▶ 🆗

```
Update Firmware
 USB
 Network
```
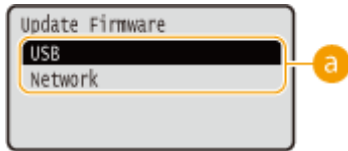
⊙ Connection method selection

Select the method to connect a computer that performs the firmware update.

First Calibration

Specify the timing to automatically perform calibration after the power is turned ON. You can make this setting separately for color mismatch correction and density control.

Color Mismatch Corr.
  After Jobs †

  Immediately

Density Control
  After Jobs †

  Immediately

▶ (**Settings**) ▶ <User Maintenance> ▶ 〔OK〕 ▶ <First Calibration> ▶ 〔OK〕 ▶ <Color Mismatch Corr.> or <Density Control> ▶ 〔OK〕 ▶ <After Jobs> or <Immediately> ▶ 〔OK〕

```
First Calibration              Color Mismatch Corr.
 Color Mismatch Corr.           After Jobs
 Density Control                Immediately
```

⊙ Type of calibration

Select the type of calibration for which you want to change the setting. <Color Mismatch Corr.> corrects color mismatch, and <Density Control> corrects hue.

ⓑ <After Jobs>

Automatically starts calibration on completion of the first print job after the power is turned ON.

ⓒ <Immediately>

Automatically starts calibration immediately after the power is turned ON.

NOTE:

- If you select <Immediately>, it takes some time before the machine is ready to print.

Paper Feed Method

Specify this setting when you print a document on paper with logos. To print on paper with logos, you need to change how the paper loaded in the paper source is facing depending on whether you are performing 1- or 2-sided printing. However, if you change the setting to <Print Side Priority>, you can just load the paper face down for both 1- and 2-sided printing. For more information, see **Loading Preprinted Paper(P. 53)** .

Speed Priority †
Print Side Priority
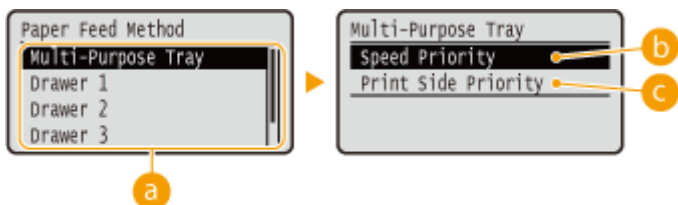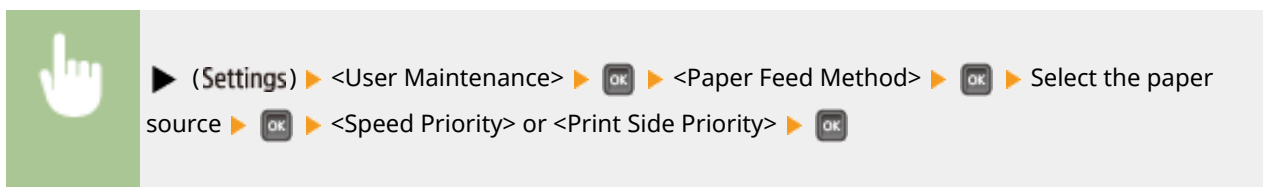
▶ (Settings) ▶ <User Maintenance> ▶ OK ▶ <Paper Feed Method> ▶ OK ▶ Select the paper source ▶ OK ▶ <Speed Priority> or <Print Side Priority> ▶ OK

ⓐ Paper source selection

Select the paper source for which you want to change the setting of Paper Feed Mode.

ⓑ <Speed Priority>

When using paper that has been preprinted with a logo, you need to change which side is up depending on 1-sided or 2-sided printing.

NOTE:

- We recommend selecting <Speed Priority> if you do not need to consider which side to print on.

ⓒ <Print Side Priority>

To print on a specific side of paper, you do not need to flip over paper in the paper source regardless of whether 1- or 2-sided printing is selected.

NOTE:

- Even if <Print Side Priority> is selected for the paper source (**Paper(P. 621)**), it is disabled and the machine operates in the same way as when <Speed Priority> is selected. In this case, load the paper in the same way as when <Speed Priority> is selected (**Loading Preprinted Paper(P. 53)**).

- If you select <Print Side Priority>, 1-sided printing speed will be slower.

Show Job List

Select whether to display a list of data that is being printed and waiting to be printed when you press (Job Status/Cancel) on the operation panel.

Off

On †

▶ (**Settings**) ▶ <User Maintenance> ▶ [OK] ▶ <Show Job List> ▶ [OK] ▶ <Off> or <On> ▶ [OK]

NOTE

- If you press [___] (**Job Status/Cancel**) when <Off> is selected, the current print job in progress is canceled.

Import/Export Set.

You can transfer and save the data registered in the machine and the setting data of the menu options to the USB memory device attached to the machine. The exported data can be imported. If the machine model is the same, other machines can import the data exported from this machine and vice versa.

IMPORT

You can import data that was written to a USB memory device from the machine.

▶ (**Settings**) ▶ <User Maintenance> ▶ [OK] ▶ <Import/Export Set.> ▶ [OK] ▶ <IMPORT> ▶ [OK] ▶ <Yes> ▶ [OK] ▶ Select the file to be imported ▶ [OK] ▶ Enter the password ▶ [OK] ▶ Check the message ▶ [OK]
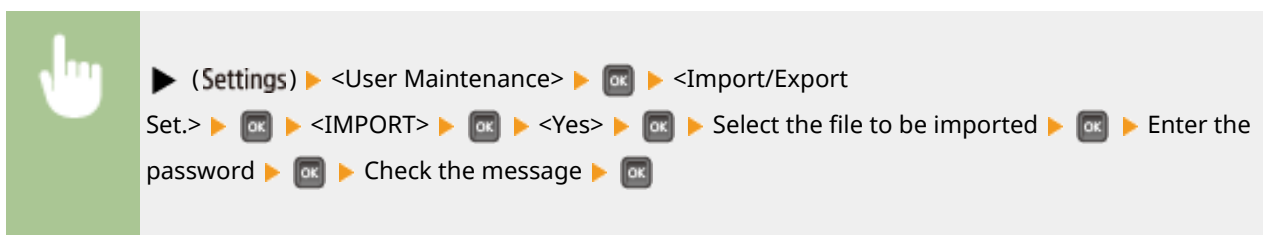
EXPORT

You can save the data registered in the machine and the setting data of the menu options to a USB memory device.

▶ (**Settings**) ▶ <User Maintenance> ▶ [OK] ▶ <Import/Export Set.> ▶ [OK] ▶ <EXPORT> ▶ [OK] ▶ Enter the password ▶ [OK] ▶ Password (Confirm) ▶ [OK] ▶ Check the message
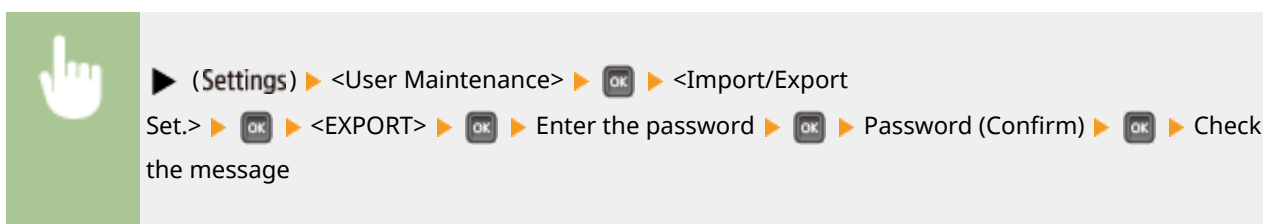
NOTE

- For these purposes, you can only use the USB port provided on the right side of the machine.
- If the <Ready to print files from USB memory.> screen is displayed when USB memory is connected, press [___] (**Application**).
- For details about import/export of settings data, see ●**Saving/Loading Registered Data(P. 356)** .

Calibration Freq.

Standard †
High

> ▶ (Settings) ▶ <User Maintenance> ▶ OK ▶ <Calibration Freq.> ▶ OK ▶ <Standard> or
> <High> ▶ OK
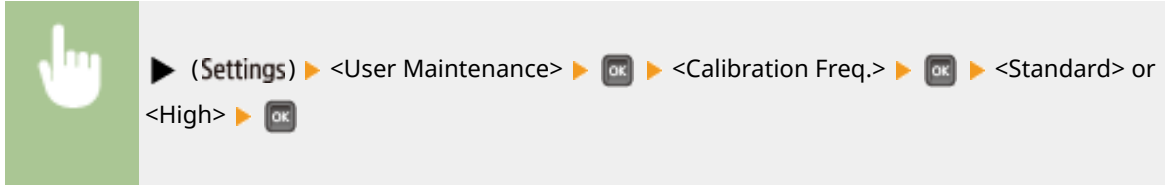
Notify to Clean

Select whether to display a message that prompts you to clean the fixing unit.

Off †
On

> ▶ (Settings) ▶ <User Maintenance> ▶ OK ▶ <Notify to Clean> ▶ OK ▶ <Off> or <On> ▶ OK

Clean. Notif. Timing *

When you have set <Notify to Clean> to <On>, you can specify the timing to display a prompt message for cleaning the fixing unit, in terms of the number of printed pages and in units of 1,000. The Configuration Page allows you to check how many pages you can print before the prompt message is displayed. (❯Configuration Page(P. 588))

1000 † to 50000

> ▶ (Settings) ▶ <User Maintenance> ▶ OK ▶ <Clean. Notif. Timing> ▶ OK ▶ Enter the number of
> printed pages using ▲ or ▼ ▶ OK

Toner Check Timing

To change the timing to display a message when the toner remaining amount is low, select <Custom>.

Default †
Custom

▶ (Settings) ▶ <User Maintenance> ▶ OK ▶ <Toner Check Timing> ▶ OK ▶ <Default> or
<Custom> ▶ OK

Spec Tnr Chk Timing *

When you have set <Toner Check Timing> to <Custom>, specify the timing to display the message.

1 to 20 † to 99 (%)

▶ (Settings) ▶ <User Maintenance> ▶ OK ▶ <Spec Tnr Chk Timing> ▶ OK ▶ Use the numeric
keys to enter the toner cartridge remaining amount ▶ OK
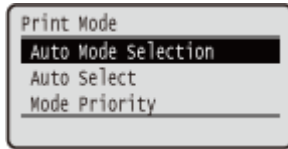
Print Mode

All the settings about print mode switching are listed with short descriptions. Default settings are marked with a dagger (†).

NOTE

Asterisks (*)

- Settings marked with an asterisk (*) are not displayed depending on other settings or whether an optional ROM is installed on the machine.

Auto Mode Selection(P. 437)
Auto Select(P. 438)
Mode Priority(P. 438)

■ Type of Print Mode

Auto selection mode	The machine enters the auto selection mode when <Auto Selection> is selected for <Auto Mode Selection>. The machine automatically discriminates data sent from a computer and selects the print mode. Normally use this print mode when you print from an application.
<PCL>	Mode for printing a PCL file sent from a computer.
<PS>	Mode for printing a PS file sent from a computer.
<PDF>	Mode for printing a PDF file by using Direct Print or USB Direct Print.
<XPS>	Mode for printing an XPS file by using Direct Print or USB Direct Print.

Auto Mode Selection

Specify the print mode in which the machine operates.

Auto Selection †
PCL
PS
PDF
XPS

▶ (Settings) ▶ <Print Mode> ▶ [OK] ▶ <Auto Mode Selection> ▶ [OK] ▶ Select the print mode ▶ [OK]

Auto Select

Enable or disable the automatic mode selection feature for the print modes during auto selection mode.

> Off
> On †

▶ (Settings) ▶ <Print Mode> ▶ [OK] ▶ <Auto Select> ▶ [OK] ▶ Select the print mode ▶ [OK] ▶ <Off> or <On> ▶ [OK]

NOTE

- If all print modes are set to <Off>, the machine operates in the print mode specified for <Mode Priority>.

Mode Priority

Specify the print mode that is automatically selected when the machine cannot identify the control command during auto selection mode.

> None †
> PCL
> PS
> PDF
> XPS

▶ (Settings) ▶ <Print Mode> ▶ [OK] ▶ <Mode Priority> ▶ [OK] ▶ Select the preferential print mode ▶ [OK]

NOTE

- If you select <None>, the machine automatically determines the print mode when it cannot identify the control command.

Settings Specific to Print Mode
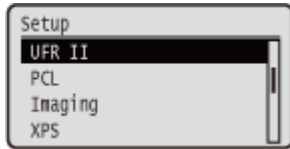
0YS1-05S

You can use the Setup menu to specify settings specific to each print mode. The settings specific to print mode are described for each mode.

UFR II
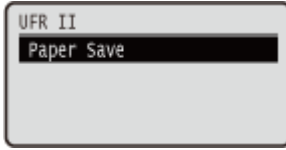
This section describes the settings available during use of UFR II with the control commands. Default settings are marked with a dagger (†).

Paper Save

Select whether to prevent blank pages from being output when they are contained in documents to print.

Off
On †

▶ (Settings) ▶ <UFR II> ▶ [OK] ▶ <Paper Save> ▶ [OK] ▶ <Off> or <On> ▶ [OK]

PCL
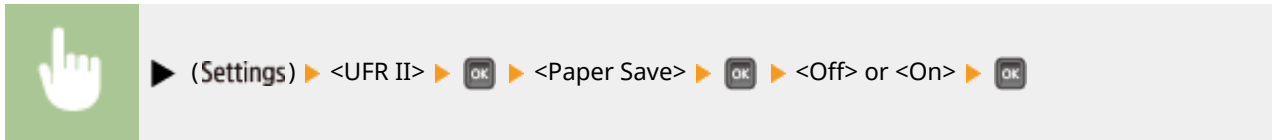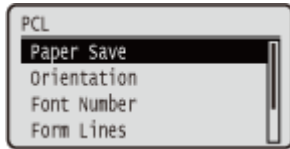
All the settings about the PCL control commands are listed with short descriptions. Default settings are marked with a dagger (†).

NOTE

Asterisks (*)

- Settings marked with an asterisk (*) are not displayed depending on other settings or whether the optional ROM is installed on the machine.

Paper Save(P. 441)
Orientation(P. 441)
Font Number(P. 442)
Point Size(P. 442)
Pitch(P. 442)
Form Lines(P. 442)
Character Code(P. 443)
Custom Size(P. 443)

Unit of Measurement(P. 444)
X Dimension(P. 444)
Y Dimension(P. 444)
Append CR to LF(P. 445)
Enlarge A4 Prt Width(P. 445)
BarDIMM(P. 445)
FreeScape(P. 446)

Paper Save

Specifies whether the machine outputs the blank page that can be created due to no data existing between two form feed codes sent from an application.

Off †
On

▶ (Settings) ▶ <PCL> ▶ [OK] ▶ <Paper Save> ▶ [OK] ▶ <Off> or <On> ▶ [OK]
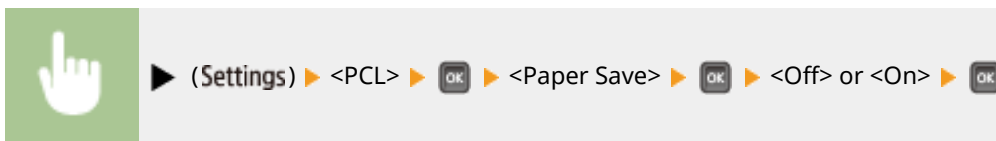
Orientation

Enables you to set the paper orientation.

Portrait †
Landscape

▶ (Settings) ▶ <PCL> ▶ [OK] ▶ <Orientation> ▶ [OK] ▶ <Portrait> or <Landscape> ▶ [OK]
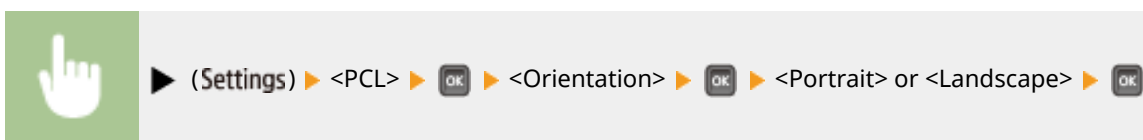
Font Number

Enables you to set the default font for this machine function using the corresponding font numbers. Valid font numbers are from 0 to 104.

> 0 † to 104

> ☞ ▶ (Settings) ▶ <PCL> ▶ OK ▶ <Font Number> ▶ OK ▶ Use the numeric keys to enter the port number ▶ OK

Point Size *

If the number selected in <Font Number> is that of a proportionally spaced scalable font, this option appears in the <PCL> options. It enables you to specify a point size for the default font. The point size can be adjusted in increments of 0.25 pts.

> 4.00 to 12.00 † to 999.75 point

> ☞ ▶ (Settings) ▶ <PCL> ▶ OK ▶ <Point Size> ▶ OK ▶ Use the numeric keys to enter the setting value ▶ OK

Pitch *

If the number selected in <Font Number> is that of a fixed pitch scalable font, <Pitch> appears in the <PCL> options. It enables you to specify the pitch for the default font. The pitch can be adjusted in increments of 0.01 cpi (characters per inch).

> 0.44 to 10.00 † to 99.99 cpi

> ☞ ▶ (Settings) ▶ <PCL> ▶ OK ▶ <Pitch> ▶ OK ▶ Use the numeric keys to enter the setting value ▶ OK

Form Lines

Enables you to specify the number of lines to be printed on a page. You can specify from 5 to 128 lines.

> 5 to 60 † to 128 lines

> ▶ (Settings) ▶ <PCL> ▶ ⌧ ▶ <Form Lines> ▶ ⌧ ▶ Use the numeric keys to enter the setting value ▶ ⌧
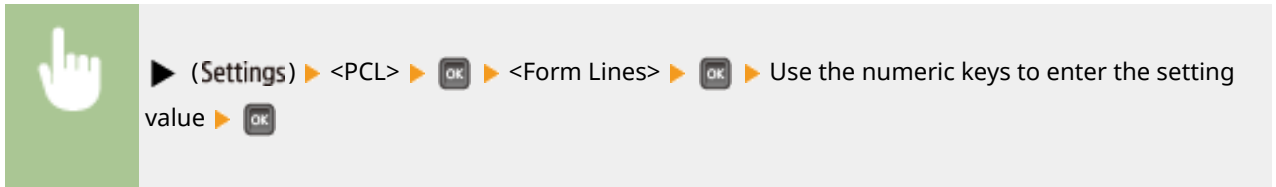
Character Code

Enables you to select the symbol set most suited to the needs of the host computer.

PC8 [†]	ISO11
ROMAN8	ISO15
ROMAN9	ISO17
ISOL1	ISO21
ISOL2	ISO60
ISOL5	ISO69
ISOL6	WIN 30
ISOL9	MCTEXT
PC775	PC864
PC8DN	ARABIC8
PC850	WINARB
PC852	PC866
PC858	ISOCYR
PC8TK	WINCYR
PC1004	PC851
WINL1	GREEK8
WINL2	ISOGRK
WINL5	PC8GRK
WINBALT	WINGRK
DESKTOP	PC862
PSTEXT	HEBREW7
LEGAL	HEBREW8
ISO4	ISOHEB
ISO6	

> ▶ (Settings) ▶ <PCL> ▶ ⌧ ▶ <Character Code> ▶ ⌧ ▶ Select the character code ▶ ⌧
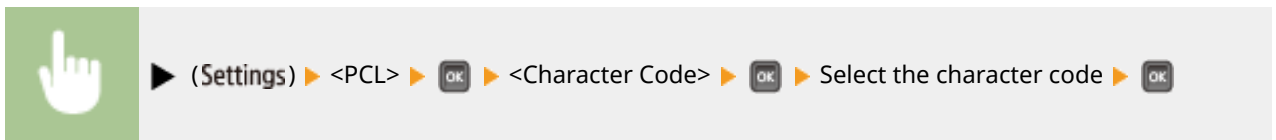
Custom Size

Enables you to specify a custom paper size. If <Set> is selected, you can enter a custom size.

Do Not Set [†]
Set

▶ (Settings) ▶ <PCL> ▶ OK ▶ <Custom Size> ▶ OK ▶ <Set> or <Do Not Set> ▶ OK
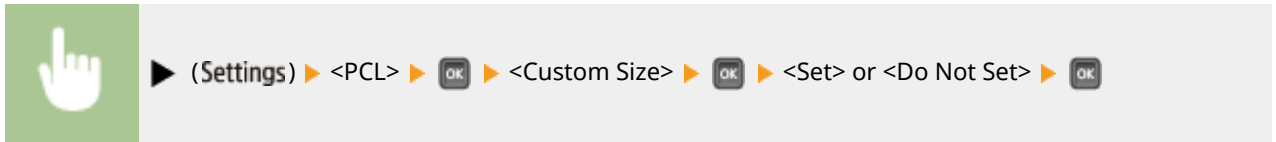
Unit of Measurement *

Enables you to specify the unit of measurement you would like to use to specify your custom paper size.

Millimeters
Inches †

▶ (Settings) ▶ <PCL> ▶ OK ▶ <Unit of Measurement> ▶ OK ▶ <Millimeters> or <Inches> ▶ OK
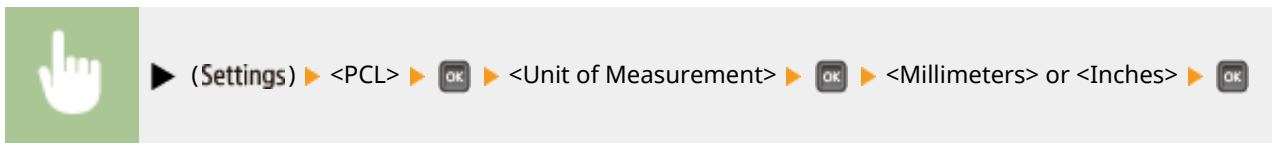
X Dimension *

Enables you to specify the X dimension of the custom paper. The X dimension can be adjusted between 3.00 in. (76.2 mm) and 8.50 in. (215.9 mm) in increments of 0.01 in. (0.1 mm).

3.00 to 8.50 † in. (76.2 to 215.9 † mm)

▶ (Settings) ▶ <PCL> ▶ OK ▶ <X Dimension> ▶ OK ▶ Use the numeric keys to enter the setting value ▶ OK
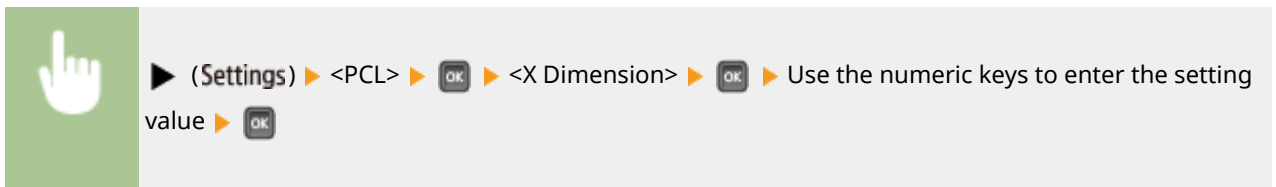
Y Dimension *

Enables you to specify the Y dimension of the custom paper. The Y dimension can be adjusted between 5.00 in. (127.0 mm) and 14.00 in. (355.6 mm) in increments of 0.01 in. (0.1 mm).

5.00 to 14.00 † in. (127.0 to 355.6 † mm)

▶ (Settings) ▶ <PCL> ▶ OK ▶ <Y Dimension> ▶ OK ▶ Use the numeric keys to enter the setting value ▶ OK
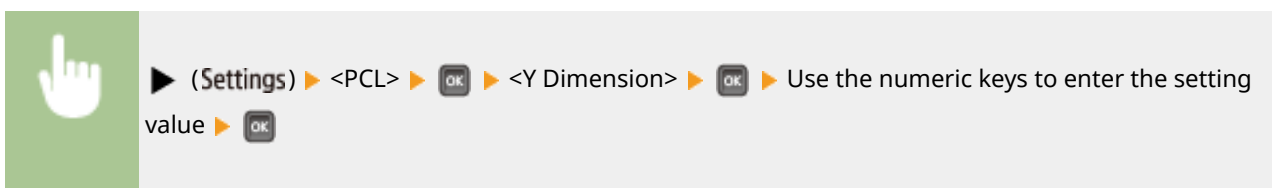
Append CR to LF

Enables you to specify whether to append a carriage return (CR) when line feed code (LF) is received.

Yes
No †

👆 ▶ (Settings) ▶ <PCL> ▶ 🆗 ▶ <Append CR to LF> ▶ 🆗 ▶ <Yes> or <No> ▶ 🆗

ABCDE⬇FGHIJ

LF code (⬇) only

ABCDE
FGHIJ

Append CR to LF 'Yes'

ABCDE
　　　　FGHIJ

Append CR to LF 'No'
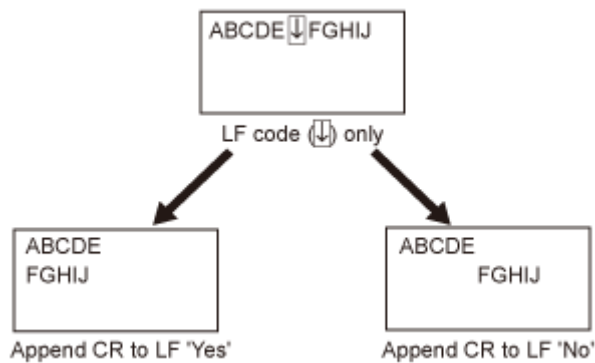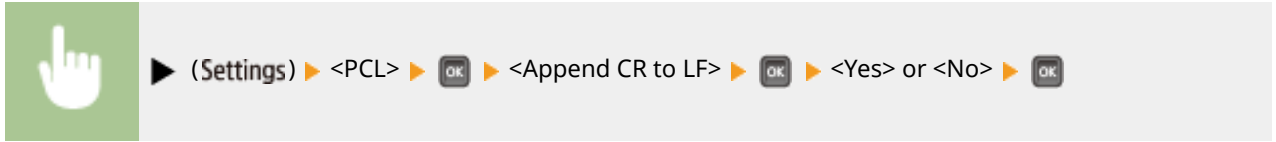
Enlarge A4 Prt Width

Determines whether to expand the printable area of A4 paper to that of Letter size in width.

Off †
On

👆 ▶ (Settings) ▶ <PCL> ▶ 🆗 ▶ <Enlarge A4 Prt Width> ▶ 🆗 ▶ <Off> or <On> ▶ 🆗
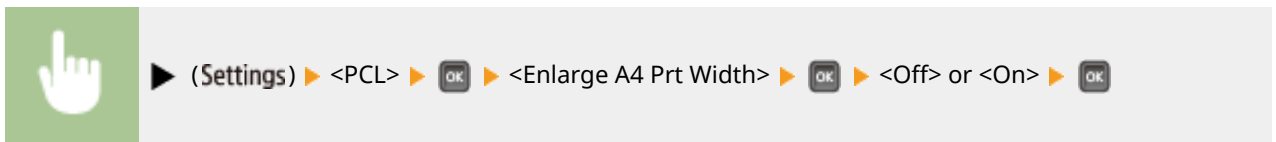
BarDIMM *

You can enable or disable the Bar Code Printing function of the machine.

Enable
Disable †
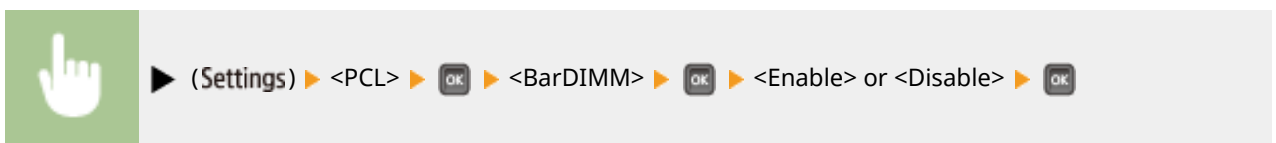
👆 ▶ (Settings) ▶ <PCL> ▶ 🆗 ▶ <BarDIMM> ▶ 🆗 ▶ <Enable> or <Disable> ▶ 🆗

FreeScape *

You can specify the AEC (Alternate Escape Code) to be used for bar code commands when the host computer does not support the standard Escape Code.

```
Off
~ †
"
#
$
/
\
?
{
}
|
```

 ▶ (Settings) ▶ <PCL> ▶ OK ▶ <FreeScape> ▶ OK ▶ Select Escape Code ▶ OK
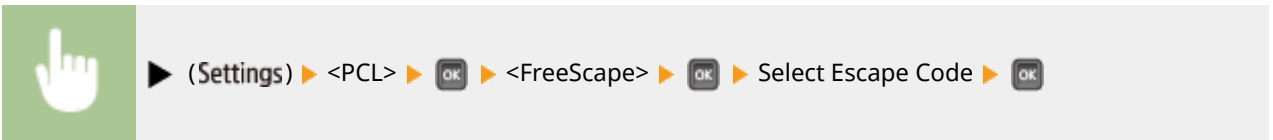
Imaging

0YS1-05X
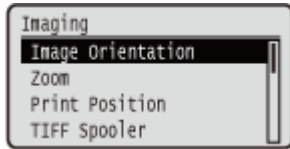
All the settings about image files (JPEG and TIFF files) available for USB Direct Print, Direct Print, and E-Mail Print are listed with short descriptions. Default settings are marked with a dagger (†).

NOTE

Asterisks (*)

- Settings marked with an asterisk (*) are not displayed depending on other settings or whether an optional SD card is installed on the machine.

Image Orientation(P. 447)
Zoom(P. 448)
Print Position(P. 448)
TIFF Spooler(P. 449)
Show Warnings(P. 450)
Print E-Mail Text(P. 450)
Limit E-Mail Print(P. 450)
Enlarge Print Area(P. 451)

RGB Source Profile(P. 451)
CMYK Sim. Profile(P. 452)
Output Profile(P. 452)
Matching Method(P. 453)
Halftones(P. 453)
Photo Corr (CL Only)(P. 454)
Grayscale Conversion(P. 456)

Image Orientation

Specify the print orientation of an image.
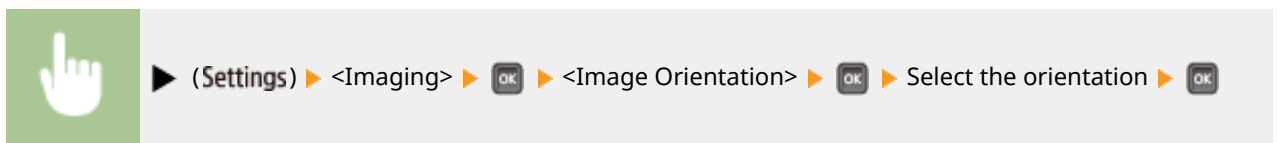
Auto †
Vertical
Horizontal

▶ (Settings) ▶ <Imaging> ▶ OK ▶ <Image Orientation> ▶ OK ▶ Select the orientation ▶ OK

ⓐ <Auto>

Automatically determines the print orientation based on the width and height of the image.

ⓑ <Vertical>

Select when printing a vertically-long image.

447

ⓒ <Horizontal>

Select when printing a horizontally-long image.

NOTE

- If the specified setting (<Vertical> or <Horizontal>) does not match the orientation of the image, the image is printed at a reduced size.

Zoom

Enable or disable enlarging/reducing images. The printouts are enlarged or reduced with the image aspect ratio kept.

Off †
Auto

▶ (Settings) ▶ <Imaging> ▶ 🆗 ▶ <Zoom> ▶ 🆗 ▶ <Off> or <Auto> ▶ 🆗

ⓐ <Off>
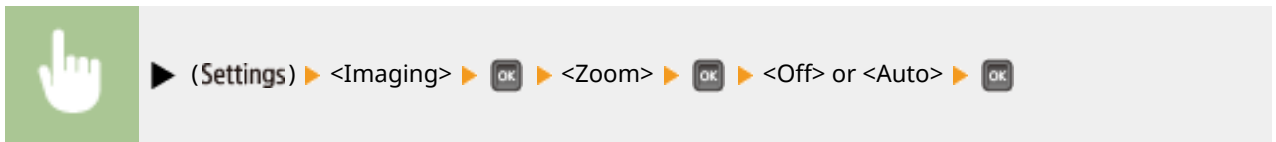
When an image is within ❯**Printable Area(P. 624)** , it is printed at the original size. When an image is larger than the printable area, printouts are reduced.

ⓑ <Auto>

Makes enlarged or reduced printouts according to the printable area of the paper.

Print Position

Specify the position to print the image.

Auto †
Center
Top Left
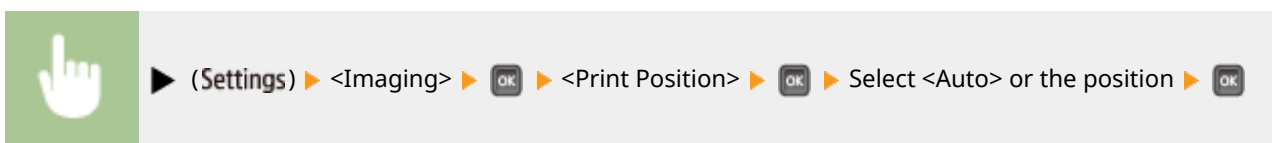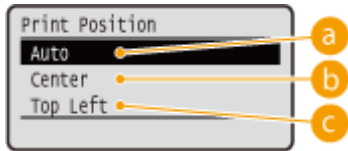
▶ (Settings) ▶ <Imaging> ▶ 🆗 ▶ <Print Position> ▶ 🆗 ▶ Select <Auto> or the position ▶ 🆗

ⓐ <Auto>

If the TIFF data contains the information that specifies the print position, the image is printed according to the information, otherwise, it is printed at the center of paper. JPEG data is always printed at the center of paper.

ⓑ <Center>

Images are printed at the center of paper.

ⓒ <Top Left>

Images are printed at the top left.

TIFF Spooler

Select whether to store TIFF data in the SD card prior to processing it for printing. Set this item to <On> if an error occurs during printing.

Off †
On

▶ (Settings) ▶ <Imaging> ▶ [OK] ▶ <TIFF Spooler> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <Off> or <On> ▶ [OK] ▶ Perform a hard reset (**Performing a Hard Reset(P. 499)**)

ⓐ <Off>
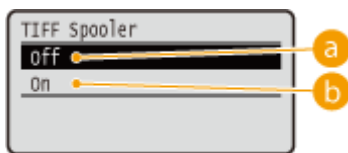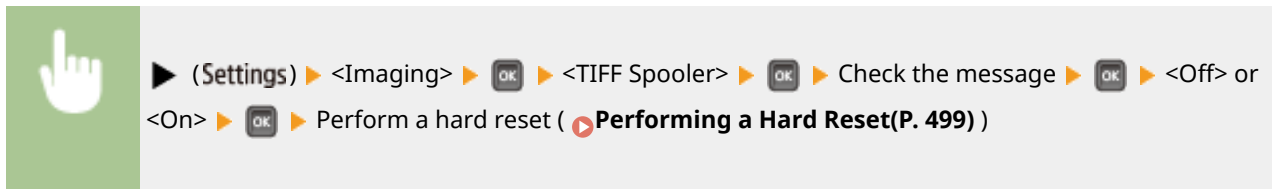
TIFF data is continuously processed as soon as it is received, reducing the processing time.

ⓑ <On>

All of received TIFF data is processed at one time, reducing the occurrence of errors. When an SD card is installed, the data is stored to the SD card.

IMPORTANT:

- If no SD card is installed, files exceeding 40 MB in size may not be printed.

Show Warnings

You can specify how the machine should behave if an error occurs.

Off
Print [†]
Panel
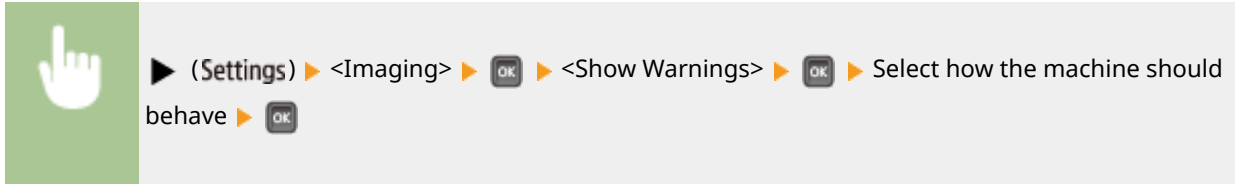
▶ (Settings) ▶ <Imaging> ▶ [OK] ▶ <Show Warnings> ▶ [OK] ▶ Select how the machine should behave ▶ [OK]

ⓐ <Off>

No image is printed and no error is displayed.

ⓑ <Print>

Error information is printed and no image is printed.

ⓒ <Panel>

No image is printed and an error message is displayed on the operation panel.

Print E-Mail Text

Select whether to print e-mail messages when E-Mail Print is performed. If you select <Off>, only an image attached to the e-mail is printed.

Off
On [†]

▶ (Settings) ▶ <Imaging> ▶ [OK] ▶ <Print E-Mail Text> ▶ [OK] ▶ <Off> or <On> ▶ [OK]
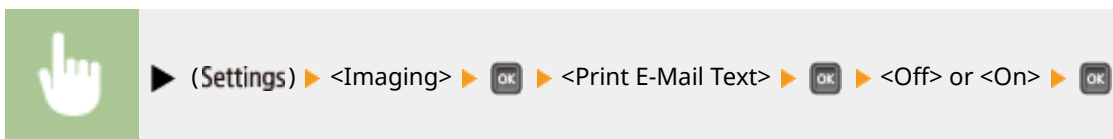
Limit E-Mail Print [*]

Select whether to limit the number of e-mail message pages to print when <Print E-Mail Text> is set to <On>. If you select <On>, the number of e-mail message pages to print is limited to 5.
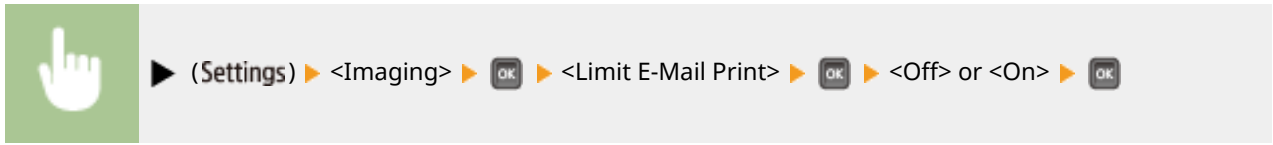
450

Off †
On

▶ (Settings) ▶ <Imaging> ▶ ⒪ᴋ ▶ <Limit E-Mail Print> ▶ ⒪ᴋ ▶ <Off> or <On> ▶ ⒪ᴋ

Enlarge Print Area

Specify whether or not to print the image by extending the ❍**Printable Area(P. 624)** fully to the paper size.

Off †
On

▶ (Settings) ▶ <Imaging> ▶ ⒪ᴋ ▶ <Enlarge Print Area> ▶ ⒪ᴋ ▶ <Off> or <On> ▶ ⒪ᴋ
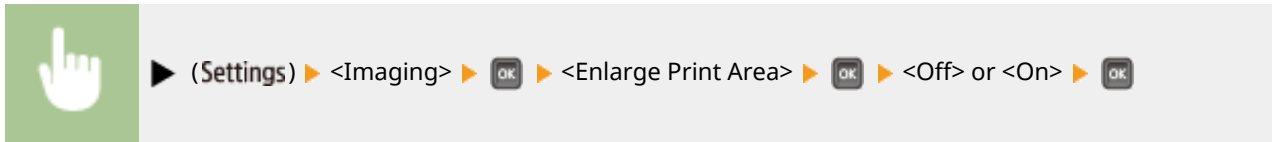
NOTE

- If you select <On>, some portions of the image may be missing near the edge of the paper or the paper may be partly tainted depending on the original.

RGB Source Profile

Select a suitable profile for RGB data that matches the monitor that you are using.

sRGB v3.0 (Canon) †
Canon HDTV gamma 1.5
Canon HDTV gamma 1.8
Canon HDTV gamma 2.4

▶ (Settings) ▶ <Imaging> ▶ ⒪ᴋ ▶ <RGB Source Profile> ▶ ⒪ᴋ ▶ Select the profile ▶ ⒪ᴋ

ⓐ **<sRGB v3.0 (Canon)>**

An RGB profile is used that is similar to an average profile of most Windows PC monitors. When using a monitor that supports sRGB, you can print colors close to the colors displayed on the monitor.

ⓑ <Canon HDTV gamma 1.5> to <Canon HDTV gamma 2.4>

When you want a brightness adjustment after making comparison between the printed colors and the colors displayed on the monitor, make a necessary setting here. The higher the value, the darker the printed colors.

CMYK Sim. Profile

You can select a simulation target when printing CMYK data. The machine converts CMYK data to a device-dependent CMYK color model in accordance with the selected simulation target.

Euro Standard v1.00
JapanColor(Canon) †
U.S. Web Coated v1.0

▶ (Settings)▶ <Imaging> ▶ 🆗 ▶ <CMYK Sim. Profile> ▶ 🆗 ▶ Select the profile ▶ 🆗

ⓐ <Euro Standard v1.00>

Use the Euro Standard profile. Printing is performed in colors that are close to the European printing standards.

ⓑ <JapanColor(Canon)>

Use the JapanColor profile. Printing is performed in colors that are close to the Japanese printing standards.

ⓒ <U.S. Web Coated v1.0>
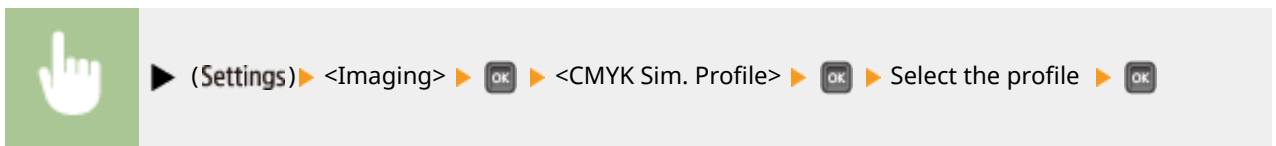
Use the U.S. Web Coated profile. Printing is performed in colors that are close to the U.S. printing standards.

Output Profile

You can select suitable profiles for data that you are going to print.

Normal
Photo †

▶ (Settings)▶ <Imaging> ▶ 🆗 ▶ <Output Profile> ▶ 🆗 ▶ Select the profile ▶ 🆗

ⓐ <Normal>

Color matching is performed so that data is printed in colors close to the colors displayed on the monitor.

ⓑ <Photo>

Color matching is performed so that the print result is similar to photography.

Matching Method

Specify which element to be given priority over others in color matching by <RGB Source Profile>.

Perceptual †
Saturation
Colorimetric

	▶ (Settings)▶ <Imaging> ▶ 🆗 ▶ <Matching Method> ▶ 🆗 ▶ Select the matching method ▶ 🆗

ⓐ <Perceptual>

Matching is performed with priority given to perceptual.

ⓑ <Saturation>

Matching is performed with priority given to saturation.

ⓒ <Colorimetric>

Matching is performed so that the RGB color values are reproduced as accurately as possible.

Halftones

You can select the printing method to reproduce halftones (the intermediate range between the lighter and darker areas of an image).

Resolution
Gradation †
Error Diffusion

▶ **(Settings)**▶ <Imaging> ▶ 🆗 ▶ <Halftones> ▶ 🆗 ▶ Select the method to reproduce halftones ▶ 🆗

```
Halftones
  Resolution        ●——ⓐ
  Gradation         ●——ⓑ
  Error Diffusion   ●——ⓒ
```

ⓐ <Resolution>

Performs fine printing by sharply reproducing the edges of characters. This print mode is suitable for printing data of characters and thin lines with a clear finish.

ⓑ <Gradation>

Prints gradation and lines with a smooth finish. This print mode is suitable for printing figures and charts with gradation.

ⓒ <Error Diffusion>

You can perform finer printing than with <Resolution>. This print mode is suitable for sharply printing edges of fine granularity data such as characters or thin lines.

Photo Corr (CL Only) *

Make settings for correction functions for photos or other similar image data. This item is displayed when an SD card is installed.

Photo Optimizer PRO

Set whether to perform printing by automatically correcting image contrast, color balance, saturation, and gradation.

Off †
On

▶ **(Settings)**▶ <Imaging> ▶ 🆗 ▶ <Photo Corr (CL Only)> ▶ 🆗 ▶ <Photo Optimizer PRO> ▶ 🆗 ▶ <Off> or <On> ▶ 🆗

Red-Eye Correction

"Red-eye" is a phenomenon that causes the eyes of human subjects of flash/strobe photography to appear unnaturally reddish in color. Set whether to automatically detect red-eye in the image and correct the portions in question so that they appear in natural color. You can select the level of correction strength from among three.

Red-Eye Correction

Set whether to perform red-eye correction.

Off [†]
On

> ▶ (Settings)▶ <Imaging> ▶ [OK] ▶ <Photo Corr (CL Only)> ▶ [OK] ▶ <Red-Eye Correction> ▶ [OK] ▶ <Red-Eye Correction> ▶ [OK] ▶ <Off> or <On> ▶ [OK]

Red-Eye Corr. Level *

Specify the level of correction strength when <Red-Eye Correction> is set to <On>.

Weak
Standard [†]
Strong

> ▶ (Settings)▶ <Imaging> ▶ [OK] ▶ <Photo Corr (CL Only)> ▶ [OK] ▶ <Red-Eye Correction> ▶ [OK] ▶ <Red-Eye Corr. Level> ▶ [OK] ▶ Select the level ▶ [OK]

Face Brightener

For a photograph image in which the faces of human subjects are unnaturally dark due to backlight or underexposure, set whether to print the image by correcting its entire brightness so that the subjects' faces become naturally bright. You can select the level of correction strength from among three.

Face Brightener

Set whether to make a correction to brighten the subjects' faces.

Off [†]
On

> ▶ (Settings)▶ <Imaging> ▶ [OK] ▶ <Photo Corr (CL Only)> ▶ [OK] ▶ <Face Brightener> ▶ [OK] ▶ <Face Brightener> ▶ [OK] ▶ <Off> or <On> ▶ [OK]

Face Brightener Lv. *

Specify the level of correction strength when <Face Brightener> is set to <On>.

Weak
Standard [†]
Strong

> ▶ (Settings)▶ <Imaging> ▶ ☒ ▶ <Photo Corr (CL Only)> ▶ ☒ ▶ <Face Brightener> ▶ ☒ ▶ <Face Brightener Lv.> ▶ ☒ ▶ Select the level ▶ ☒

Grayscale Conversion *

You can select the method to convert color pint data to black-and-white data.

> sRGB
> NTSC †
> Uniform RGB

> ▶ (Settings)▶ <Imaging> ▶ ☒ ▶ <Grayscale Conversion> ▶ ☒ ▶ Select the conversion method ▶ ☒

ⓐ <sRGB>

Color data is converted to black-and-white data to generate color-conscious smooth gradation.

ⓑ <NTSC>

Color data is converted to black-and-white data to generate appearances equivalent to television pictures (NTSC).

ⓒ <Uniform RGB>

Color data is converted to black-and-white data to equalize all RGB levels based on the brightness only.

NOTE

● This item is available when <Color Mode> (▶**Color Mode(P. 404)**) under <Print Quality> is set to <Black>.

XPS

0YS1-05Y

All the settings about XPS files available for USB Direct Print and Direct Print are listed with short descriptions. Default settings are marked with a dagger (†).

> **NOTE**
>
> **Asterisks (*)**
>
> - Settings marked with an asterisk (*) are not displayed depending on other settings.

Matching Mode(P. 457)
ICC Profile Settings(P. 458)
Gamma Settings(P. 460)
Photo Corr (CL Only)(P. 461)
Halftones(P. 463)
Gray Compensation(P. 464)
Advanced Smoothing(P. 465)
Grayscale Conversion(P. 466)

Matching Mode

Select the processing mode for color printing.
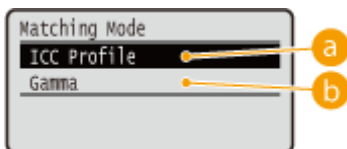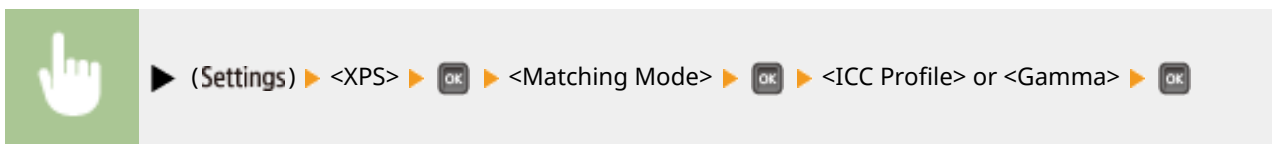
ICC Profile †
Gamma

▶ (Settings) ▶ <XPS> ▶ ☑ ▶ <Matching Mode> ▶ ☑ ▶ <ICC Profile> or <Gamma> ▶ ☑

ⓐ <ICC Profile>

Use a profile for color matching.

ⓑ <Gamma>

Perform color correction by setting a gamma value for brightness adjustment.

ICC Profile Settings

Set the profile to be used when performing color matching and specify which element to be given priority over others. You can set this item for each of the types of image contained in one document.

RGB Source Profile

Select a suitable profile for RGB data that matches the monitor that you are using.

Text
　sRGB v3.0 (Canon) †

　Canon HDTV gamma 1.5

　Canon HDTV gamma 1.8

　Canon HDTV gamma 2.4

Graphics
　sRGB v3.0 (Canon) †

　Canon HDTV gamma 1.5

　Canon HDTV gamma 1.8

　Canon HDTV gamma 2.4

Image
　sRGB v3.0 (Canon) †

　Canon HDTV gamma 1.5

　Canon HDTV gamma 1.8

　Canon HDTV gamma 2.4

▶ (Settings) ▶ <XPS> ▶ [OK] ▶ <ICC Profile Settings> ▶ [OK] ▶ <RGB Source Profile> ▶ [OK] ▶ Select the image data type ▶ [OK] ▶ Select the profile ▶ [OK]

ⓐ Image data type

　Select the image data type for which the settings are changed. Select <Text> for characters, <Graphics> for lines and figures, or <Image> for images such as photos.

ⓑ <sRGB v3.0 (Canon)>

　An RGB profile is used that is similar to an average profile of most Windows PC monitors. When using a monitor that supports sRGB, you can print colors close to the colors displayed on the monitor.

ⓒ <Canon HDTV gamma 1.5> to <Canon HDTV gamma 2.4>

　When you want a brightness adjustment after making comparison between the printed colors and the colors displayed on the monitor, make a necessary setting here. The higher the value, the darker the printed colors.

NOTE

- This item is available when <Matching Mode> is set to <ICC Profile>.

Output Profile

You can select suitable profiles for data that you are going to print.

Text
  Normal

  Photo †

Graphics
  Normal

  Photo †

Image
  Normal

  Photo †

▶ (Settings) ▶ <XPS> ▶ OK ▶ <ICC Profile Settings> ▶ OK ▶ <Output Profile> ▶ OK ▶ Select the image data type ▶ OK ▶ <Normal> or <Photo> ▶ OK

```
Output Profile          Text
  Text                    Normal •———————b
  Graphics                Photo •————————c
  Image
     •
     a
```

ⓐ Image data type

Select the image data type for which the settings are changed. Select <Text> for characters, <Graphics> for lines and figures, or <Image> for images such as photos.

ⓑ <Normal>

Color matching is performed so that data is printed in colors close to the colors displayed on the monitor.

ⓒ <Photo>

Color matching is performed so that the print result is similar to photography.

NOTE

- This item is available when <Matching Mode> is set to <ICC Profile>.

Matching Method

Specify which element to be given priority over others in color matching by <RGB Source Profile>. You can set this item for each of the types of image contained in one document.

Text

Perceptual †

Saturation

Colorimetric

Graphics

Perceptual †

Saturation

Colorimetric

Image

Perceptual †

Saturation

Colorimetric

▶ (**Settings**) ▶ <XPS> ▶ 🆗 ▶ <ICC Profile Settings> ▶ 🆗 ▶ <Matching Method> ▶ 🆗 ▶ Select the image data type ▶ 🆗 ▶ Select the matching method ▶ 🆗

ⓐ Image data type

Select the image data type for which the settings are changed. Select <Text> for characters, <Graphics> for lines and figures, or <Image> for images such as photos.

ⓑ <Perceptual>

Matching is performed with priority given to perceptual.

ⓒ <Saturation>

Matching is performed with priority given to saturation.

ⓓ <Colorimetric>

Matching is performed so that the RGB color values are reproduced as accurately as possible.

Gamma Settings

Set whether to perform color correction by setting a gamma value for brightness adjustment.

Gamma Correction

Brightness adjustment can be performed so that the brightness of the brightest and darkest parts of the original is not effected in the print result. You can set this item for each of the types of image contained in one document.

Text

1.0

1.4 [†]

1.8

2.2

Graphics

1.0

1.4 [†]

1.8

2.2

Image

1.0

1.4 [†]

1.8

2.2

▶ (Settings) ▶ <XPS> ▶ OK ▶ <Gamma Settings> ▶ OK ▶ <Gamma Correction> ▶ OK ▶ Select the image data type ▶ OK ▶ Select the setting value ▶ OK
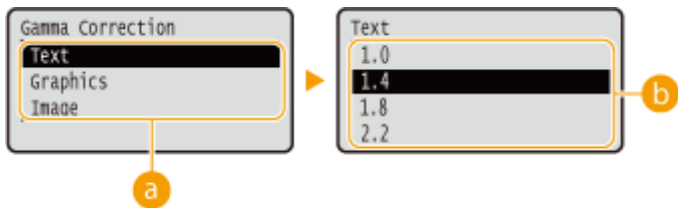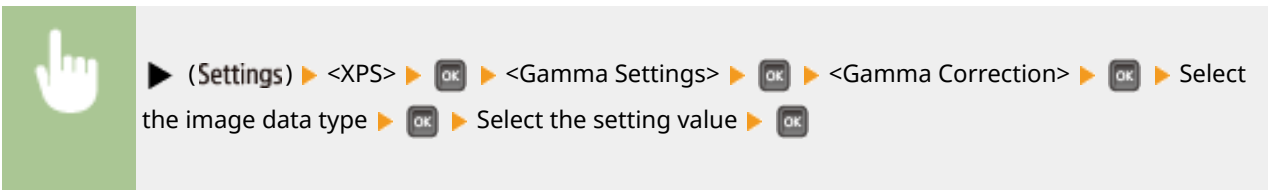
ⓐ Image data type

Select the image data type for which the settings are changed. Select <Text> for characters, <Graphics> for lines and figures, or <Image> for images such as photos.

ⓑ <1.0> to <2.2>

Set this item when you want to adjust the brightness of printouts. <1.4> is the standard setting (no correction), and the larger the setting value, the darker the print will be.

> **NOTE**
>
> - This item is available when <Matching Mode> is set to <Gamma>.

Photo Corr (CL Only)

Make settings for correction functions for photos or other similar image data.

Photo Optimizer PRO

Set whether to perform printing by automatically correcting image contrast, color balance, saturation, and gradation.

Off [†]

On

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▶ (Settings) ▶ <XPS> ▶ [OK] ▶ <Photo Corr (CL Only)> ▶ [OK] ▶ <Photo Optimizer PRO> ▶ [OK] ▶ <Off> or <On> ▶ [OK]

Red-Eye Correction

"Red-eye" is a phenomenon that causes the eyes of human subjects of flash/strobe photography to appear unnaturally reddish in color. Set whether to automatically detect red-eye in the image and correct the portions in question so that they appear in natural color. You can select the level of correction strength from among three.

Red-Eye Correction

Set whether to perform red-eye correction.

Off [†]
On

▶ (Settings) ▶ <XPS> ▶ [OK] ▶ <Photo Corr (CL Only)> ▶ [OK] ▶ <Red-Eye Correction> ▶ [OK] ▶ <Red-Eye Correction> ▶ [OK] ▶ <Off> or <On> ▶ [OK]

Red-Eye Corr. Level [*]

Specify the level of correction strength when <Red-Eye Correction> is set to <On>.

Weak
Standard [†]
Strong

▶ (Settings) ▶ <XPS> ▶ [OK] ▶ <Photo Corr (CL Only)> ▶ [OK] ▶ <Red-Eye Correction> ▶ [OK] ▶ <Red-Eye Corr. Level> ▶ [OK] ▶ Select the level ▶ [OK]

Face Brightener

For a photograph image in which the faces of human subjects are unnaturally dark due to backlight or underexposure, set whether to print the image by correcting its entire brightness so that the subjects' faces become naturally bright. You can select the level of correction strength from among three.

Face Brightener

Set whether to make a correction to brighten the subjects' faces.

Off [†]
On

▶ (Settings) ▶ <XPS> ▶ [OK] ▶ <Photo Corr (CL Only)> ▶ [OK] ▶ <Face Brightener> ▶ [OK] ▶ <Face Brightener> ▶ [OK] ▶ <Off> or <On> ▶ [OK]

Face Brightener Lv. *

Specify the level of correction strength when <Face Brightener> is set to <On>.

Weak
Standard †
Strong

▶ (Settings) ▶ <XPS> ▶ [OK] ▶ <Photo Corr (CL Only)> ▶ [OK] ▶ <Face Brightener> ▶ [OK] ▶ <Face Brightener Lv.> ▶ [OK] ▶ Select the level ▶ [OK]

Halftones

You can select the printing method to reproduce halftones (the intermediate range between the lighter and darker areas of an image).

Error Diffusion

You can perform finer printing than with <Resolution/Grad.>. This print mode is suitable for sharply printing edges of fine granularity data such as characters or thin lines.

Off †
On

▶ (Settings) ▶ <XPS> ▶ [OK] ▶ <Halftones> ▶ [OK] ▶ <Error Diffusion> ▶ [OK] ▶ <Off> or <On> ▶ [OK]

Resolution/Grad. *

Select the halftone reproduction method when <Error Diffusion> is set to <Off>. You can set this item for each of the types of image contained in one document.

Text
　Resolution †
　Gradation
Graphics
　Resolution
　Gradation †
Image
　Resolution

Gradation †

▶ (Settings) ▶ <XPS> ▶ [OK] ▶ <Halftones> ▶ [OK] ▶ <Resolution/Grad.> ▶ [OK] ▶ Select the image data type ▶ [OK] ▶ <Resolution> or <Gradation> ▶ [OK]

ⓐ Image data type

Select the image data type for which the settings are changed. Select <Text> for characters, <Graphics> for lines and figures, or <Image> for images such as photos.

ⓑ <Resolution>

Performs fine printing by sharply reproducing the edges of characters. This print mode is suitable for printing data of characters and thin lines with a clear finish.

ⓒ <Gradation>

Prints gradation and lines with a smooth finish. This print mode is suitable for printing figures and charts with gradation.

Gray Compensation

For black or gray data with color information defining R=G=B, select whether to print with black (K) toner only or print with CMYK 4-color toner. You can set this item for each of the types of image contained in one document.

Text
Off
On †
Graphics
Off
On †
Image
Off
On †

▶ (Settings) ▶ <XPS> ▶ [OK] ▶ <Gray Compensation> ▶ [OK] ▶ Select the image data type ▶ [OK] ▶ <Off> or <On> ▶ [OK]

ⓐ Image data type

Select the image data type for which the settings are changed. Select <Text> for characters, <Graphics> for lines and figures, or <Image> for images such as photos.

ⓑ <Off>

Prints with CMYK 4-color toner. Reproducibility of gradation of dark colors is better than with <On>.

ⓒ <On>

Prints with black (K) toner only. Color mismatch due to use of color (CMY) toner can be prevented.

Advanced Smoothing

Make settings for the smoothing mode that enables edges of lines, figures and text are printed smoothly.

Advanced Smoothing

Specify whether to enable or disable the smoothing mode. Edges will be smoother with <Smooth 2> than with <Smooth 1>.

Off
Smooth 1 †
Smooth 2

▶ (Settings) ▶ <XPS> ▶ ⓞⓚ ▶ <Advanced Smoothing> ▶ ⓞⓚ ▶ <Advanced Smoothing> ▶ ⓞⓚ ▶ Select the processing method ▶ ⓞⓚ

Graphics *

Specify whether to apply the smoothing mode to lines and figures when <Advanced Smoothing> is set to <Smooth 1> or <Smooth 2>.

Off †
On

▶ (Settings) ▶ <XPS> ▶ ⓞⓚ ▶ <Advanced Smoothing> ▶ ⓞⓚ ▶ <Graphics> ▶ ⓞⓚ ▶ <Off> or <On> ▶ ⓞⓚ

Text *

Specify whether to apply the smoothing mode to text when <Advanced Smoothing> is set to <Smooth 1> or <Smooth 2>.

| Off |
| On † |

 (Settings) ▶ <XPS> ▶ OK ▶ <Advanced Smoothing> ▶ OK ▶ <Text> ▶ OK ▶ <Off> or <On> ▶ OK

Grayscale Conversion

You can select the method to convert color pint data to black-and-white data.

| **Text** |
| sRGB |
| NTSC † |
| Uniform RGB |
| **Graphics** |
| sRGB |
| NTSC † |
| Uniform RGB |
| **Image** |
| sRGB |
| NTSC † |
| Uniform RGB |

 (Settings) ▶ <XPS> ▶ OK ▶ <Grayscale Conversion> ▶ OK ▶ Select the image data type ▶ OK ▶ Select the conversion method ▶ OK

ⓐ Image data type

Select the image data type for which the settings are changed. Select <Text> for characters, <Graphics> for lines and figures, or <Image> for images such as photos.

ⓑ <sRGB>

Color data is converted to black-and-white data to generate color-conscious smooth gradation.

ⓒ <NTSC>

Color data is converted to black-and-white data to generate appearances equivalent to television pictures (NTSC).

ⓓ <Uniform RGB>

Color data is converted to black-and-white data to equalize all RGB levels based on the brightness only.

NOTE

- This item is available when <Color Mode> (▶**Color Mode(P. 404)**) under <Print Quality> is set to <Black>.

PDF

0YS1-060

All the settings about PDF files available for USB Direct Print and Direct Print are listed with short descriptions. Default settings are marked with a dagger (†).

NOTE

Asterisks (*)

- Settings marked with an asterisk (*) are not displayed depending on other settings.

Fit to Paper Size(P. 468)   **Black Overprint(P. 474)**
Enlarge Print Area(P. 468)   **Brightness(P. 474)**
N on 1(P. 469)   **Halftones(P. 475)**
Comment Print(P. 469)   **Composite Overprint(P. 476)**
ICC Profile Settings(P. 469)   **Advanced Smoothing(P. 476)**
Pure Black Text(P. 473)   **Grayscale Conversion(P. 477)**

Fit to Paper Size

Specify whether to enlarge or reduce printouts according to the **Printable Area(P. 624)** of paper. The printouts are enlarged or reduced with the original aspect ratio kept.

> Off †
> On
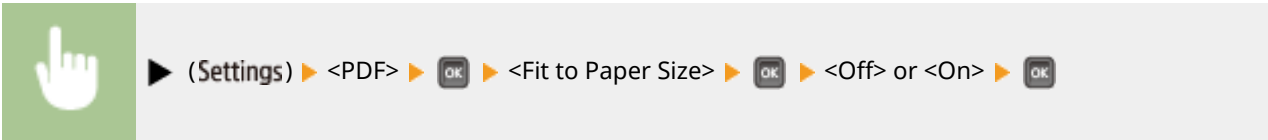
> ▶ (Settings) ▶ <PDF> ▶ 匡 ▶ <Fit to Paper Size> ▶ 匡 ▶ <Off> or <On> ▶ 匡

Enlarge Print Area

Specify whether or not to print the image by extending the **Printable Area(P. 624)** fully to the paper size.

> Off †
> On

> ▶ (Settings) ▶ <PDF> ▶ 匡 ▶ <Enlarge Print Area> ▶ 匡 ▶ <Off> or <On> ▶ 匡
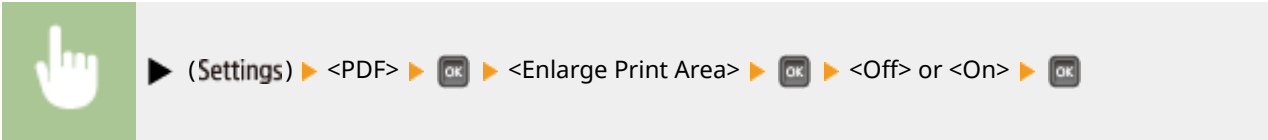
> **NOTE**
>
> ● If you select <On>, some portions of the image may be missing near the edge of the paper or the paper may be partly tainted depending on the original.

N on 1

Select whether to print multiple pages onto a single sheet at a reduced size by sequentially allocating them from the top left. For example, to print four pages onto a single sheet, select <4 on 1>.

Off †
2 on 1
4 on 1
6 on 1
8 on 1
9 on 1
16 on 1

 ▶ (Settings) ▶ <PDF> ▶ [OK] ▶ <N on 1> ▶ [OK] ▶ Select the aggregation method ▶ [OK]

Comment Print

Select whether to print comments. If you select <Auto>, comments in the PDF file are printed.

Off
Auto †

 ▶ (Settings) ▶ <PDF> ▶ [OK] ▶ <Comment Print> ▶ [OK] ▶ <Off> or <Auto> ▶ [OK]

ICC Profile Settings

Set the profile to be used when performing color matching and specify which element to be given priority over others.

RGB Source Profile

Select a suitable profile for RGB data that matches the monitor that you are using.

sRGB v3.0 (Canon) †
Canon HDTV gamma 1.5
Canon HDTV gamma 1.8
Canon HDTV gamma 2.4
None

▶ (Settings) ▶ <PDF> ▶ ⟨OK⟩ ▶ <ICC Profile Settings> ▶ ⟨OK⟩ ▶ <RGB Source Profile> ▶ ⟨OK⟩ ▶ Select the profile ▶ ⟨OK⟩

ⓐ <sRGB v3.0 (Canon)>

An RGB profile is used that is similar to an average profile of most Windows PC monitors. When using a monitor that supports sRGB, you can print colors close to the colors displayed on the monitor.

ⓑ <Canon HDTV gamma 1.5> to <Canon HDTV gamma 2.4>

When you want a brightness adjustment after making comparison between the printed colors and the colors displayed on the monitor, make a necessary setting here. The higher the value, the darker the printed colors.

ⓒ <None>

Performs color separation from RGB data to CMYK without applying any RGB source profile.

CMYK Sim. Profile

You can select a simulation target when printing CMYK data. The machine converts CMYK data to a device-dependent CMYK color model in accordance with the selected simulation target.

Euro Standard v1.00
JapanColor(Canon)
U.S. Web Coated v1.0
None †

▶ (Settings) ▶ <PDF> ▶ ⟨OK⟩ ▶ <ICC Profile Settings> ▶ ⟨OK⟩ ▶ <CMYK Sim. Profile> ▶ ⟨OK⟩ ▶ Select the profile ▶ ⟨OK⟩

ⓐ <Euro Standard v1.00>

Use the Euro Standard profile. Printing is performed in colors that are close to the European printing standards.

ⓑ <JapanColor(Canon)>

Use the JapanColor profile. Printing is performed in colors that are close to the Japanese printing standards.

ⓒ <U.S. Web Coated v1.0>

Use the U.S. Web Coated profile. Printing is performed in colors that are close to the U.S. printing standards.

ⓓ <None>

Prints CMYK data using a device-dependent CMYK color model without applying any CMYK simulation profile.

> **NOTE**
>
> - When this item is set to <None>, dark color gradation may collapse depending on the data.

Grayscale Profile

Set whether to convert gray data to CMYK data using the machine's grayscale profile.

Off †
On

▶ (Settings) ▶ <PDF> ▶ ⒪ⓚ ▶ <ICC Profile Settings> ▶ ⒪ⓚ ▶ <Grayscale Profile> ▶ ⒪ⓚ ▶ <Off> or <On> ▶ ⒪ⓚ

ⓐ <Off>

Prints only with K (black) toner without converting the data to CMYK data.

ⓑ <On>

Converts the data to CMYK data using the machine's grayscale profile. However, printing may be performed only with K (black) toner depending on the setting of <Output Profile> or <Pure Black Text>.

Output Profile

You can select suitable profiles for data that you are going to print. You can set this item for each of the types of image contained in one document.

Text
PS Normal
PS Photo
PS TR Normal
PS TR Photo †
Graphics

PS Normal

PS Photo

PS TR Normal

PS TR Photo †

Image

PS Normal

PS Photo

PS TR Normal

PS TR Photo †

 ▶ (Settings) ▶ <PDF> ▶ ▣ ▶ <ICC Profile Settings> ▶ ▣ ▶ <Output Profile> ▶ ▣ ▶ Select the image data type ▶ ▣ ▶ Select the profile ▶ ▣

ⓐ Image data type

Select the image data type for which the settings are changed. Select <Text> for characters, <Graphics> for lines and figures, or <Image> for images such as photos.

ⓑ <PS Normal>

Color matching is performed so that data is printed in colors close to the colors displayed on the monitor.

ⓒ <PS Photo>

Color matching is performed so that the print result is similar to photography.

ⓓ <PS TR Normal>

Color matching is performed so that data is printed in colors close to the colors displayed on the monitor and that bleeding of toner into text and fine lines is well controlled.

ⓔ <PS TR Photo>

Color matching is performed so that the print result is similar to photography and that bleeding of toner into text and fine lines is well controlled.

NOTE

This item is disabled when one of the following settings is made.

- <RGB Source Profile> is set to <None>.

- <CMYK Sim. Profile> is set to <None>.

- <Grayscale Profile> is set to <Off>.

472

Matching Method

Specify which element to be given priority over others in color matching by <RGB Source Profile>.

> Perceptual †
> Saturation
> Colorimetric

► (Settings) ► <PDF> ► OK ► <ICC Profile Settings> ► OK ► <Matching Method> ► OK ► Select the matching method ► OK

ⓐ <Perceptual>

Matching is performed with priority given to perceptual.

ⓑ <Saturation>

Matching is performed with priority given to saturation.

ⓒ <Colorimetric>

Matching is performed so that color difference between originals and printouts is minimized.

> **NOTE**
>
> ● This item is disabled when <RGB Source Profile> is set to <None>.

Pure Black Text

For black text whose color information defines "R=G=B=0%," "C=M=Y=100%," or "C=M=Y=0%/K=100%," select whether to print it with K (black) toner only or according to the setting of <Output Profile>.

> Off
> On †

► (Settings) ► <PDF> ► OK ► <Pure Black Text> ► OK ► <Off> or <On> ► OK

ⓐ <Off>

Prints according to the setting of <Output Profile>. The print result may be better than with <On> depending on the print data.

ⓑ <On>

Prints black text with K (black) toner only. Unlike printing with color (CMY) toner, color toner slurring around the edges will not occur. It is recommended that normally you use this setting.

Black Overprint *

Set how to print when black text is on a color background or color figure. This item is not displayed when <Pure Black Text> is set to <Off>.

Off
On †

▶ (Settings) ▶ <PDF> ▶ 🆗 ▶ <Black Overprint> ▶ 🆗 ▶ <Off> or <On> ▶ 🆗

ⓐ <Off>

First the data is printed after the black text is cut out from the color background or figure, leaving the corresponding white blank, and then the black text is printed on the white blank. The print may be fainter than with the <On> setting, and the edges of the text may be rimmed with white.

ⓑ <On>

First only the color background or figure is printed, and then the black text is printed onto the background or figure.

Brightness

You can adjust the brightness of the whole image in steps of 5%. The smaller the value, the brighter the image.

85 to 100 [†] to 115 (%)

> ▶ (Settings) ▶ <PDF> ▶ [ok] ▶ <Brightness> ▶ [ok] ▶ Use ▲ / ▼ to enter the setting value ▶ [ok]

Halftones

You can select the printing method to reproduce halftones (the intermediate range between the lighter and darker areas of an image).

Error Diffusion

You can perform finer printing than with <Resolution/Grad.>. This print mode is suitable for sharply printing edges of fine granularity data such as characters or thin lines.

Off [†]
On

> ▶ (Settings) ▶ <PDF> ▶ [ok] ▶ <Halftones> ▶ [ok] ▶ <Error Diffusion> ▶ [ok] ▶ <Off> or <On> ▶ [ok]

Resolution/Grad. *

Select the halftone reproduction method when <Error Diffusion> is set to <Off>. You can set this item for each of the types of image contained in one document.

Text
Resolution [†]
Gradation
Graphics
Resolution
Gradation [†]
Image
Resolution
Gradation [†]

> ▶ (Settings) ▶ <PDF> ▶ [ok] ▶ <Halftones> ▶ [ok] ▶ <Resolution/Grad.> ▶ [ok] ▶ Select the image data type ▶ [ok] ▶ <Resolution> or <Gradation> ▶ [ok]

a Image data type

Select the image data type for which the settings are changed. Select <Text> for characters, <Graphics> for lines and figures, or <Image> for images such as photos.

b <Resolution>

Performs fine printing by sharply reproducing the edges of characters. This print mode is suitable for printing data of characters and thin lines with a clear finish.

c <Gradation>

Prints gradation and lines with a smooth finish. This print mode is suitable for printing figures and charts with gradation.

Composite Overprint

Set whether CMYK data for which overprint is set is to be overprinted as composite data.

Off [†]
On

▶ (Settings) ▶ <PDF> ▶ [OK] ▶ <Composite Overprint> ▶ [OK] ▶ <Off> or <On> ▶ [OK]

NOTE

- Setting this item to <On> does not enable overprint if <CMYK Sim. Profile> is set to other than <None>.

Advanced Smoothing

Make settings for the smoothing mode that enables edges of lines, figures and text are printed smoothly.

Advanced Smoothing

Specify whether to enable or disable the smoothing mode. Edges will be smoother with <Smooth 2> than with <Smooth 1>.

Off
Smooth 1 [†]
Smooth 2

▶ (Settings) ▶ <PDF> ▶ [OK] ▶ <Advanced Smoothing> ▶ [OK] ▶ <Advanced Smoothing> ▶ [OK] ▶ Select the processing method ▶ [OK]

Graphics *

Specify whether to apply the smoothing mode to lines and figures when <Advanced Smoothing> is set to <Smooth 1> or <Smooth 2>.

Off †
On

▶ (Settings) ▶ <PDF> ▶ [OK] ▶ <Advanced Smoothing> ▶ [OK] ▶ <Graphics> ▶ [OK] ▶ <Off> or <On> ▶ [OK]

Text *

Specify whether to apply the smoothing mode to text when <Advanced Smoothing> is set to <Smooth 1> or <Smooth 2>.

Off
On †

▶ (Settings) ▶ <PDF> ▶ [OK] ▶ <Advanced Smoothing> ▶ [OK] ▶ <Text> ▶ [OK] ▶ <Off> or <On> ▶ [OK]

Grayscale Conversion *

You can select the method to convert color pint data to black-and-white data.

sRGB
NTSC †
Uniform RGB

▶ (Settings) ▶ <PDF> ▶ [OK] ▶ <Grayscale Conversion> ▶ [OK] ▶ Select the conversion method ▶ [OK]

ⓐ <sRGB>

Color data is converted to black-and-white data to generate color-conscious smooth gradation.

ⓑ <NTSC>

Color data is converted to black-and-white data to generate appearances equivalent to television pictures (NTSC).

ⓒ <Uniform RGB>

Color data is converted to black-and-white data to equalize all RGB levels based on the brightness only.

NOTE

- This item is available when <Color Mode> (▶**Color Mode(P. 404)**) under <Print Quality> is set to <Black>.

PS

0YS1-061

All the settings about the PS control commands are listed with short descriptions. Default settings are marked with a dagger (†).

NOTE

Asterisks (*)

- Settings marked with an asterisk (*) are not displayed depending on other settings.

Job Timeout

If the time specified in this item has elapsed since a job process was started, the machine automatically finishes the job and receives the next job.
If you do not want to specify the timeout, specify "0 seconds."

0 † to 3600 seconds

▶ (Settings) ▶ <PS> ▶ OK ▶ <Job Timeout> ▶ OK ▶ Use the numeric keys to enter the setting value ▶ OK

Print PS Errors

Specifies whether an error page should be printed when a PostScript error is occurring.

Off †
On

▶ (Settings) ▶ <PS> ▶ OK ▶ <Print PS Errors> ▶ OK ▶ <Off> or <On> ▶ OK

ICC Profile Settings

Set the profile to be used when performing color matching and specify which element to be given priority over others.

RGB Source Profile

Select a suitable profile for RGB data that matches the monitor that you are using.

sRGB v3.0 (Canon) †
Canon HDTV gamma 1.5
Canon HDTV gamma 1.8
Canon HDTV gamma 2.4
None

▶ (Settings) ▶ \<PS\> ▶ OK ▶ \<ICC Profile Settings\> ▶ OK ▶ \<RGB Source Profile\> ▶ OK ▶ Select the profile ▶ OK

ⓐ \<sRGB v3.0 (Canon)\>

An RGB profile is used that is similar to an average profile of most Windows PC monitors. When using a monitor that supports sRGB, you can print colors close to the colors displayed on the monitor.

ⓑ \<Canon HDTV gamma 1.5\> to \<Canon HDTV gamma 2.4\>

When you want a brightness adjustment after making comparison between the printed colors and the colors displayed on the monitor, make a necessary setting here. The higher the value, the darker the printed colors.

ⓒ \<None\>

Performs color separation from RGB data to CMYK without applying any RGB source profile.

CMYK Sim. Profile

You can select a simulation target when printing CMYK data. The machine converts CMYK data to a device-dependent CMYK color model in accordance with the selected simulation target.

Euro Standard v1.00
JapanColor(Canon)
U.S. Web Coated v1.0
None †

► (Settings) ► <PS> ► OK ► <ICC Profile Settings> ► OK ► <CMYK Sim. Profile> ► OK ► Select the profile ► OK

CMYK Sim. Profile
Euro Standard v1.00 — a
JapanColor(Canon) — b
U.S. Web Coated v1.0 — c
None — d

ⓐ <Euro Standard v1.00>

Use the Euro Standard profile. Printing is performed in colors that are close to the European printing standards.

ⓑ <JapanColor(Canon)>

Use the JapanColor profile. Printing is performed in colors that are close to the Japanese printing standards.

ⓒ <U.S. Web Coated v1.0>

Use the U.S. Web Coated profile. Printing is performed in colors that are close to the U.S. printing standards.

ⓓ <None>

Prints CMYK data using a device-dependent CMYK color model without applying any CMYK simulation profile.

NOTE

- When this item is set to <None>, dark color gradation may collapse depending on the data.

Grayscale Profile

Set whether to convert gray data to CMYK data using the machine's grayscale profile.

Off †
On

► (Settings) ► <PS> ► OK ► <ICC Profile Settings> ► OK ► <Grayscale Profile> ► OK ► <Off> or <On> ► OK

Grayscale Profile
Off — a
On — b

ⓐ <Off>

Prints only with K (black) toner without converting the data to CMYK data.

ⓑ <On>

Converts the data to CMYK data using the machine's grayscale profile. However, printing may be performed only with K (black) toner depending on the setting of <Output Profile> or <Pure Black Text>.

Output Profile

You can select suitable profiles for data that you are going to print. You can set this item for each of the types of image contained in one document.

Text

PS Normal

PS Photo

PS TR Normal

PS TR Photo †

Graphics

PS Normal

PS Photo

PS TR Normal

PS TR Photo †

Image

PS Normal

PS Photo

PS TR Normal

PS TR Photo †

▶ (Settings) ▶ <PS> ▶ 🆗 ▶ <ICC Profile Settings> ▶ 🆗 ▶ <Output Profile> ▶ 🆗 ▶ Select the image data type ▶ 🆗 ▶ Select the profile ▶ 🆗

ⓐ Image data type

Select the image data type for which the settings are changed. Select <Text> for characters, <Graphics> for lines and figures, or <Image> for images such as photos.

ⓑ <PS Normal>

Color matching is performed so that data is printed in colors close to the colors displayed on the monitor.

c <PS Photo>

Color matching is performed so that the print result is similar to photography.

d <PS TR Normal>

Color matching is performed so that data is printed in colors close to the colors displayed on the monitor and that bleeding of toner into text and fine lines is well controlled.

e <PS TR Photo>

Color matching is performed so that the print result is similar to photography and that bleeding of toner into text and fine lines is well controlled.

NOTE

This item is disabled when one of the following settings is made.

- <RGB Source Profile> is set to <None>.
- <CMYK Sim. Profile> is set to <None>.
- <Grayscale Profile> is set to <Off>.

Matching Method

Specify which element to be given priority over others in color matching by <RGB Source Profile>.

Perceptual †
Saturation
Colorimetric

▶ (**Settings**) ▶ <PS> ▶ [OK] ▶ <ICC Profile Settings> ▶ [OK] ▶ <Matching Method> ▶ [OK] ▶ Select the matching method ▶ [OK]
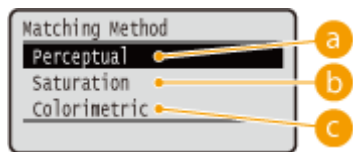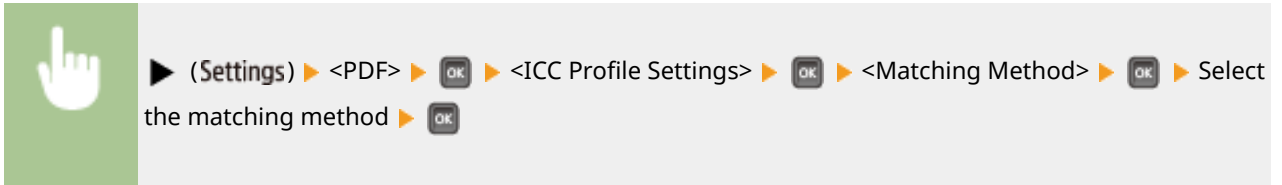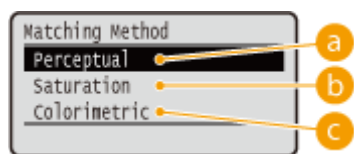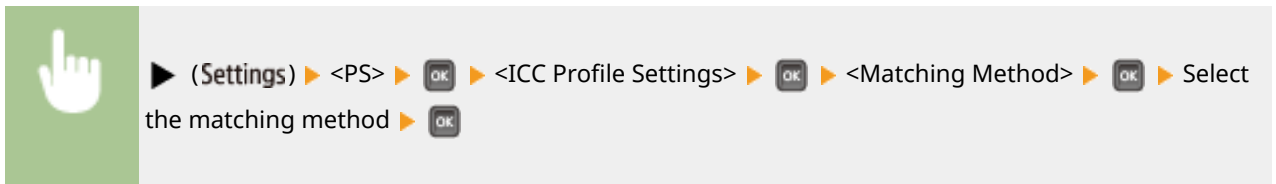
a <Perceptual>

Matching is performed with priority given to perceptual.

b <Saturation>

Matching is performed with priority given to saturation.

c <Colorimetric>

Matching is performed so that color difference between originals and printouts is minimized.

NOTE

- This item is disabled when <RGB Source Profile> is set to <None>.

Pure Black Text

For black text whose color information defines "R=G=B=0%," "C=M=Y=100%," or "C=M=Y=0%/K=100%," select whether to print it with K (black) toner only or according to the setting of <Output Profile>.

```
Off
On †
```

▶ (Settings) ▶ <PS> ▶ [OK] ▶ <Pure Black Text> ▶ [OK] ▶ <Off> or <On> ▶ [OK]

Pure Black Text
off ← ⓐ
On ← ⓑ

ⓐ <Off>

Prints according to the setting of <Output Profile>. The print result may be better than with <On> depending on the print data.

ⓑ <On>

Prints black text with K (black) toner only. Unlike printing with color (CMY) toner, color toner slurring around the edges will not occur. It is recommended that normally you use this setting.

Black Overprint *

Set how to print when black text is on a color background or color figure. This item is not displayed when <Pure Black Text> is set to <Off>.

```
Off
On †
```

▶ (Settings) ▶ <PS> ▶ [OK] ▶ <Black Overprint> ▶ [OK] ▶ <Off> or <On> ▶ [OK]

Black Overprint
off ← ⓐ
On ← ⓑ

ⓐ <Off>

First the data is printed after the black text is cut out from the color background or figure, leaving the corresponding white blank, and then the black text is printed on the white blank. The print may be fainter than with the <On> setting, and the edges of the text may be rimmed with white.

ⓑ <On>

First only the color background or figure is printed, and then the black text is printed onto the background or figure.

Brightness

You can adjust the brightness of the whole image in steps of 5%. The smaller the value, the brighter the image.

85 to 100 † to 115 (%)

🖐 ► (Settings) ► <PS> ► [OK] ► <Brightness> ► [OK] ► Use ▲ / ▼ to enter the setting value ► [OK]

Halftones

You can select the printing method to reproduce halftones (the intermediate range between the lighter and darker areas of an image).

Error Diffusion

You can perform finer printing than with <Resolution/Grad.>. This print mode is suitable for sharply printing edges of fine granularity data such as characters or thin lines.

Off †
On

🖐 ► (Settings) ► <PS> ► [OK] ► <Halftones> ► [OK] ► <Error Diffusion> ► [OK] ► <Off> or <On> ► [OK]

Resolution/Grad. *

Select the halftone reproduction method when <Error Diffusion> is set to <Off>. You can set this item for each of the types of image contained in one document.

Text
  Resolution †
  Gradation

Graphics
  Resolution
  Gradation †

Image
  Resolution
  Gradation †

▶ (Settings) ▶ <PS> ▶ OK ▶ <Halftones> ▶ OK ▶ <Resolution/Grad.> ▶ OK ▶ Select the image data type ▶ OK ▶ <Resolution> or <Gradation> ▶ OK

ⓐ Image data type

Select the image data type for which the settings are changed. Select <Text> for characters, <Graphics> for lines and figures, or <Image> for images such as photos.

ⓑ <Resolution>

Performs fine printing by sharply reproducing the edges of characters. This print mode is suitable for printing data of characters and thin lines with a clear finish.

ⓒ <Gradation>

Prints gradation and lines with a smooth finish. This print mode is suitable for printing figures and charts with gradation.

Composite Overprint

Set whether CMYK data for which overprint is set is to be overprinted as composite data.

Off †
On

486

> ▶ (**Settings**) ▶ <PS> ▶ 🆗 ▶ <Composite Overprint> ▶ 🆗 ▶ <Off> or <On> ▶ 🆗

NOTE

- Setting this item to <On> does not enable overprint if <CMYK Sim. Profile> is set to other than <None>.

Advanced Smoothing

Make settings for the smoothing mode that enables edges of lines, figures and text are printed smoothly.

Advanced Smoothing

Specify whether to enable or disable the smoothing mode. Edges will be smoother with <Smooth 2> than with <Smooth 1>.

> Off
> Smooth 1 †
> Smooth 2

> ▶ (**Settings**) ▶ <PS> ▶ 🆗 ▶ <Advanced Smoothing> ▶ 🆗 ▶ <Advanced Smoothing> ▶ 🆗 ▶ Select the processing method ▶ 🆗

Graphics *

Specify whether to apply the smoothing mode to lines and figures when <Advanced Smoothing> is set to <Smooth 1> or <Smooth 2>.

> Off †
> On

> ▶ (**Settings**) ▶ <PS> ▶ 🆗 ▶ <Advanced Smoothing> ▶ 🆗 ▶ <Graphics> ▶ 🆗 ▶ <Off> or <On> ▶ 🆗

Text *

Specify whether to apply the smoothing mode to text when <Advanced Smoothing> is set to <Smooth 1> or <Smooth 2>.

> Off
> On †

▶ (Settings) ▶ <PS> ▶ OK ▶ <Advanced Smoothing> ▶ OK ▶ <Text> ▶ OK ▶ <Off> or <On> ▶ OK

Grayscale Conversion *

You can select the method to convert color pint data to black-and-white data.

sRGB
NTSC †
Uniform RGB

▶ (Settings) ▶ <PS> ▶ OK ▶ <Grayscale Conversion> ▶ OK ▶ Select the conversion method ▶ OK

ⓐ <sRGB>
Color data is converted to black-and-white data to generate color-conscious smooth gradation.

ⓑ <NTSC>
Color data is converted to black-and-white data to generate appearances equivalent to television pictures (NTSC).

ⓒ <Uniform RGB>
Color data is converted to black-and-white data to equalize all RGB levels based on the brightness only.

NOTE

- This item is available when <Color Mode> (▶**Color Mode(P. 404)**) under <Print Quality> is set to <Black>.

MEAP Settings

0YS1-062
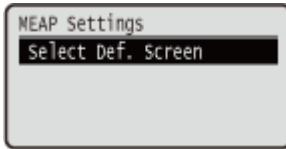
The setting items about the main screen on MEAP are listed with short descriptions. Default settings are marked with a dagger (†).

Select Def. Screen

You can specify the screen that appears on the display of the operation panel when the machine starts up.

| Print Screen † |
| MEAP |

▶ (Settings) ▶ <MEAP Settings> ▶ [OK] ▶ <Select Def. Screen> ▶ [OK] ▶ <Print Screen> or <MEAP> ▶ [OK]

ⓐ **<Print Screen>**
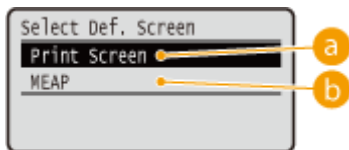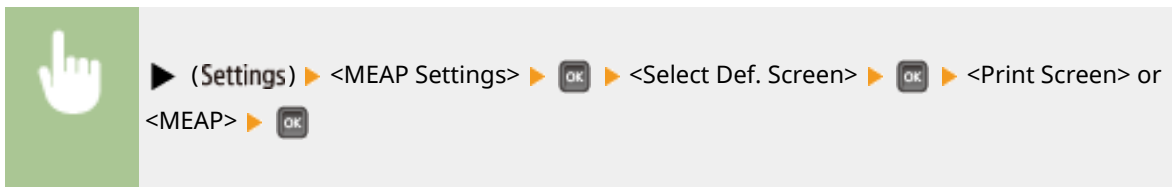
The print standby screen (main screen) is displayed.

ⓑ **<MEAP>**

The screen of an installed MEAP application is displayed if any installed.

NOTE

- You can press ▭ (Application) on the operation panel to change the screens of the display.

Check Counter

0YS1-063
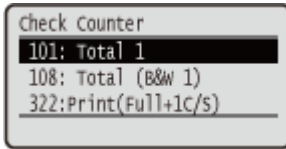
You can check the total number of printed pages.

> **NOTE**
>
> - You can also check the counter value by selecting <Check Counter> in the **Utility Menu(P. 492)** as well as this item.

101: Total 1

You can check the total number of pages printed.

(Display only)

108: Total (B&W 1)

You can check the number of pages printed in black and white.

(Display only)

322:Print(Full+1C/S)

You can check the number of pages printed in color (other than e-mail printing).

(Display only)

Initialize Menu

0YS1-064
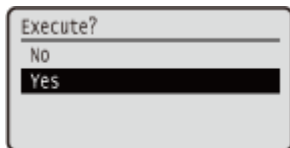
Select to restore the settings of the Setup menu listed below to the factory defaults.
▶Initializing Menu(P. 603)

> **NOTE**
>
> **Settings that cannot be initialized**
>
> - You cannot initialize the settings specified for <Network> and <Adj. Print Position>. When you want to initialize the <Network> settings, see **▶Initializing the Network Settings(P. 604)** . When you want to initialize the <Adj. Print Position> settings, manually restore them to the factory default settings (**▶Adj. Print Position(P. 421)**).

Utility Menu

0YS1-065
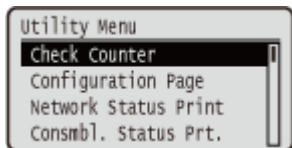
You can display the total number of printed pages and print internal system information. When you press ◀ (Utility) on the operation panel, the Utility menu is displayed. You can specify the settings described below when the machine is offline.

❯**Check Counter(P. 492)**
❯**Configuration Page(P. 492)**
❯**Network Status Print(P. 493)**
❯**Consmbl. Status Prt.(P. 493)**
❯**IPSec Policy List(P. 493)**
❯**Calibration(P. 493)**
❯**PCL Utility(P. 493)**
❯**PS Utility(P. 493)**
❯**Cleaning(P. 494)**

❯**Control Condensation(P. 494)**
❯**E-Mail Print Utility(P. 494)**
❯**Printing Pos. Print(P. 494)**
❯**Page Count List(P. 494)**
❯**Counter Report(P. 494)**
❯**Print MEAP Sys. Info(P. 494)**
❯**Serial Number(P. 495)**
❯**Consumables Info.(P. 495)**

Check Counter

You can check the total number of printed pages. ❯**Checking Total Number of Printed Pages(P. 597)**

> **NOTE**
>
> - You can also check the counter value by selecting <Check Counter> in the ❯**Setup Menu(P. 363)** as well as this item.

101: Total 1

You can check the total number of pages printed.

(Display only)

108: Total (B&W 1)

You can check the number of pages printed in black and white.

(Display only)

322:Print(Full+1C/S)

You can check the number of pages printed in color (other than e-mail printing).

(Display only)

Configuration Page

You can check the machine settings (❯**Setup Menu(P. 363)**) configured in the machine. You can also check other information including the amount of remaining toner, the number of printed pages, and the capacity of the memory (RAM) mounted on the machine. ❯**Configuration Page(P. 588)**

Network Status Print

Select to print a list of the settings (**◗Network(P. 379)**) about the network configured in the machine. You can also check the information about the security including the address filter settings and IPSec settings. **◗Network Status Print(P. 588)**

Consmbl. Status Prt.

The information such as toner remaining amount, warning messages, and information on where you can purchase new toner cartridges is printed out. **◗Consmbl. Status Prt.(P. 589)**

IPSec Policy List

Select to print a list of the IPSec policy names and settings (**◗Configuring IPSec Settings(P. 301)**) configured in the machine. **◗IPSec Policy List(P. 589)**

Calibration

When color mismatch occurs or when the colors have changed and the data is not printed in the correct colors (specified colors), you can perform calibration. **◗Correcting Color Mismatch and Hues(P. 581)**

Color Mismatch Corr.

Print color mismatch refers to a shift in the positions of colors that may occur when printing one image with multiple toner cartridges. When color mismatch occurs, correction can be made by adjusting the print start positions of the respective colors

Density Control

When the colors have changed and the data is not printed in the correct colors (specified colors), correction can be made by density control for the respective colors.

Full Calibration

Performs both <Color Mismatch Corr.> and <Density Control> simultaneously.

PCL Utility

Select to print a list of the internal information items registered in the machine for use of the PCL mode.

Font List

Select to print a list of the fonts that can be used in the PCL mode. **◗PCL Font List(P. 592)**

PS Utility

Select to print a list of the settings for use of the PS mode and the internal information items registered in the machine. **◗PS Mode List(P. 592)**

Configuration Page

Select to print a list of the machine settings (**◗PS(P. 479)**).

Font List

Select to print a list of the fonts that can be used in the PS mode.

Cleaning

Select to clean the fixing unit when black spots or streaks appear on printouts. ❯**Fixing Unit(P. 567)**

Control Condensation

If rapid temperature changes occur in the environment where the machine is installed, printed images or text may be lighter or smudged. In this case, executing this function may solve the problem. If the problems persist, execute the function repeatedly.

◀ (Utility) ▶ <Control Condensation> ▶ OK ▶ <Yes> ▶ OK
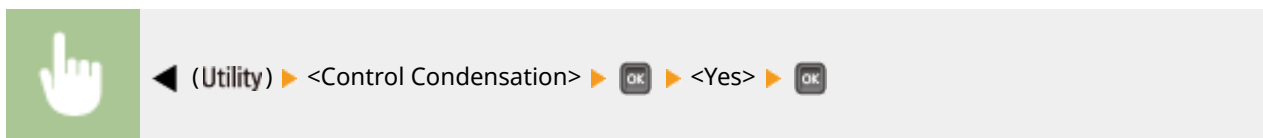
E-Mail Print Utility

Select to manually receive e-mails and print a log of received e-mails in list form.

Received E-Mail

Select to manually receive e-mails from the POP3 mail server and print them. ❯**Manually Receiving E-Mails(P. 165)**

E-Mail RX Log List

Select to print a log consisting of subjects and received date/time of e-mails received in the machine in list form. ❯**E-Mail Print Log(P. 595)**

Printing Pos. Print

Select to print marks that indicate the current print position. ❯**Adjusting Print Position(P. 584)**

Page Count List

Select to print a report on the number of printed pages for each department when Department ID Management is enabled. ❯**Page Count List(P. 590)**

Counter Report

Prints an aggregate report of the number of pages printed for each counter. ❯**Counter Report(P. 494)**

Print MEAP Sys. Info

Select to print a list of information about MEAP applications installed in the machine and the MEAP system applications when the MEAP function is enabled. ❯**Print MEAP Sys. Info(P. 591)**

Serial Number

Select to display the serial number of the machine.

◀ (Utility) ▶ <Serial Number> ▶ [OK]
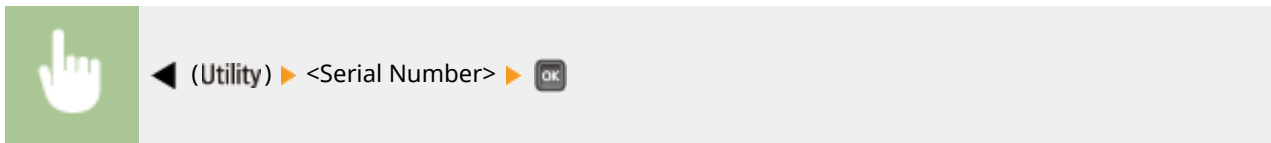
Consumables Info.

Select to display the information about such as the paper and toner cartridge.

Paper Information

Select to display the currently specified paper size and paper type, and the remaining paper level for each paper source. ◗**Checking Paper(P. 600)**

```
Multi-Purpose Tray
  LTR
  Mixed Types
  Remaining Paper: OK
```
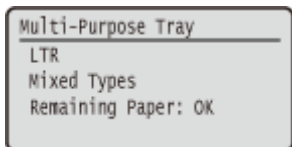
Toner Cart. Model

Select to display the model number of the toner cartridge for the machine. ◗**Checking the Toner Cartridge Model(P. 600)**

```
Cyan
Canon Cartridge 040 Cyan
```
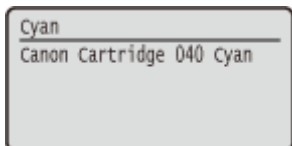
Remaining Toner

Select to display the amount of remaining toner. ◗**Checking the Amount of Remaining Toner(P. 601)**
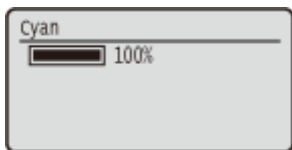
```
Cyan
 [=====] 100%
```

> **NOTE**
>
> - The displayed remaining toner level can be used only as a guide and may differ from the actual level.

Waste Toner cntnr.

You can display the model number of the waste toner container. ◗**Checking the Model Numbers of Waste Toner Container(P. 601)**

```
Waste Toner cntnr.
Waste Toner Box
WT-B1
```

Waste Toner Status

You can display the status of waste toner container. ❏**Checking the Status of Waste Toner Container(P. 601)**

```
Waste Toner Status
 OK
```

Job Menu

0YS1-066
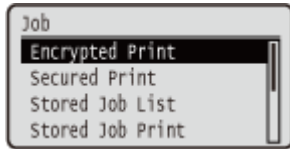
You can print documents stored in the SD card and a print log. When you press ▲ (Job) on the operation panel, the Job menu is displayed. You can specify the settings described below when the machine is offline.

NOTE

Asterisks (*)

- Settings marked with "*1" are not displayed depending on other settings or whether an optional SD card is installed on the machine.

- Settings marked with "*2" are not displayed when [Display Job Log] check box of the Remote UI is not selected. ◗**Hiding the Print Job History(P. 294)**

◗**Encrypted Print(P. 497)**
◗**Secured Print(P. 497)**
◗**Stored Job List(P. 497)**
◗**Stored Job Print(P. 497)**
◗**Job Print Log(P. 498)**
◗**Stored Job Print Log(P. 498)**
◗**Report Print Log(P. 498)**
◗**E-Mail Print Log(P. 498)**

Encrypted Print *1

Select to print encrypted documents that you sent to the machine from the computer. ◗**Printing Out Secured Documents(P. 132)**

Secured Print *1

Select to print secured documents that you sent to the machine from the computer. ◗**Printing Out Secured Documents(P. 132)**

Stored Job List *1

Select to print a list of documents stored in the SD card installed on the machine. ◗**Stored Job List(P. 594)**

Stored Job Print *1

Select to print documents stored in the SD card installed on the machine. ◗**Printing a Document Stored in the Machine(P. 138)**

Job Print Log *2

Select to print a log of documents printed from the computer in list from. **▶Job Print Log(P. 594)**

Stored Job Print Log *1*2

Select to print a print log of documents stored in the SD card installed on the machine in list form. **▶Stored Job Print Log(P. 594)**

Report Print Log *2

Select to print the settings and a print log of reports in list form. **▶Report Print Log(P. 595)**

E-Mail Print Log *2

Select to print a print log of received e-mails in list form. **▶E-Mail Print Log(P. 595)**

Reset Menu

0YS1-067
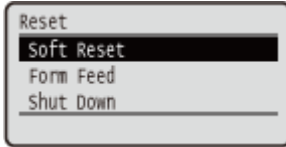
You can cancel all processes, delete data in memory, and turn OFF the power. When you press ▼ (Reset) on the operation panel, the Reset menu is displayed.

> **Soft Reset(P. 499)**
> **Form Feed(P. 500)**
> **Shut Down(P. 500)**

NOTE

- When the message Ennn-nnnn (n is a number) is displayed, only <Shut Down> can be executed.

Soft Reset

Select to erase all data of print jobs that are not yet finished (soft reset). You can also select this item to perform a hard reset for enabling the changed settings.

IMPORTANT

- Make sure to check that other users are not using the machine before performing a soft reset or hard reset, otherwise, all print data is erased before being printed.

■ Performing a Soft Reset

Perform a soft reset when you want to erase all print data that is being printed, waiting to be printed, or being received.

▼ (Reset) ▶ <Soft Reset> ▶ OK ▶ <Yes> ▶ OK
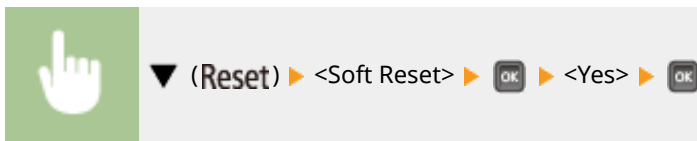
■ Performing a Hard Reset

Perform a hard reset when you want to enable the changed settings of machine or to erase data registered in memory of the machine.

1 Press ▼ (Reset).

NOTE:

- If the setting menu is displayed, first press ☐ (Online) to return to the main screen and then perform this step 1.

499

2 **Use ▲ / ▼ to select <Soft Reset>, press and hold ▣ for 5 seconds or more, and release it.**

```
Reset
  Soft Reset
  Form Feed
  Shut Down
```

➠ The message <Execute hard reset?> is displayed.

3 **Select <Yes>, and press ▣ .**

```
Execute hard reset?
  No
  Yes
```
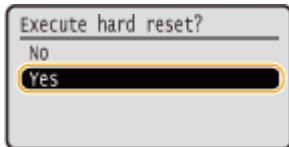
➠ When a hard reset is executed, the machine is restarted.

NOTE

- When a soft reset or hard reset is performed, secured documents stored in the optional SD card are also deleted.

Form Feed

If printing is canceled from the computer or the communication is interrupted during data reception, the data may remain in the memory of the machine, preventing the printing from finishing. The next print data cannot be printed with the remaining data left as is. In this case, select <Form Feed> to forcibly print the data remaining in memory.
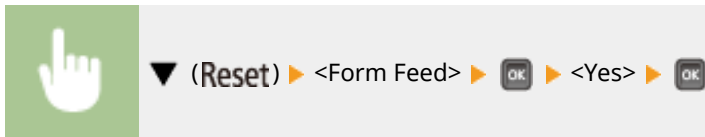
▼ (Reset) ▶ <Form Feed> ▶ ▣ ▶ <Yes> ▶ ▣

NOTE

- If the remaining data is not printed, perform a soft reset.

- If the data still remains in the memory of the machine after a form feed is performed (the [Job] indicator is lit on the machine), perform a soft reset.

Shut Down

When turning OFF the machine, shut down the machine from the operation panel without using the power switch. **○** **Turning OFF the Power (Performing a Shutdown)(P. 34)**

Select Feeder Menu

0YS1-068
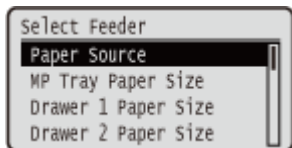
The settings about the paper source and the size of paper loaded in the machine are listed with short descriptions. When you press ⬛ (**Select Feeder**) on the operation panel, the Select Feeder menu is displayed. Default settings are marked with a dagger (†).

> **NOTE**
>
> **Common settings**
>
> - The settings are the same as those for <Paper Source> in the ❍**Setup Menu(P. 363)** . The settings specified here are also applied to the <Paper Source> settings.
>
> **Asterisks (*)**
>
> - Settings marked with an asterisk (*) are not displayed depending on other settings or whether an optional paper feeder is installed in the machine.

❍**Paper Source(P. 501)**
❍**MP Tray Paper Size(P. 501)**
❍**Drawer N Paper Size (N=1, 2, 3, 4)(P. 502)**
❍**Standard Paper Size(P. 503)**
❍**MP Tray Priority(P. 504)**
❍**MP Tray for Mix Ppr.(P. 504)**
❍**Auto Select Drawer(P. 504)**

❍**Auto Detect Ppr Type(P. 505)**
❍**Default Paper Type(P. 506)**
❍**MP Tray Paper Type(P. 507)**
❍**Drawer N Paper Type (N=1, 2, 3, 4)(P. 507)**
❍**Manual 2-Sided (MP)(P. 507)**
❍**2-Sided Printing(P. 508)**

Paper Source

Select the paper source from which paper is fed. When you want to automatically change the paper source based on the paper size and paper type, select <Auto>.

Auto †
Multi-Purpose Tray
Drawer 1
Drawer 2 *
Drawer 3 *
Drawer 4 *

👆 ⬛ (**Select Feeder**) ▶ <Paper Source> ▶ 🆗 ▶ Select the paper source ▶ 🆗

MP Tray Paper Size

Specify the size of the paper that is loaded in the multi-purpose tray. ❍**Specifying Paper Size and Type in the Multi-Purpose Tray(P. 60)**

```
A6
⬜ A5
⬛ A5R
B5
A4
LTR †
LGL
EXEC
Free Size
⬜ Custom Size
⬛ Custom Size R
Postcard
Reply Postcard
4on1 Postcard
Env. Nagagata3
Env. Younaga 3
Env. ISO-C5
Env. Monarch
Env. No.10
Env. DL
Index Card
STMT
FLSC
16K
```

Drawer N Paper Size (N=1, 2, 3, 4) *

Set the size of paper loaded in the machine's paper drawer or optional paper feeder's paper drawer (▶**Specifying Paper Size and Type in the Paper Drawer(P. 58)**).

Machine's Paper Drawer

```
A6
⬜ A5
⬛ A5R
B5
A4
LTR †
EXEC
Free Size
⬜ Custom Size
⬛ Custom Size R
STMT
16K
```

Paper Feeder's Paper Drawer

```
A6
⬜ A5
⬛ A5R
B5
```

A4
LTR †
LGL
EXEC
Free Size
⬜ Custom Size
⬜ Custom Size R
STMT
FLSC
16K

Standard Paper Size

You cannot perform paper size setting on a computer running an operating system or a mobile device that does not support any printer driver. If you want to print from such computer or mobile device, use this item to set the size of the paper to print on.

A6
A5
B5
A4
LTR †
LGL
EXEC
Postcard
Reply Postcard
4on1 Postcard
Env. Nagagata3
Env. Younaga 3
Env. ISO-C5
Env. Monarch
Env. No.10
Env. DL
Index Card
STMT
FLSC
16K

🖐 ▣ (**Select Feeder**) ▶ <Standard Paper Size> ▶ ⟨ok⟩ ▶ Select the paper size ▶ ⟨ok⟩
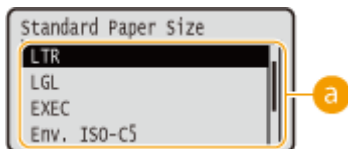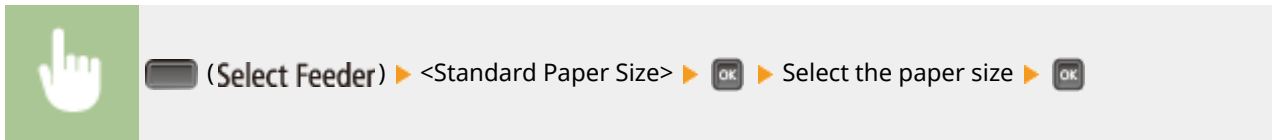
ⓐ **Selecting the paper size**

Specify the setting according to the size of the paper to print on.

503

MP Tray Priority

Select whether to prioritize paper feeding from the multi-purpose tray when <Paper Source> is set to <Auto>. If you select <On>, paper is fed from the multi-purpose tray when the same size paper is loaded in both the multi-purpose tray and the paper drawer.

Off †
On

(Select Feeder) ▶ <MP Tray Priority> ▶ OK ▶ <Off> or <On> ▶ OK
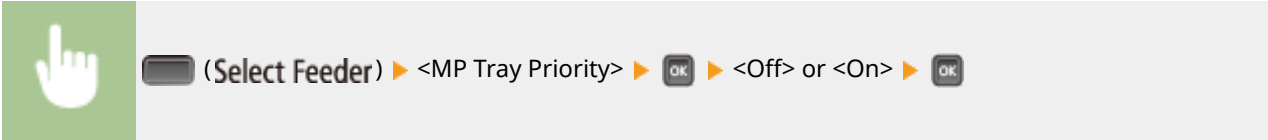
NOTE

- When <MP Tray for Mix Ppr.> is set to <On>, paper is preferentially fed from the paper drawer even if <MP Tray Priority> is set to <On>.

MP Tray for Mix Ppr.

If you select <On> with <Paper Source> set to <Auto>, the multi-purpose tray is automatically selected when appropriate size paper is not loaded in any paper drawer.

Off †
On

(Select Feeder) ▶ <MP Tray for Mix Ppr.> ▶ OK ▶ <Off> or <On> ▶ OK
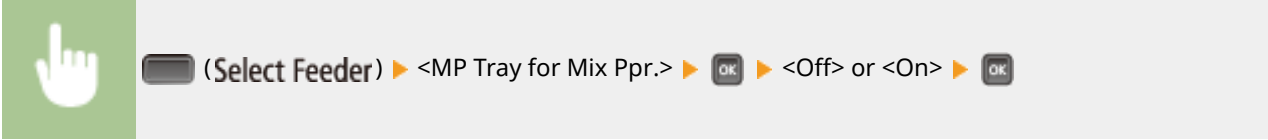
Auto Select Drawer

If you select <Use> with <Paper Source> set to <Auto>, the machine automatically selects the paper source with appropriate size paper loaded. Also, when the paper runs out, this setting enables continuous printing by switching from one paper source to another that is loaded with the same paper size.

Do Not Use
Use †

(Select Feeder) ▶ <Auto Select Drawer> ▶ OK ▶ Select the paper source ▶ OK ▶ <Do Not Use> or <Use> ▶ OK
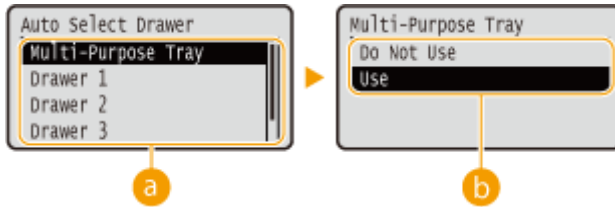
ⓐ Paper source selection

Select the paper source to which you want to apply the Auto Select Drawer function.

ⓑ Switching of the settings

Select <On> to enable automatic drawer selection for the paper source you selected on the previous screen (ⓐ).

Auto Detect Ppr Type

Specify whether to automatically detect the paper type when plain paper or heavy paper is loaded. To use this function, set the paper type for the paper source to <Mixed Types>. Also, set [Paper Type] in the printer driver to [Printer Default].
○Paper(P. 621)
○MP Tray Paper Type(P. 507)
○Drawer N Paper Type (N=1, 2, 3, 4)(P. 507)
○Basic Printing Operations(P. 73)

Multi-Purpose Tray
Do Not Use

First Sheet Only †

Each Sheet

Drawer 1
Do Not Use

Use †

Drawer 2 *
Do Not Use

Use †

Drawer 3 *
Do Not Use

Use †

Drawer 4 *
Do Not Use

Use †

(**Select Feeder**) ▶ <Auto Detect Ppr Type> ▶ [OK] ▶ Check the message ▶ [OK] ▶ Select the paper source ▶ [OK] ▶ Select the setting value ▶ [OK]

```
Auto Detect Ppr Type          Multi-Purpose Tray            Drawer 1
Multi-Purpose Tray            Do Not Use                   Do Not Use
Drawer 1                      First Sheet Only             Use
Drawer 2                      Each Sheet
Drawer 3
```

ⓐ　　　　　　　　　　ⓑ　　　　　　　　　　ⓒ
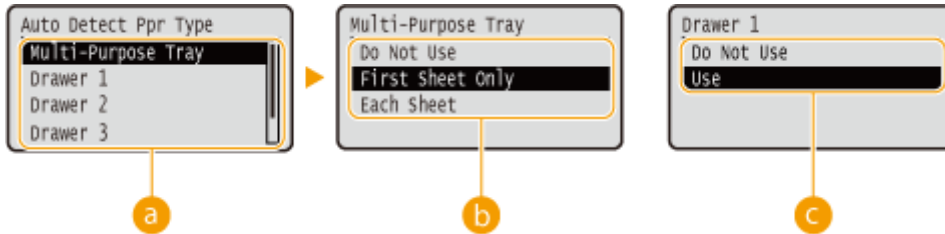
ⓐ Paper source selection

Select the paper source for which you want to make a setting concerning automatic paper type detection.

ⓑ Switching of the settings (Multi-Purpose Tray)

When <First Sheet Only> is specified, paper type detection is performed for the first sheet only. When <Each Sheet> is specified, paper type detection is performed for each sheet as it is fed.

ⓒ Switching of the settings (Drawer 1 to 4*)

When <Use> is specified, paper type detection is performed for the first sheet only.

NOTE

- When this function is enabled, the printing speed may be slower. When <Each Sheet> is specified, the printing speed will be slower.

- When this function is enabled, the machine may not be able to print properly. If the machine cannot print properly, set this function to <Do Not Use> and specify the paper type from the printer driver before trying printing again.

Default Paper Type

You cannot perform paper type setting on a computer running an operating system or a mobile device that does not support any printer driver. If you want to print from such computer or mobile device, use this item to set the type of the paper to print on.

Plain †
Plain L
Plain L2
Heavy 1
Heavy 2
Heavy 3
Heavy 4
Postcard
Envelope
Labels
Rough 1
Rough 2

🖐 ▭ (**Select Feeder**) ▶ <Default Paper Type> ▶ [OK] ▶ Select the paper type ▶ [OK]
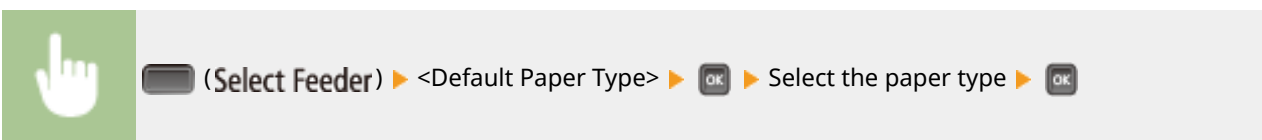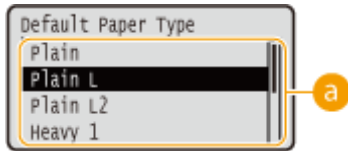
ⓐ Paper type selection

Specify the settings in the same way as the paper settings in the printer driver according to the paper type for printing. ◉**Loading Paper(P. 38)**

MP Tray Paper Type

Set the type of paper loaded in the multi-purpose tray. ◉**Specifying Paper Size and Type in the Multi-Purpose Tray(P. 60)**

Plain
Plain L
Plain L2
Heavy 1
Heavy 2
Heavy 3
Heavy 4
Postcard
Envelope
Rough 1
Rough 2
Mixed Types †

Drawer N Paper Type (N=1, 2, 3, 4) *

Set the type of paper loaded in the paper drawer. ◉**Specifying Paper Size and Type in the Paper Drawer(P. 58)**

Plain
Plain L
Plain L2
Heavy 1
Heavy 2
Heavy 3
Labels
Rough 1
Rough 2
Mixed Types †

Manual 2-Sided (MP)

Select the side of paper to print on when you want to perform 2-sided printing manually from the multi-purpose tray.

1st Side †
2nd Side

☞ (**Select Feeder**) ▶ <Manual 2-Sided (MP)> ▶ [OK] ▶ <1st Side> or <2nd Side> ▶ [OK]
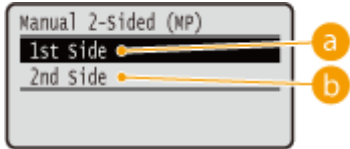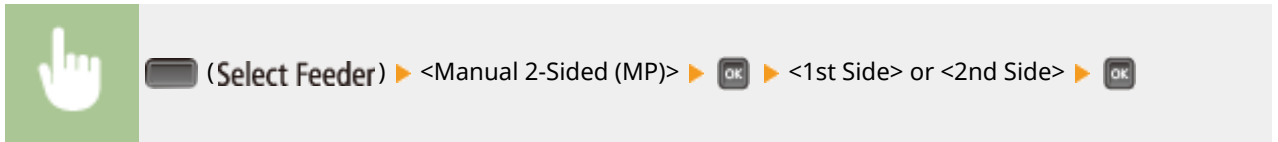
ⓐ <1st Side>

Select to print on the back side (the side to print first).

ⓑ <2nd Side>

Select to print on the front side (the opposite of the side that is already printed).

2-Sided Printing

Select whether to print on both sides of paper.

Off †
On

☞ (**Select Feeder**) ▶ <2-Sided Printing> ▶ [OK] ▶ <Off> or <On> ▶ [OK]
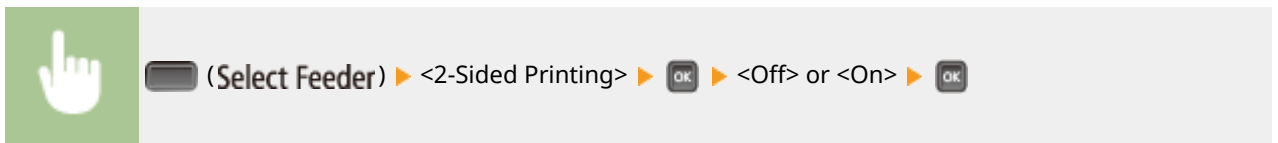
Troubleshooting

Troubleshooting

0YS1-069

When a problem occurs, check this chapter to find out solutions before contacting Canon.

■Paper Jams

If a paper jams, see ●**Clearing Jams(P. 512)** to remove the jammed paper.

■A Message Appears

If the screen displays a message, see ●**When an Error Message Appears(P. 520)** .

■Common Problems

If you suspect that the machine is malfunctioning, see the following sections before contacting Canon.

●**Common Problems(P. 542)**
●**Installation/Settings Problems(P. 543)**
●**Printing Problems(P. 546)**

■Printing Results are Not Satisfactory

If printing results are not satisfactory, see ●**When You Cannot Print Properly(P. 548)** .

■When a Problem Cannot Be Solved

If a problem persists, see ●**When a Problem Cannot Be Solved(P. 560)** to find out where to contact.

Clearing Jams

0YS1-06A

If a paper jam occurs, an alarm beep sound is generated and the <Paper is jammed.> message is displayed on the screen. Press ▶ to display simple solutions. If it is difficult to understand the procedures on the display, see the following sections to clear jams. If a paper jam occurs in multiple locations at the same time, check all messages that are displayed. Carefully read the precautions in ▶**Important Safety Instructions(P. 2)** before you start clearing paper jams.

Paper Jam Locations
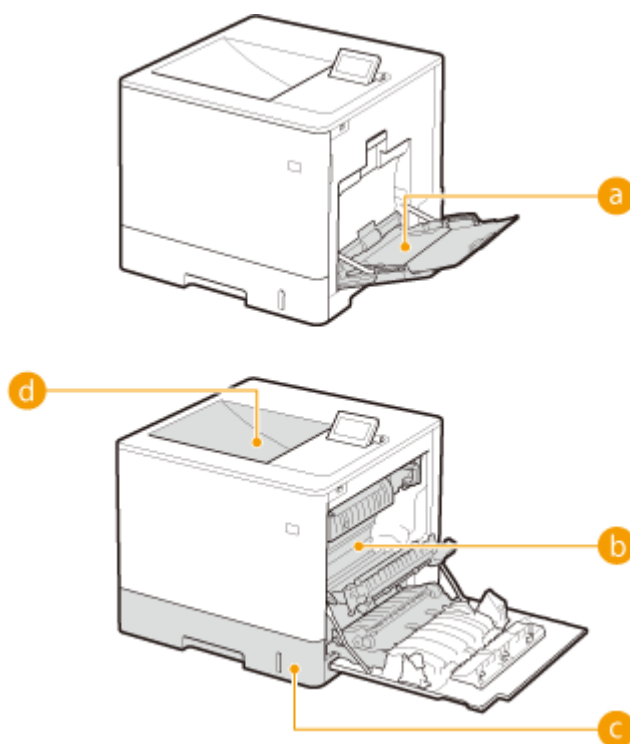
a Multi-purpose tray

▶**Paper Jams in the Multi-Purpose Tray(P. 513)**

b Right cover

c Paper drawer

▶**Paper Jams inside the Right Cover or in the Paper Drawer(P. 514)**

d Output tray

▶**Paper Jams in the Output Tray(P. 518)**

IMPORTANT

When removing the jammed paper, do not turn OFF the machine

- Turning OFF the machine deletes the data that is being printed.

If paper tears

- Remove all the paper fragments to prevent them from becoming jammed.

If paper jams repeatedly

- Tap the paper stack on a flat surface to even the edges of the paper before loading it into the machine.

- Check that the paper is appropriate for the machine. ▶**Paper(P. 621)**

- Check that no jammed paper fragments remain in the machine.

- If a paper jam occurs during printing on the back side of the paper that is already printed (manual 2-sided printing), select the [Print on the Other Side] check box in the [Paper Source] tab of the printer driver.

Do not forcibly remove the jammed paper from the machine

- Forcibly removing the paper may damage parts. If you are not able to remove the paper, contact your local authorized Canon dealer or the Canon help line. ○**When a Problem Cannot Be Solved(P. 560)**

Paper Jams in the Multi-Purpose Tray

If there is paper loaded in the tray, remove it first. If the jammed paper cannot be removed easily, do not forcibly pull it out, but follow the procedure for a different paper jam location indicated by the message.

1 Gently pull out the paper.

2 Close the tray.

3 Open the right cover.
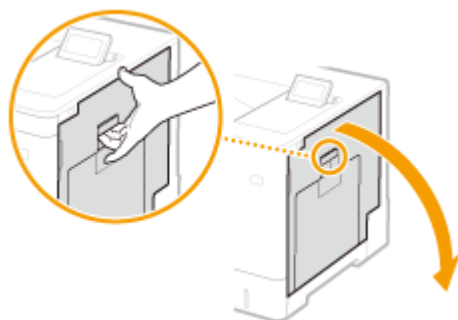
4 Gently pull out the paper.
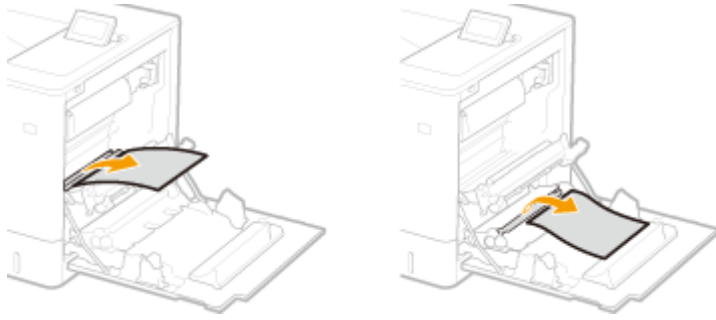
5 Close the right cover.

NOTE:

When the message is still displayed

- Paper may be jammed in other locations. Check other locations, and remove jammed paper if any. If the message is still displayed, check whether the right cover is securely closed.

Paper Jams inside the Right Cover or in the Paper Drawer

If there is paper loaded in the multi-purpose tray, remove it first, and close the tray. If the jammed paper cannot be removed easily, do not try to forcibly remove it but instead proceed to the next step.

1 Open the right cover.
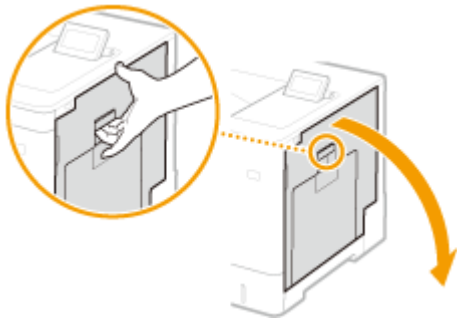
2 Remove the jammed paper in the delivery unit.

1 Lift up the delivery unit.
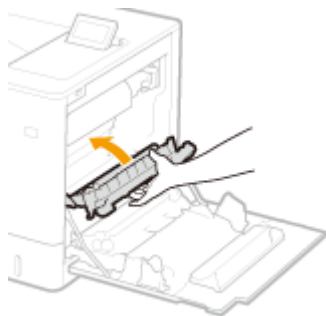
2 Lower the green levers on both sides of the transport guide.
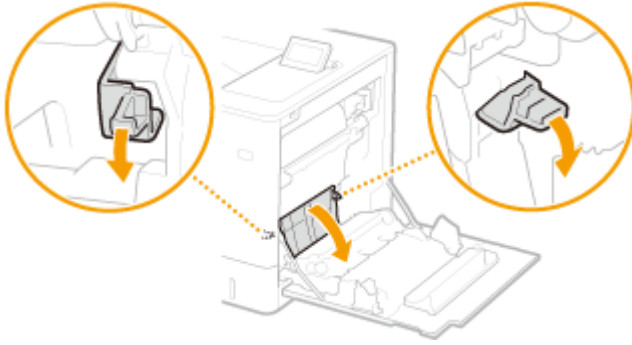
3   **Gently pull out the paper.**

- Pull out the paper while holding it as horizontally as possible to prevent unfixed toner from falling.
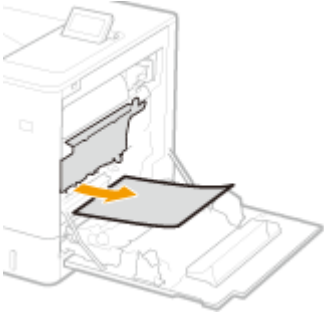
3 **Remove the jammed paper inside the duplex unit.**

1   **Open the cover.**
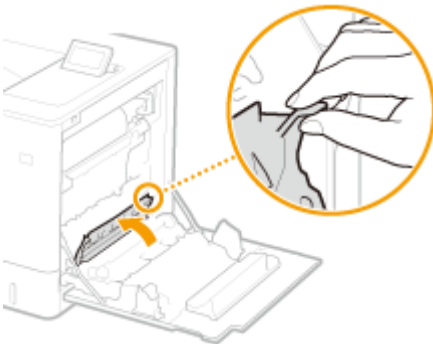
2   **Gently pull out the paper.**
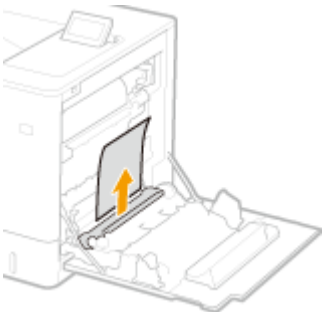
3   **Close the cover.**

▪Paper Jams in the Fixing Unit

1   **Turn the delivery unit downward.**
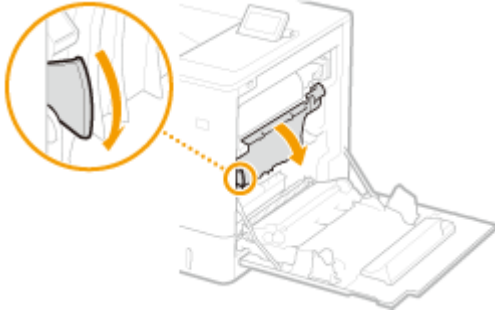
2 Hold the handles on both sides of the fixing unit, and pull out the fixing unit straight toward you.

3 Open the cover.
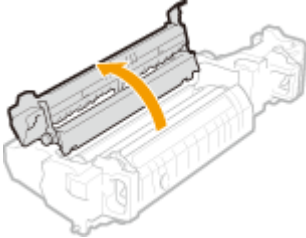
4 Gently pull out the paper.

- Pull out the paper while holding it as horizontally as possible to prevent unfixed toner from falling.
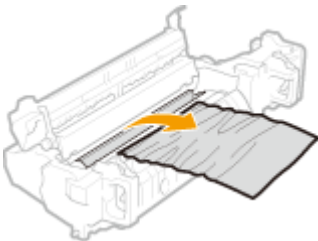
5 Close the cover.

6 Place the fixing unit back into position.

- Fully push it in until it cannot go any further.

4 Remove the jammed paper in the paper drawer.

1 Pull out the paper drawer until it stops.
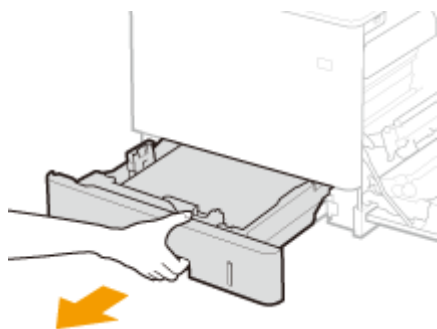
2 **Gently pull out the paper.**
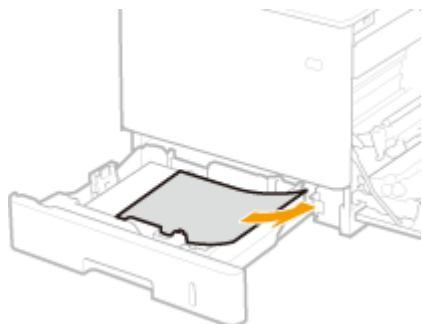
3 **Set the paper drawer.**

5 **Close the right cover.**

■When the Optional Paper Feeder Is Installed

1 **Open the right cover of the paper feeder.**
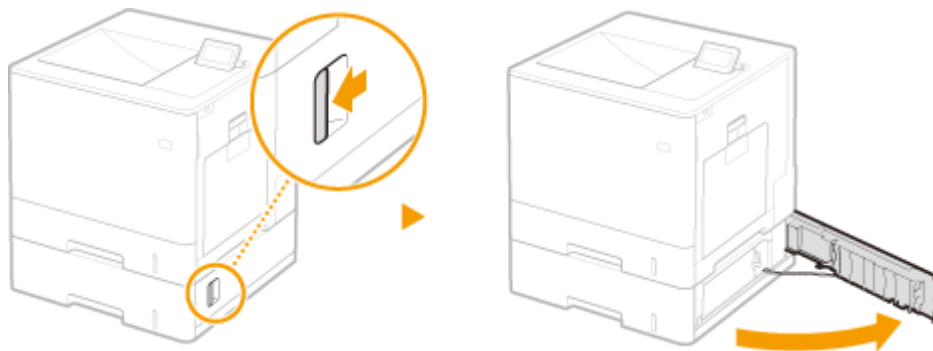
2 **Lower the green lever to open the transport guide.**
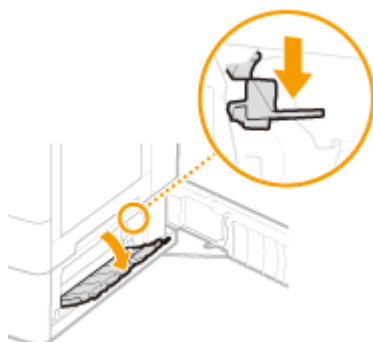
3 **Gently pull out the paper.**

4 **Pull out the paper drawer until it stops, and gently pull out the paper.**
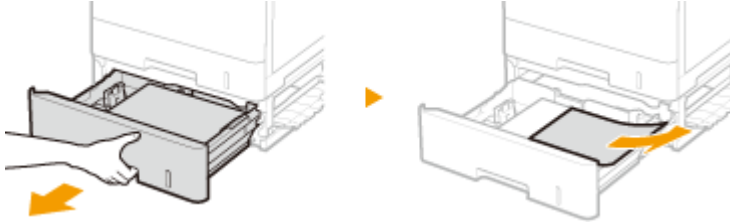
5 **Set the paper drawer.**

6 **Close the right cover of the paper feeder.**

> **NOTE:**
>
> **When the message is still displayed**
>
> - Paper may be jammed in other locations. Check other locations, and remove jammed paper if any. If the message is still displayed, check whether the right cover is securely closed.

Paper Jams in the Output Tray

If there is paper loaded in the multi-purpose tray, remove it first, and close the tray. If the jammed paper cannot be removed easily, do not try to forcibly remove it but instead proceed to the next step.

1 **Open the right cover.**
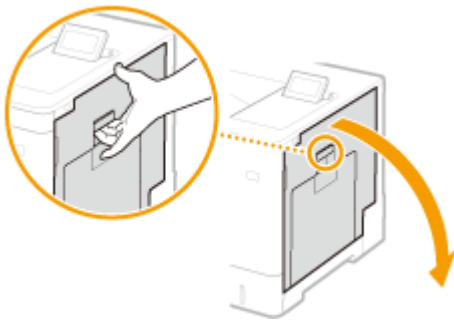
2 **Gently pull out the paper.**

- Determine in which way you can pull out the jammed paper more easily, and try that way first.
- Pull out the paper while holding it as horizontally as possible to prevent unfixed toner from falling.
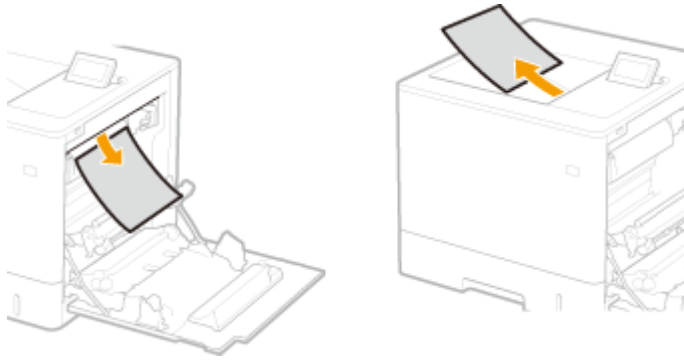
3 **Close the right cover.**

When the message is still displayed

- Paper may be jammed in other locations. Check other locations, and remove jammed paper if any. If the message is still displayed, check whether the right cover is securely closed.

When an Error Message Appears

0YS1-06C

If an abnormality occurs in the print processing or the memory is full, or you encounter operation problems, a message appears on the display. Find out more information about messages in the following list.

> **NOTE**
>
> **Auto Continue**
>
> - If you set <Auto Skip Error> to <On> in the setting menu of the operation panel, the printing is continued with the error skipped regarding the error messages marked with ▶▶ ⊞ in the list (▶**Auto Skip Error(P. 368)**). If the error skip causes missing print data or improper printouts, print the file again.
>
> **To cancel printing**
>
> - When you want to cancel the current printing regardless of the error message, perform a soft reset. ▶**Soft Reset(P. 499)**
>
> **About <Show Warnings>**
>
> - You can specify settings not to display some messages showing that printing can be continued. ▶**Show Warnings(P. 369)**

18 Drawer N overload. (N=2 to 4)

The paper loaded in the optional paper feeder exceeds the load limit.

- Load paper without exceeding the load limit line.
  ▶**Loading Paper in the Paper Drawer(P. 40)**

1F Output tray is full.

Too much paper is on the output tray.

- Remove the paper from the output tray.

51 Print settings error.

Printing data containing an unavailable paper type or width has been attempted.

- Press ▭ (Online) to cancel the print job since the data is not available for printing.

55 SD Card error. ▶▶ ⊞

An error has occurred in the SD card.

- Shut down the machine, remove the SD card, and install it again.
  ▶**Turning ON/OFF the Power(P. 34)**
  ▶**Installing an SD Card(P. 634)**

> **NOTE**

- You can press ▭ (〔Online〕) to continue printing, but <SD Card> will be changed to <Off>. ◉**SD Card(P. 372)**

56 SD Card error.

An error has occurred in the SD card.

- Shut down the machine, wait for 10 seconds or more, and turn ON the power again.
  ▶**Turning ON/OFF the Power(P. 34)**
- Format the SD card.
  ▶**SD Card Maintenance(P. 426)**

80 Initializing MEAP. Do not turn power OFF.

You have tried to shut down the machine while MEAP was being initialized.

- When the MEAP initialization is complete, this message is automatically removed. Wait until the message is removed.

80 Preparing MEAP... Do not turn power OFF.

You have tried to shut down the machine while MEAP was preparing for operation.

- When MEAP is ready for operation, this message is automatically removed. Wait until the message is removed.

A4 nn Error (nn: 2-digit alphanumeric)

An abnormality has occurred in the machine, resulting in malfunction.

- Shut down the machine, wait for 10 seconds or more, and turn ON the power again.
  ▶**Turning ON/OFF the Power(P. 34)**

A5 nn Error (nn: 2-digit alphanumeric)

An abnormality has occurred in the machine, resulting in malfunction.

- Shut down the machine, wait for 10 seconds or more, and turn ON the power again.
  ▶**Turning ON/OFF the Power(P. 34)**

A7 nn ERROR (nn: 2-digit alphanumeric)

An abnormality has occurred in the machine, resulting in malfunction.

- Shut down the machine, wait for 10 seconds or more, and turn ON the power again.
  ▶**Turning ON/OFF the Power(P. 34)**

Amount in cart. cannot be displ. correctly.

A toner cartridge may be set that cannot guarantee print quality because it has reached the end of its lifetime or for other reasons.

- Replacing the toner cartridge with a new one is recommended.
  ▶**Replacing Toner Cartridges(P. 568)**

The toner cartridge used may not be a genuine Canon product.

- Only genuine Canon toner cartridges should be used as replacement toner cartridges.
  Consumables(P. 626)

> **IMPORTANT**
>
> - You can continue printing when this message is displayed, but the print quality may deteriorate. Doing so may result in damage to the machine.

An error occurred while receiving. ▶▶ ▦

Unanalyzable data has been received or a timeout error has occurred during receipt of print data.

- Press [ ] (**Online**) to cancel the print job, and print the file again.
- Check the status of the network that you are using because the network may have a problem.

BT Clock error.

The clock built in the machine has a failure.

- You can continue printing with the clock left faulty, but logs including the print log will not be generated properly. Contact your local authorized Canon dealer.

C toner cartridge lifetime reached. Change recommended

The toner cartridge has reached the end of its lifetime.

- Replacing the toner cartridge with a new one is recommended.
  Replacing Toner Cartridges(P. 568)

> **IMPORTANT**
>
> - You can continue printing when this message is displayed, but the print quality may deteriorate.
> - Receiving e-mail and fax documents will be disabled. **Printing Received E-mail (E-Mail Print) (P. 160)**

C toner cartridge will soon reach lifetime.

The replacement time for the toner cartridge is near.

- Make sure that you have a replacement toner cartridge ready.
  Consumables(P. 626)
- Replace the toner cartridge if you see this message before you start to print a large job.
  Replacing Toner Cartridges(P. 568)

> **NOTE**
>
> - When the printing is stopped, you can press [ ] (**Online**) to continue printing.

Cannot decode data. ▶▶ ▦

Data for Encrypted Print has failed in analysis.

- Perform a soft reset, and print the file again.
  ⊙Soft Reset(P. 499)

NOTE

- When you press [ ] (**Online**), the print job is canceled.

Cannot decode PDF data.

An incorrect password has been entered for PDF data printing.

- Print the file again with the correct password.

PDF data printing is not permitted by the security settings.

- Change the settings to permit printing, and print the file again.

The PDF file is linked to the policy server, but the machine cannot access the server.

- Make sure that the policy server is turned ON and the network to which the machine and the policy server are connected is normal, and print the file again.

The encryption algorithm being used is not supported by the machine.

- Use the PDF data in the format supported by the machine.

NOTE

- The machine supports the PDF encryption algorithm of RC4 128bit/AES 128bit/AES 256bit.
- To remove the error message, perform a soft reset to cancel the print job. **⊙Soft Reset(P. 499)**

Cannot feed paper.

The specified paper size or paper type is not available for paper feeding.

- Set <Paper Source> to the paper source where the paper matching the specified paper size/type is loaded or to <Auto>.
  ⊙Paper Source(P. 501)
- Load the specified paper in the selected paper source.
  ⊙Loading Paper(P. 38)
- Properly specify the <Standard Paper Size> and <Default Paper Type> settings.
  ⊙Standard Paper Size(P. 503)
  ⊙Default Paper Type(P. 506)
- To forcibly print on the loaded paper, press [ ] (**Online**).

Cannot perform 2-Sided Printing. ▶▶ ▦

The machine has received print data for a paper size (including orientation) or paper type that is not available for automatic 2-sided printing.

- Perform a soft reset, specify the paper size or paper type available for automatic 2-sided printing, and print the file again.
  ⊙Soft Reset(P. 499)
  ⊙Paper(P. 621)

● You can press ☐ (Online) to continue printing. However, 2-sided printing data is printed on two sheets in 1-sided printing mode.

Cannot print with the specified resolution.▶▶▦

The data is too complicated to print.

● You can press ☐ (Online) to continue printing. However, the print quality is reduced.

Cannot print. Reg. Table is full.▶▶▦

The upper limit on the number of binders or documents in one print data item has been exceeded.

● The maximum number of binders and documents is 2 and 5, respectively, per print data item. Correct the data, and print the file again.

> **NOTE**
>
> ● When you press ☐ (Online), the print job is canceled.

Cannot read PDF data.

An abnormality has occurred during PDF data read.

● Use the PDF data in the format supported by the machine.

> **NOTE**
>
> ● The machine supports the PDF version 1.7.
> ● To remove the error message, perform a soft reset to cancel the print job. �**Soft Reset(P. 499)**

Cannot receive PDF data. Set the receivable size.▶▶▦

Free space is insufficient to perform Direct Print for the PDF file.

● Optimize the PDF file to reduce its size or retry printing after dividing the file.
● Install the SD card, and then resend the data to the machine.
  �**Installing an SD Card(P. 634)**
● Send the data from the USB memory device to the machine.
  �**Printing from USB Memory (USB Direct Print)(P. 118)**

> **NOTE**
>
> ● When you press ☐ (Online), the print job is canceled.

Cannot start printing because job is restricted.▶▶▦

Normal printing has been attempted while the printing operations are restricted.

● Only Stored Job Print is available while the printing operations are restricted. Print the file again with the settings to store data on the SD card.

◉**Storing a Document in the Machine(P. 136)**

NOTE

- When you press ▭ (Online), the print job is canceled.

Cannot store. ▶▶ ▦

The SD card is set to <Off>.

- Set <SD Card> to <On>, and send the print data again.
  ◉**SD Card(P. 372)**

The upper limit on the volume of data that can be stored on the SD card has been exceeded.

- A maximum of 1000 data items can be stored in the machine. Delete unnecessary stored data.
  ◉**Deleting a Document Stored in the Machine(P. 140)**

Free space of the SD card is insufficient.

- The SD card can store up to 3 GB of data in total. Delete unnecessary stored data.

An incorrect box number has been specified.

- Specify the correct box number.
  ◉**Storing a Document in the Machine(P. 136)**

NOTE

- When you press ▭ (Online), the print job is canceled.

Cannot verify. ▶▶ ▦

A department ID authentication error has occurred.

- Specify the correct department ID and password, and print the file again.
- If the print data does not support the department ID management, specify the setting to permit printing with an unknown department ID, and print the file again.
  ◉**Blocking Jobs When Department ID Is Unknown(P. 264)**

NOTE

- When you press ▭ (Online), the print job is canceled.

Change C toner cartridge recommended.

The toner cartridge has reached the end of its lifetime.

- Replacing the toner cartridge with a new one is recommended.
  ◉**Replacing Toner Cartridges(P. 568)**

IMPORTANT

- You can continue printing when this message is displayed, but the print quality may deteriorate.

● Receiving e-mail and fax documents will be disabled. **❍Printing Received E-mail (E-Mail Print) (P. 160)**

Change K toner cartridge recommended.

The toner cartridge has reached the end of its lifetime.

● Replacing the toner cartridge with a new one is recommended.
❍Replacing Toner Cartridges(P. 568)

> **IMPORTANT**
>
> ● You can continue printing when this message is displayed, but the print quality may deteriorate.
>
> ● Receiving e-mail and fax documents will be disabled. **❍Printing Received E-mail (E-Mail Print) (P. 160)**

Change M toner cartridge recommended.

The toner cartridge has reached the end of its lifetime.

● Replacing the toner cartridge with a new one is recommended.
❍Replacing Toner Cartridges(P. 568)

> **IMPORTANT**
>
> ● You can continue printing when this message is displayed, but the print quality may deteriorate.
>
> ● Receiving e-mail and fax documents will be disabled. **❍Printing Received E-mail (E-Mail Print) (P. 160)**

Change waste t. ctn.

The waste toner container is full.

● Replace the waste toner container with a new one.
❍Consumables(P. 626)
❍How to Replace the Waste Toner Container(P. 574)

Change waste toner container.

The waste toner container is full.

● Replace the waste toner container with a new one.
❍Consumables(P. 626)
❍How to Replace the Waste Toner Container(P. 574)

Change Y toner cartridge recommended.

The toner cartridge has reached the end of its lifetime.

● Replacing the toner cartridge with a new one is recommended.
❍Replacing Toner Cartridges(P. 568)

> **IMPORTANT**
>
> - You can continue printing when this message is displayed, but the print quality may deteriorate.
> - Receiving e-mail and fax documents will be disabled. **○Printing Received E-mail (E-Mail Print) (P. 160)**

Check paper size.

The paper loaded in the paper source does not match the specified paper size.

- Specify the paper size correctly.
  ○Specifying Paper Size and Type in the Paper Drawer(P. 58)
  ○Specifying Paper Size and Type in the Multi-Purpose Tray(P. 60)
  ○Basic Printing Operations(P. 73)

When the paper size was set to <Free Size>, printing has been attempted with the custom size paper of which long edge is 8 1/2" (215.9 mm) or less loaded in landscape orientation (only during use of the UFR II printer driver).

- Load the paper in portrait orientation, and print the file again.

Printing has been attempted with the custom size paper loaded in portrait orientation without the UFR II printer driver used.

- Load the paper in landscape orientation, and print the file again.

<Check Paper Size> is set to <On>.

- Set <Check Paper Size> to <Off>, and print the file again.
  ○Check Paper Size(P. 423)

Check paper type.

An attempt was made to print on an unprintable type of paper.

- Check the type of the currently loaded paper, replace it with a printable type of paper if necessary, and try printing again.
  ○Paper(P. 621)
- If this message appears even after you find no problem with the paper type, set <Auto Detect Ppr Type> to <Do Not Use>, and specify the paper type from the printer driver before trying printing again.
  ○Auto Detect Ppr Type(P. 505)
  ○Basic Printing Operations(P. 73)

Check the location where the C toner cartridge is set.

A toner cartridge is not set in order.

- Check the color of the toner cartridge, and set the cartridge properly.
  ○How to Replace Toner Cartridges(P. 571)

Check the location where the K toner cartridge is set.

A toner cartridge is not set in order.

- Check the color of the toner cartridge, and set the cartridge properly.
  ○How to Replace Toner Cartridges(P. 571)

Check the location where the M toner cartridge is set.

A toner cartridge is not set in order.

- Check the color of the toner cartridge, and set the cartridge properly.
  How to Replace Toner Cartridges(P. 571)

Check the location where the Y toner cartridge is set.

A toner cartridge is not set in order.

- Check the color of the toner cartridge, and set the cartridge properly.
  How to Replace Toner Cartridges(P. 571)

Consmbl. status print. Press Utility key.

A warning message about toner cartridge has been issued.

- Check the message by Consumables Status Print.
  Consmbl. Status Prt.(P. 589)

D7 nn Error (nn: 2-digit alphanumeric)

An abnormality has occurred in the machine, resulting in malfunction.

- Shut down the machine, wait for 10 seconds or more, and turn ON the power again.
  Turning ON/OFF the Power(P. 34)

D8 nn Error (nn: 2-digit alphanumeric)

An abnormality has occurred in the machine, resulting in malfunction.

- Shut down the machine, wait for 10 seconds or more, and turn ON the power again.
  Turning ON/OFF the Power(P. 34)

D9 nn Error (nn: 2-digit alphanumeric)

An abnormality has occurred in the machine, resulting in malfunction.

- Shut down the machine, wait for 10 seconds or more, and turn ON the power again.
  Turning ON/OFF the Power(P. 34)

Data receiving error.

When you are using a printer driver other than the supplied one, [Dedicated Port Authentication Method] of the Remote UI is set to [Mode 2].

- When you are using a printer driver that allows you to select the authentication mode for Department ID Management and Secured Print, select Mode 2.

- When you are using a printer driver that does not allow you to select the authentication mode, set [Dedicated Port Authentication Method] of the Remote UI to [Mode 1].

Log on to the Remote UI in Management Mode (**○Starting Remote UI(P. 336)**) ▶ [Settings/ Registration] ▶ [Network] ▶ [Dedicated Port Settings] ▶ [Edit] ▶ Select [Mode 1] in [Authentication Method] ▶ [OK] ▶ Perform a hard reset (**○Performing a Hard Reset(P. 499)**)

NOTE

- Pressing (**Online**) cancels the print job.

E001-nnnn (n: Number)

An error has occurred in the fixing unit.

- Write down the error code, hold down the power switch for 5 seconds or more to turn OFF the power, unplug the power plug from the AC outlet, and then contact your local authorized Canon dealer.

IMPORTANT

Do not turn ON the power

- When this message appears, never turn ON the power after turning it OFF.

E003-nnnn (n: Number)

An error has occurred in the fixing unit.

- Write down the error code, hold down the power switch for 5 seconds or more to turn OFF the power, unplug the power plug from the AC outlet, and then contact your local authorized Canon dealer.

IMPORTANT

Do not turn ON the power

- When this message appears, never turn ON the power after turning it OFF.

E004-nnnn (n: Number)

An error has occurred in the fixing unit.

- Write down the error code, hold down the power switch for 5 seconds or more to turn OFF the power, unplug the power plug from the AC outlet, and then contact your local authorized Canon dealer.

IMPORTANT

Do not turn ON the power

- When this message appears, never turn ON the power after turning it OFF.

E1 Prep waste toner ctn.

The replacement time for the waste toner container is near.

- Make sure that you have a replacement waste toner container ready.
  ⊙Consumables(P. 626)
  ⊙How to Replace the Waste Toner Container(P. 574)

EM E-Mail access error.

Connection was unable to be established due to an error on the SD card.

- The SD card may be broken. Replace the SD card with a new one.

EM POP3 server error.

The machine could not connect to the POP3 server during E-Mail Print or the POP3 server settings are not configured properly.

- Use the Remote UI or Network Status Print to check the error information.
  ⊙Checking Error Information(P. 348)

Ennn-nnnn (n: Number)

An error has occurred in an internal mechanism of the machine.

- Hold down the power switch for 5 seconds or more to turn OFF the power, wait for 10 seconds or more, and turn ON the power again.

- If the machine does not operate normally even after the power is turned ON again, write down the error code, hold down the power switch for 5 seconds or more to turn OFF the power, unplug the power plug from the AC outlet, and then contact your local authorized Canon dealer.

Error. Non-Canon cart. not cov'd by warranty.

A toner cartridge may not be installed correctly or may be faulty.

- Re-install the toner cartridge. If re-installing the toner cartridge fails to clear the error message, the toner cartridge may be faulty. Contact the store where you purchased the toner cartridge or consult the Canon Customer Help Center.
  ⊙How to Replace Toner Cartridges(P. 571)

The toner cartridge used may not be a genuine Canon product.
- Only genuine Canon toner cartridges should be used as replacement toner cartridges.
  ⊙Consumables(P. 626)

Error. Non-Canon cart. not covered by warranty.

A toner cartridge may not be installed correctly or may be faulty.

- Re-install the toner cartridge. If re-installing the toner cartridge fails to clear the error message, the toner cartridge may be faulty. Contact the store where you purchased the toner cartridge or consult the Canon Customer Help Center.
  ⊙How to Replace Toner Cartridges(P. 571)

The toner cartridge used may not be a genuine Canon product.
- Only genuine Canon toner cartridges should be used as replacement toner cartridges.

◉**Consumables(P. 626)**

FD Check firmware.

There is a mismatch in the updated firmware.

● Try updating the firmware once again. If the problem cannot be resolved, contact your local authorized Canon dealer.
◉**Update Firmware(P. 431)**

Google Cloud Print not avail. Server auth err

Server authentication for Cloud Print failed. Or, acquisition of information for registration failed.

● Check whether the date and time settings are correctly specified.
◉**Date/Time Settings(P. 370)**

The CA certificate does not exist or has become invalid. Or the CA certificate has expired.

● Check whether the CA certificate settings are correct.
◉**Verifying Key Pairs and Digital Certificates(P. 332)**

Google Cloud Print not avail. Server comm err

Cloud Print is unavailable due to an error.

● Check whether the machine is correctly connected to a wired LAN.
◉**Connecting to a Wired LAN(P. 188)**

● A port that is used for Cloud Print may be blocked by a firewall or other protection. Check whether the 5222 port is available with your computer.

● If a proxy server is used on the network, check whether the proxy settings on the machine and the server are correct. For details, contact your Network Administrator.
◉**Setting a Proxy(P. 277)**

IE An unknown error has occurred.

An error with an unidentified cause has occurred during IEEE802.1X authentication.

● Perform a hard reset or restart the machine.
◉**Performing a Hard Reset(P. 499)**

IE Cannot analyze the certificate.

Analysis of the certificate received from the authentication server has failed during IEEE802.1X authentication.

● Check the certificate of the authentication server.

IE Change the password.

The password used for IEEE802.1X authentication has expired.

● Change the password registered in the authentication server, and update the password for IEEE802.1X authentication.
◉**Configuring IEEE 802.1X Authentication(P. 312)**

IE Check auth. settings

The IEEE802.1X authentication method differs between the machine and the authentication server.

- Select the correct IEEE802.1X authentication method.
  ❯**Configuring IEEE 802.1X Authentication(P. 312)**

IE No reply from the destination.

An error has occurred during communication for IEEE802.1X authentication with the authentication server.

- Check whether the LAN cable is securely connected.

IE Set necessary authentication info.

The information specified for IEEE802.1X authentication is not sufficient.

- Check the IEEE802.1X settings, and specify the settings properly.
  ❯**Configuring IEEE 802.1X Authentication(P. 312)**

IE Set the correct authentication info.

An error has been returned from the authentication server because the certificate to be used for IEEE802.1X authentication is not specified or it is invalid.

- The certificate to be used for TLS authentication is not specified or it is invalid. Check the certificate, and specify the valid certificate.
  ❯**Configuring IEEE 802.1X Authentication(P. 312)**
- If the certificate in the machine is valid, check the CA certificate of the authentication server.

The login name to be used for IEEE802.1X authentication is not specified.

- The login name to be used for IEEE802.1X authentication is not specified. Specify the login name.

IE The certificate has expired.

The certificate received from the authentication server has been found to have expired during IEEE802.1X authentication.

- Check the certificate of the authentication server.
- Check the time settings in the machine and authentication server.
  ❯**Date/Time Settings(P. 370)**

IE The certificate is incorrect.

An error has occurred as a result of verification of the certificate received from the authentication server by using the CA certificate during IEEE802.1X authentication.

- Check the certificate of the authentication server.
- Install the CA certificate in the machine.
  ❯**Using CA-issued Key Pairs and Digital Certificates(P. 329)**

IEEE802.1X error. Set the necessary auth. information.

The information specified for IEEE802.1X authentication is not sufficient.

- Check the IEEE802.1X settings, and specify the settings properly.

◯**Configuring IEEE 802.1X Authentication(P. 312)**

Image browse data error.

The TIFF data contains data that the machine cannot process while receiving.

- Set <TIFF Spooler> to <On>, and print the file again. If the file size exceeds 40 MB, install an SD card.
  ◯**TIFF Spooler(P. 449)**
  ◯**Installing an SD Card(P. 634)**
- Because the data cannot be printed, press [ ] (Online) to cancel the print job.

Image data error.

The TIFF or JPEG data contains data that is not available for the machine.

- Because the data cannot be printed, press [ ] (Online) to cancel the print job.

Insert C toner cartridge.

The toner cartridge is not set or properly set.

- Properly set the toner cartridge.
  ◯**How to Replace Toner Cartridges(P. 571)**

Insert fixing unit.

The fixing unit is not installed at all, or not installed properly.

- Open the right cover and check if the fixing unit is installed properly. If the message appears even after installing the fixing unit properly, contact your local authorized Canon dealer.

Insert K toner cartridge.

The toner cartridge is not set or properly set.

- Properly set the toner cartridge.
  ◯**How to Replace Toner Cartridges(P. 571)**

Insert M toner cartridge.

The toner cartridge is not set or properly set.

- Properly set the toner cartridge.
  ◯**How to Replace Toner Cartridges(P. 571)**

Insert Y toner cartridge.

The toner cartridge is not set or properly set.

- Properly set the toner cartridge.
  ◯**How to Replace Toner Cartridges(P. 571)**

K toner cartridge lifetime reached. Change recommended

The toner cartridge has reached the end of its lifetime.

- Replacing the toner cartridge with a new one is recommended.

◗**Replacing Toner Cartridges(P. 568)**

> **IMPORTANT**
>
> - You can continue printing when this message is displayed, but the print quality may deteriorate.
> - Receiving e-mail and fax documents will be disabled. ◗**Printing Received E-mail (E-Mail Print) (P. 160)**

K toner cartridge will soon reach lifetime.

The replacement time for the toner cartridge is near.

- Make sure that you have a replacement toner cartridge ready.
  ◗**Consumables(P. 626)**
- Replace the toner cartridge if you see this message before you start to print a large job.
  ◗**Replacing Toner Cartridges(P. 568)**

> **NOTE**
>
> - When the printing is stopped, you can press ⬜ (Online) to continue printing.

Key management file is corrupt or deleted.

Files related to key management are damaged.

- Restart the machine, regenerate or reinstall the key and certificate, and then specify the TLS settings.
  ◗**Turning ON/OFF the Power(P. 34)**
  ◗**Specifying the TLS Encrypted Communication (P. 254)**
  ◗**Configuring Settings for Key Pairs and Digital Certificates(P. 318)**

> **NOTE**
>
> - While this error message is displayed, the machine cannot be connected from the Remote UI until it is restarted.

Load paper.

The paper of the size specified to print is not loaded in the paper source.

- Load the appropriate paper in the selected paper source.
  ◗**Loading Paper(P. 38)**
- Select the paper source loaded with the paper of the size specified to print or of a size larger than that.
  ◗**Paper Source(P. 501)**

M toner cartridge lifetime reached. Change recommended

The toner cartridge has reached the end of its lifetime.

- Replacing the toner cartridge with a new one is recommended.
  ◗**Replacing Toner Cartridges(P. 568)**

IMPORTANT

- You can continue printing when this message is displayed, but the print quality may deteriorate.
- Receiving e-mail and fax documents will be disabled. ○**Printing Received E-mail (E-Mail Print) (P. 160)**

M toner cartridge will soon reach lifetime.

The replacement time for the toner cartridge is near.

- Make sure that you have a replacement toner cartridge ready.
  ○**Consumables(P. 626)**
- Replace the toner cartridge if you see this message before you start to print a large job.
  ○**Replacing Toner Cartridges(P. 568)**

NOTE

- When the printing is stopped, you can press ▢ (Online) to continue printing.

mDNS settings updated. Turn main power OFF/ON

The mDNS settings has been changed when the machine was operating.

- Perform a hard reset or restart the machine.
  ○**Performing a Hard Reset(P. 499)**

No Paper: Drawer N (N=1 to 4)

Paper is not loaded in the paper drawer.

- As the specified paper size and type are displayed, load appropriate paper.
  ○**Loading Paper in the Paper Drawer(P. 40)**

Non-Canon cart. not covered by warranty.

A toner cartridge may be set that cannot guarantee print quality because it has reached the end of its lifetime or for other reasons.

- Replacing the toner cartridge with a new one is recommended.
  ○**Replacing Toner Cartridges(P. 568)**

The toner cartridge used may not be a genuine Canon product.

- Only genuine Canon toner cartridges should be used as replacement toner cartridges.
  ○**Consumables(P. 626)**

IMPORTANT

- You can continue printing when this message is displayed, but the print quality may deteriorate. Doing so may result in damage to the machine.

Not enough display list memory. ▶▶ ▦

The available memory space is insufficient for the processing and an overflow has occurred.

- ● Perform a hard reset, and print the file again.
  ◐**Performing a Hard Reset(P. 499)**

- ● You can press ⬜ (Online) to continue printing. However, the data that overflowed is not registered.

Not enough download memory. ▶▶ ▦

Memory for registering the overlay form and external characters is insufficient and has overflowed.

- ● Perform a hard reset, and print the file again.
  ◐**Performing a Hard Reset(P. 499)**

- ● You can press ⬜ (Online) to continue printing. However, the data that overflowed is not registered.

Not enough memory for PDF processing.

Memory for processing the PDF file is insufficient.

- ● Optimize the PDF file to reduce its size or retry printing after dividing the file.

> **NOTE**
>
> - ● If you tried USB Direct Print or Direct Print, printing may be properly performed when it is restarted from the printer driver.
> - ● To remove the error message, perform a soft reset to cancel the print job. ◐**Soft Reset(P. 499)**

Not enough memory for XPS processing. ▶▶ ▦

Memory for XPS processing is insufficient.

- ● When the XPS file contains a ProgressiveJpeg image or the like, convert the image to a TIFF or BaselineJPEG format, and print the file again.

- ● You can press ⬜ (Online) to continue printing. However, the output result of pages with errors is not guaranteed.

Not enough spool memory. ▶▶ ▦

Printing an excessive amount of data has been attempted.

- ● Specify the reduced paper size, and print the file again.
- ● Set <2-Sided Printing> to <Off>, and print the file again.
  ◐**2-Sided Printing(P. 508)**
- ● Change the <Halftones> setting, and print the file again.
  ◐**Halftones(P. 405)**
- ● You can press ⬜ (Online) to continue printing. However, pages with errors are not printed.

Not enough system memory. ▶▶ ▦

Memory for data processing (mainly, graphics and characters) in the system is insufficient.

- Perform a hard reset, and print the file again.
  Performing a Hard Reset(P. 499)
- You can press [ ] (Online) to continue printing. However, graphics or characters with the error cannot be printed properly.

Not enough work memory.▶▶☰

Memory dedicated to each print mode is insufficient.

- Perform a hard reset, and print the file again.
  Performing a Hard Reset(P. 499)
- You can press [ ] (Online) to continue printing. However, data with errors cannot be printed properly.

> **NOTE**
>
> **Registered Data**
> - If you press [ ] (Online) to continue printing, the data such as registered overlay or macros may be deleted.

NW Competing IP add. found on the network.

The IPv4 address set for the machine is a duplication of that for another host on the network.

- Set a proper IPv4 address for the machine, and restart the machine.
  Setting IPv4 Address(P. 191)

NW IP address updated. Turn main power OFF/ON

The IP address has been changed when the machine was operating or a quick start was performed.

- Perform a hard reset or restart the machine.
  Performing a Hard Reset(P. 499)
- Fix the IP address assigned to the machine in the DHCP server.
  Setting IP Addresses(P. 190)

Paper is jammed.

Paper jams have occurred inside the machine.

- Do not forcibly pull out the jammed paper, but follow the procedure described in the manual.
  Clearing Jams(P. 512)

PDF error.

Printing the PDF data that is not available for the machine has been attempted.

- Use the PDF data in the format supported by the machine.

> **NOTE**
>
> - The machine supports the PDF version 1.7.
> - To remove the error message, perform a soft reset to cancel the print job. **Soft Reset(P. 499)**

PDF font error.

The PDF data contains fonts that are not available for the machine.

- Use the PDF data in the format supported by the machine.

NOTE

- To remove the error message, perform a soft reset to cancel the print job. **◯Soft Reset(P. 499)**

PDF print range error.

An invalid range of pages has been specified for printing.

- Specify the correct range of print pages, and print the file again.
  ◯Printing from USB Memory (USB Direct Print)(P. 118)
  ◯Print Settings for Direct Print(P. 149)

Print data version error.

Printing has been tried from the printer driver that is not available for the machine.

- Print again by using the printer driver available for this machine.

Re-insert the C toner cartridge.

The toner cartridge is not properly set.

- Properly set the toner cartridge.
  ◯How to Replace Toner Cartridges(P. 571)

Re-insert the K toner cartridge.

The toner cartridge is not properly set.

- Properly set the toner cartridge.
  ◯How to Replace Toner Cartridges(P. 571)

Re-insert the M toner cartridge.

The toner cartridge is not properly set.

- Properly set the toner cartridge.
  ◯How to Replace Toner Cartridges(P. 571)

Re-insert the Y toner cartridge.

The toner cartridge is not properly set.

- Properly set the toner cartridge.
  ◯How to Replace Toner Cartridges(P. 571)

Sensor error. Cannot detect paper type.

The sensor for automatic paper type detection is broken.

● Contact your local authorized Canon dealer or the Canon help line.

> **NOTE**
>
> ● To continue the printing, set <Auto Detect Ppr Type> to <Do Not Use> and set the paper type for the paper source to match the type of the actually loaded paper. **Auto Detect Ppr Type(P. 505)**

Set below paper.

Paper of the size specified to print is not loaded or the selected paper source does not match the paper size.

● Load the paper of the size specified to print in the selected paper source.
Loading Paper(P. 38)

● Select the paper source loaded with the paper of the size specified to print.
Paper Source(P. 501)

● To forcibly print on the loaded paper, press ⬭ (Online). For the multi-purpose tray, the setting specified for <MP Tray Paper Size> is automatically changed to the paper size of the print data.

Starting up... 80 Initializing MEAP. Do not turn power OFF.

You have tried to shut down the machine while MEAP was being initialized.

● When the MEAP initialization is complete, this message is automatically removed. Wait until the message is removed.

Starting up... 80 Preparing MEAP... Do not turn power OFF.

You have tried to shut down the machine while MEAP was preparing for operation.

● When MEAP is ready for operation, this message is automatically removed. Wait until the message is removed.

Syntax error.

Invalid data has been sent during printing with the UFR II printer driver.

● Change the printer driver settings or the format of print data, and print the file again.

> **NOTE**
>
> ● When you press ⬭ (Online), the print job is canceled.

Turn OFF main power. Check options.

The optional paper feeder is not properly installed.

● Shut down the machine, properly install the optional paper feeder, and then turn ON the power.
Turning ON/OFF the Power(P. 34)

The optional paper feeder has been detached when the machine is ON.

● Shut down the machine, properly install the optional paper feeder, and then turn ON the power.
Turning ON/OFF the Power(P. 34)

The connection part of the optional paper feeder has a contact failure.

- Shut down the machine, unplug the power plug from the AC power outlet, and then contact your local authorized Canon dealer.
  ❍**Turning OFF the Power (Performing a Shutdown)(P. 34)**

XPS document data error.▶▶ ▦

XPS data is damaged.

- Check that XPS data is not damaged and that the XPS data format is supported by the machine, and then try printing the document again.

A large file has been sent by Direct Print.

- Optimize the XPS file to reduce its size or retry printing after dividing the file.
- Install the SD card, and then resend the data to the machine.
  ❍**Installing an SD Card(P. 634)**
- Send the data from the USB memory device to the machine.
  ❍**Printing from USB Memory (USB Direct Print)(P. 118)**

> **NOTE**
>
> - When you press ▭ (**Online**), the print job is canceled.

XPS font data error.▶▶ ▦

Font data analysis has failed.

- Replace the font data in the XPS file, and try printing the file again.
- You can press ▭ (**Online**) to continue printing. However, characters with errors are not printed.

XPS image data error.▶▶ ▦

Image data is damaged.

- Replace the image data in the XPS file, and try printing the file again.
- You can press ▭ (**Online**) to continue printing. However, images with errors are not printed.

XPS page data error.▶▶ ▦

A page cannot be generated due to an invalid description.

- Check the description of the page with the error, and try printing the file again.
- You can press ▭ (**Online**) to continue printing. However, pages with errors are not printed.

XPS print range error.▶▶ ▦

There is no page that can be processed in the specified print range.

- Specify the correct range of print pages, and try printing the file again.
  ❍**Printing from USB Memory (USB Direct Print)(P. 118)**
  ❍**Print Settings for Direct Print(P. 149)**

XPS rendering error.

An error has occurred in the XPS rendering system.

● Contact your local authorized Canon dealer.

XPS unsupported image error. ▶▶ ▦

Unprintable images (HD Photo) are contained in the data.

● Convert the image data in the XPS file to other data format, and try printing the file again.

● You can press ▭ (Online) to continue printing. However, images with errors are not printed.

Y toner cartridge lifetime reached. Change recommended

The toner cartridge has reached the end of its lifetime.

● Replacing the toner cartridge with a new one is recommended.
  ◗**Replacing Toner Cartridges(P. 568)**

IMPORTANT

● You can continue printing when this message is displayed, but the print quality may deteriorate.

● Receiving e-mail and fax documents will be disabled. ◗**Printing Received E-mail (E-Mail Print) (P. 160)**

Y toner cartridge will soon reach lifetime.

The replacement time for the toner cartridge is near.

● Make sure that you have a replacement toner cartridge ready.
  ◗**Consumables(P. 626)**

● Replace the toner cartridge if you see this message before you start to print a large job.
  ◗**Replacing Toner Cartridges(P. 568)**

NOTE

● When the printing is stopped, you can press ▭ (Online) to continue printing.

Common Problems

0YS1-06E

If you encounter problems when using the machine, check the items in this section before contacting us. If the problems persist, contact your local authorized Canon dealer or the Canon help line.

Check the Following

➔ Is the machine turned ON? Is the power cord connected?

- If ▭ and the display of the operation panel are in the off state, it indicates that a quick turn-OFF has been performed or the machine has not been turned ON. If the machine does not respond when you press the power switch, check whether the power cord is connected correctly, and press the power switch again. For power cord connection, see "Getting Started".
  ◉**Operation Panel(P. 24)**
  ◉**Manuals Included with the Machine(P. 638)**

➔ Are the LAN cable and USB cable connected correctly?

- Check whether these cables are connected correctly.
  ◉**Parts and Their Functions(P. 16)**

➔ Is sleep mode activated?

- If you leave the machine unattended for a specific period of time, it enters sleep mode for power conservation, not allowing you to operate it.
  To cancel sleep mode, press ▭.

➔ Is any message displayed on the screen?

- If a problem occurs, a message is displayed.
  ◉**When an Error Message Appears(P. 520)**

If a problem persists even after checking

Click the link that corresponds to the problem.

◉**Installation/Settings Problems(P. 543)**
◉**Printing Problems(P. 546)**

Installation/Settings Problems

0YS1-06F

See ❍**Common Problems(P. 542)** also.

❍**Problems with the Wired LAN Connection(P. 543)**
❍**Problem with the USB Connection(P. 544)**
❍**Problem with the Print Server(P. 544)**
❍**Machine Problem(P. 544)**

Problems with the Wired LAN Connection

Remote UI is not displayed.

- Are <HTTP> and <Remote UI> set to <On>?
    ❍**Disabling HTTP Communication(P. 291)**
    ❍**Disabling Remote UI(P. 292)**

- Check whether the LAN cable is connected properly and the IP address is set correctly, and then start the Remote UI again.
    ❍**Connecting to a Wired LAN(P. 188)**
    ❍**Network Status Print(P. 588)**

- Are you using a proxy server? If so, add the machine's IP address to the [Exceptions] list (addresses that do not use the proxy server) in the Web browser's proxy settings dialog.

- Is the computer communication restricted by firewalls? Use the operation panel to set <Address Filter> to <Off>.
    ❍**Restricting Communication by Using Firewalls(P. 267)**
    ❍**Address Filter(P. 396)**

The LNK indicator is Off. ❍Back Side(P. 19)

- Use a straight-through Ethernet cable for the wired LAN connection.

- Check that the hub or router is turned ON.

- Do not connect the cable to the UP-LINK (cascade) port of the hub.

- Change the LAN cable.

A connection to a network cannot be established.

- Is <Network> under <Interface Selection> set to <On>?
    ❍**Interface Selection(P. 418)**

- The IP address may not be set correctly. Set the IP address again.
    ❍**Setting IP Addresses(P. 190)**

- If you are using an IPv4 address, specify the fixed IP address.
    ❍**Setting IPv4 Address(P. 191)**

You are unsure of the set IP address.

- Check by using Network Status Print.

❍**Network Status Print(P. 588)**

Problem with the USB Connection

Cannot communicate.

● Is <USB> under <Interface Selection> set to <On>?

❍**Interface Selection(P. 418)**

● Change the USB cable. If you are using a long USB cable, replace it with a short one.

● If you are using a USB hub, connect the machine directly to your computer using a USB cable.

The machine cannot be correctly detected from a computer.

● Does the setting of <USB-Connected PC OS> under <Control Menu> match the OS of your computer?

❍**USB-Connected PC OS(P. 373)**

Problem with the Print Server

You cannot find the print server to connect to.

● Are the print server and computer connected correctly?

● Is the print server running?

● Do you have user rights to connect to the print server? If you are not sure, contact the server administrator.

● Is [Network discovery] enabled? (Windows Vista/7/8/10/Server 2008/Server 2012)

❍**Enabling [Network discovery](P. 662)**

You cannot connect to a shared printer.

● On the network, does the machine appear among the printers of the print server? If it is not displayed, contact the network or server administrator.

❍**Displaying Shared Printers in the Print Server(P. 663)**

Machine Problem

No menus are displayed.

● Is the machine offline? The Utility menu and Job menu are available in online mode. ❍**[Online] key(P. 25)**

The operation panel keys do not work.

● Is the [Job] indicator lit? In this case, print data remains in memory. If the remaining data is not printed even after a while, select <Form Feed> in the Reset menu.

❍**Form Feed(P. 500)**

● If <Key locked.> appears on the display, the key lock function is active. Contact the administrator of the machine or disable the key lock function from the Remote UI.

❍**Restricting Operation Panel Functions(P. 288)**

- If you cannot perform any operation, hold down the power switch for 5 seconds or more to turn OFF the power. When turning ON the power, wait for 10 seconds or more after ⬚ indicator is turned OFF, and then press the power switch.

No SD card can be used.

- Is <SD Card> set to <Off>? Select <On>.
  ◯SD Card(P. 372)

- Is the SD card write-protected?

  Shut down the machine, and check whether the SD card is write-protected. If the card is write-protected, unlock the card, and again install it on the machine. **◯Installing an SD Card(P. 634)**

Printing Problems

0YS1-06H

See ❯**Common Problems(P. 542)** also.

Printing results are not satisfactory. Paper creases or curls.
❯**When You Cannot Print Properly(P. 548)**

You cannot print.
Check the Following.

- Is the [Job] indicator lit or blinking? In this case, printing is in progress. Please wait for a while. If the remaining data is not printed even after a while, select <Form Feed> or <Soft Reset> in the Reset menu.
    ❯**Reset Menu(P. 499)**
- Is ⬜ (Online) lit? If it is not lit, press ⬜ (Online) to set the machine to online.
    ❯**[Online] key(P. 25)**
- Can you print by Status Print or Network Status Print? If you can print, the machine has no problem. Check the configured network and computer settings.
    ❯**Printing Reports and Lists(P. 588)**
- Can you print a Windows test page? If you can print a Windows test page, there is no problem with the machine or the printer driver. Check the print settings of your application.
    ❯**Printing a Test Page in Windows(P. 663)**

If the problems persist, check the items that suit your operational environment.

■ Wired LAN connection

- Have you selected the correct port?

❯**Checking the Printer Port(P. 665)**

If the correct port is selected, click [Configure Port] of the [Ports] tab to check that the setting specified for [Printer Name or IP Address] matches that configured in the machine.

If there is no port to use or the IP address of the machine is changed, generate a port by following the procedure for changing the standard TCP/IP port described in the Printer Driver Installation Guide.

- Is the computer communication restricted by firewalls? Use the operation panel to set <Address Filter> to <Off>.

❯**Restricting Communication by Using Firewalls(P. 267)**

❯**Address Filter(P. 396)**

- Disable security software and other resident software.
- By following the procedure for changing the standard TCP/IP port described in the Printer Driver Installation Guide, change the print protocol to LPD and enable LRP Byte Counting.
- Reinstall the printer driver in accordance with the Printer Driver Installation Guide.
- Can you print from other computers on the network? If you also cannot print from other computers, contact your local authorized Canon dealer or the Canon help line.

NOTE:

If you are using the SMB network

- Are the SMB settings configured correctly? In particular, check that the DHCP server and WINS server are connected properly if you are using them. ❯**Configuring SMB(P. 245)**

● If the SMB settings are correctly configured, set a time value slightly longer than usual in <Wait Time at Startup>. ○**Setting a Wait Time for Connecting to a Network(P. 222)**

■ USB connection

● Have you selected the correct port? If there is no port to use or you are not sure, reinstall the printer driver in accordance with the Printer Driver Installation Guide. When you reinstall the printer driver, the correct port is created automatically.

○**Checking the Printer Port(P. 665)**

● Is bidirectional communication enabled? Enable bidirectional communication, and restart the computer.

○**Checking Bidirectional Communication(P. 666)**

● Disable security software and other resident software.

● Connect to another USB port on the computer.

● Can you print from a USB connection to another computer? If you also cannot print from other computers, contact your local authorized Canon dealer or the Canon help line.

■ Via print server

● Can you print from the print server? If you can print from the print server, check the connection between the print server and your computer.

○**Problem with the Print Server(P. 544)**

● Disable security software and other resident software.

● Reinstall the printer driver in accordance with the Printer Driver Installation Guide.

● Can you print from other computers via the print server? If you also cannot print from other computers, contact your local authorized Canon dealer or the Canon help line.

You cannot print with Google Cloud Print.

○**Using Google Cloud Print(P. 179)**

It takes a long time before printing starts.

● Did you print to narrow width paper? After you print to narrow width paper, the machine may cool itself to maintain the print quality. As a result, it may take some time before the next job is printed. Wait until the machine is ready to print. Printing will resume when the temperature inside the machine has fallen.

Printing has stopped halfway.

● Is the [Job] indicator lit? If it is lit, the machine has not received a command for the print data end. If the printing is not resumed even after a while, select <Form Feed> in the Reset menu.

○**Form Feed(P. 500)**

● If you cannot perform any operation, hold down the power switch for 5 seconds or more to turn OFF the power. Wait for 10 seconds or more after you have turned OFF the power, then turn it ON again and retry printing.

When You Cannot Print Properly

0YS1-06J

If printing results are not satisfactory, or paper creases or curls, try the following solutions. If the problems persist, contact your local authorized Canon dealer or the Canon help line.
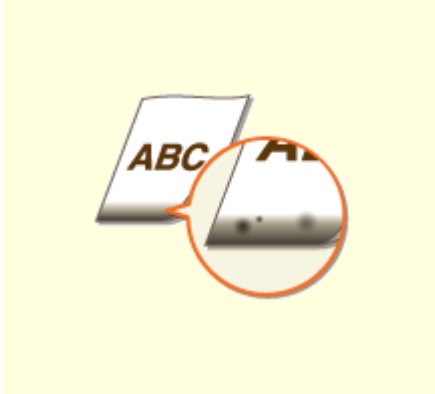
▶Smudge Marks Appear on the Bottom Edge of Printouts(P. 550)

▶Smudges Appear on Printouts(P. 550)

▶Toner Smudges and Splatters Appear(P. 551)

▶Afterimages Appear in Blank Areas(P. 551)
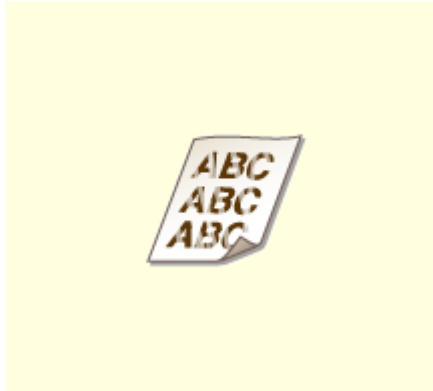
▶Printouts Are Faded(P. 552)
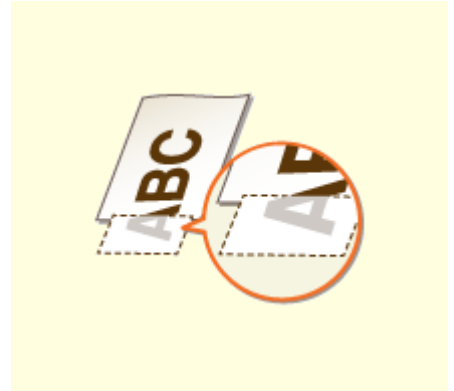
▶A Portion of the Page Is Not Printed(P. 552)

▶Streaks Appear/Printing is Uneven(P. 553)

▶White Spots Appear(P. 554)

▶Black Spots Appear(P. 555)

◆Reverse Side of Paper is Smudged(P. 555)

◆Printed Barcode Cannot Be Read(P. 555)

◆Paper Creases(P. 557)

◆Paper Curls(P. 558)

◆Paper Is Not Fed/Two or More Sheets Are Fed Together (P. 559)

◆Printouts Are Skewed(P. 559)

Printing Results Are Not Satisfactory

0YS1-06K

Dirt inside the machine may affect printing results. Perform care and cleaning to the machine first.
Cleaning the Machine(P. 565)

Smudge Marks Appear on the Bottom Edge of Printouts
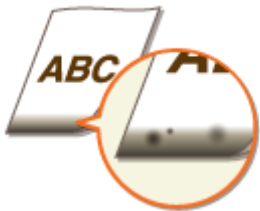
➔ Are you using appropriate paper?

- Check the supported paper types and replace with an appropriate type. Also, specify the paper size and type settings properly.

Paper(P. 621)
Loading Paper(P. 38)
Specifying Paper Size and Type(P. 57)

➔ Do you print data without margins?

- This symptom occurs if a margin is set to none in the printer driver. The marginal areas within the first 1/4" (5 mm) from the respective edges of paper are not printable (for envelopes, the top and bottom marginal areas within the first 3/8" (10 mm) from the top/bottom edge are not printable). Make sure to have margins around the document to print.

[Finishing] tab ▶ [Advanced Settings] ▶ [Expand Print Region and Print] ▶ [Off]

Smudges Appear on Printouts

➔ Are you using appropriate paper?

- Check usable paper, and replace with appropriate paper.

Paper(P. 621)
Loading Paper(P. 38)

➔ Do smudges appear on printouts when you use the machine in an environment with low humidity?

- Change the setting for <Sp. Transfer Mode>. Setting this item to <On> may solve the problem.
◖Sp. Transfer Mode(P. 425)

NOTE:

- If you select <On> and use the machine in an environment with high humidity, the print density may become lighter or uneven.

➔ Do smudges appear on printouts depending on the paper type or the operating environment?

- Change the setting for <Special Print Adj. C>. Setting this item to <On> may solve the problem.
◖Special Print Adj. C(P. 431)

NOTE:

- If you select <On>, the printing speed will be slower.

Toner Smudges and Splatters Appear

➔ Are you using appropriate paper?

- Check usable paper, and replace with appropriate paper.
◖Paper(P. 621)
◖Loading Paper(P. 38)

Afterimages Appear in Blank Areas

➔ Are you using appropriate paper?

- Check usable paper, and replace with appropriate paper.

⬤**Paper(P. 621)**
⬤**Loading Paper(P. 38)**

➜ **Is it time to replace the toner cartridge?**

- Materials inside the toner cartridge may have deteriorated. Replace the toner cartridge.

⬤**How to Replace Toner Cartridges(P. 571)**

Printouts Are Faded

➜ **Is the amount remaining in toner cartridge running low?**

- Check how much toner is left, and replace the toner cartridge as necessary.

⬤**Replacing Toner Cartridges(P. 568)**

➜ **Are you using appropriate paper?**

- Check usable paper, and replace with appropriate paper. Also, specify the paper size and type settings properly.

⬤**Paper(P. 621)**
⬤**Loading Paper(P. 38)**
⬤**Specifying Paper Size and Type(P. 57)**

A Portion of the Page Is Not Printed
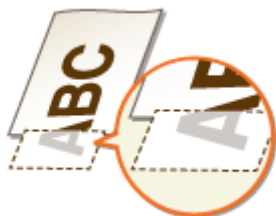
➜ **Do the paper guides align with the edges of the paper?**

- If the paper guides are too loose or too tight, part of a document may not be printed.

⬤**Loading Paper(P. 38)**

➔**Do you print data without margins?**

- This symptom occurs if a margin is set to none in the printer driver. The marginal areas within the first 1/4" (5 mm) from the respective edges of paper are not printable (for envelopes, the top and bottom marginal areas within the first 3/8" (10 mm) from the top/bottom edge are not printable). Make sure to have margins around the document to print.

[Finishing] tab ▶ [Advanced Settings] ▶ [Expand Print Region and Print] ▶ [Off]

➔**Are you using custom size paper loaded in correct orientation?**

- Load the custom size paper in landscape orientation when you print without using the UFR II printer driver.

- Load the custom size paper in portrait orientation if the following conditions are met when you are using the UFR II printer driver.

Paper Size in Select Feeder Menu	<Free Size>
Loaded Paper	Long edge length is 8 1/2" (215.9 mm) or less.

Streaks Appear/Printing is Uneven

➔**Have you cleaned the fixing unit?**

- Clean the fixing unit.
  ⊙**Fixing Unit(P. 567)**

➔**Is the amount remaining in toner cartridge running low?**

- Check how much toner is left, and replace the toner cartridge as necessary.
  ⊙**Replacing Toner Cartridges(P. 568)**

➔**Is it time to replace the toner cartridge?**

- Materials inside the toner cartridge may have deteriorated. Replace the toner cartridge.
  ⊙**How to Replace Toner Cartridges(P. 571)**

➔**Are you using the machine in an environment with high humidity?**

- Change the setting of <Special Density Mode>. Selecting <On> may improve the problem.
  ⊙**Special Density Mode(P. 426)**

NOTE:

- If you select <On> and use the machine in an environment with low humidity, printed images or text may be smudged.

➔ **Has color mismatch correction or hue correction been performed properly?**

- If the effect of the color mismatches or color streaks (lines) is unacceptably strong, perform calibration.
- **Correcting Color Mismatch and Hues(P. 581)**

White Spots Appear

➔ **Are you using paper that has absorbed moisture?**

- Replace with appropriate paper.
- **Loading Paper(P. 38)**

➔ **Are you using appropriate paper?**

- Check usable paper, and replace with appropriate paper.
- **Paper(P. 621)**
- **Loading Paper(P. 38)**

➔ **Is it time to replace the toner cartridge?**

- Materials inside the toner cartridge may have deteriorated. Replace the toner cartridge.
- **How to Replace Toner Cartridges(P. 571)**

➔ **Is the central area of high-density characters or lines left unprinted?**

- Change the setting of <Special Image Mode>. The improvement effect is stronger with <Level 2> than with <Level 1>.
- **Special Image Mode(P. 424)**

  NOTE:

  - The stronger the improvement, the lower the print density.

Black Spots Appear

➜ **Have you cleaned the fixing unit?**

- Clean the fixing unit.
  Fixing Unit(P. 567)

Reverse Side of Paper is Smudged

➜ **Have you loaded paper that is smaller than the size of the print data?**

- Check to make sure that the paper size matches the size of the print data.

➜ **Have you cleaned the fixing unit?**

- Clean the fixing unit.
  Fixing Unit(P. 567)

Printed Barcode Cannot Be Read

➜ **Are you using a small barcode or a barcode consisting of thick lines?**

- Enlarge the barcode.

- If the direction of lines in the barcode is perpendicular to the paper output direction, turn the image 90 degrees to make the lines parallel to the paper output direction.
- If the problem persists even after performing the above operation, set [Barcode Adjustment Mode] to [Narrow].

Setting in the Printer Driver

[Finishing] tab ▶ [Advanced Settings] ▶ [Barcode Adjustment Mode] ▶ [Narrow]

Specifying Settings in the Setting Menu of the Operation Panel

Adjust Barcode(P. 431)

NOTE:

- When [Barcode Adjustment Mode] is set to [Narrow], the overall effect may be such that lines are printed narrower and the print density is lower than expected.
- When printing from the computer, the setting in the printer driver takes precedence. When the setting of [Barcode Adjustment Mode] is changed to [Printer Default], the setting in the operation panel takes precedence.
- If the problem cannot be solved in spite of this item having been set, set <Density: K> to "-1" or "-2." **Density: X (X=C, M, Y, K)(P. 404)**

Paper Creases or Curls

0YS1-06L

Paper Creases

➔ Is paper loaded correctly?

- If paper is not loaded below the load limit line or the load limit guide or is loaded obliquely, it may crease.
- **Loading Paper(P. 38)**

➔ Are you using paper that has absorbed moisture?

- Replace with appropriate paper.
- **Loading Paper(P. 38)**

➔ Are you using appropriate paper?

- Check usable paper, and replace with appropriate paper.
- **Paper(P. 621)**
- **Loading Paper(P. 38)**

➔ Do creases form when you print on thin paper?

- Change the setting of <Reduce Waving (Thin)>. Selecting <On> may improve the problem.
- **Reduce Waving (Thin)(P. 427)**

  NOTE:

  - If you select <On>, printouts may be faded.

➔ Does this occur when you print on plain paper or envelopes?

- On the printer driver, change the setting of [Wrinkle Adjustment]. The problem may be improved by [Mode 1] when printing on paper whose type is Plain/Plain L/Plain L2, or by [Mode 2] when printing on envelopes.

  [Finishing] tab ▶ [Advanced Settings] ▶ [Wrinkle Adjustment] ▶ Select the mode

  NOTE:

  - If you select [Mode 1], the printing speed will be slower.
  - If you select [Mode 2], printed images may be smudged.

Paper Curls

➔ **Are you using paper that has absorbed moisture?**

- Replace with appropriate paper.
- ❍**Loading Paper(P. 38)**
- When the current setting of the paper type is <Plain>, change it to <Plain L>.
- ❍**Specifying Paper Size and Type(P. 57)**
- For the relevant paper source, set <Curl Correction> to <On>.
- ❍**Curl Correction(P. 427)**

  NOTE:

  - If you select <On>, the print speed may be slower. Also, printouts may be faded.

➔ **Are you using appropriate paper?**

- Check usable paper, and replace with appropriate paper. Also, specify the paper size and type settings properly.
- ❍**Paper(P. 621)**
- ❍**Loading Paper(P. 38)**
- ❍**Specifying Paper Size and Type(P. 57)**
- Turn over the paper (front to back) so that the print side is changed, and then reload the paper.

  IMPORTANT:

  - Rarely, the symptoms may worsen depending on the type of paper you are using. In that case, get the print side back to original.

Paper Is Fed Incorrectly

0YS1-06R

Paper Is Not Fed/Two or More Sheets Are Fed Together

➜ Is paper loaded correctly?

- Fan the paper stack thoroughly so that paper is not stuck together.
- Check whether paper is loaded correctly.

  ◉**Loading Paper(P. 38)**
- Check whether the number of sheets of paper loaded is appropriate and whether the appropriate paper is used.

  ◉**Paper(P. 621)**

  ◉**Loading Paper(P. 38)**
- Check whether mixed sizes and types of paper are loaded together.

Printouts Are Skewed

➜ Do the paper guides align with the edges of the paper?

- If the paper guides are too loose or too tight, the printouts are skewed.

  ◉**Loading Paper(P. 38)**

When a Problem Cannot Be Solved

0YS1-06S

If you cannot solve a problem by referring to the information in this chapter, contact your local authorized Canon dealer or the Canon help line.

> **IMPORTANT**
>
> **Do not disassemble or repair the machine yourself**
>
> - If you disassemble or repair the machine yourself, it may not be covered by warranty.

Customer Support (U.S.A.)

If you cannot solve a problem by referring to the information in this chapter, contact the Canon Customer Care Center at 1-800-OK-CANON, Monday through Friday, between 8:00 A.M. and 8:00 P.M. EST. On-line support is available 24 hours a day at **http://www.canontechsupport.com** .

Customer Support (Canada)

Canon Canada Inc., offers a full range of customer technical support options[*]:

- To perform step-by-step troubleshooting, send an e-mail to technical support, download drivers or support documents, or view answers to frequently asked questions, visit **http://www.canon.ca/** .

- Free live technical support is available from 9 A.M. to 8 P.M. EST, Monday through Friday (excluding holidays), for products still under warranty 1-800-OK-CANON.

- To find the location of the authorized service facility nearest you, visit **http://www.canon.ca/** or call 1-800-OKCANON.

- If the problem cannot be corrected via these technical support options, repair options are available from the technical support personnel via the Web site at **http://www.canon.ca/** .

[*] Available support options are subject to change without notice.

■ When Contacting Canon

When contacting us, have the following information ready:

- Product name (LBP712Cdn)

- Dealer where you purchased the machine

- Details about your problem (such as what you did, what happened as a result, and displayed messages)

- Serial number (10 alphanumeric characters long, found on the label on the back side of the machine)
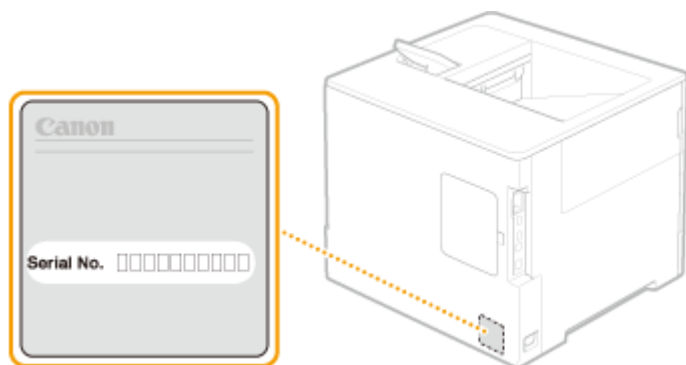
NOTE

Checking the serial number from the operation panel

- You can also check by ◀ (Utility) ▶ <Serial Number>.

Maintenance

Maintenance

0YS1-06U

This chapter describes upkeep of the machine, including how to clean the machine and initialize settings.

■ Basic Cleaning ❯Cleaning the Machine(P. 565)

- The machine becomes dirty, see ❯**Exterior(P. 566)** .
- Black spots appear on printouts, see ❯**Fixing Unit(P. 567)** .

■ Replacing Toner Cartridges

- If you want to check the remaining toner level, see ❯**Replacing Toner Cartridges(P. 568)** .
- How to replace toner cartridges, see ❯**How to Replace Toner Cartridges(P. 571)** .

■ Replacing the Waste Toner Container

- The replacement message has been displayed, see ❯**Replacing the Waste Toner Container(P. 573)** .
- How to replace the waste toner container, see ❯**How to Replace the Waste Toner Container(P. 574)** .

■ Relocating the Machine
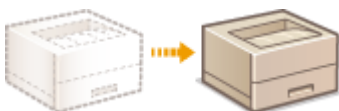
- Relocating the machine for maintenance or an office move, see ❯**Relocating the Machine(P. 576)** .

■ Managing Print Quality ❯Maintaining and Improving Print Quality(P. 578)

- If you want to adjust the toner density to be used for printing, see ❯**Adjusting Print Density(P. 579)** .
- If you want to correct color mismatch or hue difference, see ❯**Correcting Color Mismatch and Hues(P. 581)** .
- If you want to adjust the print position, see ❯**Adjusting Print Position(P. 584)** .

■ Printing Reports and Lists

- Printing out lists of settings or the like, see ❯**Printing Reports and Lists(P. 588)** .

■ Checking the Total Pages Printed by the Machine

If you want to check the total page number of printouts, see ❯**Viewing the Counter Value(P. 597)** .

■ Initializing Settings

If you want to restore the settings, see ❯**Initializing Settings(P. 602)** .

Cleaning the Machine

0YS1-06W

Regularly clean the machine to prevent deterioration in printing quality and to ensure that you use it safely and easily. Carefully read the safety instructions before you start cleaning. ◗**Maintenance and Inspections(P. 9)**

Where to Clean
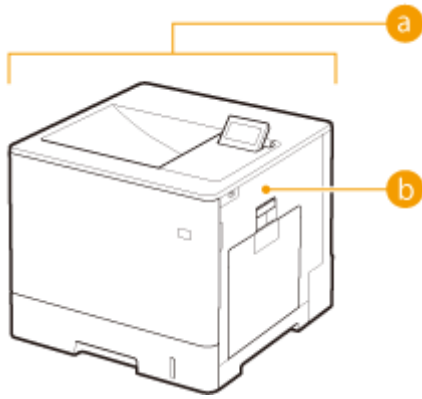
ⓐ Exterior of the machine and ventilation slots
   ◗**Exterior(P. 566)**

ⓑ Internal fixing unit
   ◗**Fixing Unit(P. 567)**

Exterior

0YS1-06X

Regularly wipe the exterior of the machine, especially around the ventilation slots, to keep the machine in good condition.

1 **Turn OFF the machine, and unplug the power cord from the AC power outlet.**

- When you turn OFF the power, shut down the machine from the operation panel without using the power switch. **Turning OFF the Power (Performing a Shutdown)(P. 34)**

2 **Clean the exterior of the machine and the ventilation slots.**

- Use a soft, well-wrung-out cloth dampened with water or a mild detergent diluted with water.
- To locate the ventilation slots, see **Front Side(P. 17)** and **Back Side(P. 19)** .
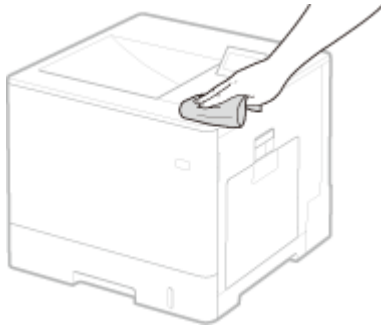
3 **Wait for the exterior of machine to dry completely.**

4 **Reconnect the power cord and turn ON the machine.**

Fixing Unit

0YS1-06Y

Dirt may adhere to the fixing unit inside the machine and cause black spots to appear on printouts. To clean the fixing unit, perform the following procedure. Note that you cannot clean the fixing unit when the machine has documents waiting to be printed. Note that cleaning the fixing unit requires A4 or Letter size paper. Set the paper in the multi-purpose tray before performing the following procedure.

NOTE

- Cleaning consumes the toner cartridge. Make sure that there is sufficient toner cartridge remaining beforehand. ○**Checking the Amount Remaining in the Toner Cartridge(P. 569)**

1 Press ◄ (Utility).

2 Use ▲ / ▼ to select <Cleaning>, and press [OK].

3 Select the size of the loaded paper, and press [OK].

4 Select <Yes>, and press [OK].

```
Execute?
 No
 Yes
```
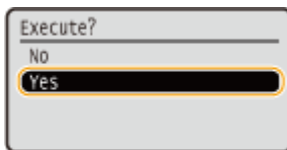
⇒ The <Set cleaning paper and press the Online key.> message appears on the display.

5 Press ▭ (Online).

⇒ The cleaning paper is slowly fed into the machine and the cleaning of the fixing unit starts.

```
Cleaning...



 Y▨ M▨ C▨ K▨
```

- You cannot stop the cleaning halfway. Wait until the cleaning is completed (approx. 223 seconds).

Replacing Toner Cartridges

0YS1-070

The machine will display a message when a toner cartridge is nearly empty. Note that the print quality becomes poor if you continue printing without taking any action. You can check the amount remaining in the toner cartridge on the display.

◉**When a Message Appear(P. 568)**
◉**If Printouts are Poor in Quality(P. 569)**
◉**Checking the Amount Remaining in the Toner Cartridge(P. 569)**

■ When a Message Appear

Depending on which message is displayed, you will need to make sure that you have a replacement toner cartridge ready or replace the toner cartridge. ◉**How to Replace Toner Cartridges(P. 571)** ◉**Consumables(P. 626)**

> **NOTE**
>
> - "X" in the following message represents a CMYK color.

<X toner cartridge will soon reach lifetime.>
<X toner cartridge will soon reach end of lifetime.>

This message notifies you that the toner cartridge for the indicated color needs to be replaced soon. Make sure that you have a replacement toner cartridge ready. Replace the toner cartridge if you see this message before you start to print a large job.

> **NOTE**
>
> - When the <Ready to print.> message is not displayed, the printing is temporarily stopped. To resume the printing, press ☐ (Online).
>
> - Which message is to be displayed depends on the <Warning Step> setting in the setting menu of the operation panel. ◉**Warning Step(P. 367)**
>
> - You can set any value as the percentage of the amount remaining in the toner cartridge that triggers this message. ◉**Spec Tnr Chk Timing(P. 436)**

<Change X toner cartridge recommended.>
<X toner cartridge lifetime reached. Change recommended>

The toner cartridge for the indicated color has reached the end of its lifetime. It is recommended that you replace this cartridge with a new one.
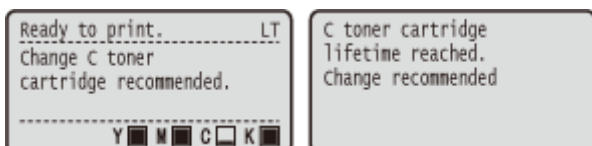
> **IMPORTANT**
>
> - You can continue printing when this message is displayed, but the print quality may deteriorate.
> - Receiving e-mail and fax documents will be disabled. **Printing Received E-mail (E-Mail Print) (P. 160)**

<Non-Canon cart. not covered by warranty.>

This message notifies you that the machine may not print in optimum quality. It is recommended that you replace this cartridge with a new one.

> **IMPORTANT**
>
> - You can continue printing when this message is displayed, but the print quality may deteriorate. Doing so may result in damage to the machine.

■ If Printouts are Poor in Quality

If your printouts begin to show any of the following features, one of your toner cartridges is consumed. Replace the nearly empty toner cartridge even if no message is displayed. **How to Replace Toner Cartridges(P. 571)**

Streaks appear   Partially faded   Uneven density

Afterimages appear in blank areas   White spots appear

■ Checking the Amount Remaining in the Toner Cartridge

You can check the amount remaining in the toner cartridge on the main screen. It is recommended that you check the amount before you start to print a large job.

ⓐ Amount Remaining in Cartridge

Displays the amount remaining in the toner cartridge. Depending on your environment, other internal parts may reach the end of their lifetime before the toner runs out.

> **NOTE**
>
> - The displayed amount remaining in the toner cartridge can be used only as a guide and may differ from the actual amount.
> - You can also check the amount with <Remaining Toner> under <Consumables Info.>. **Consumables Info.(P. 495)**

LINKS

Consumables(P. 626)

How to Replace Toner Cartridges

0YS1-071

Read the precautions in ❯**Maintenance and Inspections(P. 9)** and ❯**Consumables(P. 10)** before replacing the toner cartridges.

1 **Open the front cover.**
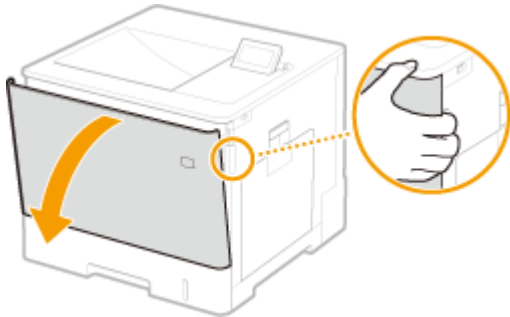
2 **Pull out the toner cartridge.**
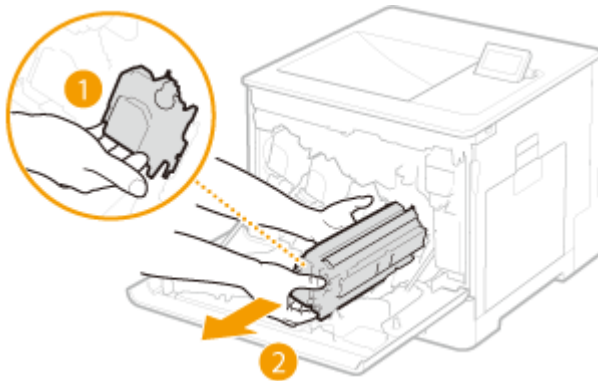
3 **Remove the replacement toner cartridge from the protective case.**
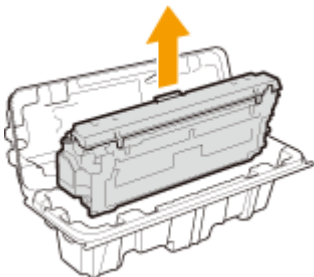
4 **Shake the toner cartridge five or six times as shown below to evenly distribute the toner inside the cartridge, and then place it on a flat surface.**

- De not remove the drum protective cover (**a**) in this step.
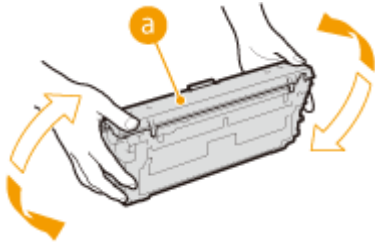
5 **Remove the drum protective cover.**
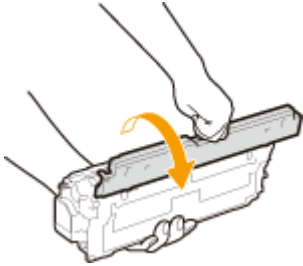
6 **Install the toner cartridge.**

● Align the toner cartridge with the toner cartridge guide ( ) and push it into the slot until it stops.
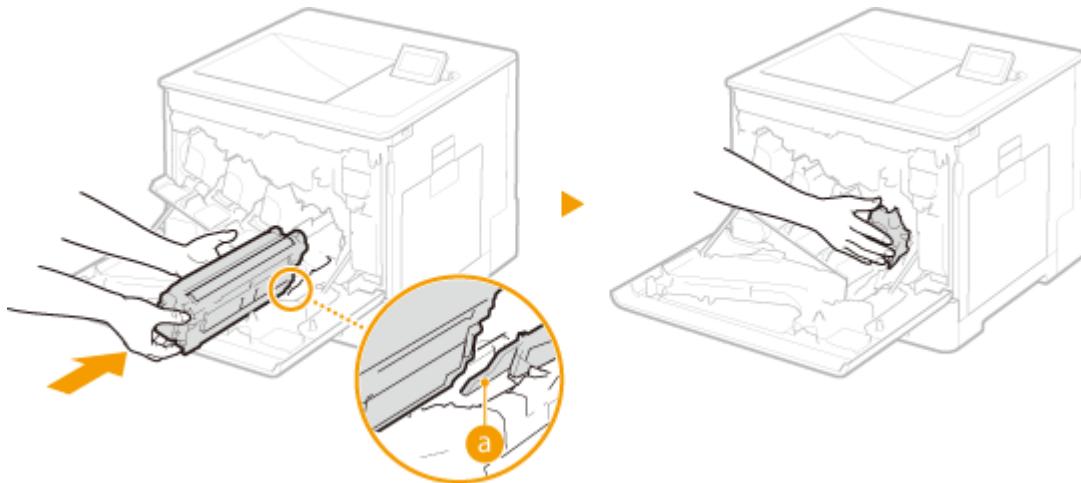
IMPORTANT:

● Be careful that the drum portion does not get hit against the mouth of the slot.

● Place the toner cartridge into the slot marked with the appropriate color label ( ).
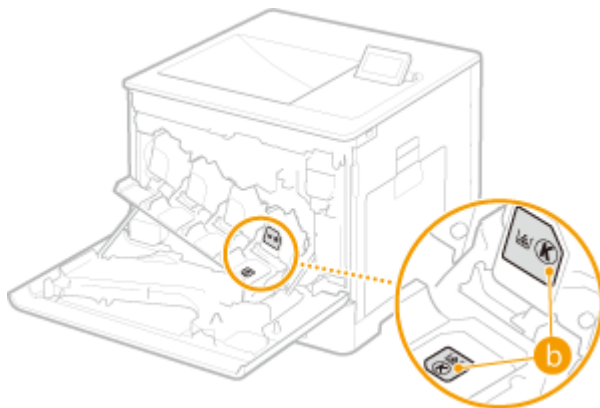
7 **Close the front cover.**

Replacing the Waste Toner Container

0YS1-08X

When the remaining capacity of the waste toner container is already small, the relevant message appears on the display. You can also check the status of the waste toner container on the display.

◉**When a Message Appear(P. 573)**
◉**Checking the Status of the Waste Toner Container(P. 573)**

■ When a Message Appear

Depending on which message is displayed, you will need to make sure that you have a replacement waste toner container ready or replace the waste toner container. ◉**How to Replace the Waste Toner Container(P. 574)** ◉**Consumables(P. 626)**

<E1 Prep waste toner ctn.>

This message notifies you that the waste toner container needs to be replaced soon. Make sure that you have a replacement waste toner container ready. Replace the waste toner container if you see this message before you start to print a large job.

<Change waste t. ctn.>
<Change waste toner container.>

The waste toner container has become full. Replace the waste toner container with a new one.
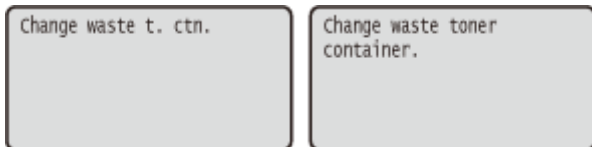
■ Checking the Status of the Waste Toner Container

You can check the status of the waste toner container by <Waste Toner Status> under <Consumables Info.>. It is recommended that you check if you should prepare a new waster toner container at hand before you start to print a large job. ◉**Consumables Info.(P. 495)**

LINKS

◉**Consumables(P. 626)**

How to Replace the Waste Toner Container

0YS1-08Y

Read the precautions in ●**Maintenance and Inspections(P. 9)** and ●**Consumables(P. 10)** before replacing the waste toner container.

1 **Open the front cover.**
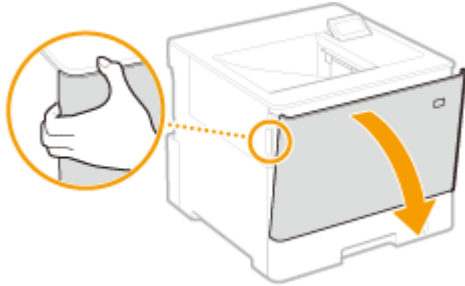
2 **Open the left cover.**
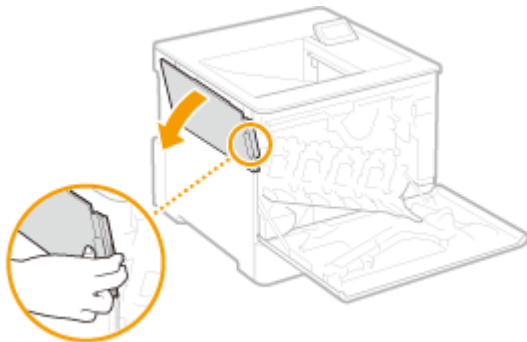
3 **Remove the waster toner container together with the left cover.**
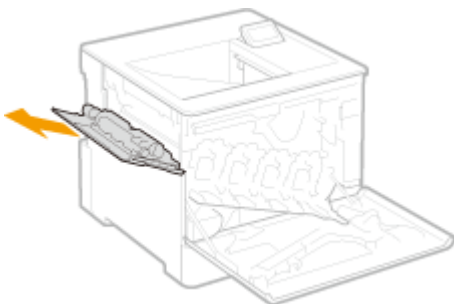
IMPORTANT:

● Be careful not to tilt the container. Tilting the waster toner container will result in spilling of collected toner.

4 **Remove the waste toner container from the protective case.**
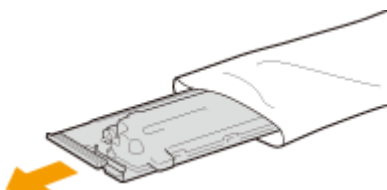
IMPORTANT:

- Do not disassemble or modify the waste toner container.

5 **Install the new waste toner container and close the left cover.**
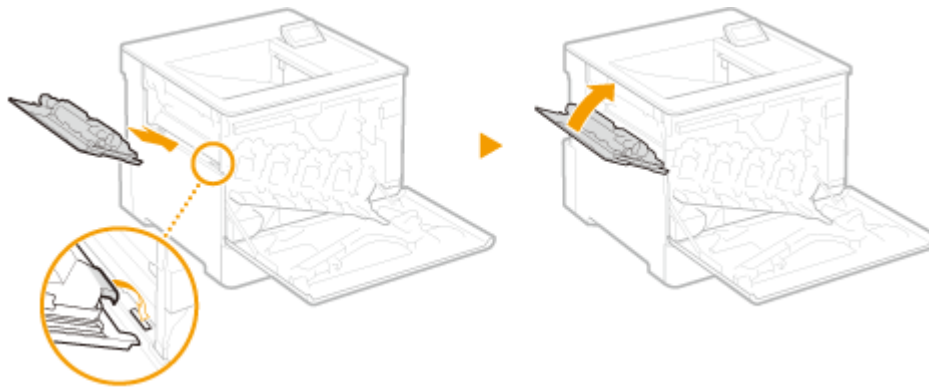
6 **Close the front cover.**

Relocating the Machine

0YS1-072

The machine is heavy. Make sure to follow the procedures below when moving the machine to avoid injury, and also make sure to read the safety precautions before you begin. **Important Safety Instructions(P. 2)**

1 **Turn OFF the machine and computer.**

- When you turn OFF the power, be sure to shut down the machine from the operation panel without using the power switch. **Turning OFF the Power (Performing a Shutdown)(P. 34)**

2 **Disconnect the cables and cord from the machine in numerical order as in the illustration below.**

- Whether the cables with "*" are connected depends on your environment.

 1   Power plug
 2   Power cord
 3   USB device*
 4   USB cable*
 5   LAN cable*
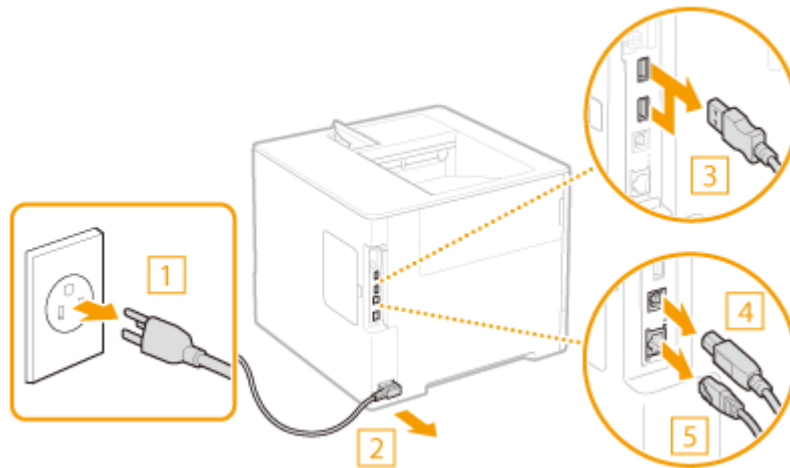
3 **When transporting the machine across a long distance, remove the toner cartridge. How to Replace Toner Cartridges(P. 571)**

4 **Pull out the paper drawer until it stops, and remove it while lifting the front side.**
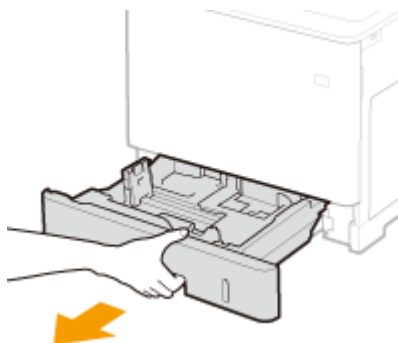
5 **Close all the open covers, and move the machine to a new location.**

- The machine is heavy (**Machine Specifications(P. 618)**). Do not try hard to carry the machine.
- Use the handles on both sides of the machine, and have at least two people carry it.
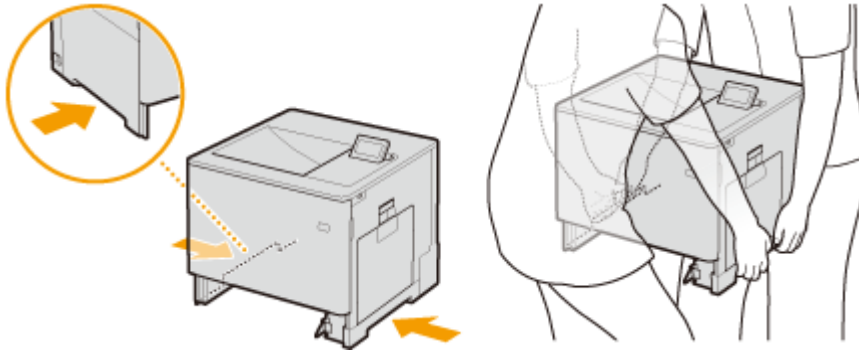
IMPORTANT:

If the optional paper feeder is attached to the machine

- Unlock the paper feeder before lifting the machine, and transport the paper feeder separately.
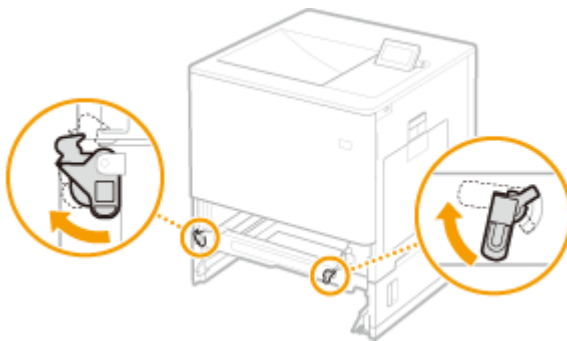
6 **Carefully place the machine at the new installation site.**

- For information about how to install the machine after relocating it, see Getting Started. **Manuals Included with the Machine(P. 638)**

Maintaining and Improving Print Quality

0YS1-073

If the printing results are not satisfactory such as when the printed colors are different than the original colors or the resulting print position is different than expected, try the following adjustments.

■ Density Adjustment

Adjust the toner density. You can make fine adjustment of toner density by density level. ▶**Adjusting Print Density(P. 579)**

■ Color Mismatch/Hue Correction

Make a correction in the case of color mismatch or hue difference. ▶**Correcting Color Mismatch and Hues(P. 581)**

■ Print Position Adjustment

For each paper source, you can adjust the print position. ▶**Adjusting Print Position(P. 584)**

Adjusting Print Density

0YS1-074

If the resulting print is darker or lighter than expected, you can adjust the toner density for each CMYK color. You can make fine adjustment of the toner density by dividing the whole density range into three areas.

> **IMPORTANT**
>
> - If <Toner Save> is set to <On>, you cannot use this adjustment function. ❯**Toner Save(P. 404)**

1 Press ▶ (Settings).

2 Use ▲ / ▼ to select <Print Quality>, and press ⬛.

3 Adjust the density.

    1 Select the color whose density you want to adjust, and press ⬛.

```
Print Quality
  Gradation
  Toner Save
  Density: C
  Density: M
```
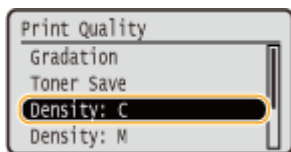
    2 Use ▲ / ▼ to adjust the density.

```
Density: C
        ▲
      [ 0 ]        (a)
        ▼
 (-8 Light -+8 Dark)
```

        (a) Density adjustment

        Set a "+" value to increase the density. Set a "-" value to decrease the density.

    3 Press ⬛.

■Making fine adjustment of toner density by density level

    You can make fine adjustment of toner density on three density levels - high, medium, and low.

    1 Use ▲ / ▼ to select the color whose density you want to adjust, and press ⬛.

```
Print Quality
  Density: M
  Density: Y
  Density: K
  Density C (Fine Adj)
```
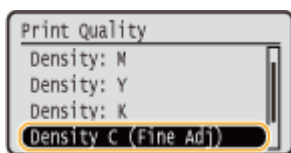
    2 Select the desired density level, and press ⬛.
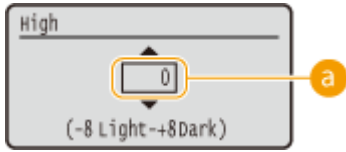
Density C (Fine Adj)
High
Medium
Low

3 Use ▲ / ▼ to adjust the density.

High

0

(-8 Light~+8Dark)

ⓐ Density adjustment

Set a "+" value to increase the density. Set a "-" value to decrease the density.

■Example adjustment of each density area

<High>	 (−)　　(0)　　(+)
<Medium>	 (−)　　(0)　　(+)
<Low>	 (−)　　(0)　　(+)
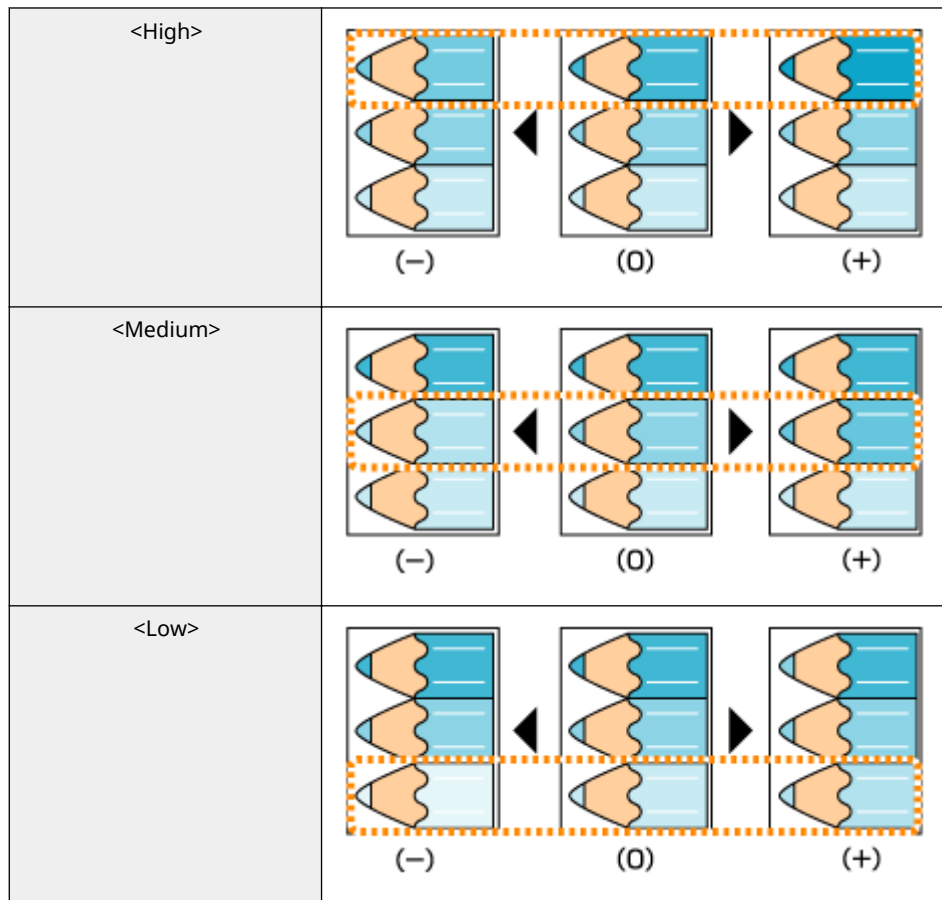
4 Press 🆗 .

- If you want to also make adjustments on other density levels, repeat the operations in steps 2 to 4.

Correcting Color Mismatch and Hues

0YS1-090

When color mismatch occurs or when images are printed in colors that are different from the ones in the original, execution of calibration allows you to correct the problem. Processing for this correction requires a sufficient amount of toner, so it is recommended that beforehand you check the remaining amount of toner and you replace the toner cartridge(s) as necessary. ◉**Checking the Amount Remaining in the Toner Cartridge(P. 569)**

◉**Correcting Print Color Mismatch(P. 581)**
◉**Correcting Hues(P. 582)**
◉**Correcting Color Mismatch and Hues at a Time(P. 582)**

IMPORTANT

- Frequent calibration may affect the lifetime of toner cartridges.

- If the lifetime of toner cartridge(s) has been reached, calibration may not end correctly. In this case, replace the toner cartridge(s) and try again calibration. ◉**How to Replace Toner Cartridges(P. 571)**

NOTE

- Normally, calibration is automatically performed in accordance with the usage condition of the machine or changes in the environmental conditions.

- You can make a setting so that calibration is automatically performed immediately after the machine is turned ON or you can set the calibration frequency.

    ◉**First Calibration(P. 432)**
    ◉**Calibration Freq.(P. 435)**

Correcting Print Color Mismatch

Print color mismatch refers to a shift in the positions of colors that may occur when printing one image with multiple toner cartridges. Color mismatch can cause printouts to appear blurry. When color mismatch occurs, use the following procedure to correct the problem.

When color mismatch occurs   When color mismatch does not occur

1 Press ◀ (Utility).

2 ▲ / ▼ to select <Calibration>, and press ⊡.

3 Select <Color Mismatch Corr.>, and press ⊡.

```
Calibration
 Color Mismatch Corr.
 Density Control
 Full Calibration
```
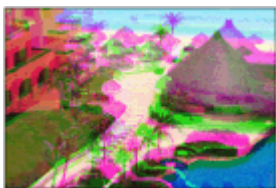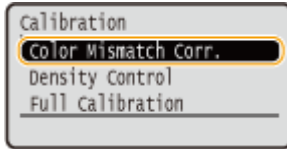
4 **Select <Yes>, and press** ⊡ **.**

➠ Color mismatch correction starts. Wait until the correction processing is complete (about 21 seconds).

Correcting Hues

Hue refers to the density of a color such as red, yellow, green, blue, or purple. When hues in the printed image are different from those in the original or when some colors are darker or the overall density of the print is thinner than in the original, do as follows to make a correction.

Hues are not reproduced correctly   Original   Hues are reproduced correctly

1 **Press** ◄ **(Utility).**

2 **▲ / ▼ to select <Calibration>, and press** ⊡ **.**

3 **Select <Density Control>, and press** ⊡ **.**

```
Calibration
 Color Mismatch Corr.
 Density Control
 Full Calibration
```
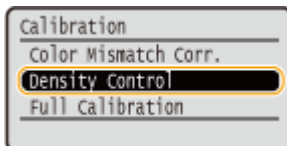
4 **Select <Yes>, and press** ⊡ **.**

➠ Hue correction starts. Wait until the correction processing is complete (about 21 seconds).

Correcting Color Mismatch and Hues at a Time

1 **Press** ◄ **(Utility).**

2 **▲ / ▼ to select <Calibration>, and press** ⊡ **.**
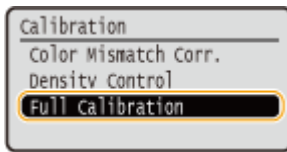
3 Select <Full Calibration>, and press [OK] .

> Calibration
> Color Mismatch Corr.
> Density Control
> **Full Calibration**

4 Select <Yes>, and press [OK] .

➔ Correction starts. Wait until the correction processing is complete (about 21 seconds).

> **TIPS**
>
> - You can make a setting so that full calibration is automatically performed at a specified time. ▶**Calibration Timer(P. 367)**

Adjusting Print Position

0YS1-075

If a document is printed off-center or out of the printable range, adjust the print position. You can adjust the print position for each paper source.
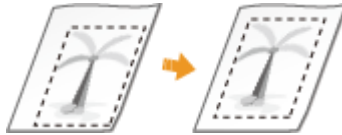
●**Step 1: Printing the Current Print Position(P. 584)**
●**Step 2: Checking the Direction and Distance to Adjust(P. 585)**
●**Step 3: Adjusting the Print Position for Each Paper Source(P. 586)**

Step 1: Printing the Current Print Position

You can perform "Printing Position Adjustment Print" to check the direction and distance to adjust.

> **NOTE**
>
> - When you want to check the print position for 2-sided printing, set <2-Sided Printing> to <On> in the setting menu of the operation panel in advance. ●**2-Sided Printing(P. 508)**

1 Press ▭ (Select Feeder).
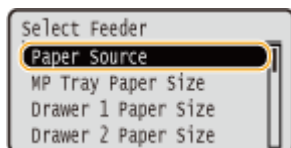
2 Use ▲ / ▼ to select <Paper Source>, and press [OK].

```
Select Feeder
Paper Source
MP Tray Paper Size
Drawer 1 Paper Size
Drawer 2 Paper Size
```

3 Select the paper source for which you want to check the print position, and press [OK].

```
Paper Source
Auto
Multi-Purpose Tray
Drawer 1
Drawer 2
```
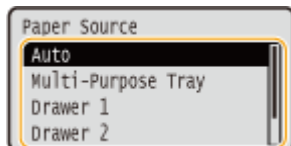
4 Press ▭ (Online).

➠ The screen returns to the main screen.

5 Press ◄ (Utility).

6 Select **<Printing Pos. Print>**, and press ⊙ .

```
Utility Menu
 Cleaning
 Control Condensation
 E-Mail Print Utility
 Printing Pos. Print
```

7 Select **<Yes>**, and press ⊙ .

```
Execute?
 No
 Yes
```
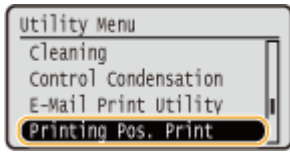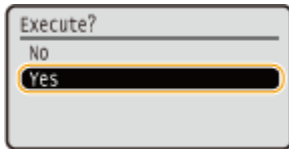
➠ A printing position adjustment printout is output.

Step 2: Checking the Direction and Distance to Adjust

When Printing Position Adjustment Print is performed, the print position check marks "⊞" are printed. Determine the direction and distance to adjust based on those marks. When the print position is normal, all the marks are printed at a position 1/4" (5 mm) from the nearest edge of the paper.

How to Check Printing Position Adjustment Printouts

The edge of paper that comes out first when the paper is output is the top of a Printing Position Adjustment Print. When you check the print position, make sure which edge of the paper is the top.
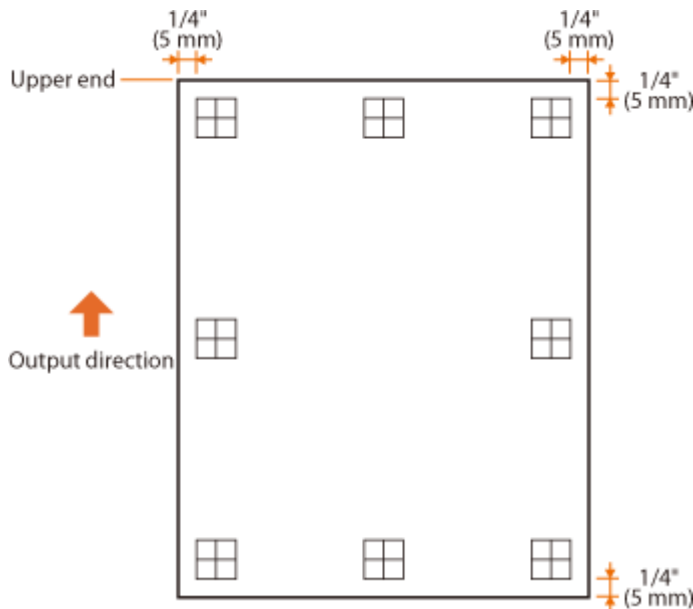
- The size of the mark "⊞" for checking the print position is as shown in the illustration below.
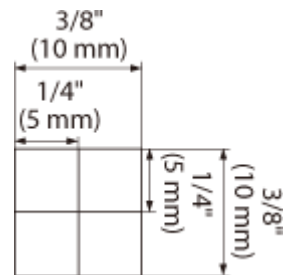
When the Print Position Is Off-Center

When the print position check marks are printed off the correct position, you need to adjust the print position. When you adjust the print position, specify the direction using "+" and "-" and the distance using "in". Use "-" to shift the print position upward and "+" to shift it downward (vertical position correction). Use "-" to shift the print position leftward and "+" to shift it rightward (horizontal position correction).

Vertical direction (<Offset Y>)   Horizontal direction (<Offset X>)

In the example shown below, to shift the print position 1/4" (5 mm) upward and 1/8" (1.5 mm) rightward, "-0.20 in" (5 mm) is set in <Offset Y> and "+0.06 in" (1.5 mm) is set in <Offset X>.
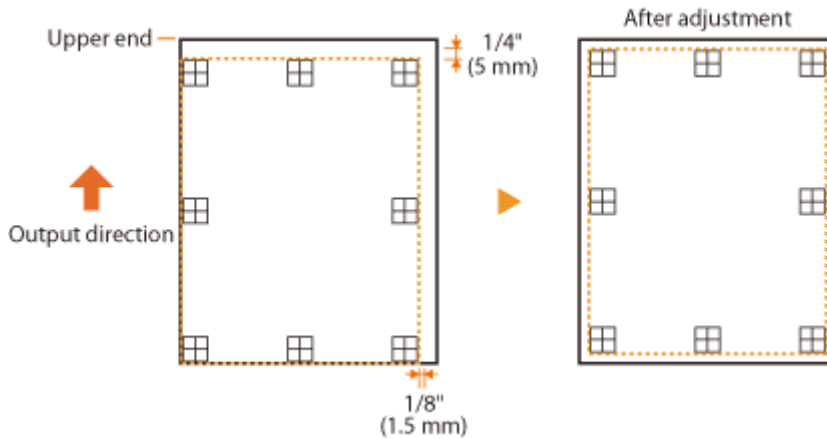
Step 3: Adjusting the Print Position for Each Paper Source

After you confirm the direction and distance to adjust, specify an adjusted print position. You can adjust the print position vertically in the range of -0.20" to +0.20" (-5.0 to +5.0 mm) in 0.01" (0.1 mm) increments, and horizontally in the range of -0.09" to +0.09" (-2.25 to +2.25 mm) in 0.01" (0.25 mm) increments.

1 **Set the machine to offline.**

- When ▭ (Online) is lit, press ▭ (Online).

2 **Press ▶ (Settings).**

3 **Use ▲ / ▼ to select <User Maintenance>, and press OK.**
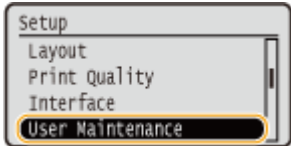
4 **Select <Adj. Print Position>, and press OK.**
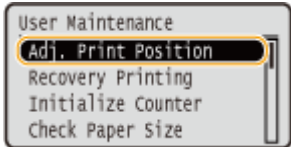
5 **Select the combination of the direction to adjust and the paper source, and press OK.**

● For <Offset X (2-Sided)>, first select the paper source and then adjust the print position.

```
Adj. Print Position
  Offset Y (MP Tray)
  Offset X (MP Tray)
  Offset Y (Drawer 1)
  Offset X (Drawer 1)
```
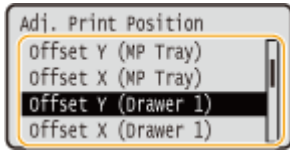
NOTE:

Print position adjustment for 2-sided printing

● <Offset Y (2-Sided)> and <Offset X (2-Sided)> allow you to adjust the print position on the first page (front side). The print position on the second page (back side) will be adjusted based on the values set for each paper source.

■ **An example of print position adjustment**

First page (front side)	<Offset Y (2-Sided)> setting value
Second page (back side)	<Offset Y (MP Tray)> setting value

6 **Set a value, and press** ⬛ **.**

● Based on the printout made by Printing Position Adjustment Print, use ▲ / ▼ to enter a value.

● When <Offset Y (2-Sided)> is specified, the print position is adjusted by the input values for all paper sources.

```
Offset Y (Drawer 1)
        ▲
     [0.00] in
        ▼
   (-0.20-+0.20)
```
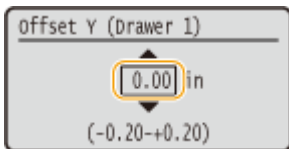
● To adjust another position or paper source, repeat steps 5 and 6.

7 **Press** ⬛ **(Online).**

⇒ The screen returns to the main screen.

8 **Press** ⬛ **(Online) again.**

⇒ The machine becomes online.

9 **Perform the Printing Position Adjustment Print, and check the adjusted print position on the printout.** ●**Step 1: Printing the Current Print Position(P. 584)**

Adjusting all print positions

You can use <Offset Y> and <Offset X> in the setting menu of the operation panel to adjust the print positions for all types of printing regardless of the paper source. You can adjust the print position in the range of -2.00" to +2.00" (-50.0 to +50.0 mm) in 0.01" (0.5 mm) increments in either direction: vertical and horizontal.
●**Offset Y/Offset X(P. 399)**

Printing Reports and Lists

0YS1-076

You can check the condition of consumables and the machine settings by printing reports and lists.

> **NOTE**
>
> **Asterisks (*)**
>
> - Settings marked with "*1" are not displayed depending on whether an optional SD card is installed on the machine.
>
> - Settings marked with "*2" are not displayed when [Display Job Log] check box of the Remote UI is not selected. **Hiding the Print Job History(P. 294)**

Configuration Page

You can check the machine settings (**Setup Menu(P. 363)**), the contents registered in the machine, and other information in list form. The other information includes the amount of remaining toner, the number of printed pages, and the capacity of the memory (RAM) mounted on the machine. Setting items whose name is preceded by an asterisk (*) are the items whose setting was changed from the factory default.

◀ (Utility) ▶ <Configuration Page> ▶ [OK] ▶ <Yes> ▶ [OK]
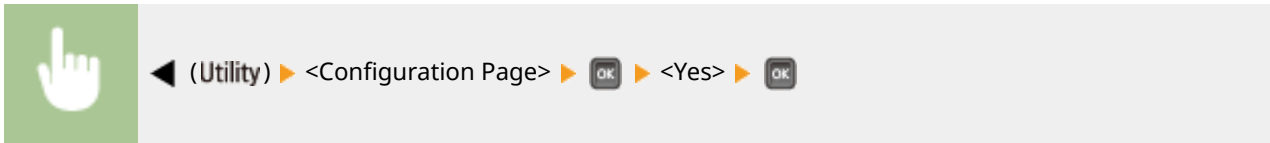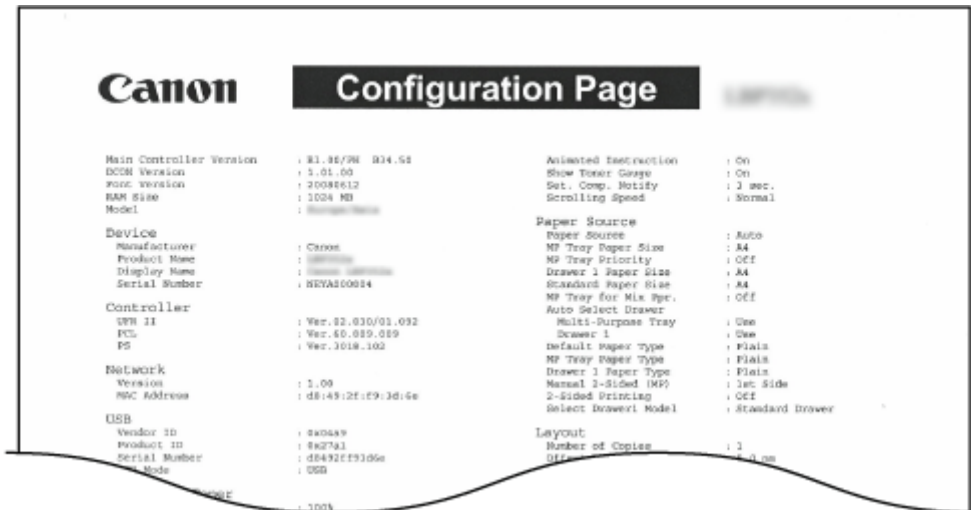
Example:

Network Status Print

You can check the settings about the network configured in the machine (**Network(P. 379)**) in list form. The information about the security including the address filter settings and IPSec settings is also printed.
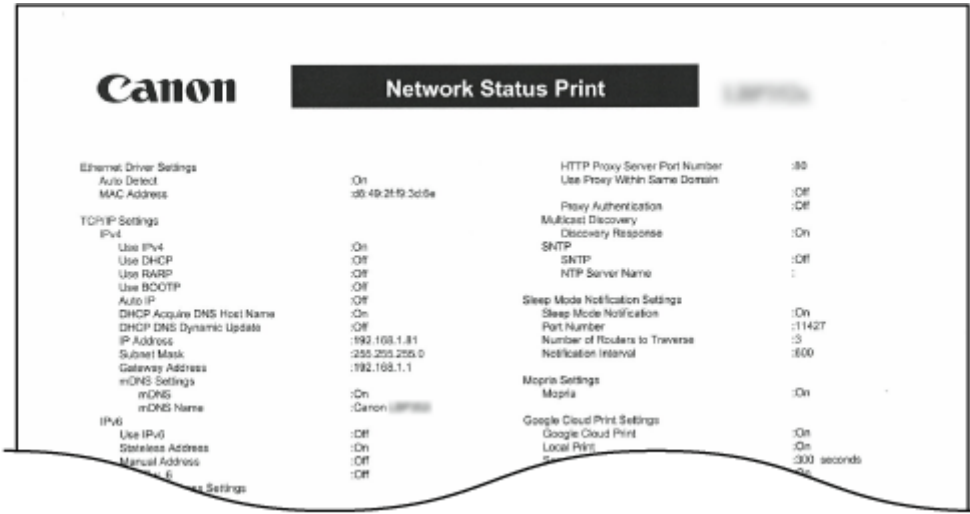
◀ (Utility) ▶ <Network Status Print> ▶ OK ▶ <Yes> ▶ OK

Example:

Consmbl. Status Prt.

The information such as toner remaining amount, warning messages, and information on where you can purchase new toner cartridges can be viewed in list form.

◀ (Utility) ▶ <Consmbl. Status Prt.> ▶ OK ▶ <Yes> ▶ OK
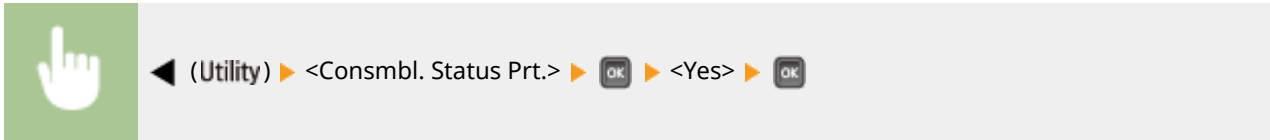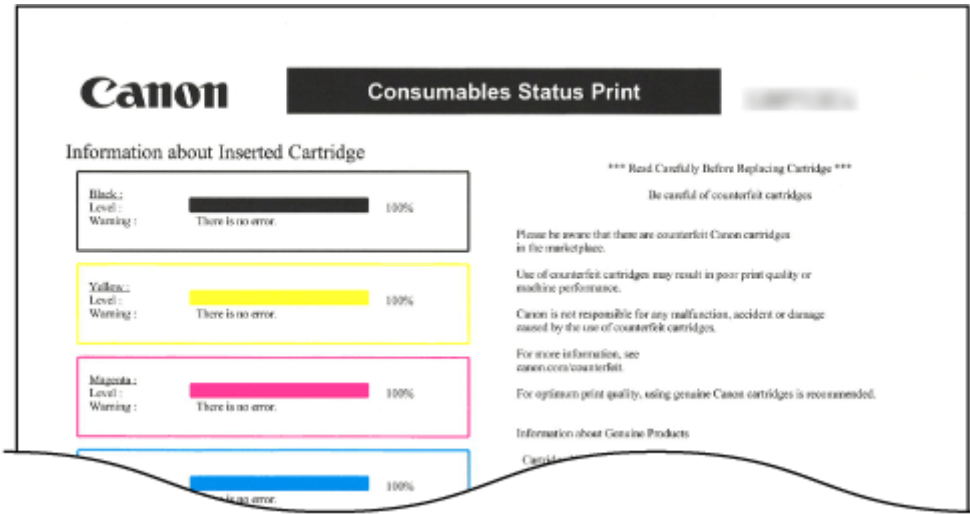
Example:

IPSec Policy List

You can check the list of policy names and the IPSec settings registered in the machine by printing an IPSec Policy List.

◀ (Utility) ▶ <IPSec Policy List> ▶ OK ▶ <Yes> ▶ OK
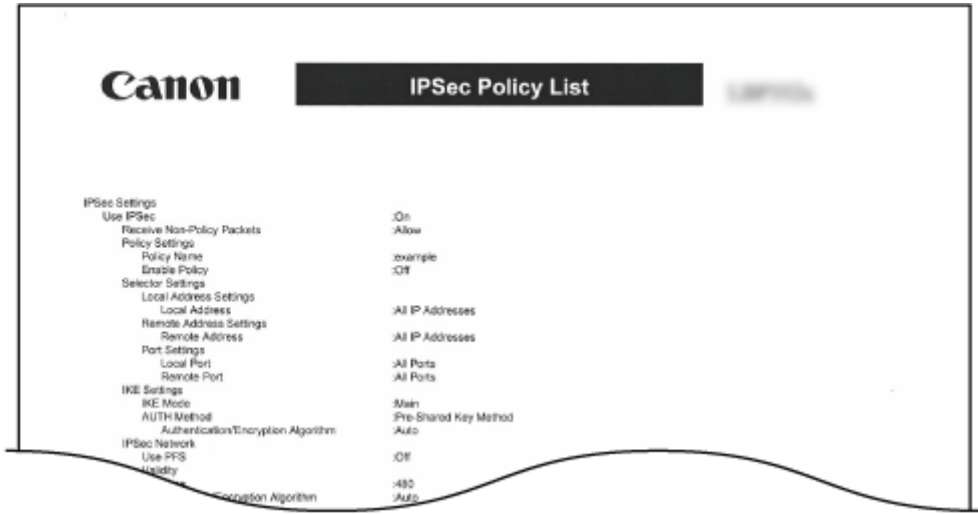
Example:

E-Mail RX Log List

You can check a log consisting of subjects and received date/time of e-mails received in the machine in list form.

◀ (Utility) ▶ <E-Mail Print Utility> ▶ OK ▶ <E-Mail RX Log List> ▶ OK ▶ <Yes> ▶ OK
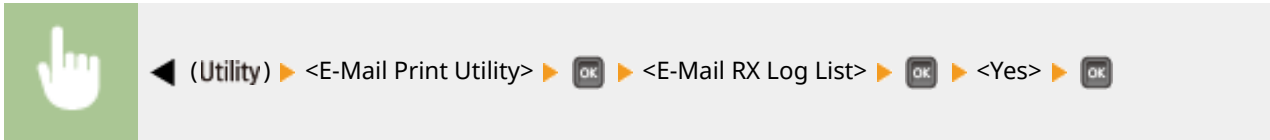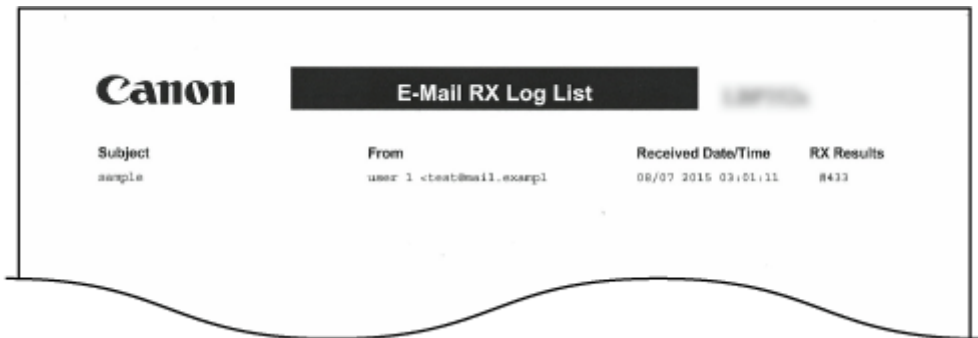
Example:

Page Count List

You can check the number of pages printed for each department by printing a report when [Department ID Management] is enabled.

☞ ◀ (Utility) ▶ <Page Count List> ▶ OK ▶ <Yes> ▶ OK
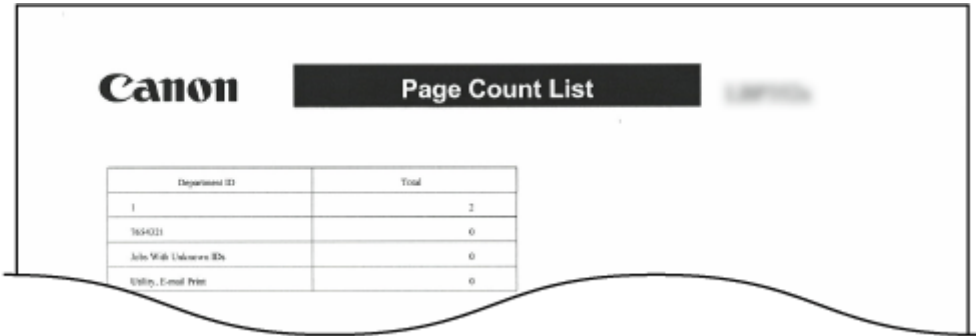
Example:

Counter Report

You can print an aggregate report of the number of pages printed for each counter.

☞ ◀ (Utility) ▶ <Counter Report> ▶ OK ▶ <Yes> ▶ OK
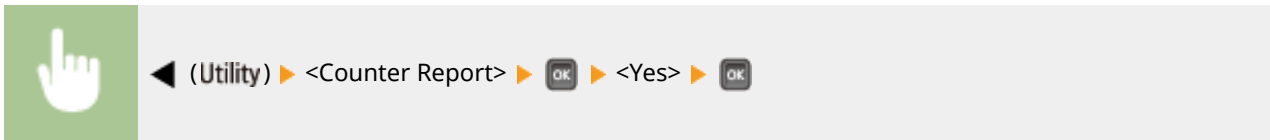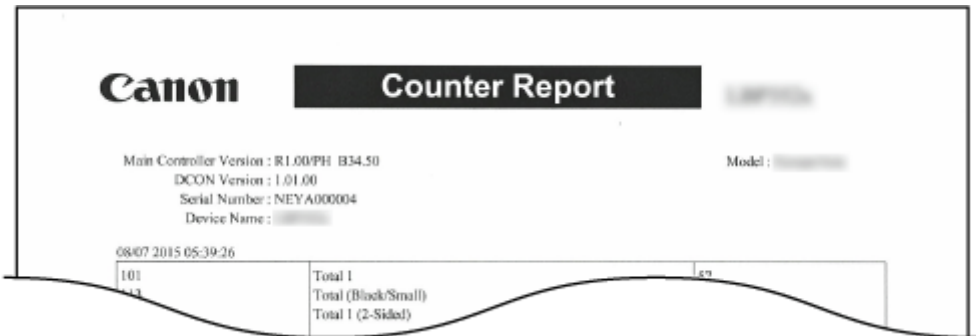
Example:

Print MEAP Sys. Info

You can check the information about MEAP applications installed in the machine and the MEAP system applications in list form if the MEAP function is enabled.

☞ ◀ (Utility) ▶ <Print MEAP Sys. Info> ▶ OK ▶ <Yes> ▶ OK
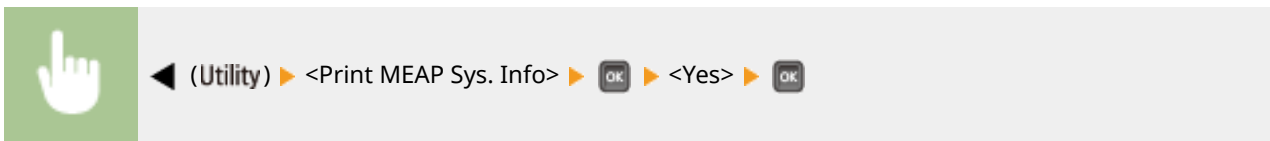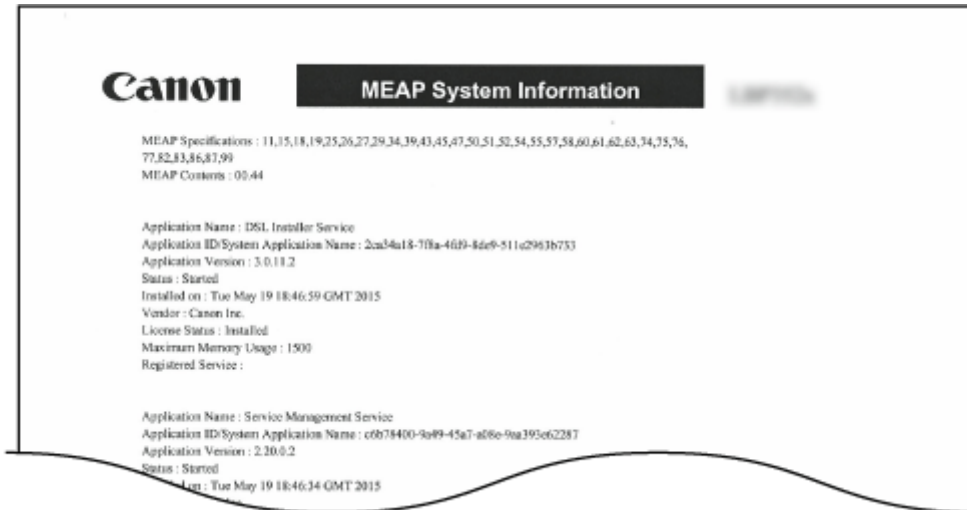
Example:

PCL Font List

You can check the fonts available in PCL mode in list form. **⬤Font Samples(P. 669)**

◀ (Utility) ▶ <PCL Utility> ▶ OK ▶ <Font List> ▶ OK ▶ <Yes> ▶ OK

Example:

PS Mode List

The settings for use of the PS mode and the internal information items registered in the machine are printed in list form.

⬤Configuration Page(P. 593)
⬤Font List(P. 593)

■ Configuration Page

You can check the machine settings (●**PS(P. 479)**) and the contents registered in the machine in list form.

◀ (Utility) ▶ <PS Utility> ▶ [OK] ▶ <Configuration Page> ▶ [OK] ▶ <Yes> ▶ [OK]
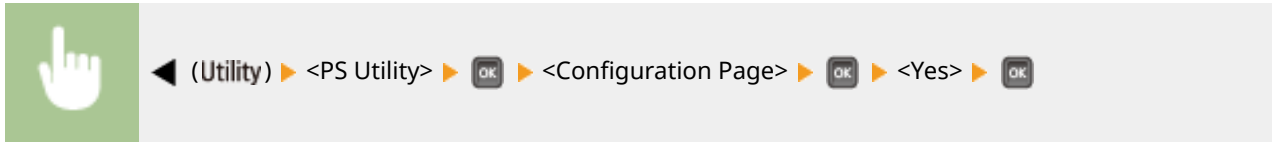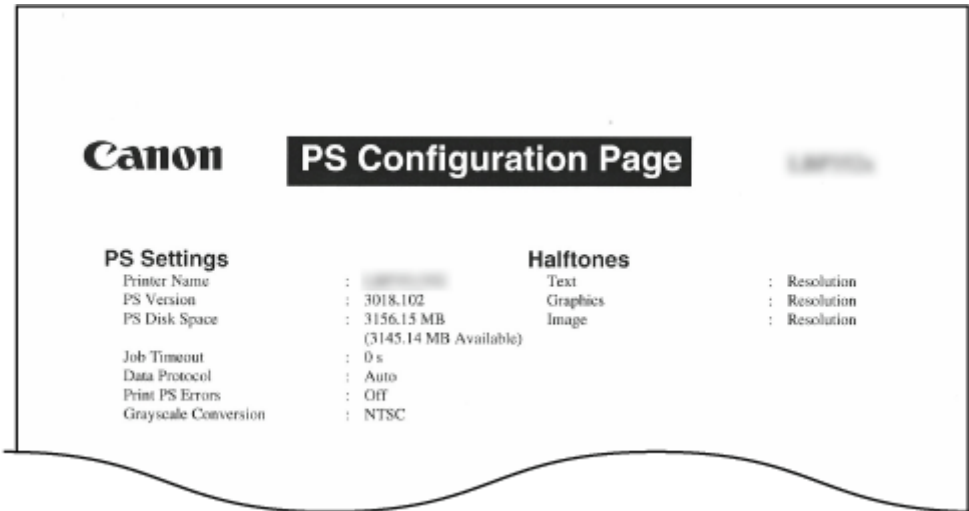
Example:

■ Font List

You can check the fonts available in PS mode in list form.

◀ (Utility) ▶ <PS Utility> ▶ [OK] ▶ <Font List> ▶ [OK] ▶ <Yes> ▶ [OK]
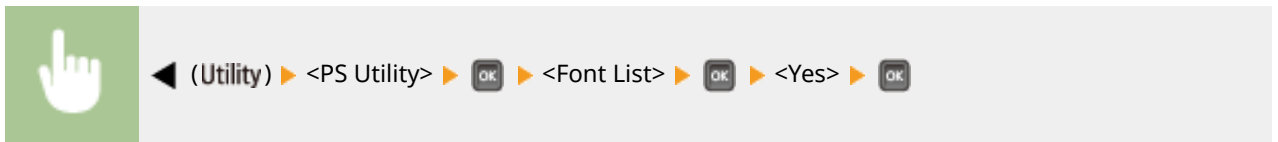
Example:

Stored Job List *1

You can print a list of documents stored in the SD card installed on the machine.

▲ (Job) ▶ <Stored Job List> ▶ OK ▶ <Yes> ▶ OK

Example:

Job Print Log *2

You can print a log of documents printed from the computer in list from.

▲ (Job) ▶ <Job Print Log> ▶ OK ▶ <Yes> ▶ OK

Example:

Stored Job Print Log *1*2

You can print a print log of documents stored in the SD card installed on the machine in list form.

☝ ▲ (Job) ▶ <Stored Job Print Log> ▶ [OK] ▶ <Yes> ▶ [OK]

Example:

Report Print Log *2

You can print the settings and a print log of reports in list form.

☝ ▲ (Job) ▶ <Report Print Log> ▶ [OK] ▶ <Yes> ▶ [OK]

Example:

E-Mail Print Log *2

You can print a print log of received e-mails in list form.

☝ ▲ (Job) ▶ <E-Mail Print Log> ▶ [OK] ▶ <Yes> ▶ [OK]

Example:

LINKS

Utility Menu(P. 492)
Job Menu(P. 497)

Viewing the Counter Value

You can check the number of printed pages.

◎Checking Total Number of Printed Pages(P. 597)
◎Checking the Number of Pages Printed for Each Department(P. 597)

Checking Total Number of Printed Pages

You can check the total number of pages so far printed, as well as the current number of black and white printed pages and that of color printed pages.
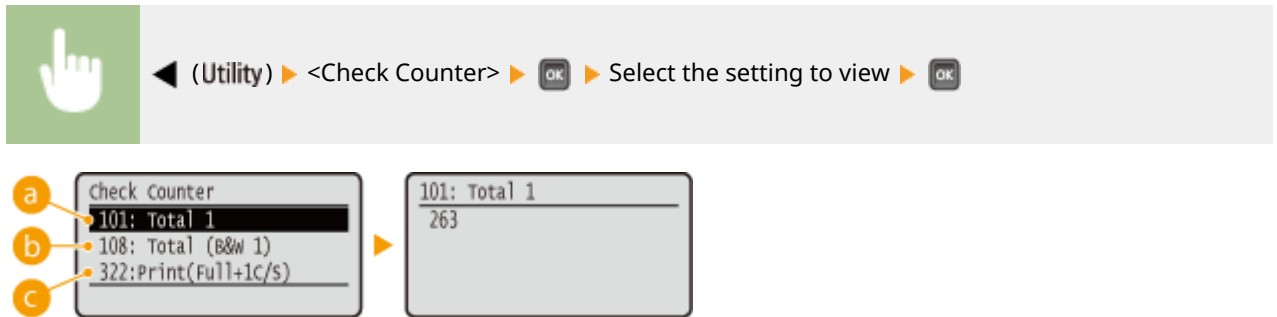
◀ (Utility) ▶ <Check Counter> ▶ [OK] ▶ Select the setting to view ▶ [OK]

```
Check Counter
a  101: Total 1
b  108: Total (B&W 1)
c  322:Print(Full+1C/S)
```
▶
```
101: Total 1
263
```

ⓐ <101: Total 1>
You can check the total number of printed pages.

ⓑ <108: Total (B&W 1)>
You can check the number of pages printed in black and white.

ⓒ <322:Print(Full+1C/S)>
You can check the number of pages printed in color (other than e-mail printing).

Checking the Number of Pages Printed for Each Department

You can check the number of pages printed for each department.

1 Start the Remote UI and log on in Management Mode. ◎Starting Remote UI(P. 336)

2 Click [Settings/Registration].
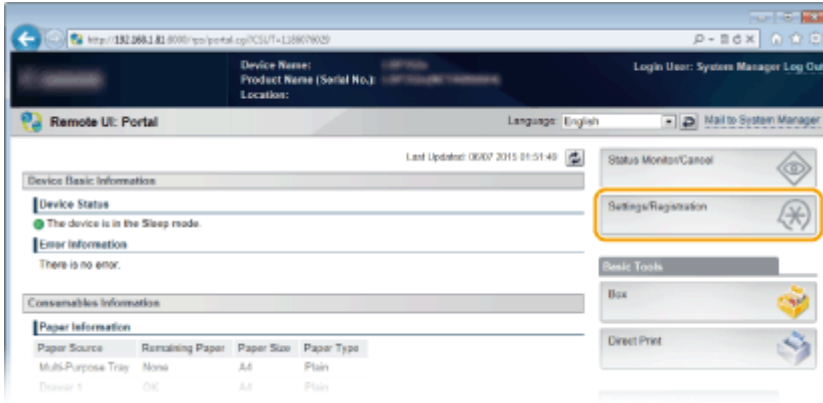
3 **Click [Department ID Management].**
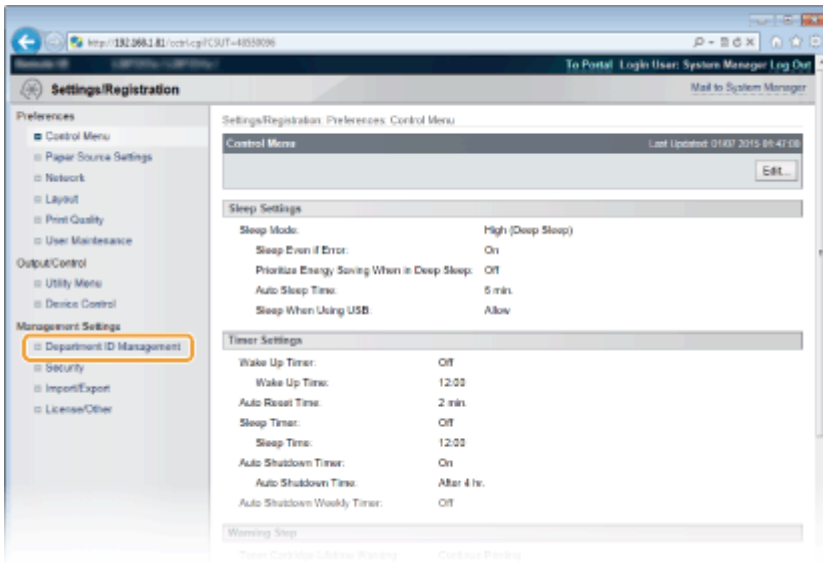
➠ The number of printed pages is displayed for each Department ID under [Printed Pages].
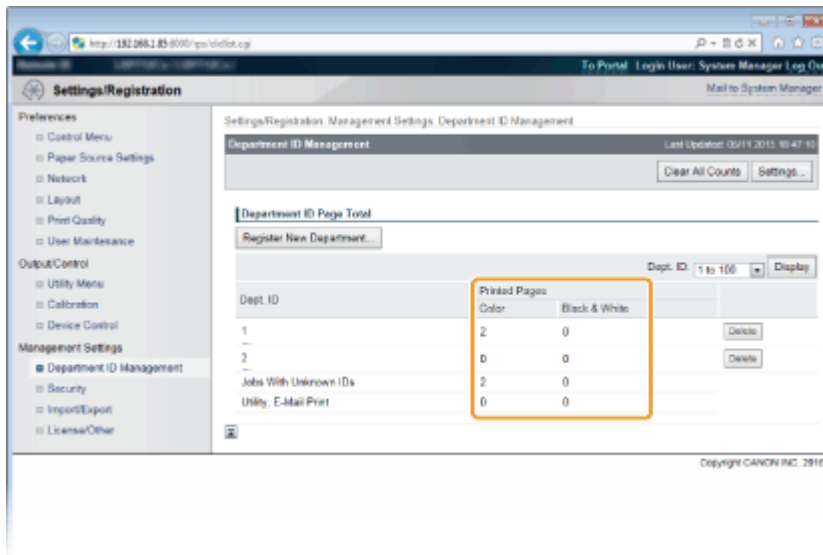
NOTE

To print the check result
◯**Page Count List(P. 590)**

To clear the page count to zero

- When you want to clear the page count to zero for each department, click the text link under [Dept. ID], and click [Clear Count] ▶ [OK].
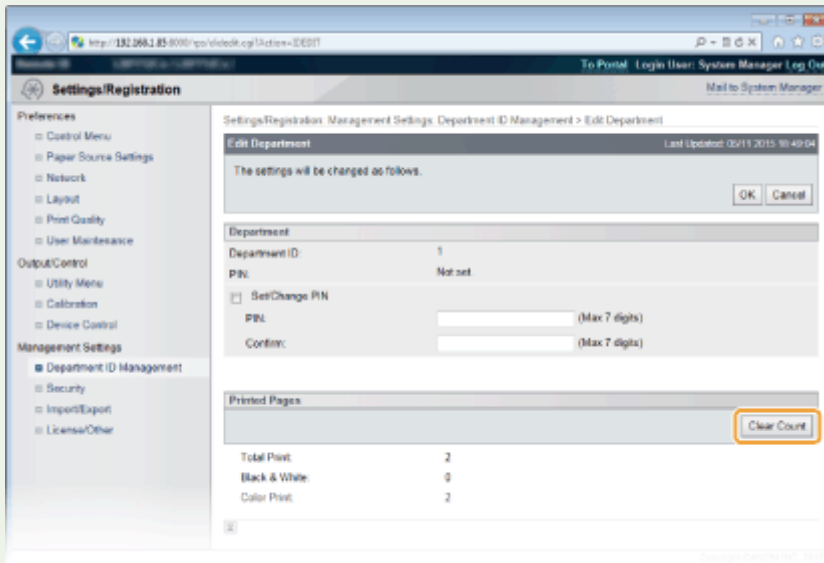
- If you want to return the counts of all departments to zero, click [Clear All Counts] ▶ [OK].
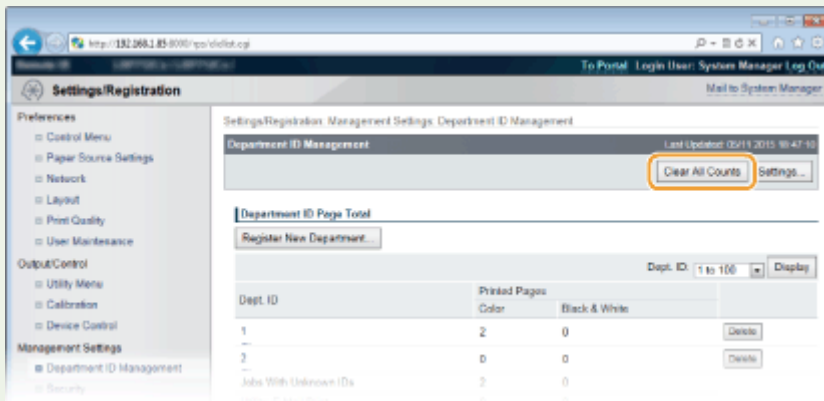
Checking Consumables

You can use the operation panel to check the information of the consumables.

Checking Paper(P. 600)
Checking the Toner Cartridge Model(P. 600)
Checking the Amount of Remaining Toner(P. 601)
Checking the Model Numbers of Waste Toner Container(P. 601)
Checking the Status of Waste Toner Container(P. 601)

Checking Paper

You can display the currently specified paper size and paper type, and the remaining paper level for each paper source.

◀ (Utility) ▶ <Consumables Info.> ▶ OK ▶ <Paper Information> ▶ OK ▶ Select the paper source ▶ OK

```
Paper Information          Multi-Purpose Tray
Multi-Purpose Tray           LTR
Drawer 1                     Mixed Types
Drawer 2          ▶          Remaining Paper: OK
Drawer 3
```
ⓐ
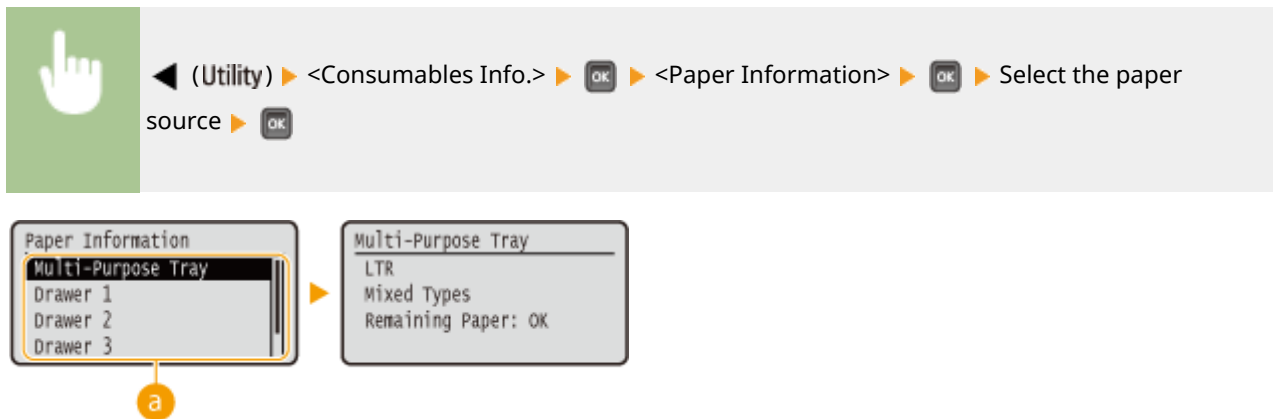
ⓐ Paper source selection
Select the paper source of which information is displayed.

Checking the Toner Cartridge Model

You can display the model number of the toner cartridge for the machine.

◀ (Utility) ▶ <Consumables Info.> ▶ OK ▶ <Toner Cart. Model> ▶ OK ▶ Select the color ▶ OK

```
Toner Cart. Model         Cyan
Cyan                      Canon Cartridge 040 Cyan
Magenta           ▶
Yellow
Black
```
ⓐ
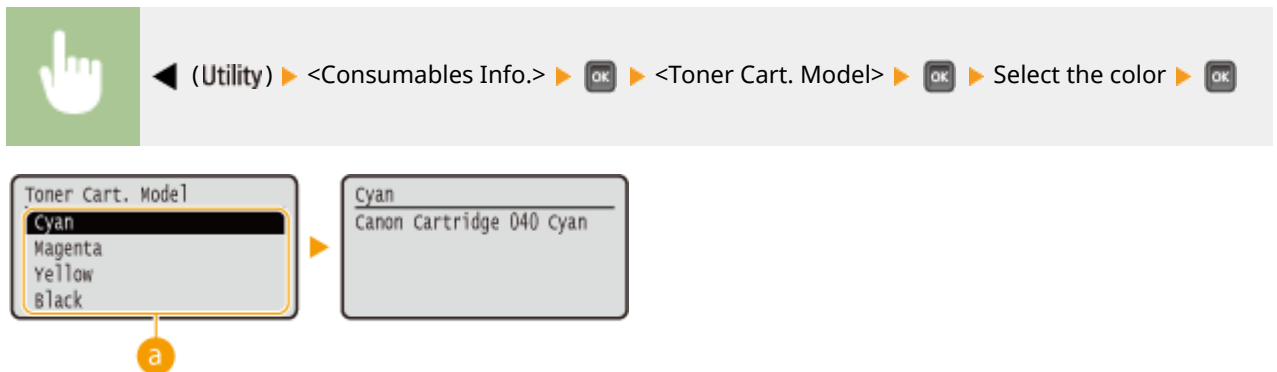
ⓐ Color selection
Select the model number display color.

Checking the Amount of Remaining Toner

You can display the amount of remaining toner.

◀ (Utility) ▶ <Consumables Info.> ▶ OK ▶ <Remaining Toner> ▶ OK ▶ Select the color ▶ OK

```
Remaining Toner
 Cyan
 Magenta
 Yellow
 Black
```
```
Cyan
[====]  100%
```

ⓐ
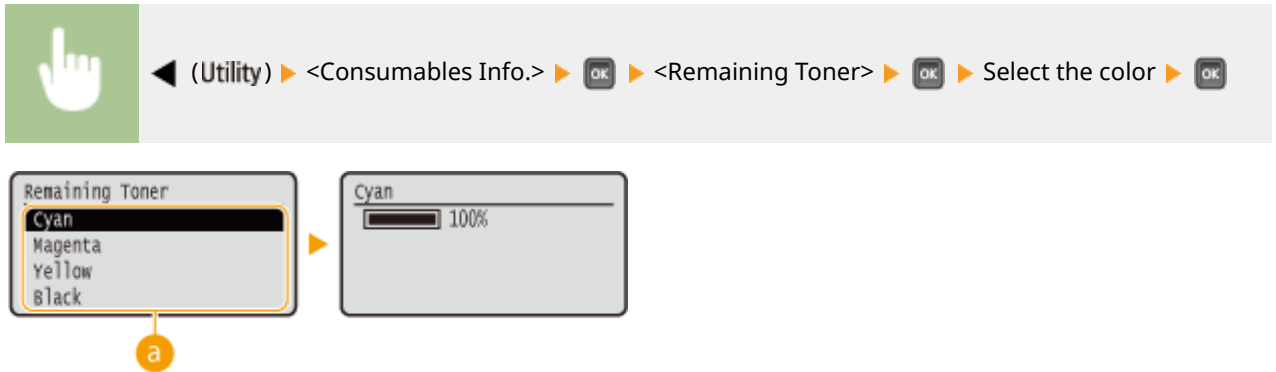
ⓐ Color selection

Select the remaining toner amount display color.

> **NOTE**
>
> - The displayed remaining toner level can be used only as a guide and may differ from the actual level.

Checking the Model Numbers of Waste Toner Container

Displays the model number of the waste toner used in the machine.

◀ (Utility) ▶ <Consumables Info.> ▶ OK ▶ <Waste Toner cntnr.> ▶ OK

```
Waste Toner cntnr.
Waste Toner Box
WT-B1
```
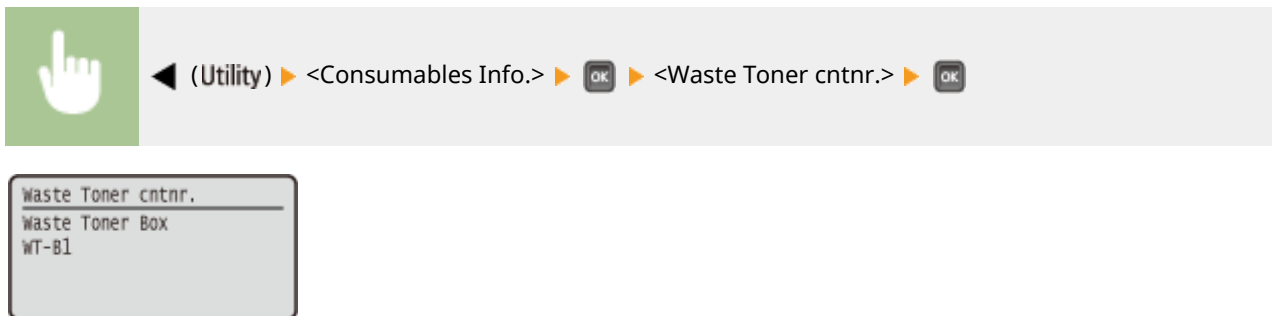
Checking the Status of Waste Toner Container

Displays the status of the waste toner container used in the machine.

◀ (Utility) ▶ <Consumables Info.> ▶ OK ▶ <Waste Toner Status> ▶ OK

```
Waste Toner Status
OK
```
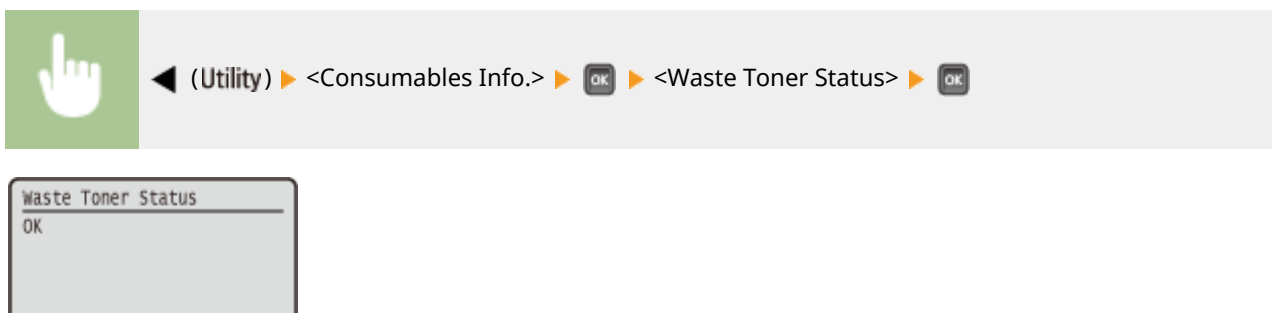
Initializing Settings

0YS1-079

You can restore the following settings:

�»**Initializing Menu(P. 603)**
�»**Initializing the Network Settings(P. 604)**

Initializing Menu

0YS1-07A

You can restore the settings of the machine (▶**Setup Menu(P. 363)**) to the factory default settings.

IMPORTANT

Do not press the power switch when the initialization is in progress

- If the machine is turned OFF during the initialization, it may be damaged.

If a Remote UI Access PIN has been specified

- The Remote UI Access PIN is also initialized. After performing initialization, respecify a Remote UI Access PIN. ▶**Setting a Remote UI PIN(P. 266)**

NOTE

- When you want to initialize the network settings, follow the procedure in ▶**Initializing the Network Settings(P. 604)** .

- When you want to initialize the settings in <Adj. Print Position>, follow the procedure in ▶**Adj. Print Position(P. 421)** .

▶ (Settings) ▶ <Initialize Menu> ▶ [OK] ▶ <Yes> ▶ [OK] ▶ Perform a hard reset (▶**Performing a Hard Reset(P. 499)**)

Initializing the Network Settings

0YS1-07C

You can restore the network settings (▶**Network(P. 379)**) to the factory default settings.

> **IMPORTANT**
>
> **Do not initialize the network settings when the machine is printing or receiving print data**
>
> - Doing so may result in incorrect printing, paper jams, or damage to the machine.

▶ (Settings) ▶ <Network> ▶ [OK] ▶ Check the message ▶ [OK] ▶ <Init. Network Set.> ▶ [OK] ▶ <Yes> ▶ [OK] ▶ Perform a hard reset (▶**Performing a Hard Reset(P. 499)**)

Appendix

Appendix

0YS1-07E

This chapter contains technical specifications of this machine, instructions on how to use the User's Guide, disclaimers, copyright information, and other important information for customers.

Third Party Software

0YS1-091

Feature Highlights

0YS1-07F

Give the features that are described in this section a try. The features are grouped under three headings: "Going Green and Saving Money," "Improving Efficiency," and "So Much More."

Going Green and Saving Money

0YS1-07H

Easy on the environment, easy on your wallet

There are lots of ways to cut back on paper, toner, power, and expenses.

---
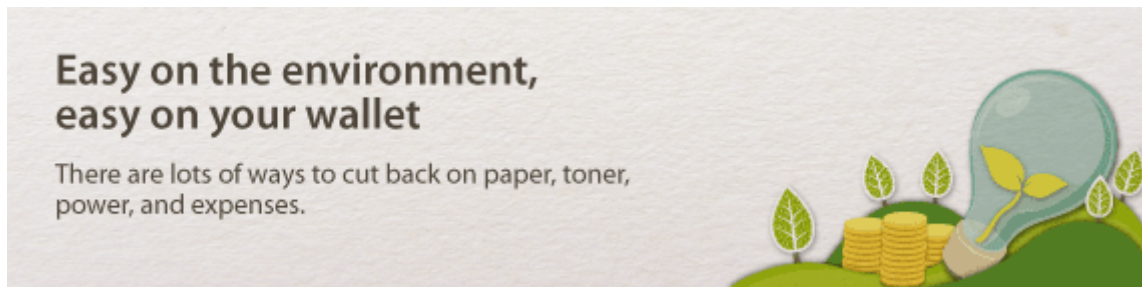
01   **2-Sided Printing**

You can print on both sides of the paper. Use 2-sided printing to save paper not only on large print jobs but also when you only want to print a few pages. To save even more, combine 2-sided printing with N on 1 printing of multiple pages on one sheet of paper. You can print up to 32 pages on a single sheet, which is both economical and environmentally friendly.

To print 2-sided documents from your computer: **Switching 1-Sided and 2-Sided Printing(P. 84)**

To print multiple pages onto one sheet from your computer: **Printing Multiple Pages onto One Sheet(P. 88)**

---

02   **Print Multiple Pages on a Single Sheet**

When there are many pages in a document, the printout can be inconveniently bulky-hard to carry around and store, and also hard to read. But there is a solution. Print multiple pages onto one sheet! This allows you to save paper and make your documents slimmer and easier to handle. It is even more effective when combined with 2-sided printing.

To print multiple pages onto one sheet from your computer: **Printing Multiple Pages onto One Sheet(P. 88)**

To print 2-sided documents from your computer: **Switching 1-Sided and 2-Sided Printing(P. 84)**

Sleep Mode

03

If you will not be using the machine for a while, you can save power by putting it into sleep mode, either manually or automatically. You don't need to turn OFF the power each time, but you can still have the machine minimize its power consumption. The auto shutdown function can boost the savings, by automatically turning OFF the machine if it remains idle for a longer time. These convenient functions work in the background to save power and money every day.

To save power by putting the machine into sleep mode: **Entering Sleep Mode(P. 63)**

To configure the machine to be automatically turned OFF: **Setting Auto Shutdown Time(P. 66)**

Save Toner

04

To economize on toner, you can use the <Toner Save> mode for drafts and test printouts. Or you can switch between modes according to purpose, using normal mode for beautiful photos and draft mode for company documents that do not require presentation quality.

For more information about this function, see **Saving Toner(P. 105)** .

Canon strives to be environmentally and energy conscious in all aspects of its operations.
Click here to learn about the ways in which Canon is helping to protect the environment.

Improving Efficiency

0YS1-07J

Little things that save lots of time

Here are some simple operations that can make complicated tasks more efficient.
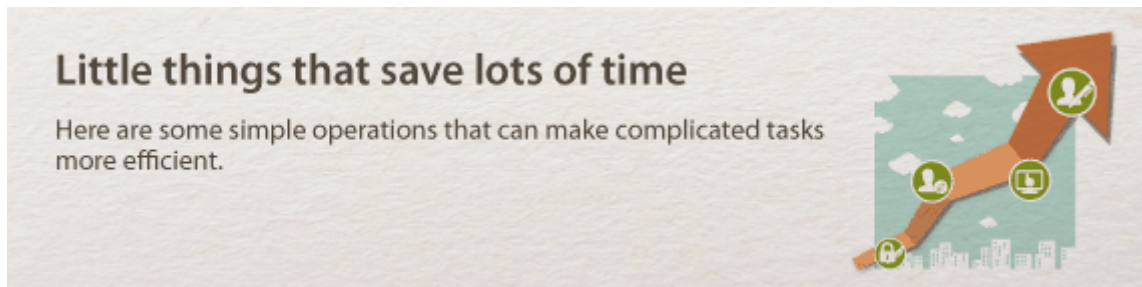
01   **Print without Application Programs**

You can send PDF/PS/EPS/JPEG/TIFF/XPS data from the Remote UI directly to the machine for printing. You can also print without a computer by connecting a USB memory device to the machine. There is no need to open files, so you do not need to start an application program. This is very convenient when you are in a hurry and do not have access to a computer.
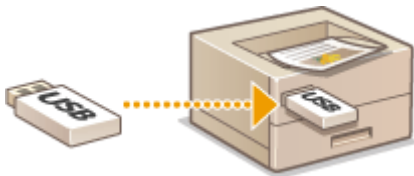
To print data directly from the Remote UI: **Printing without Opening a File (Direct Print)(P. 145)**

To print data directly from USB Memory (USB Direct Print): **Printing from USB Memory (USB Direct Print) (P. 118)**

02   **Remote Management with Remote UI**

The Remote UI allows you to manage the machine remotely from the computer at your desk. You can check the remaining amounts of paper and toner cartridge, and check the current status of print jobs to decide if you should temporarily interrupt print jobs to print urgent documents or move documents up among the jobs waiting to be printed. Save time and trouble by eliminating trips between your desk and the printer.
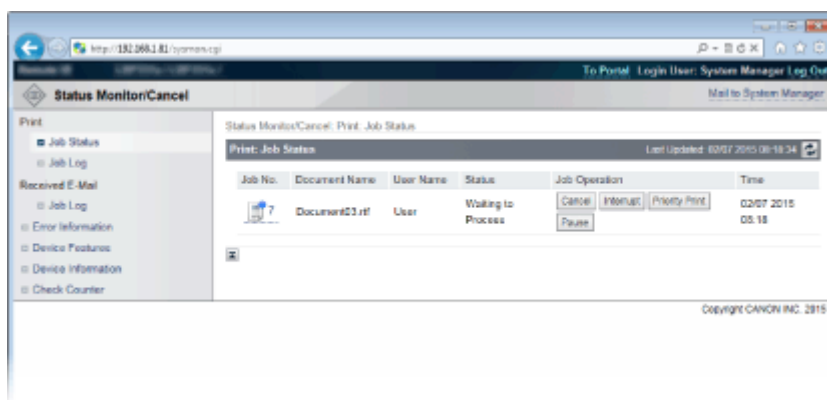
For more information about this function, see ⟩**Using Remote UI(P. 335)** .

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03 **Register Favorite Settings and Call Them Up at Any Time** ⌄

Everyone in the office uses the printer. If you register the most popular settings as the default settings, you can use them right away. You can also register frequently used combinations of print settings as "profiles." Then you can call up your favorite settings in a single operation, by selecting a profile instead of selecting each setting every time you print.
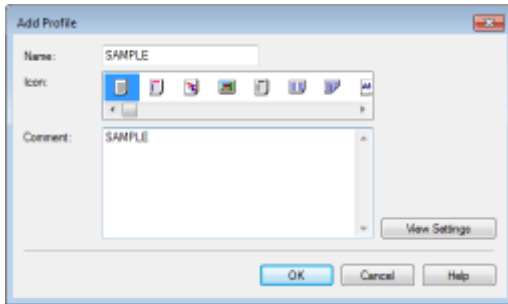
To change default print settings: ⟩**Changing Default Settings(P. 114)**

To register combinations of frequently used print settings as "profiles": ⟩**Registering Combinations of Frequently Used Print Settings(P. 112)**

---

04 **Save Time with Shortcuts** ⌄

When you have a number of documents to print, it would be convenient to print them all with one operation. Canon PageComposer allows you to combine multiple documents and print them all at once. You can also save frequently printed documents like fax cover sheets in the machine's SD card, and then print them directly from the operation panel. You don't need to return to your computer and start the printer driver. These shortcuts save time and allow you to work more efficiently.
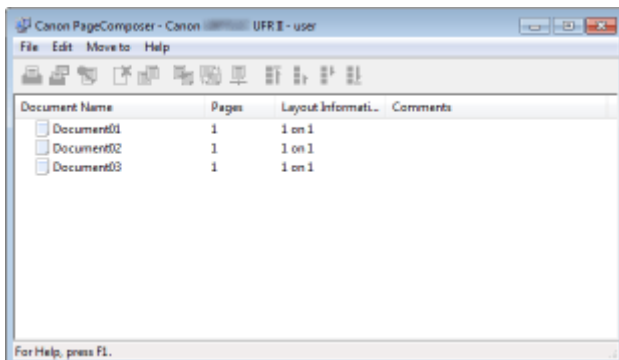
To combine multiple documents and print them all at once: ⟩**Combining and Printing Multiple Documents(P. 107)**

To print a document saved on the SD card installed on the machine: ⟩**Printing a Document Stored in the Machine (Stored Job Print)(P. 136)**

05 **Interrupt Printing for Rush Jobs**

You need to print 1 page right away, but a 200-page document is printing and 5 other print jobs are waiting! At times like this, you can use the Interrupt Print function to have your page printed now without canceling the other jobs. When your page is finished, printing of the other print jobs resumes smoothly and automatically.
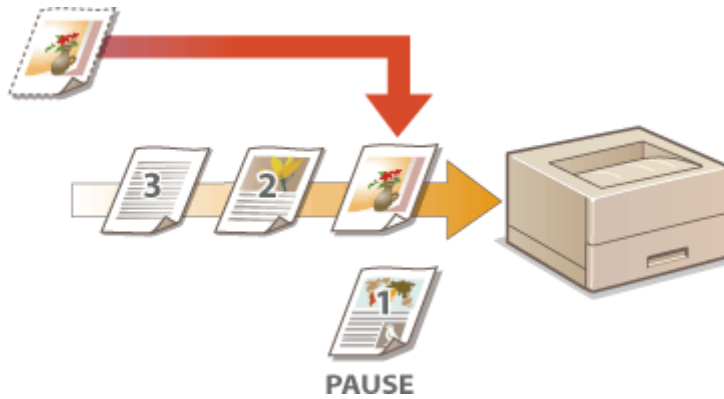
For more information about this function, see **Checking Current Status of Print Documents(P. 345)** .

06 **Make Print Settings Quickly with Intuitive Operation**

You can easily specify the page layout as well as binding position, switching between 1-sided and 2-sided printing, etc. intuitively on the preview image in the printer driver. The simple click-operation allows you to conveniently make settings while viewing how settings are applied.
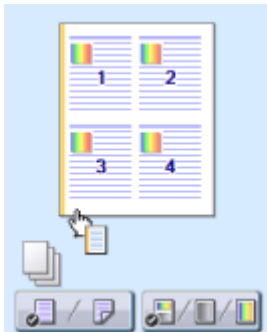
For more information about this function, see **Basic Printing Operations(P. 73)** .

So Much More

0YS1-07K
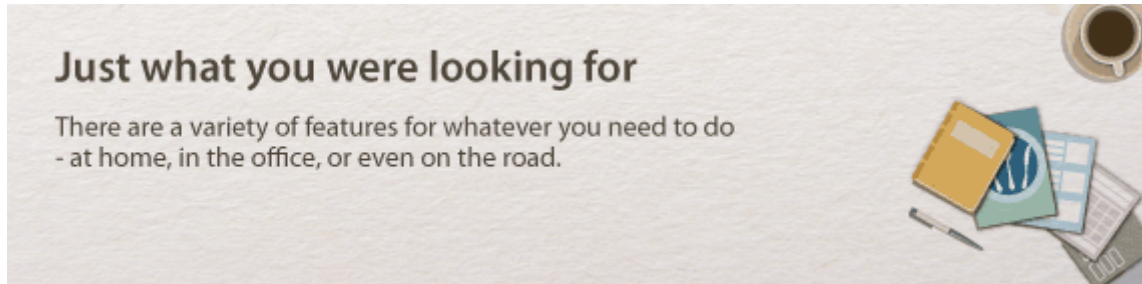
Just what you were looking for

There are a variety of features for whatever you need to do - at home, in the office, or even on the road.

---

01   **Using a smartphone/tablet**

At times such as when you want to quickly print out a proposal you completed on a tablet while travelling to a business destination, Canon Mobile Application comes in handy. Even in environments without a wireless LAN router, you can connect to the machine with a mobile device wirelessly and directly.
PCless, quick, and easy! An even broader range of possibilities for work/play with functionality made for this age of speed.

For more information about this function, see **Can Be Used Conveniently with a Mobile Device(P. 168)**

---

02   **Easy Printing with Google Cloud Print**

Hook up to Google Cloud Print with your laptop or cell phone, send your data, and out come your printed documents. With this machine, Google Cloud Print, and your mobile device, print whenever you want from wherever you want.

For more information about this function, see **Using Google Cloud Print(P. 179)** .

---

03   **Keep Your Printouts Private**

Normally, when you print something from your computer, it comes out of the printer right away. However, if you have sensitive documents, this may not be what you want. Just use secure printing and no one will be able to print your documents without entering your password on the machine's operation panel. Don't let your confidential documents lie exposed on the tray for everyone to see. For even greater security, you can print a watermark such as "CONFIDENTIAL" or "PRIVATE COPY."
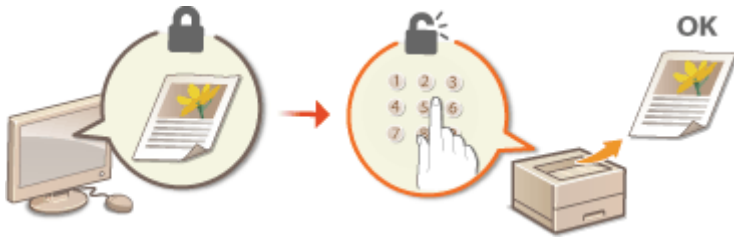
To print a document secured by a PIN: **Printing a Document Secured by a PIN (Secured Print)(P. 130)**

To print watermarks such as "CONFIDENTIAL" over the document: **Printing Watermarks(P. 97)**

04   Make Posters

Blow up a regular one-sheet printout and make an exceptionally large poster. A large poster will be printed out on nine sheets. Put them together in a 3x3 grid, and voila!
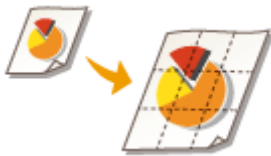
For more information about this function, see **Printing Posters(P. 90)** .

05   Make Booklets

Sometimes your documents deserve better presentation than a staple in the upper-left corner. Making booklets is easy. The print driver will take care of the page positioning for you. All you have to do is fold the pages and staple them along the middle.

For more information about this function, see **Printing Booklet(P. 92)** .

06   Automatically Collate Meeting Handouts

When you print multiple copies of a multi-page document, you can use the collate function to print one copy after another with all of the pages in the correct order. This is convenient when preparing handouts for meetings or presentations.

For more information about this function, see **Collating Printouts by Page(P. 86)** .

Specifications

0YS1-07L

The machine specifications are subject to change without prior notice due to improvements of the machine.

Machine Specifications

0YS1-07R

Hardware Specifications

Type	Desktop page printer
Printing Method	Semiconductor laser + dry-type electrophotographic method
Toner Fixing System	On-demand fixing system
Resolution	600 dpi
Print Speed *1 (Plain paper (16 to 24 lb Bond (60 to 90 g/m²)), Letter continuous printing)	Black and white printing ● 1-sided printing: 40 sheets/minute ● 2-sided printing: 40 pages/minute *2 Color printing ● 1-sided printing: 40 sheets/minute ● 2-sided printing: 40 pages/minute *2
Warm-Up Time *3 (from power ON until machine enters standby)	● Normal start: 31 seconds or less ● Quick start: 2 seconds or less
Recovery Time *4 (recovery from sleep mode to standby)	● Low (Panel Sleep): 0 second ● Mid (Printer Sleep): 6 seconds or less ● High (Deep Sleep): 6 seconds or less
First Print Time *4 (1-sided printing on Letter size paper, with the output tray used)	● Black and white printing: 5.0 seconds ● Color printing: 5.9 seconds
Acceptable Paper Stock	○Paper(P. 621)
2-Sided Printing	● Standard size: A4, B5, A5, Legal, Letter, Executive, Foolscap, and 16K, Indian Legal, Government Legal, Government Letter, Australia Foolscap ● Custom paper size: Width 5 7/8" to 8 1/2" (148.0 to 215.9 mm), Length 8 1/4" to 14" (210.0 to 355.6 mm)
Paper Output	Face down
Output Capacity *5 (Output Tray)	Approx. 200 sheets

Noise
 	
(measured in accordance with ISO 7779, declared noise emission in accordance with ISO 9296)
	LwAd (Declared A-weighted sound power level (1 B = 10 dB))
	● During standby mode: 5.0 B or less
	● During printing:
	Black and white printing:
	  1-sided printing: 6.5 B or less
	  2-sided printing: 6.7 B or less

	Color printing:
	1-sided printing: 6.6 B or less
	2-sided printing: 6.7 B or less
	LpAm (Declared A-weighted sound pressure level (Bystander position))
	• During standby mode: 36 dB
	• During printing:
	Black and white printing:
	1-sided printing: 50 dB
	2-sided printing: 52 dB
	Color printing:
	1-sided printing: 51 dB
	2-sided printing: 52 dB
Environmental Conditions (Main unit only)	**System requirements** • Temperature: 50 to 86 °F (10 to 30 °C) • Humidity: 20 to 80% RH (no condensation)
Power Supply	120 to 127 V, 60 Hz
Power Consumption *6 (at 68 °F (20 °C))	• Maximum: 1,320 W or less • During operation: Approx. 600 W • During standby: Approx. 33 W • During sleep mode: <Low (Panel Sleep)>: Approx. 32 W <Mid (Printer Sleep)> *7: Approx. 6.0 W (Wired LAN connection) Approx. 6.2 W (USB connection) <High (Deep Sleep)> *7: Approx. 1.2 W (Wired LAN connection) Approx. 2.2 W (USB connection) • During power-off: 0.07 W or less (shutdown) 0.71 W or less (quick turn-OFF)
Consumables	Consumables(P. 626)
Weight *8	Approx. 54.7 lb (24.8 kg)

*1 The print speed may be slower depending on the output resolution, paper size, paper type, paper orientation, and a specified number of sheets to print.

*2 For 2-sided printing, one page printed on the front side of a sheet and one printed on the back side are counted as one output sheet.

*3 May vary depending on the use conditions of the machine (including attached optional accessories and installation environment).

*4 May vary depending on the output environment.

*5 May vary depending on the installation environment and paper type used.

*6 Even if the printer is turned OFF, power is still consumed slightly while the power plug is inserted in the AC power outlet. To stop the power consumption completely, unplug the power plug from the AC power outlet.

*7 Power may be consumed more than the values shown here according to the situation even if the sleep mode is set to <Mid (Printer Sleep)> or <High (Deep Sleep)>.

*8 The weight of the machine excluding the weight of a toner cartridge.

Controller Specifications

CPU	264 MHz + 528 MHz
Memory (RAM) Capacity	1,024 MB
Host Interface	● USB interface: Hi-Speed USB x 4 (Front side x 1, Back side x 3) ● Network interface: Common to 10BASE-T/100BASE-TX/1000BASE-T (RJ-45) Full Duplex/Half Duplex
User Interface	● LCD: 132 x 65 dots F-STN LCD ● LED indicator: 5 indicators ● Operation key: 12 keys ● Numeric key: Yes
ROM connector	1 connector
SD card slot	1 slot

Software Specifications

Built-in Control Command	PCL6, PostScript 3, UFR II, PDF, and XPS
Built-in Scalable Font	● PCL: 93 Scalable fonts, 10 Bitmap fonts ● PS: 136 standard fonts
Printable Range	**⊙Printable Area(P. 624)**
Network Interface	**Supported protocol** ● TCP/IP (Frame type: Ethernet II) ● SMB (option) **Print application** ● LPD ● RAW ● IPP/IPPS ● FTP ● WSD

Paper

0YS1-07S

■Supported Paper Sizes

Paper sizes that can be loaded in the paper drawer, multi-purpose tray, or optional paper sources are listed below.

✔ : Available —— : Unavailable

Paper Size	Drawer 1	Drawer 2 to 4 (optional)	Multi-Purpose Tray	Automatic 2-Sided Printing *1
A4 (8 1/4" x 11 3/4" [210.0 x 297.0 mm])	✔	✔	✔	✔
B5 (7 1/8" x 10 1/8" [182.0 x 257.0 mm])	✔	✔	✔	✔
A5 *2 (5 7/8" x 8 1/4" [148.0 x 210.0 mm])	✔	✔	✔	✔
A6 (4 1/8" x 5 7/8" [105.0 x 148.0 mm])	✔	✔	✔	——
Legal (LGL) (8 1/2" x 14" [215.9 x 355.6 mm])	——	✔	✔	✔
Letter (LTR) (8 1/2" x 11" [215.9 x 279.4 mm])	✔	✔	✔	✔
Statement (STMT) (5 1/2" x 8 1/2" [139.7 x 215.9 mm])	✔	✔	✔	——

*1 Automatic 2-sided printing is available without replacing paper.

*2 Can be loaded in portrait orientation. Automatic 2-sided printing is only possible when the paper is loaded in landscape orientation.

*3 The following sizes are available:
- When loaded in portrait orientation (only with the UFR II printer driver used):
  5 7/8" to 8 1/2" (148.0 to 215.9 mm), 5 7/8" to 8 1/2" (148.0 to 215.9 mm)
- When loaded in landscape orientation:
  4" to 8 1/2" (101.6 to 215.9 mm), 5 7/8" to 11 3/4" (148.0 to 297.0 mm)

*4 The following sizes are available:
- When loaded in portrait orientation (only with the UFR II printer driver used):
  5 7/8" to 8 1/2" (148.0 to 215.9 mm), 5 7/8" to 8 1/2" (148.0 to 215.9 mm)
- When loaded in landscape orientation:
  4" to 8 1/2" (101.6 to 215.9 mm), 5 7/8" to 14" (148.0 to 355.6 mm)

*5 The following sizes are available:
- When loaded in portrait orientation (only with the UFR II printer driver used):
  5" to 8 1/2" (127.0 to 215.9 mm), 5" to 8 1/2" (127.0 to 215.9 mm)
- When loaded in landscape orientation:
  3" to 8 1/2" (76.2 to 215.9 mm), 5" to 14" (127.0 to 355.6 mm)

*6 The following sizes are available:
- 5 7/8" to 8 1/2" (148.0 to 215.9 mm), 8 1/4" to 14" (210.0 to 355.6 mm)

Paper Size	Drawer 1	Drawer 2 to 4 (optional)	Multi-Purpose Tray	Automatic 2-Sided Printing *1
Executive (EXEC) (7 1/4" x 10 1/2" [184.1 x 266.7 mm])	✔	✔	✔	✔
Foolscap (FLSC) (8 1/2" x 13" [215.9 x 330.2 mm])	—	✔	✔	✔
16K (7 3/4" x 10 5/8" [195.0 x 270.0 mm])	✔	✔	✔	✔
Index Card (3" x 5" [76.2 x 127.0 mm])	—	—	✔	—
Indian Legal (8 1/2" x 13 5/8" [215.0 x 345.0 mm])	—	✔	✔	✔
Government Legal (8" x 13" [203.0 x 330.0 mm])	—	✔	✔	✔
Government Letter (8" x 10 1/2" [203.0 x 267.0 mm])	✔	✔	✔	✔
Australia Foolscap (8 1/8" x 13 1/4" [206.0 x 337.0 mm])	—	✔	✔	✔
Postcard (4" x 5 7/8" [100.0 x 148.0 mm])	—	—	✔	—
Reply Postcard (5 7/8" x 7 7/8" [148.0 x 200.0 mm])	—	—	✔	—
4 on 1 Postcard (7 7/8" x 11 5/8" [200.0 x 296.0 mm])	—	—	✔	—

*1 Automatic 2-sided printing is available without replacing paper.

*2 Can be loaded in portrait orientation. Automatic 2-sided printing is only possible when the paper is loaded in landscape orientation.

*3 The following sizes are available:
- When loaded in portrait orientation (only with the UFR II printer driver used):
  5 7/8" to 8 1/2" (148.0 to 215.9 mm), 5 7/8" to 8 1/2" (148.0 to 215.9 mm)
- When loaded in landscape orientation:
  4" to 8 1/2" (101.6 to 215.9 mm), 5 7/8" to 11 3/4" (148.0 to 297.0 mm)

*4 The following sizes are available:
- When loaded in portrait orientation (only with the UFR II printer driver used):
  5 7/8" to 8 1/2" (148.0 to 215.9 mm), 5 7/8" to 8 1/2" (148.0 to 215.9 mm)
- When loaded in landscape orientation:
  4" to 8 1/2" (101.6 to 215.9 mm), 5 7/8" to 14" (148.0 to 355.6 mm)

*5 The following sizes are available:
- When loaded in portrait orientation (only with the UFR II printer driver used):
  5" to 8 1/2" (127.0 to 215.9 mm), 5" to 8 1/2" (127.0 to 215.9 mm)
- When loaded in landscape orientation:
  3" to 8 1/2" (76.2 to 215.9 mm), 5" to 14" (127.0 to 355.6 mm)

*6 The following sizes are available:
- 5 7/8" to 8 1/2" (148.0 to 215.9 mm), 8 1/4" to 14" (210.0 to 355.6 mm)

Paper Size	Drawer 1	Drawer 2 to 4 (optional)	Multi-Purpose Tray	Automatic 2-Sided Printing *1
Envelope NAGAGATA 3 (4 3/4" x 9 1/4" [120.0 x 235.0 mm])	—	—	✔	—
Envelope YOUGATANAGA 3 (Younaga 3) (9 1/4" x 4 3/4" [235.0 x 120.0 mm])	—	—	✔	—
Envelope No. 10 (COM10) (4 1/8" x 9 1/2" [104.7 x 241.3 mm])	—	—	✔	—
Envelope Monarch (3 7/8" x 7 1/2" [98.4 x 190.5 mm])	—	—	✔	—
Envelope C5 (ISO-C5) (6 3/8" x 9" [162.0 x 229.0 mm])	—	—	✔	—
Envelope DL (4 3/8" x 8 5/8" [110.0 x 220.0 mm])	—	—	✔	—
Custom Paper Size	✔ *3	✔ *4	✔ *5	✔ *6

*1 Automatic 2-sided printing is available without replacing paper.

*2 Can be loaded in portrait orientation. Automatic 2-sided printing is only possible when the paper is loaded in landscape orientation.

*3 The following sizes are available:
- When loaded in portrait orientation (only with the UFR II printer driver used):
  5 7/8" to 8 1/2" (148.0 to 215.9 mm), 5 7/8" to 8 1/2" (148.0 to 215.9 mm)
- When loaded in landscape orientation:
  4" to 8 1/2" (101.6 to 215.9 mm), 5 7/8" to 11 3/4" (148.0 to 297.0 mm)

*4 The following sizes are available:
- When loaded in portrait orientation (only with the UFR II printer driver used):
  5 7/8" to 8 1/2" (148.0 to 215.9 mm), 5 7/8" to 8 1/2" (148.0 to 215.9 mm)
- When loaded in landscape orientation:
  4" to 8 1/2" (101.6 to 215.9 mm), 5 7/8" to 14" (148.0 to 355.6 mm)

*5 The following sizes are available:
- When loaded in portrait orientation (only with the UFR II printer driver used):
  5" to 8 1/2" (127.0 to 215.9 mm), 5" to 8 1/2" (127.0 to 215.9 mm)
- When loaded in landscape orientation:
  3" to 8 1/2" (76.2 to 215.9 mm), 5" to 14" (127.0 to 355.6 mm)

*6 The following sizes are available:
- 5 7/8" to 8 1/2" (148.0 to 215.9 mm), 8 1/4" to 14" (210.0 to 355.6 mm)

NOTE

- The default setting of paper size is <LTR>. Change the paper size setting when using a different size of paper.
  Specifying Paper Size and Type in the Paper Drawer(P. 58)
  Specifying Paper Size and Type in the Multi-Purpose Tray(P. 60)

- Some paper sizes may not be displayed depending on the printer driver. If the paper size that you want to use is not displayed, download the UFR II / UFRII LT V4 printer driver from the Canon website. If you cannot download, contact your local authorized Canon dealer or the Canon help line.

■Paper Type and Paper Source Capacity

Chlorine-free paper can be used with this machine.

> **NOTE**
>
> - Print quality may deteriorate depending on the paper type used. Each source capacity indicated in the following table is merely a guide, so it may be different from the actual capacity.

—— : Unavailable

Paper Type		Drawer	Multi-Purpose Tray
Plain paper [*1][*2]	16 to 21 lb Bond (60 to 80 g/m²)	550 sheets [*3]	100 sheets
	22 to 24 lb Bond (81 to 90 g/m²)	400 sheets	80 sheets
Heavy paper	25 to 27 lb Bond (91 to 105 g/m²) [*2]	400 sheets	80 sheets
	28 to 34 lb Bond (106 to 128 g/m²) [*2]	400 sheets	80 sheets
	35 lb Bond to 60 lb Cover (129 to 163 g/m²) [*2]	250 sheets	50 sheets
	61 to 79 lb Cover (164 to 216 g/m²)	——	30 sheets
Rough paper	16 to 27 lb Bond (60 to 105 g/m²)	400 sheets	80 sheets
Labels		100 sheets	——
Postcard/Reply Postcard/4on1 Postcard [*4]		——	50 sheets
Envelope		——	10 sheets

[*1] Recycled paper is also available.

[*2] Automatic 2-sided printing is available without replacing paper.

[*3] The source capacity when paper of 21 lb Bond (80 g/m²) is used. For paper of 17 lb Bond (64 g/m²), up to 640 sheets can be loaded.

[*4] The inkjet printable postcard or reply postcard can not be used.

■Paper Type and Setting for the Machine

Loading Paper(P. 38)

■Printable Area

The shaded areas in the image below indicate the printable area of the document. For envelope, the top, bottom, left, and right margins are all 3/8" (10 mm).

Consumables

0YS1-07U
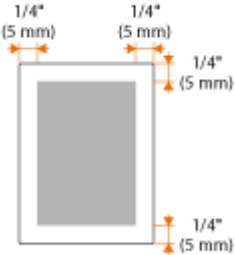
This section describes the consumables of the machine and the estimated timing for replacing them. Purchase consumables at your local authorized Canon dealer. Observe safety and health precautions when storing and handling consumables (▶ **Consumables(P. 10)**). For optimum print quality, using Canon genuine Toner, Cartridge and Parts is recommended.

> **NOTE**
>
> - Depending on the installation environment, printing paper size, or document type, you may need to replace consumables before the end of the estimated lifetime.

■ Toner Cartridges
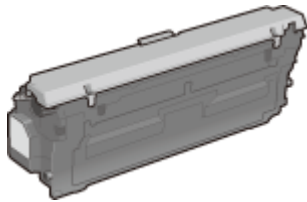
Supplied Toner Cartridges

The average yields* of the toner cartridges that come with the machine are shown below.

- Black: 6,300 Sheets

- Y (Yellow), M (Magenta), and C (Cyan): 5,400 Sheets

* The average yield is based on "ISO/IEC 19798" (the global standard related to "Method for the determination of toner cartridge yield for monochromatic electrophotographic printers and multi-function devices that contain printer components" issued by ISO [International Organization for Standardization]) when printing A4 size paper with the default print density setting.

Replacement Toner Cartridges

For optimum print quality, using Canon genuine toner cartridges is recommended.

Canon Genuine Toner Cartridge	Average yield of toner cartridge *
Canon Cartridge 040 Black	6,300 Sheets
Canon Cartridge 040 Yellow Canon Cartridge 040 Magenta Canon Cartridge 040 Cyan	5,400 Sheets
Canon Cartridge 040 H Black	12,500 Sheets
Canon Cartridge 040 H Yellow Canon Cartridge 040 H Magenta	10,000 Sheets

Canon Cartridge 040 H Cyan	

NOTE

- When replacing toner cartridges ▶**How to Replace Toner Cartridges(P. 571)**

■Waste Toner Box WT-B1
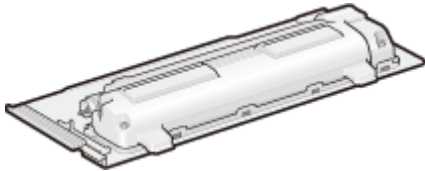
The average number of pages that can be printed per waste toner container is 54,000 (paper size assumed to be A4 or Letter).

NOTE

- When replacing the waste toner container ▶**How to Replace the Waste Toner Container(P. 574)**

Optional Items

0YS1-07X

The functionality of the machine can be fully utilized by using the optional items described below. Optional items can be purchased from the retail outlet where you purchased the machine or from your local Canon dealer.

■ Paper Feeder PF-D1
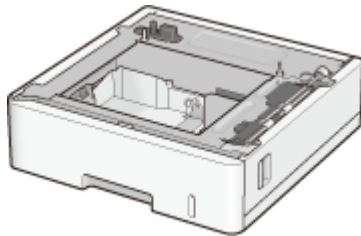
Use of the optional paper feeder allows you to load a different size of paper than that loadable in the standard paper drawer, thus reducing the time and labor of paper size replacement.

Available Paper	❍ Paper(P. 621)
Power Supply	From main unit
Dimensions (W x L x H)	18" x 18 1/4" x 5 7/8" (458 x 464 x 150 mm)
Weight	Approx. 13.4 lb (6.1 kg)

Installation Method

See "Getting Started."

> **NOTE**
>
> ● You can install up to three units of paper feeder in the machine.

■ Barcode Printing Kit-F1

If the Barcode Printing Kit-F1 is installed on the machine, barcode printing mode is added, enabling barcodes to be printed from your computer.
The Barcode Printing Kit-F1 contains the following barcode fonts.

● OCR-B

● Symb. FontInform

● Symbole stethos

● BarDIMM ©1997

● USPS ZEBRA+4Stat

This option enables you to generate barcodes in various formats. Note that if you want to print barcodes, PCL must be enabled. For information on using the Barcode Printing Kit, see the Barcode Printing Guide (PDF manual).

Installation Method
❍ **Installing the ROM(P. 630)**

■ PCL International Font Set-C1

If the PCL International Font Set-C1 is installed on the machine, the following fonts are added for a PCL printer. As a result, you can output using multiple languages in a SAP Unicode environment.

- ● Andale® and WorldType® Collection J (Japanese Version)

- ● Andale® and WorldType® Collection K (Korean Version)

- ● Andale® and WorldType® Collection S (Simplified Chinese Version)

- ● Andale® and WorldType® Collection T (Traditional Chinese Version)

In order to support differences in character design depending on the region, four font versions are enabled.

Installation Method
❱**Installing the ROM(P. 630)**

■ SD CARD-C1

You can install the SD card to use the functions described below.

- ● Secured Print
  ❱**Printing a Document Secured by a PIN (Secured Print)(P. 130)**
- ● Stored Job Print
  ❱**Printing a Document Stored in the Machine (Stored Job Print)(P. 136)**
- ● Interrupt Print, Priority Print, Pause/Resume
  ❱**Checking Current Status of Print Documents(P. 345)**
- ● SMB Print
  ❱**Configuring SMB(P. 245)**
- ● Spooler
  ❱**Spooler(P. 393)**

Installation Method
❱**Installing an SD Card(P. 634)**

> **IMPORTANT**
>
> - ● When you dispose of a used SD card, perform <Completely Del. Data> for it or physically destroy it to prevent your personal information from being leaked. ❱**Installing an SD Card(P. 634)**

Installing the ROM

0YS1-07Y

This section describes how to install the optional ROM in the machine. The ROM is used connected to the ROM connectors inside the back cover of the machine. Read the precautions in ▶ **Installation(P. 3)** before installing the ROM.

Back cover   ROM cover
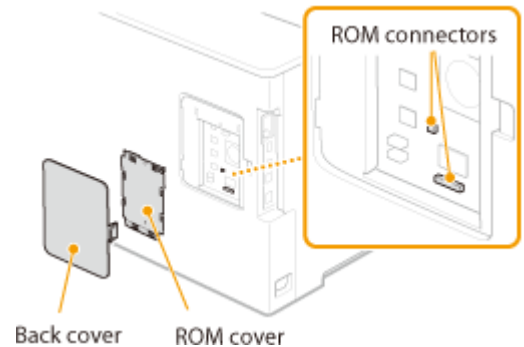
IMPORTANT

Precautions when installing the ROM

- Do not cause any metal such as screws to come into contact with the circuit boards in the machine. Doing so may result in damage to the machine.

- Do not touch the internal parts, printed wiring, connectors, or switches. Doing so may result in damage to the machine.

- Do not turn ON the power when the ROM cover is open. Doing so may result in damage to the machine.

Precautions for avoiding static electricity

The ROM contains parts that are sensitive to static electricity. Observe the following precautions for preventing the ROM from being damaged by static electricity.

- Touch a metal portion in the room to discharge static electricity from your body before handling the ROM.

- Do not touch any item that is likely to generate static electricity, such as a display, during work.

- To avoid the influence of static electricity, do not remove the ROM from the protective case until just before connecting it to the ROM connectors.

1 **Turn OFF the machine, and unplug the power plug from the AC power outlet.**

IMPORTANT:

- When you turn OFF the power, shut down the machine from the operation panel without using the power switch. ▶**Turning OFF the Power (Performing a Shutdown)(P. 34)**

2 **Remove the back cover.**

1   **While pushing the catch, slightly open the cover toward you.**

2   **Remove the right cover in the direction indicated by the arrow.**
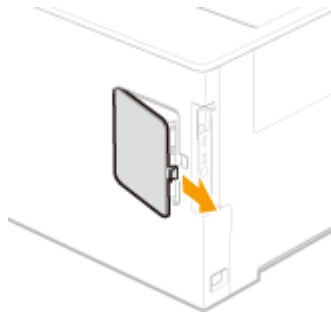
3   **Remove the ROM cover.**

    1   **Use a coin to remove the screws**.
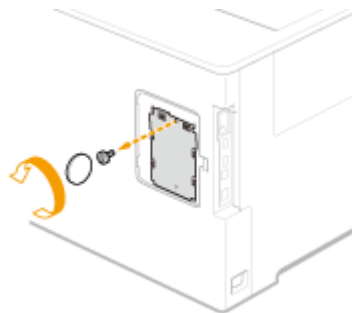
    2   **Open the ROM cover, and remove it in the direction indicated by the arrow.**
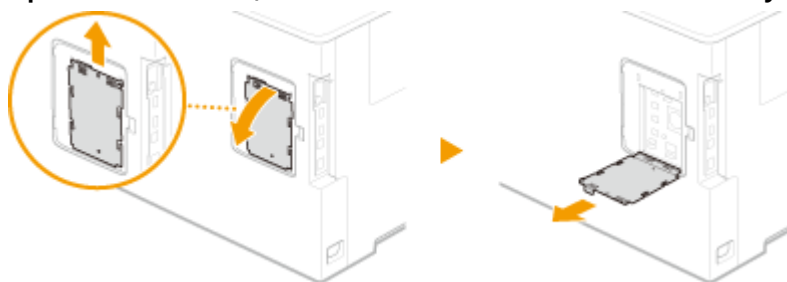
4   **Install the ROM.**

- While aligning the ROM with the two ROM connectors of the machine, securely push it until it stops.
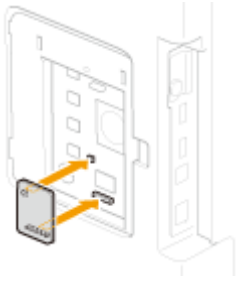
NOTE:

When disconnecting the ROM

- Hold the edges of the ROM and pull it out as shown in the illustration below.

5 **Put the ROM cover back into position.**

1 Close the ROM cover by pushing in the catch of the ROM cover in the direction indicated by the arrow.
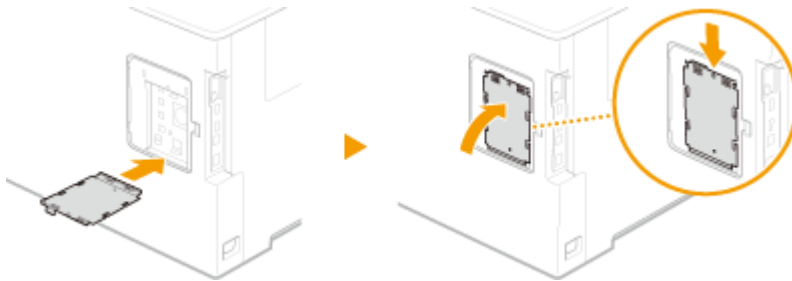
2 Use a coin to reattach the screws.
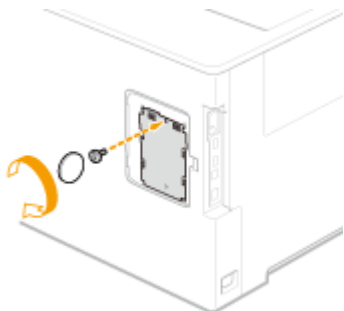
6 **Insert the back cover in the direction indicated by the arrow, and close it while pushing the catch.**
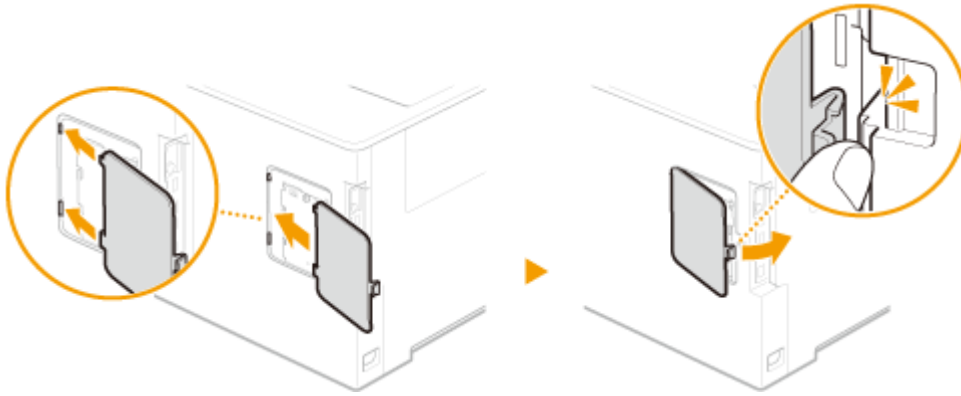
> **NOTE**
>
> - When you want to install an SD card at the same time, proceed to ▶**Installing an SD Card(P. 634)** .

◼ Checking that Barcode Printing Kit-F1 Is Properly Installed

Print the ▶**Configuration Page(P. 492)** , and confirm that "BarDIMM" is displayed in "PCL."
If "BarDIMM" is displayed, the ROM is properly installed.

NOTE:

If "BarDIMM" is not displayed

- The ROM is not installed properly. Remove the ROM from the machine, and reconnect it.
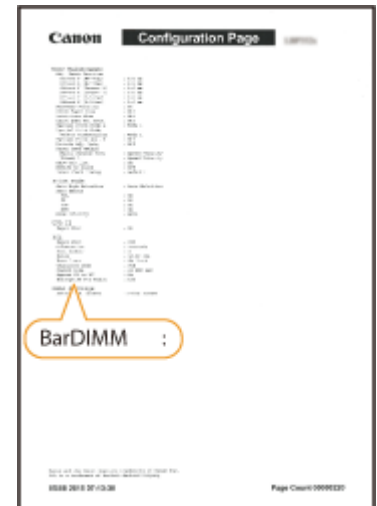
Installing an SD Card

0YS1-080

This section describes how to mount and initialize an SD card. Insert the SD card into the SD card slot on the left side of the machine. Read the precautions in ◗**Installation(P. 3)** before installing the SD card. Note that the data in the machine that is stored to the SD card is all subjected to encryption. This ensures safe use of the SD card on a computer or in other situation because the encrypted data in the SD card is protected against unauthorized extraction.

SD card slot

SD card slot cover
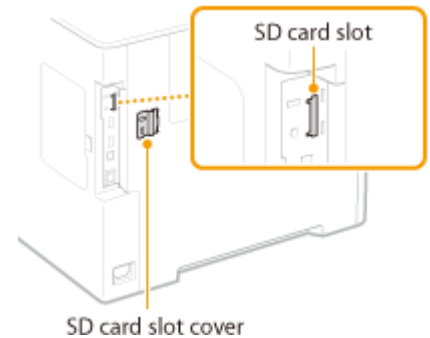
NOTE

- Before mounting the SD card, check whether the SD card is write-protected. If the card is write-protected, unlock the card before inserting it.

1 **Turn OFF the machine, and unplug the power plug from the AC power outlet.**

IMPORTANT:

- When you turn OFF the power, shut down the machine from the operation panel without using the power switch. ◗**Turning OFF the Power (Performing a Shutdown)(P. 34)**

2 **Remove the SD card slot cover.**

1 **Use a coin to remove the screws**.
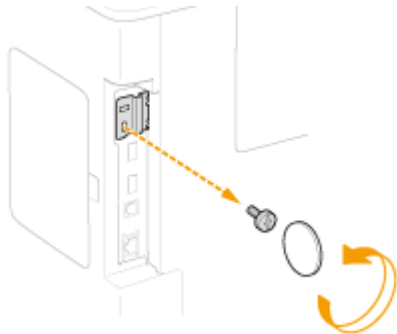
2 **Open the SD card slot cover, and remove it in the direction indicated by the arrow.**

3 Install an SD Card.

- Insert the card into the SD card slot until it clicks.
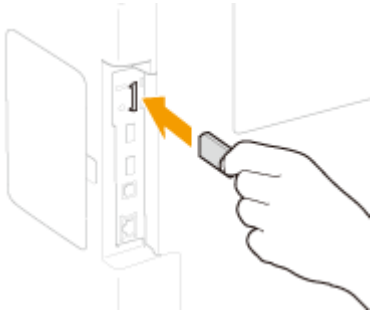
NOTE:

When removing the SD card

- Push the SD card until it clicks as shown in the illustration, release your finger, and then remove it.

4 Reinstall the SD card slot cover.

1 Close the SD card slot cover by pushing in the catch of the cover.
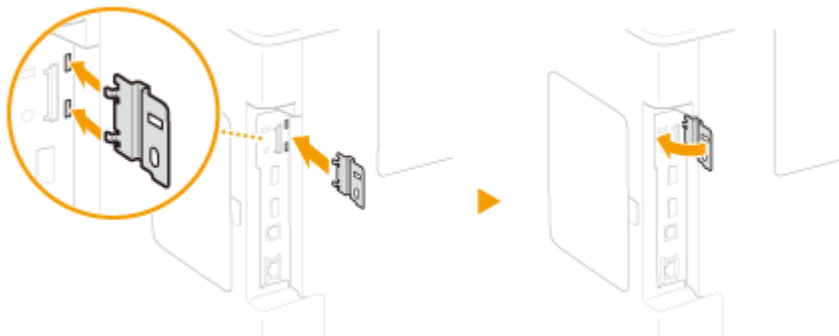
2 Use a coin to reattach the screws.
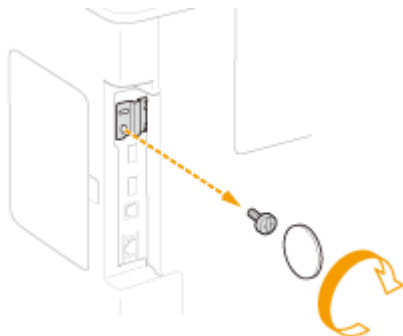
NOTE

SD Card Anti-theft Security Slot

- The SD card slot cover is provided with a security slot, to which you can attach security wire or equivalent.

- The hole of the security slot is 1/8" (3.4 mm) wide and 1/4" (7.4 mm) high.

- For inquires about the security slot, contact your local authorized Canon dealer.
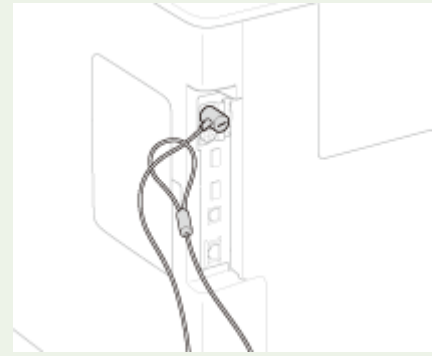
■ Initializing the SD Card

When you turn ON the power for the first time after installing the SD card, <Format SD Card?> appears on the display. Press [OK] to start initializing the SD card. When the initialization is completed, the SD card is ready to use.

```
Format SD Card?


OK Key: Yes
Back Key: No
```
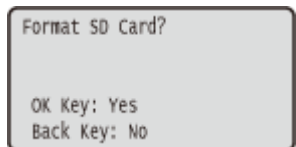
NOTE:

If <Format SD Card?> is not displayed

- Initialize the SD card by selecting <Format> under <SD Card Maintenance> in the setting menu of the operation panel. ◗**SD Card Maintenance(P. 426)**

■ Checking that the SD Card Is Properly Installed on the Machine

Print the ◗**Configuration Page(P. 588)** , and the SD card is installed properly if "SD Card" in "Control Menu" is "On."

NOTE:

If no SD card status information is indicated

- The SD card is not installed properly. Remove the SD card from the machine, and remount it.

■ Configuring the Information of the SD Card

If an SD card was added after the printer driver was installed, you need to configure the SD card information in the printer driver. ◗**Optional Items(P. 628)**

■ Deleting All Data in an SD Card

Before disposing of an SD card, you can use the procedure below to delete all data in the card. The procedure deletes even those fragments of data that cannot be deleted normally. This eliminates the risk of your data being red by third parties, thus you can dispose of the SD card safely.

NOTE

● For any SD cards other than the optional "SD CARD-C1", the procedure below cannot be used.

1 **Set the machine to offline.**

● When ☐ (**Online**) is lit, press ☐ (**Online**).

2 **Press ▶ (Settings)**

3 **Use ▲ / ▼ to select <User Maintenance>, and press [OK].**

```
Setup
 Layout
 Print Quality
 Interface
 User Maintenance
```
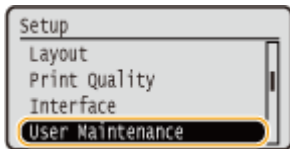
4 **Proceed with <SD Card Maintenance> ▶ <Completely Del. Data> in this order.**

● When a message appears, press [OK].

5 **Select <Yes>, and press [OK].**

```
Execute?
 No
 Yes
```
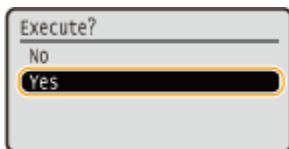
➡ The machine is restarted. After that, the machine is turned OFF automatically.

NOTE

● When <Completely Del. Data> has been performed, the setting for <SD Card> changes to <Off>.

Manuals Included with the Machine

0YS1-081

The manuals listed below are included with the machine. Refer to them as necessary.

Getting Started		Read this manual first. It describes basic setup procedures, from removing the packing materials to setting up the machine.
User's Guide (This Manual)		This manual describes all the functions of the machine in a manual that is viewed using a Web browser. You can browse information by category or enter a keyword to search for pages on a specific topic. **Using User's Guide(P. 639)**
Printer Driver Installation Guide		This manual describes how to install the printer driver and the supplied software on the User Software DVD-ROM.

Using User's Guide

0YS1-082

The User's Guide is a manual that can be viewed on your computer or mobile device and it describes all of the functions of the machine. You can search from your intended use or enter a keyword to quickly find the page you are looking for.

How to Find the Topic You Are Looking for

You can find the page you are looking for using the following 2 methods.

Search the contents
You can find the page you are looking for by selecting the topic from the "Contents" on the left side of the screen.

◯Top Page(P. 640)
◯Topic Page(P. 641)

Search by keyword
Perform a search by entering a keyword, such as "envelope" or "toner cartridge", and the pages containing the keyword are displayed. You can find the page you are looking for from those results. You can also enter phrases such as "connecting to a network." The keyword search also supports the AND Boolean to search for multiple keywords.

◯Search(P. 642)

> **NOTE**
>
> - If you do not have access to Adobe Reader to view the manuals in PDF format, try other programs such as PDF Preview developed by Vivid Document Imaging Technologies.

Screen Layout of User's Guide

0YS1-085

The User's Guide is divided into different screens, and the content of each screen varies.

Top Page

Appears when User's Guide is started.
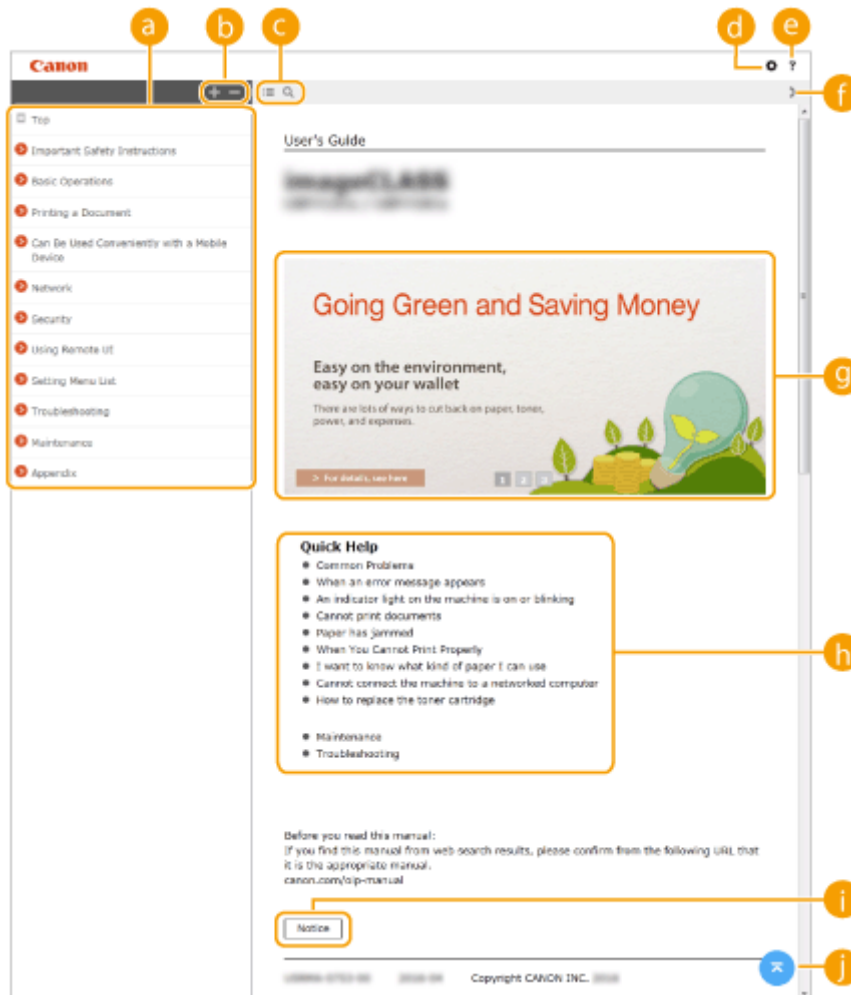
ⓐ Contents

The titles of chapters are displayed.

ⓑ ➕ / ➖

Click ➕ to also display all of the sections under the chapters. Click ➖ to return to the previous display.

ⓒ ☰ / 🔍

Click to toggle the display between the contents and search.

ⓓ ⚙

Click to set parameters to determine how the User's Guide is displayed, such as character size or layout.

ⓔ ❓

Click to display information on how to view the User's Guide, how to perform a search, and other information.

ⓕ ‹ / ›

Click to display the previous or following topic.

ⓖ Feature Highlights

Provides a variety of practical examples of ways to use the machine. Click ▣ / ▣ / ▣ to toggle the display of practical examples by category, or click the sliding display for more information about each category. The sliding display can be stopped by moving the pointer onto it. ◗**Feature Highlights(P. 641)**

ⓗ [Quick Help]

Click to view how to solve problems or maintain the machine.

ⓘ [Notice]

Click to view important information you should know when using the machine.

ⓙ ⊼

Click to return to the page top.

Feature Highlights

Provides a variety of practical examples of ways to use the machine.

ⓐ ⌄ / ⌃
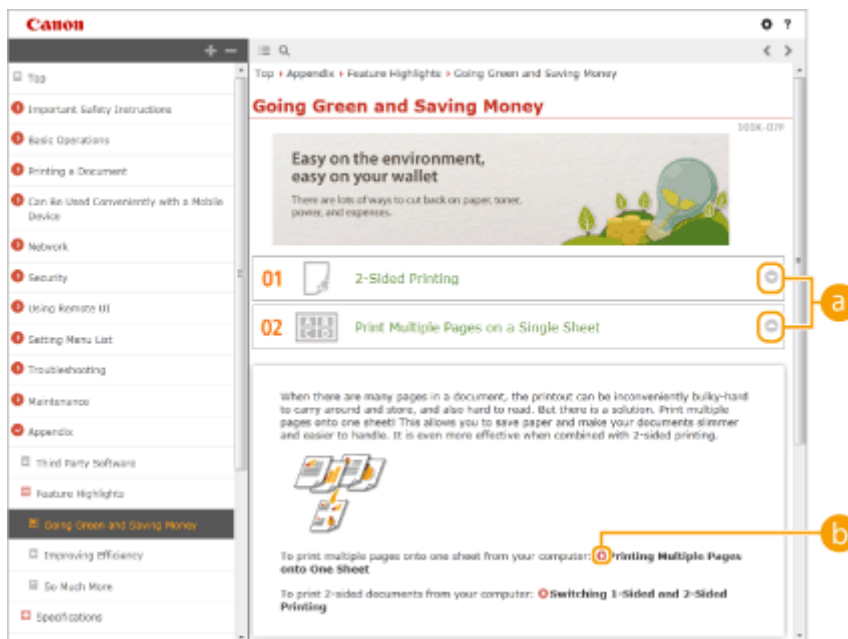
Click ⌄ to display the detailed information. Click ⌃ to close the window.

ⓑ ◗

Click to display the corresponding topic page.

Topic Page

Contains information about how to configure and use the machine.
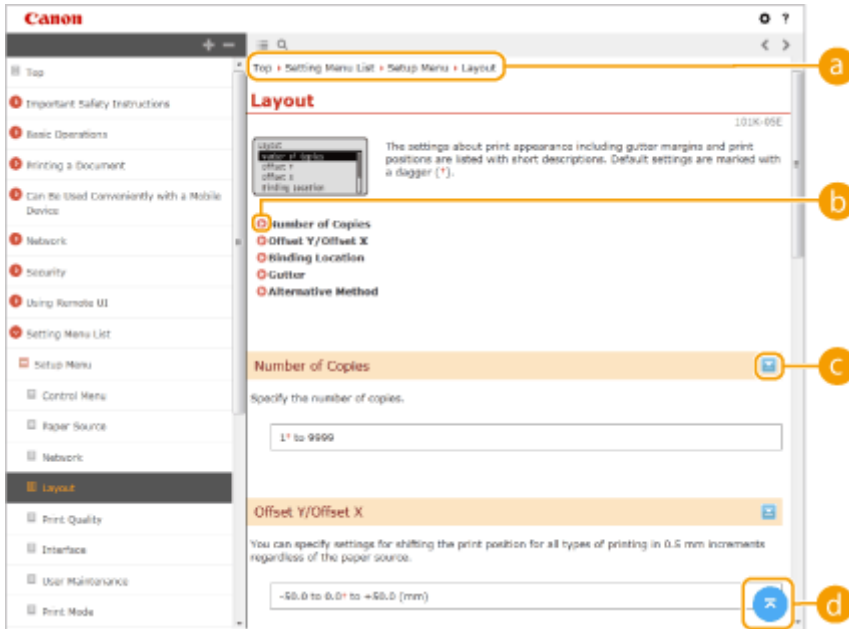
a **Navigation**

See what chapter topic you are currently viewing.

b ▶

Click to jump to the corresponding page. To return to the previous page, click "Back" on your Web browser.

c ▼/▲

Click ▼ to display the hidden detailed descriptions. Click ▲ to close the detailed descriptions.

d ▲

Click to return to the page top.

Search

Click 🔍 to display the search window. Contains a text box to perform a search by keyword and find the page you are looking for.
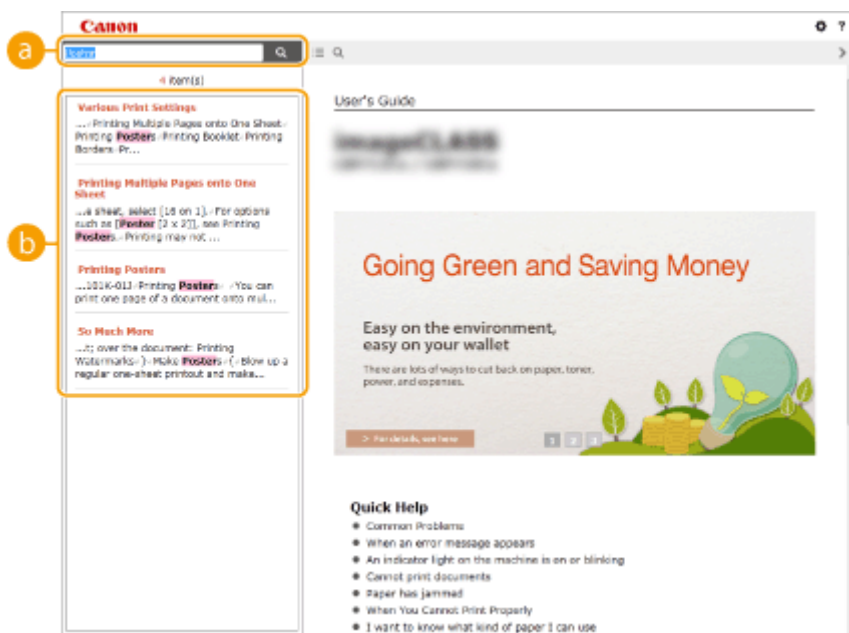
a **[Enter keyword(s) here]**

Enter a keyword or keywords and click to display the search results. You can search for pages containing all the keywords by separating the keywords by a space (blank). Also you can only search for pages containing an exact phrase by enclosing the keywords in double quotation marks.

Search result

Displays the search results of the pages that contain the specified keywords. From the results, locate the page you are looking for and click the topic title of the page.

NOTE:

- The specified keyword(s) are shown in bold in the search results.

Viewing User's Guide

0YS1-086

Marks

Cautions regarding safety, restrictions and cautions regarding the handling of the machine, useful tips, and other information are indicated using the marks below.

⚠ WARNING	Indicates a warning concerning operations that may lead to death or injury to persons if not performed correctly. To use the machine safely, always pay attention to these warnings.
⚠ CAUTION	Indicates a caution concerning operations that may lead to injury to persons if not performed correctly. To use the machine safely, always pay attention to these cautions.
🚫	Indicates an operation that must not be performed. Read these items carefully, and make sure not to perform the described operations.
IMPORTANT	Indicates operational requirements and restrictions. Be sure to read these items carefully to operate the machine correctly, and avoid damage to the machine or property.
NOTE	Indicates a clarification of an operation, or contains additional explanations for a procedure.
TIPS	Indicates useful functions or tips for using the machine.

Keys and Buttons Used in this Manual

Keys on the operation panel and buttons on the computer display appear in the following notation:

Type	Example
Keys on the operation panel	▶ (Settings)
Settings displayed on the operation panel	<Timer Settings> <Paper is jammed.>
Buttons and other text interfaces displayed on the computer display	[Preferences]

▲ / ▼ Used in This Manual

The ▲ / ▼ keys are used to select a desired setting. They are only described at the first applicable occurrence of their use in a page and omitted from the second time onward. For example, the ▲ / ▼ keys appear in Step 2, but are omitted in Step 3.

Example:

1 Press ▶ (Settings).

2 Use ▲ / ▼ to select <Network>, and press OK.

3 Select <TCP/IP Settings> ▶ <IPv4 Settings> ▶ <IP Address Settings>.

Screens Used in This Manual

Depending on the operating system you are using, the appearance of the displays used in this manual may slightly differ from the actual displays. Also, the appearance of the printer driver and software may differ depending on their version.

Illustrations Used in This Manual

The illustrations of the toner cartridge used in the User's Guide are those for the Canon Cartridge 040 H.

Manual Display Settings

0YS1-092

Managing MEAP Applications

0YS1-087

You can install MEAP applications (function-enhancing software) on the machine to add various features. You can customize the functions according to your needs, for example, to configure an authentication system with IC cards or to manage printouts based on logs. When you want to manage MEAP applications, access the machine from your computer via a Web browser. For more information, see **Function Guide for MEAP Application Management** .
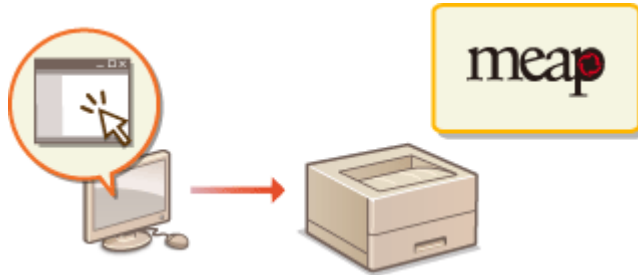
Using FTP Clients

0YS1-088

You can use an FTP client to access the FTP server of the machine and specify settings for document printing and networking. Printing and settings can be performed with Command Prompt installed in the operating system as standard, requiring neither specific drivers nor specific applications.

Preparing for Using the FTP Server

Specify settings to enable communication between the machine and the clients. ❯**Preparing for Using the FTP Server(P. 649)**

Printing via FTP Client (FTP Print)

You can print a document sent to the machine via FTP. ❯**Printing via FTP Client (FTP Print)(P. 652)**

Specifying Settings via FTP Client

You can download the machine settings in text format and edit them. ❯**Specifying Settings via FTP Client(P. 654)**

Preparing for Using the FTP Server

0YS1-089

Because the factory default settings prevent operations from FTP clients, specify settings to allow the operations.

1 **Start the Remote UI and log on in Management Mode.** ⭕**Starting Remote UI(P. 336)**

2 **Click [Settings/Registration].**
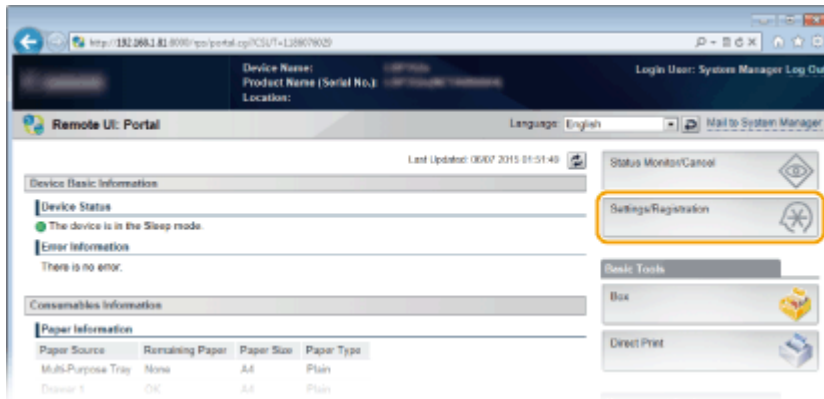
3 **Click [Network]** ▶ **[TCP/IP Settings].**
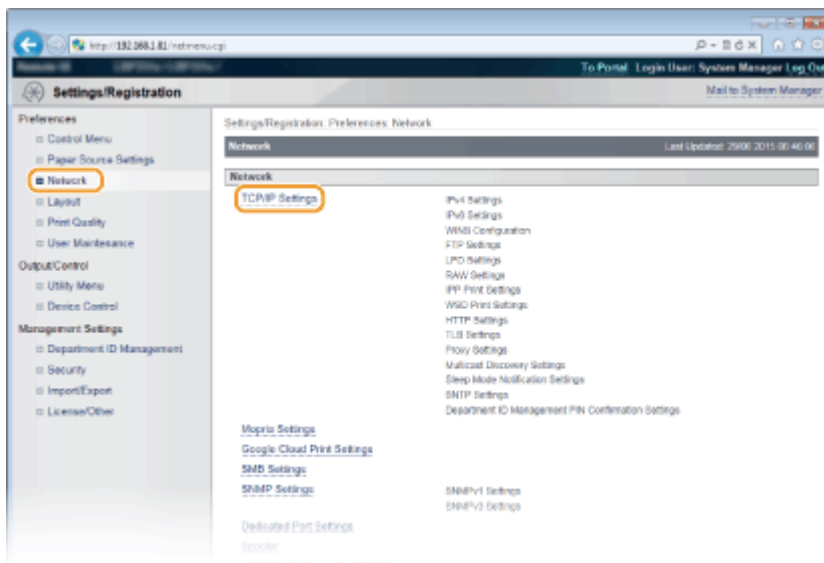
4 **Click [Edit] in [FTP Settings].**
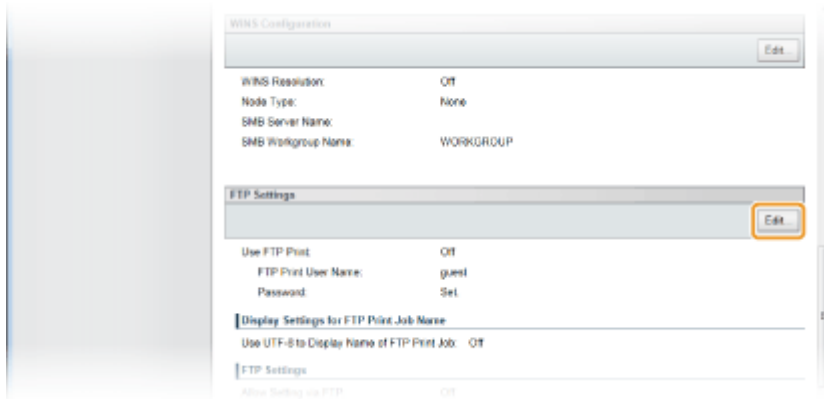
5 **Specify the required settings and click [OK].**
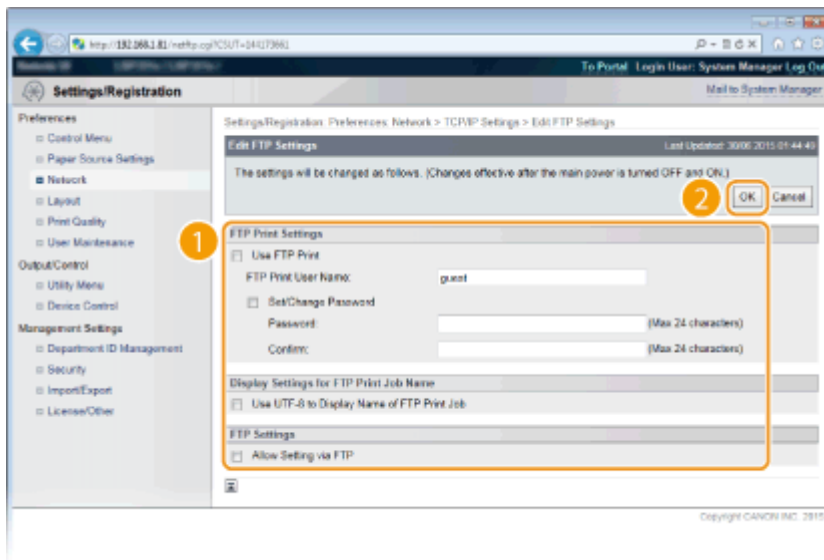
[Use FTP Print]
To perform printing via FTP client, select the check box. Otherwise, clear the check box.

[FTP Print User Name]
Enter up to 24 alphanumeric characters for the user name used to log on to the FTP server when performing FTP Print.

NOTE:

● You cannot set "root."

[Set/Change Password]
Select the check box to set the FTP Print password, and enter up to 24 alphanumeric characters for the password in the [Password] text box. For confirmation, enter the same password in the [Confirm] text box.

NOTE:

● If you click [OK] with the check box selected and the [Password] and [Confirm] text boxes left blank, the currently set password is deleted.

[Use UTF-8 to Display Name of FTP Print Job]
Select the check box if you are using UTF-8 character code for the name of the file to be printed.

[Allow Setting via FTP]
Select the check box to allow setting changes of the machine via FTP client. When not allowing setting changes, clear the check box.

6 **Perform a hard reset.**

● Click [Device Control], select [Hard Reset], and then click [Execute].
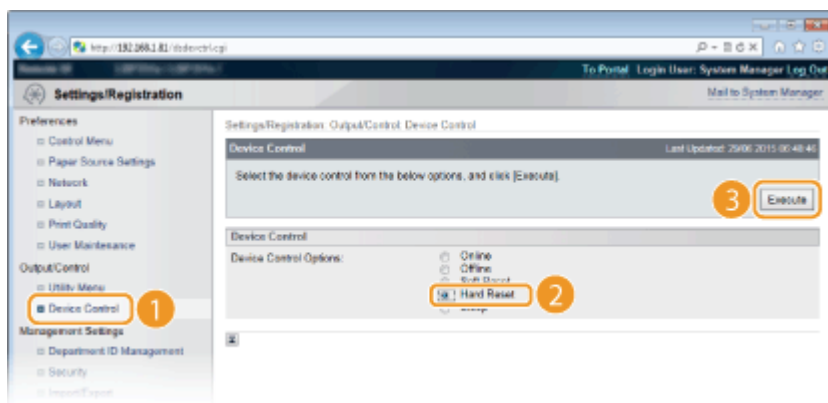
➠ The settings are enabled after the hard reset is performed.

NOTE

Using the operation panel

● You can also enable or disable FTP print, and FTP settings from the setting menu of the operation panel. ◯ **FTP(P. 383)**

LINKS

◯**Printing via FTP Client (FTP Print)(P. 652)**
◯**Specifying Settings via FTP Client(P. 654)**

Printing via FTP Client (FTP Print)

0YS1-08A

Documents in TEXT/JPEG/TIFF format can be printed from FTP clients via network. Check the IP address set to the machine in advance (**⊙Network Status Print(P. 588)**). If you are unsure of the IP address, contact your network administrator.

1 **Start [Command Prompt].**

- Open the [Start] menu and select [All Programs] or [Programs] ▶ [Accessory] ▶ [Command Prompt].

  NOTE:

  For Mac OS users
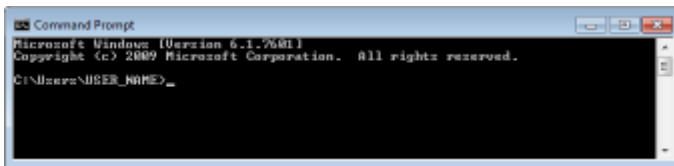
  - Start the Terminal.

  For UNIX users

  - Display the console screen.

2 **Copy a document that you want to print to the directory displayed in Command Prompt.**

- In an example of a screen, the document is copied into the "USER_NAME" folder in [Users] on drive C:.

3 **Enter "ftp <IP address of the machine>" and press the [ENTER] key.**

- **Example:** ftp 192.168.1.45

4 **Enter the FTP Print user name and press the [ENTER] key.**
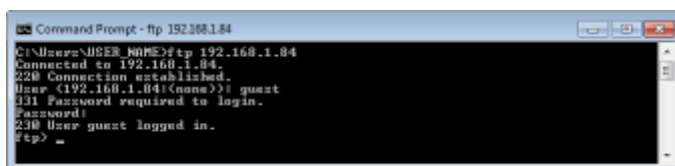
- The default user name is "guest".

  NOTE:

  - Anonymous (a user with no account) cannot be used to log on.

5 **Enter the FTP Print password and press the [ENTER] key.**

- The default password is "7654321".

  ⇒ "230 User <FTP Print user name> logged in." is displayed.

6 **Enter "bin" and press the [ENTER] key.**

⥤ The data transfer mode is changed to binary mode.

NOTE:

- You also need to specify binary mode when printing a text document.

7 **Enter "put <File name to print>" and press the [ENTER] key.**

- **Example:** put sample.txt

⥤ The document is printed.

8 **Enter "quit" and press the [ENTER] key.**

9 **Enter "exit" and press the [ENTER] key.**

⥤ Command Prompt exits.

Specifying Settings via FTP Client

0YS1-08C

You can specify settings, such as the network settings of the machine, from an FTP client via TCP/IP network. Check the IP address set to the machine in advance (◉**Network Status Print(P. 588)**). If you are unsure of the IP address, contact your network administrator.

1 **Start [Command Prompt].**

- Open the [Start] menu and select [All Programs] or [Programs] ▶ [Accessories] ▶ [Command Prompt].

NOTE:

For Mac OS users

- Start the Terminal.

For UNIX users

- Display the console screen.

2 **Enter "ftp <IP address of the machine>" and press the [ENTER] key.**

- **Example:** ftp 192.168.1.45

3 **Enter "root" for the user name and press the [ENTER] key.**

4 **Enter the System Manager password and press the [ENTER] key.**

- The default password is "7654321". ◉**Setting the System Manager Password(P. 256)**

  ⟶ "230 User root logged in." is displayed.

5 **Enter "cd config" and press the [ENTER] key.**

6 **Enter "get CONFIG <file name>" and press the [ENTER] key.**

- "CONFIG" must be all uppercase.
- Any characters can be used in <file name> (example: get CONFIG Setting.txt).

  ⟶ The setting file is downloaded to the directory that is displayed when Command Prompt is started. In an example of a screen, the file is downloaded to the "USER_NAME" folder in [Users] on drive C:.

7 **Edit the downloaded config file by using the text editor such as Notepad.**

List of config file setting items

General Menu (General Settings)

Item Name	Setting Value	Factory Default Setting
DEVICE_NAME (Device Name)	Up to 128 characters	LBP712Cdn
SYS_LOC (Location)	Up to 128 characters	(Blank)
SYS_CONTACT (System Manager)	Up to 128 characters	(Blank)
ROOT_PWD (System Manager Password)	Up to 16 alphanumeric characters	7654321
USER_JOB_CONT (Allow End-User's Job Operation)	ON, OFF	OFF
LINK_URL1 (Support Link URL)	Up to 512 alphanumeric characters	http://www.canon.com

TCP/IP Menu (TCP/IP Settings)

Item Name	Setting Value	Factory Default Setting
INT_ADDR (IP Address)	IP Address	0.0.0.0
NET_MASK (Subnet Mask)	IP Address	0.0.0.0
DEF_GW (Gateway Address)	IP Address	0.0.0.0
DHCP_ENB (Use DHCP)	ON, OFF	OFF
RARP_ENB (Use RARP)	ON, OFF	OFF
BOOTP_ENB (Use BOOTP)	ON, OFF	OFF
DNS_PADDR	IP Address	0.0.0.0

(Primary DNS Server Address)		
DNS_SADDR (Secondary DNS Server Address)	IP Address	0.0.0.0
HOST_NAME (Host Name)	Up to 47 alphanumeric characters	"Canon"+ "Lower 6 digits of MAC address"
DOMAIN_NAME (Domain Name)	Up to 47 alphanumeric characters	(Blank)
DDNS_ENB (DNS Dynamic Update)	ON, OFF	OFF
WINS_ENB (WINS Resolution)	ON, OFF	OFF
WINS_SERVER (WINS Server Address)	IP Address	0.0.0.0
ARP_PING_ENB (Use ARP/PING)	ON, OFF	ON
LPD_ENB (Use LPD Printing)	ON, OFF	ON
LPD_BANN (Print LPD Banner Page)	ON, OFF	OFF
RAW_ENB (Use RAW Printing)	ON, OFF	ON
RAW_BIDIR_ENB (Use Bidirectional Communication)	ON, OFF	OFF
FTP_PRINT_ENB (Use FTP Print)	ON, OFF	OFF
FTP_PRINT_USER (FTP Print User Name)	Up to 24 alphanumeric characters	guest
FTP_PRINT_PWD (FTP Print Password)	Up to 24 alphanumeric characters	7654321
IPP_ENB (Use IPP)	ON, OFF	ON
IPP_AUTH_ENB (Use IPP Authentication)	ON, OFF	OFF
IPP_AUTH_ACCUNT1 (IPP Authentication User Name)	Up to 24 alphanumeric characters (mandatory when using IPP authentication)	guest
IPP_AUTH_PASSWD1 (IPP Authentication Password)	Up to 24 alphanumeric characters (mandatory when using IPP authentication)	7654321
WSD_ENB (Use WSD Printing)	ON, OFF	OFF
WSD_BROWSING (Use WSD Browsing)	ON, OFF	OFF
WSD_MULTICAST_ DISCOVERY (Use Multicast Discovery)	ON, OFF	OFF

HTTP_ENB (Use HTTP)	ON, OFF	ON
SNTP_ENB (Use SNTP)	ON, OFF	OFF
SNTP_ADDR (NTP Server Name)	IP address or host name	(Blank)
SNTP_INTERVAL (Polling Interval)	1 to 48 (hr.)	24
DISCOVERY_ENB (Respond to Discovery)	ON, OFF	ON
DISCOVERY_SCOPE_NAME (Scope Name)	Up to 32 alphanumeric characters	default
EMAIL_PRINT_ENB (POP3 RX)	ON, OFF	OFF
EMAIL_POP_ADDR (POP3 Server Name)	Up to 48 alphanumeric characters	(Blank)
EMAIL_POP_ACCOUNT (POP3 User Name)	Up to 32 alphanumeric characters	(Blank)
EMAIL_POP_PASSWD (POP3 Password)	Up to 32 alphanumeric characters	(Blank)
EMAIL_POP_INTERVAL (POP3 RX Interval)	0 to 90 (min.)	0
EMAIL_POP_PORTNO (POP3 Server Port Number)	0 to 65535	110
IPV4_USE (Use IPv4)	ON, OFF	ON
IPV6_USE (Use IPv6)	ON, OFF	OFF
IPV6_STATELESS_USE (Use Stateless Address)	ON, OFF	ON
IPV6_MANUAL_ADDR_USE (Use Manual Address)	ON, OFF	OFF
IPV6_MANUAL_ADDR_SET (IP Address)	IP Address	(Blank)
IPV6_MANUAL_ADDR_PREFIX (Prefix Length)	0 to 128	64
IPV6_MANUAL_ROUTER_ADDR (Default Router Address)	IP Address	(Blank)
IPV6_DHCPV6_USE (Use DHCPv6)	ON, OFF	OFF
IPV6_DNS_ADDRESS_PRI (Primary DNS Server Address)	IP Address	(Blank)
IPV6_DNS_ADDRESS_SEC (Secondary DNS Server Address)	IP Address	(Blank)

IPV6_DNS_NAME_ SAME_AS_IPV4 (Use IPv4 Host/Domain Names)	ON, OFF	OFF
IPV6_DNS_HOST_NAME_V6 (Host Name)	Up to 47 alphanumeric characters	"Canon"+ "Lower 6 digits of MAC address"
IPV6_DNS_DOMAIN_ NAME_V6 (Domain Name)	Up to 47 alphanumeric characters	(Blank)
IPV6_DNS_DYNAMIC_SET (DNS Dynamic Update)	ON, OFF	OFF
IPV6_DNS_STATELESS (Register Stateless Address)	ON, OFF	OFF
IPV6_DNS_MANUAL (Register Manual Address)	ON, OFF	OFF
IPV6_DNS_STATEFUL (Register Stateful Address)	ON, OFF	OFF

SMB Server Menu (SMB Settings)

Item Name	Setting Value	Factory Default Setting
SMB_ENB (Use SMB)	ON, OFF	OFF
SMB_SERVER (Server Name)	Up to 16 characters	(Blank)
SMB_WG (Workgroup Name)	Up to 16 characters	WORKGROUP
SMB_COMMENT (Comments)	Up to 192 characters	(Blank)
SMB_LM_ENB (Use LM Announce)	ON, OFF	OFF
SMB_PRINT_ENB (Use SMB Printing)	ON, OFF	OFF
SMB_PRINTER (Printer Name)	Up to 13 characters	PRINTER

SNMP Menu (SNMP Settings)

Item Name	Setting Value	Factory Default Setting
SNMP_V1_ENB (Use SNMPv1)	ON, OFF	ON
SNMP_COMMUNITY1_ ENB	ON, OFF	ON

(Use Community Name 1)		
SNMP_COMMUNITY1_ ACCESS (MIB Access Permission)	RW (Read/Write), RO (Read Only)	RO
SNMP_COMMUNITY1_ NAME (Community Name 1)	Up to 32 alphanumeric characters	public
SNMP_COMMUNITY2_ ENB (Use Community Name 2)	ON, OFF	OFF
SNMP_COMMUNITY2_ ACCESS (MIB Access Permission)	RW (Read/Write), RO (Read Only)	RO
SNMP_COMMUNITY2_ NAME (Community Name 2)	Up to 32 alphanumeric characters	public2
SNMP_V3_ENB (Use SNMPv3)	ON, OFF	OFF
SNMP_GET_PRT_MNG_ INFO (Obtain Printer Management Information from Host)	ON, OFF	OFF

SPOOLER Menu (Spool Settings)

Item Name	Setting Value	Factory Default Setting
SPOOL_ENB (Use Spooler)	ON, OFF	OFF

START TIMER Menu (Waiting Time Settings for Connection at Startup)

Item Name	Setting Value	Factory Default Setting
STRT_DELAY_TIME (Waiting Time for Connection at Startup)	0 to 300 (sec.)	0

RUI Menu (Remote UI Settings)

Item Name	Setting Value	Factory Default Setting
RUI_ENB (Use Remote UI)	ON, OFF	ON

8 **Enter "put <file name> CONFIG" and press the [ENTER] key.**

- Specify the edited file name in <file name> (example: put Setting.txt CONFIG).

  ⇛ The setting file is uploaded.

9 **Enter "get reset" and press the [ENTER] key.**

➠ The machine is restarted. The settings are enabled after the machine is restarted.

10 **Confirm that the machine has been normally restarted, press [C] key while holding down the [CTRL] key.**

11 **Enter "quit" and press the [ENTER] key.**

12 **Enter "exit" and press the [ENTER] key.**

➠ Command Prompt exits.

LINKS

Network(P. 379)

Others

0YS1-08E

This section describes basic Windows operations and includes disclaimers, copyright information, and other information. From here you can also display a Menu Route Map (in PDF format) that summarizes the setting menu using a list.

Basic Windows Operations

0YS1-08F

■ Displaying the Printer Folder

Windows Vista
[Start] ▶ select [Control Panel] ▶ [Printer].

Windows 7/Server 2008 R2
[Start] ▶ select [Devices and Printers].

Windows 8/Server 2012
Right-click the lower-left corner of the screen ▶ select [Control Panel] ▶ [View devices and printers].

Windows 8.1/Server 2012 R2
Right-click [Start] ▶ select [Control Panel] ▶ [View devices and printers].

Windows 10
Right-click [▦] ▶ select [Control Panel] ▶ [Hardware and Sound] ▶ [Devices and printers].

Windows Server 2008
[Start] ▶ select [Control Panel] ▶ double-click [Printers].

Windows Server 2003
[Start] ▶ select [Printers and Faxes].

■ Enabling [Network discovery]

If you are using Windows Vista/7/8/10/Server 2008/Server 2012, enable [Network discovery] to view the computers on your network.

Windows Vista
[Start] ▶ select [Control Panel] ▶ [View network status and tasks] ▶ select [Turn on network discovery] under [Network discovery].

Windows 7/Server 2008 R2
[Start] ▶ select [Control Panel] ▶ [View network status and tasks] ▶ [Change advanced sharing settings] ▶ select [Turn on network discovery] under [Network discovery].

Windows 8/Server 2012
Right-click the lower-left corner of the screen ▶ select [Control Panel] ▶ [View network status and tasks] ▶ [Change advanced sharing settings] ▶ select [Turn on network discovery] under [Network discovery].

Windows 8.1/Server 2012 R2
Right-click [Start] ▶ select [Control Panel] ▶ [View network status and tasks] ▶ [Change advanced sharing settings] ▶ select [Turn on network discovery] under [Network discovery].

Windows 10
Right-click [▦] ▶ select [Control Panel] ▶ [View network status and tasks] ▶ [Change advanced sharing settings] ▶ select [Turn on network discovery] under [Network discovery].

Windows Server 2008

[Start] ▶ select [Control Panel] ▶ double-click [Network and Sharing Center] ▶ select [Turn on network discovery] under [Network discovery].

■ Displaying Shared Printers in the Print Server

1 **Open Windows Explorer.**

Windows Vista/7/Server 2003/Server 2008
[Start] ▶ select [All Programs] or [Programs] ▶ [Accessories] ▶ [Windows Explorer].

Windows 8/Server 2012
Right-click the lower-left corner of the screen ▶ select [File Explorer].

Windows 8.1/Server 2012 R2
Right-click [Start] ▶ select [File Explorer].

Windows 10
Click [▦] ▶ select [File Explorer].

2 **Select [Network] or [My Network Places] in printer server.**

● To view computers on the network, you may need to turn on network discovery or search the network for computers.
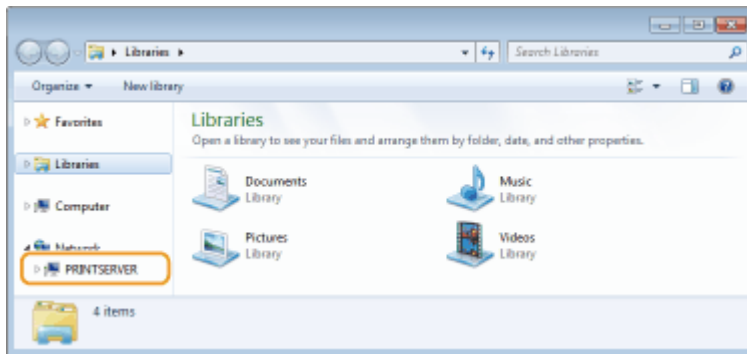
➡ Shared printers are displayed.
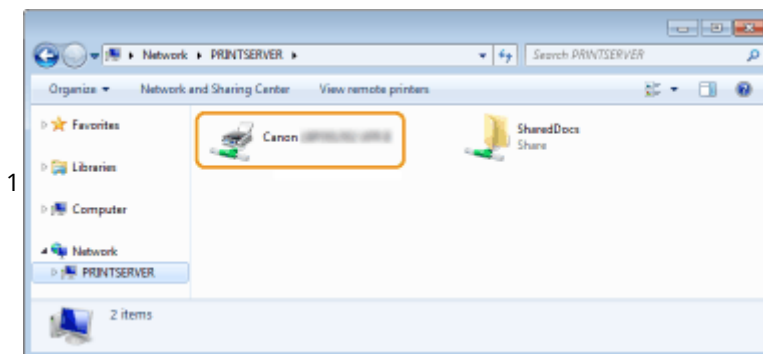
■ Printing a Test Page in Windows

You can check whether the printer driver is operational by printing a test page in Windows.

1 **Load Letter size paper in the paper drawer or multi-purpose tray. ○Loading Paper(P. 38)**

2 **Open the printer folder.** ○**Displaying the Printer Folder(P. 662)**

3 **Right-click your printer icon and click [Printer properties] or [Properties].**
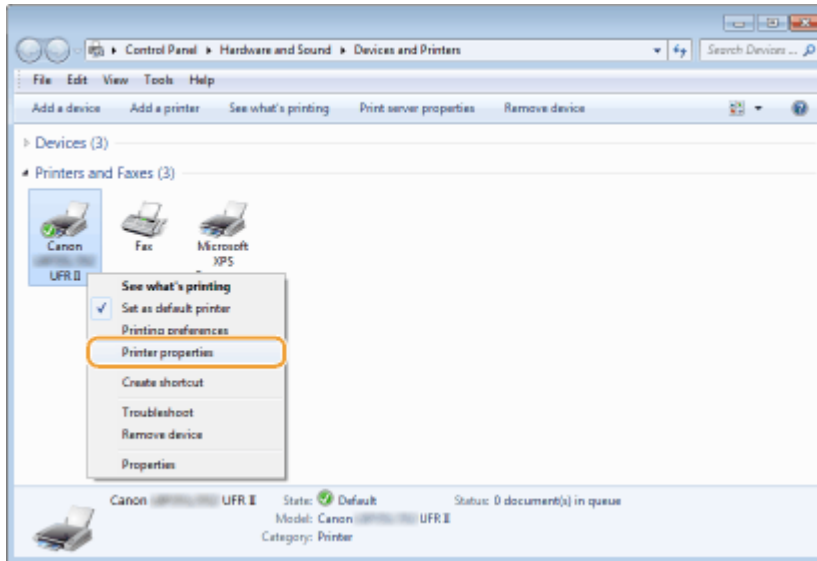
4 **Click [Print Test Page] in [General] tab.**
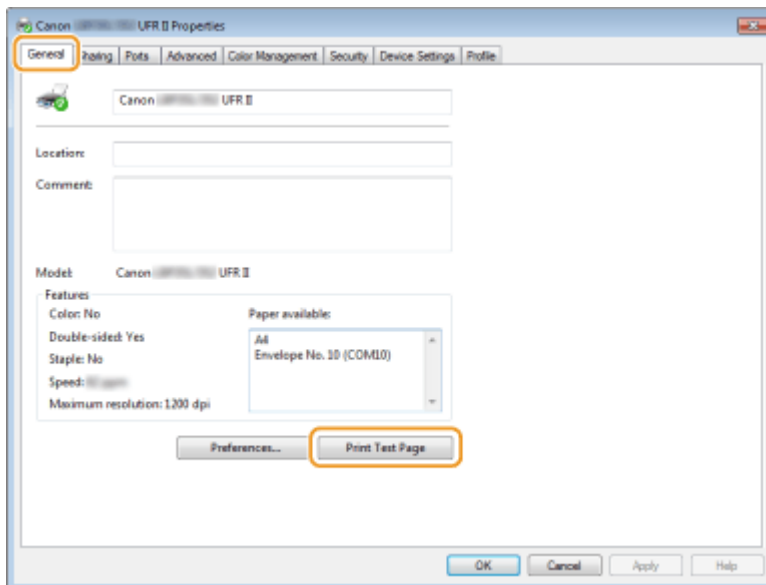
⤵ The test page is printed.

■ Checking the Bit Architecture

If you are not sure whether your computer is running 32-bit or 64-bit Windows, follow the procedure below.

1 **Display [Control Panel].**

Windows Vista/7/Server 2008
[Start] ▶ select [Control Panel].
Windows 8/Server 2012

Right-click the lower-left corner of the screen ▶ select [Control Panel].

Windows 8.1/Server 2012 R2
Right-click [Start] ▶ select [Control Panel].

Windows 10
Proceed to step 2.

2 **Display [System].**

Windows Vista/7/8/Server 2008 R2/Server 2012
Click [System and Maintenance] or [System and Security] ▶ [System].

Windows 10
Click [▦] ▶ select [Settings] ▶ [System] ▶ [About].

Windows Server 2008
Double-click [System].

3 **Check the bit architecture.**

For 32-bit versions
[32-bit Operating System] is displayed.

For 64-bit versions
[64-bit Operating System] is displayed.
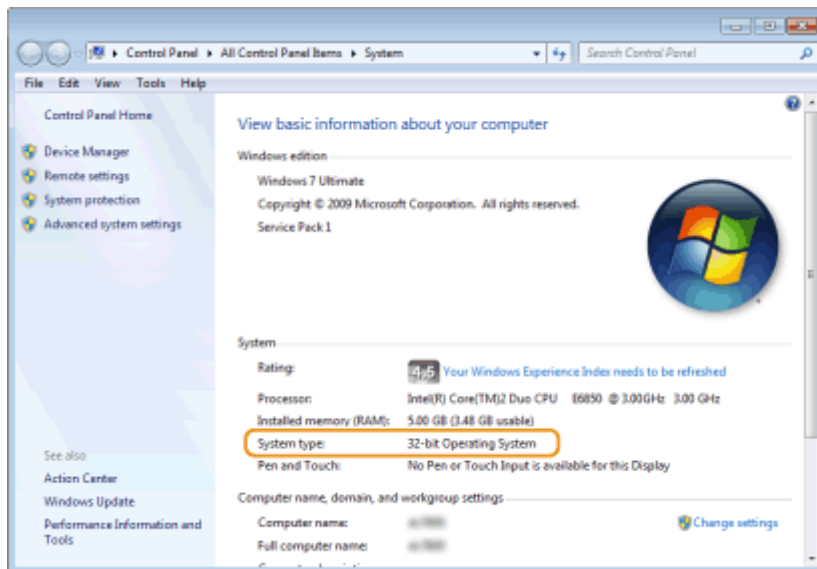
■ Checking the Printer Port

1 **Open the printer folder. ◉Displaying the Printer Folder(P. 662)**

2 **Right-click your printer icon and click [Printer properties] or [Properties].**
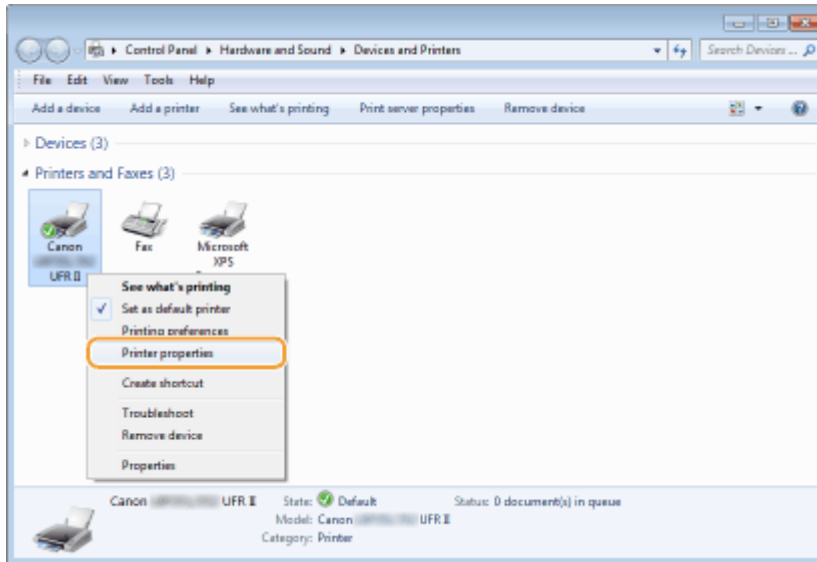
3 In the [Ports] tab, check that the port is selected correctly.
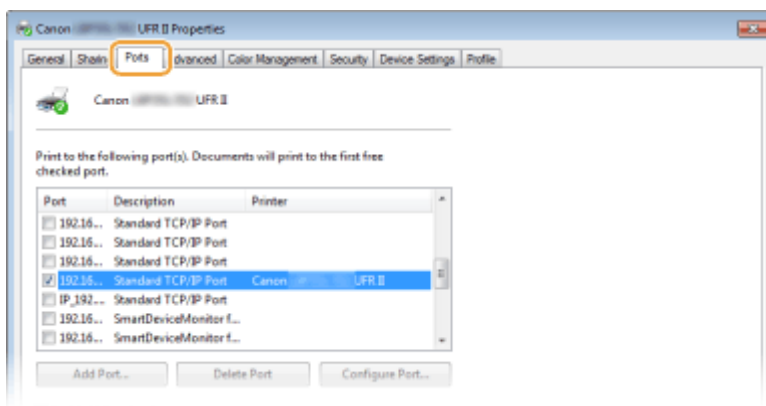
■ Checking Bidirectional Communication

1 Open the printer folder. ◖Displaying the Printer Folder(P. 662)

2 Right-click your printer icon and click [Printer properties] or [Properties].
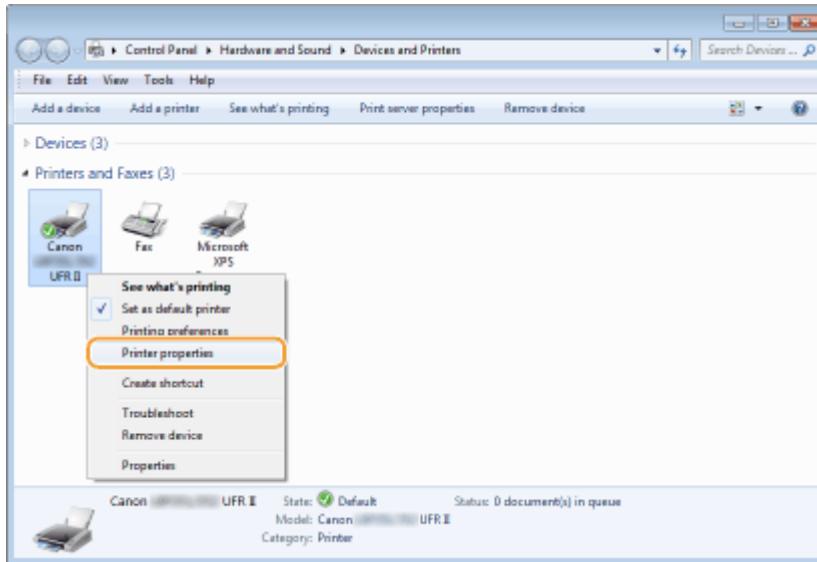
3 In the [Ports] tab, make sure that the [Enable bidirectional support] check box is selected.
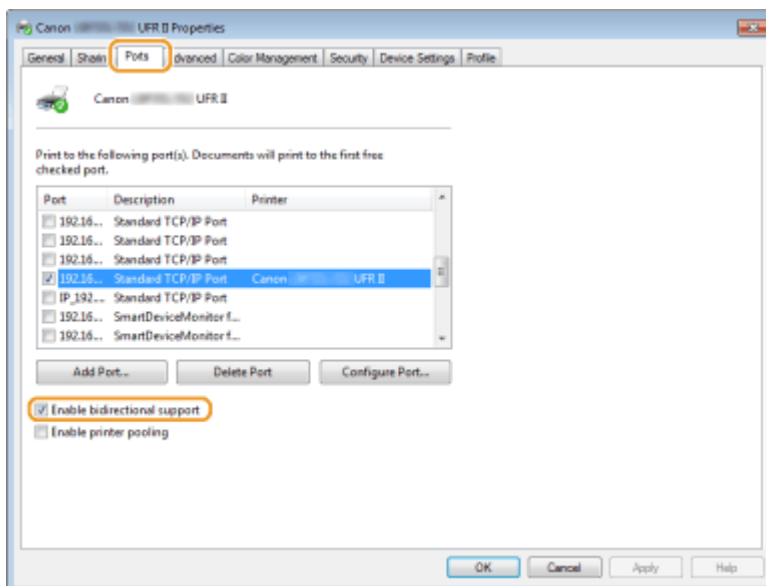
■ Displaying [Local Area Connection Properties]

Windows Vista

1 Open the [Start] menu, select [Control Panel], and click [View network status and tasks] ▶ [Manage network connections].

2 Right-click the [Local Area Connection] icon, and click [Properties] in the pop-up menu.

Windows 7/Server 2008 R2

1 Open the [Start] menu, select [Control Panel], and click [View network status and tasks] ▶ [Change adapter settings].

2 Right-click the [Local Area Connection] icon, and click [Properties] in the pop-up menu.

Windows 8/Server 2012

1 **Right-click the lower left corner of the screen** ▶ **Select [Control Panel], and click [View network status and tasks]** ▶ **[Change adapter settings].**

2 **Right-click the [Local Area Connection] icon, and click [Properties] in the pop-up menu.**

Windows Server 2008

1 **Open the [Start] menu, select [Control Panel], double-click the [Network and Sharing Center] tab, and then click [Manage network connections].**

2 **Right-click the [Local Area Connection] icon, and click [Properties] in the pop-up menu.**

Windows 8.1/Server 2012 R2

1 **Right-click the [Start]** ▶ **Select [Control Panel], and click [View network status and tasks]** ▶ **[Change adapter settings].**

2 **Right-click the [Local Area Connection] icon, and click [Properties] in the pop-up menu.**

Windows 10

1 Right-click [ ] ▶ Select [Control Panel], and click [View network status and tasks] ▶ [Change adapter settings].

2 Right-click the [Ethernet] icon, and click [Properties] in the pop-up menu.

Windows Server 2003

1 **Open the [Start] menu, and click [Control Panel]** ▶ **[Network Connections]** ▶ **[Local Area Connection].**

2 **Click [Properties].**

Font Samples

0YS1-08J

The fonts lists printed from the Utility menu are a comprehensive listing of all fonts currently available. The listing contains the names and print samples of the fonts stored on the printer.

◉**Scalable Fonts (PCL)(P. 670)**
◉**OCR Code Scalable Fonts (PCL) (P. 673)**
◉**Bitmapped Fonts (PCL)(P. 673)**

Scalable Fonts (PCL)

Font Name	Sample
Courier	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Times	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Times Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Times Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Times Bold Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Omega	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Omega Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Omega Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Omega Bold Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Coronet	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Clarendon Condensed Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Medium	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Medium Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Bold Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Condensed Medium	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Condensed Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Condensed Medium Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Condensed Bold Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Antique Olive	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Antique Olive Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Antique Olive Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Garamond Antiqua	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Garamond Halbfett	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Garamond Kursiv	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Garamond Kursiv Halbfett	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Marigold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Albertus Medium	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Albertus Extra Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Ryadh	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Ryadh Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ

Malka	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Malka Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Malka Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Dorit	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Dorit Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Naamit	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Naamit Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Arial	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Arial Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Arial Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Arial Bold Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Times New Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Times New Roman Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Times New Roman Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Times New Roman Bold Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Bold Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Narrow	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Narrow Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Narrow Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Narrow Bold Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Palatino Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Palatino Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Palatino Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Palatino Bold Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ITC Avant Garde Gothic Book	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ITC Avant Garde Gothic Demi	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ITC Avant Garde Gothic Book Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ITC Avant Garde Gothic Demi Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ

ITC Bookman Light	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ITC Bookman Demi	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
ITC Bookman Light Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
ITC Bookman Demi Italic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
New Century Schoolbook Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
New Century Schoolbook Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
New Century Schoolbook Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
New Century Schoolbook Bold Italic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Times Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Times Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Times Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Times Bold Italic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
ITC Zapf Chancery Medium Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Symbol	ΑΒΧΔΕΦΓΗΙϑΚΛΜΝΟΠΘΡΣΤΥςΩΞΨΖ
SymbolPS	ΑΒΧΔΕΦΓΗΙϑΚΛΜΝΟΠΘΡΣΤΥςΩΞΨΖ
Wingdings	
ITC Zapf Dingbats	
Courier Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Courier Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Courier Bold Italic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Letter Gothic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Letter Gothic Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Letter Gothic Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Naskh	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Naskh Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Koufi	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Koufi Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
CourierPS	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CourierPS Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
CourierPS Oblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
CourierPS Bold Oblique	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***

OCR Code Scalable Fonts (PCL)

OCR-A	ABCDEFGHIJKLMNOPQRSTUVWXYZ
OCR-B	ABCDEFGHIJKLMNOPQRSTUVWXYZ

Bitmapped Fonts (PCL)

Line Printer (10U)	ABCDEFGHIJKíóúñÑ±°¿⌐¬½¼¡«»
Line Printer (8U)	ABCDEFGHIJKÀÅÉÊÈÌ¯¨˙˚¸˝ÛÜE
Line Printer (0N)	ABCDEFGHIJK¡¢£¤¥¦§¨©ª«¬®¯
Line Printer (11U)	ABCDEFGHIJKíóúñÑõÖ¿õÃÇñ¡³¤
Line Printer (12U)	ABCDEFGHIJKíóúñÑ±°ª⌐¬½¼¡«»
Line Printer (1U)	ABCDEFGHIJK
Line Printer (2N)	ABCDEFGHIJKĄ˛Ł¤Ś§¨ŠŞŤŹ-ŻŻ
Line Printer (5N)	ABCDEFGHIJK¡¢£¤¥¦§¨©ª«¬®¯
Line Printer (6N)	ABCDEFGHIJKĄĘĞÌİĶŞĻĐŠŤŹ-ŪŊ
Line Printer (9N)	ABCDEFGHIJK¡¢£¥Š§š©ª«¬®¯

Menu Route Map

0YS1-08K

For the settings on the machine's display, see Menu Route Map (PDF manual).

» PDF Menu Route Map

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Function Guide
for Software Registration and Update

Search: | Enter keyword(s) here |

> **Available Functions**

> **Installing the System Options/MEAP Applications**

> **Managing the Register/Update Software Function**

Available Functions

Installing the System Options/MEAP Applications

Using the Register/Update Software function, you can install the System Options/MEAP Applications to the printer. You can use this function from both the touch panel display and the computer (Remote UI).

Installing by Connecting This Printer to an Outside Network

You can install the System Options/MEAP Applications by accessing the delivery server from this printer.
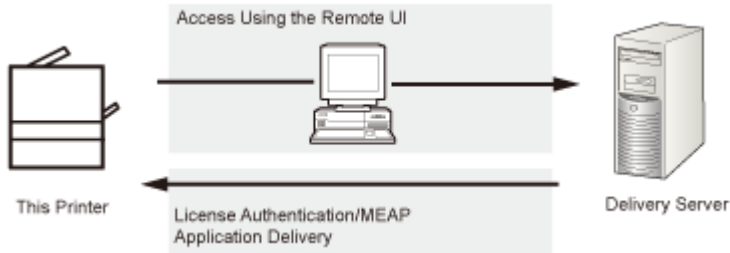
Installing by Not Connecting This Printer to an Outside Network

You can install the System Options/MEAP Applications by using the license file/license key that you obtained from the License Management System.
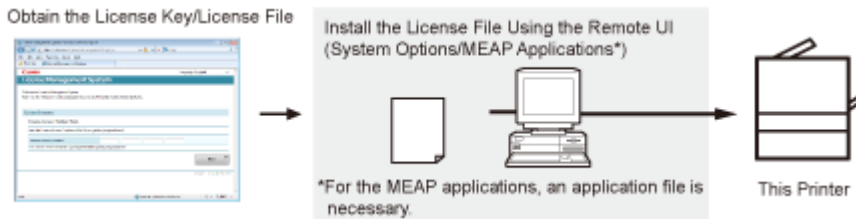
Installing the System Options/MEAP Applications

The procedures to install the system options or MEAP applications on the printer differ, depending on whether the printer is connected or not to an outside network. Select the procedure that matches your conditions using the references below.

Installing by Connecting this Printer to an Outside Network

Install from the Remote UI.

> 🖉 **NOTE**
>
> **Communication test**
>
> To check that the transmission with the delivery server is properly operating, if necessary, perform a communication test before installation.
>
> ➢ "Testing Communication Using the Remote UI"

Installing by Not Connecting this Printer to an Outside Network

Installing System Options

Install using one of the following procedures.

> 🖉 **NOTE**
>
> **If you install multiple system options**
> We recommend that you install from the Remote UI.

Procedure	Necessary Steps	Reference Page
Using the Remote UI to install	1. Obtain the license file from the License Management System	➢ "Obtaining the License File"
	2. Install the license file using the Remote UI	➢ "Installing the System Options Using the Remote UI"

Installing MEAP Applications

Use the following procedure to install.

Procedure	Necessary Steps	Reference Page
Using the Remote UI to install	1. Obtain the license file from the License Management System	➢ "Obtaining the License File"
	2. Install the license file and application file using the Remote UI	➢ "Installing the MEAP Applications Using the Remote UI"
	3.	➢ "Starting the MEAP Applications"

1

Procedure	Necessary Steps	Reference Page
	Start the MEAP applications from SMS	

Installing by Connecting This Printer to an Outside Network (Delivery)

If the printer is connected to an outside network, you can install the system options and MEAP applications from the Remote UI by linking with the delivery server.

> 📝 **NOTE**
>
> **Preparing a license access number certificate**
> Make sure that the license access number that is included with the package is available.

1

Start the Remote UI, and then log in as Administrator.

> ▶ "e-Manual"

2

From the top page of the Remote UI, click [Settings/Registration] → [License/Other] → [Register/Update Software].
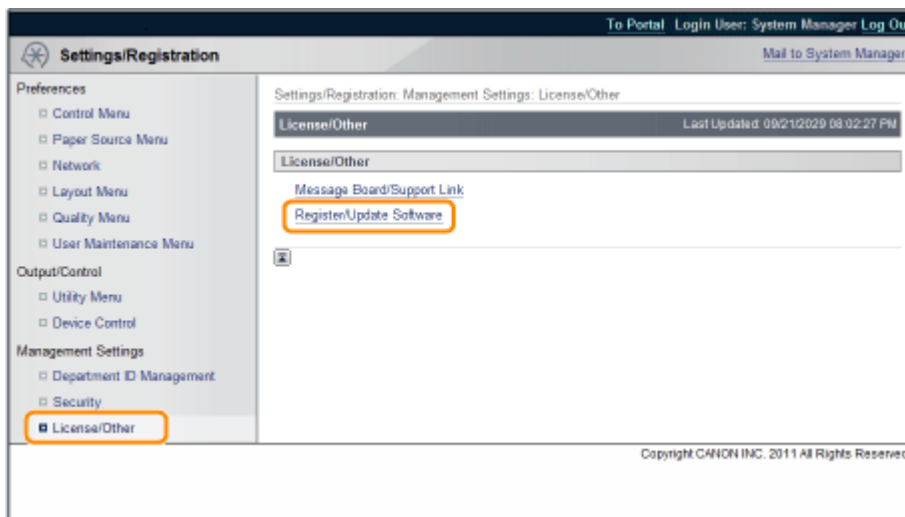
3

Click [Delivered Installation].
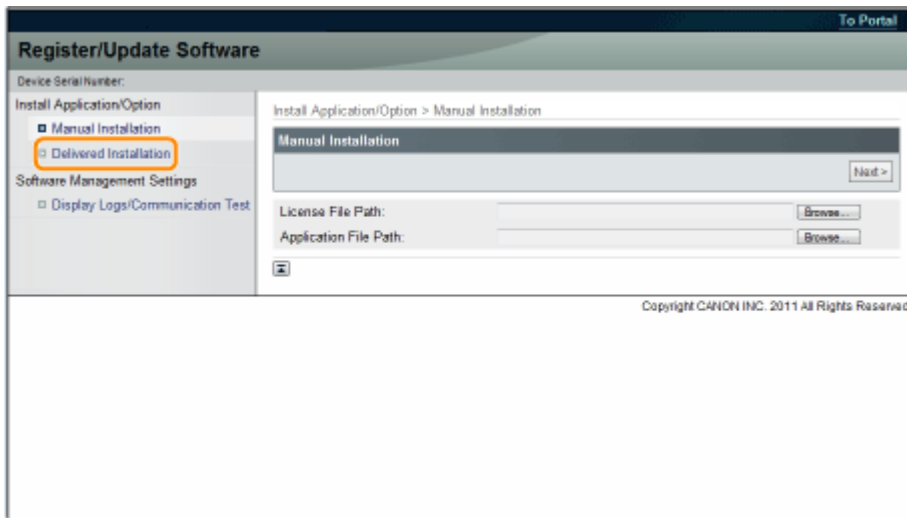
4

Enter the license access number → click [Next].
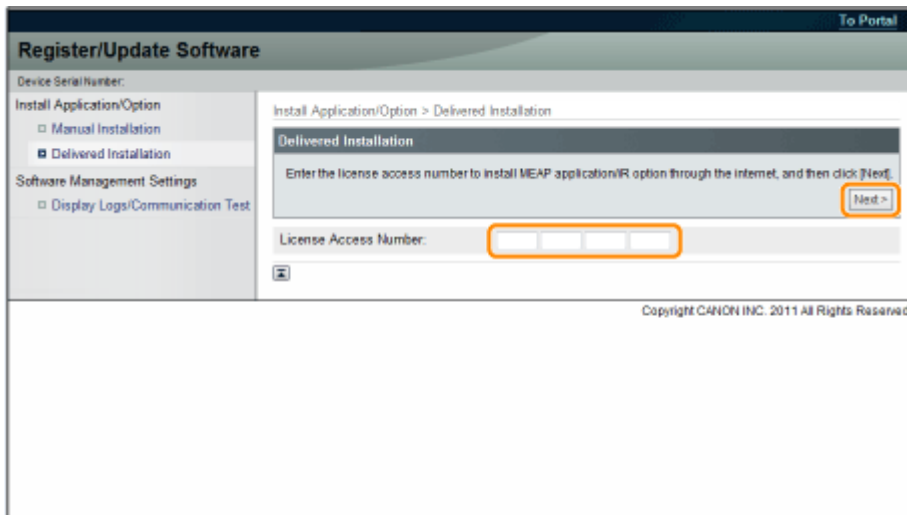
Once the license access number is confirmed after contacting the delivery server, information for the system options/MEAP applications you can install are displayed.

5

Select the system options and MEAP applications → click [Start Installation].
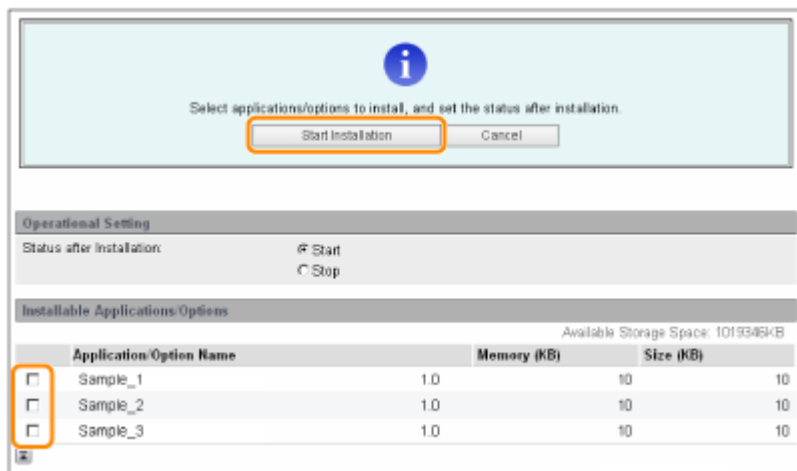
Status after Installation:

Start: Starts the installed MEAP applications.

Stop: Stops the installed MEAP applications.

✋ IMPORTANT

If [Stop] is selected when installing MEAP applications

You need to start the application before using the MEAP application.

➤ "Function Guide for MEAP Application Management"

If the agreement screen is displayed, read the agreement. If you abide with the agreement, click [Accept].

6

Check the Installation Result page.
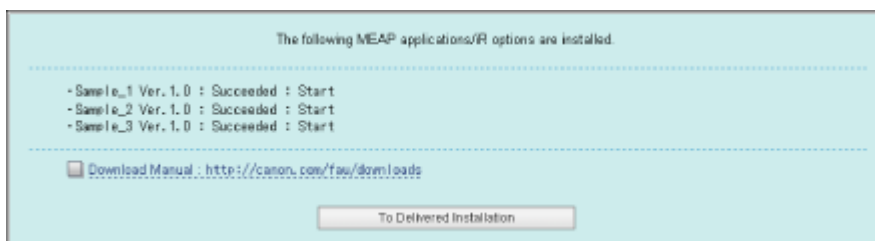
When the installation of the system options is completed, the message <Restart the device.> appears. Restart the printer to enable the function.

To return to the Delivered Installation screen, click [To Delivered Installation].

✎ NOTE

The manual for system options/MEAP applications

You can download the manual for the installed system options/MEAP applications by accessing the URL for the manual download site displayed on the Installation Result screen.

➤ "Downloading the Manuals and Related Software"

Installing by Not Connecting This Printer to an Outside Network (Manual)

This section describes how to install the system options and MEAP applications without connecting the printer to an outside network.

Obtaining the License File

Obtain the license file.

License file: Obtain the license file when installing the system options/MEAP applications using the Remote UI.

> ✎ NOTE
>
> **Preparing a license access number certificate**
>
> Make sure that the license access number that is included with the package is available.
>
> **License access number is not printed on the package of the MEAP application**
>
> If the license access number is not printed on the package of the MEAP application you are using, the license file is issued by the distributor of the MEAP application. You do not need to obtain the license file explained in this section. For more information, see the manual for each MEAP application.

1

Check the management number you need to obtain the license file.

To obtain the license file, the following management number is required.

- License Access Number: Check the license access number certificate.
- Device Serial Number: You can check this number from the Utility menu of the operation panel.
- ⇥ "e-Manual"

2

Access http://www.canon.com/lms/license/.

3

Follow the instructions on the screen and obtain the license file.

Next, install the system options or the MEAP applications.

Installing the System Options Using the Remote UI

You can install the system options to the printer using the Remote UI.

1

Start the Remote UI, and then log in as Administrator.

⇥ "e-Manual"

2

From the top page of the Remote UI, click [Settings/Registration] → [License/Other] → [Register/Update Software].

3

Click [Manual Installation].

4
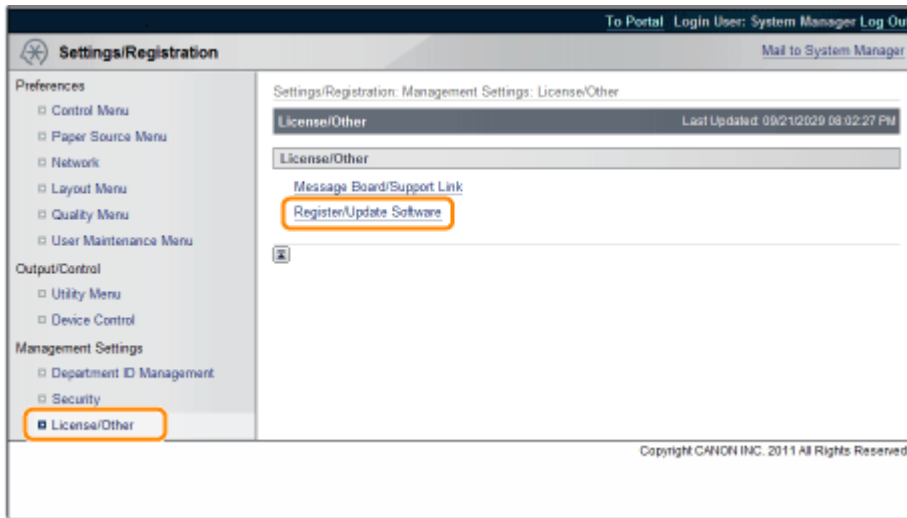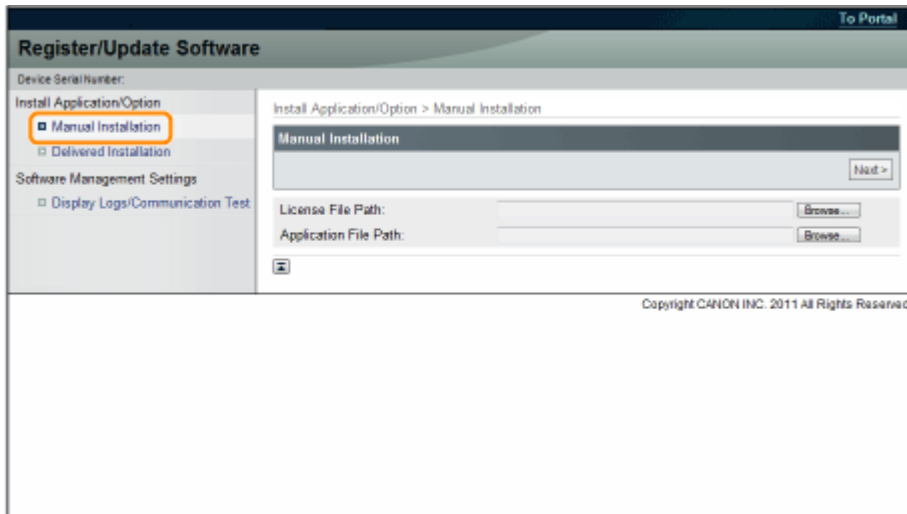
Click [Browse...] → select the license file to install → click [Next].
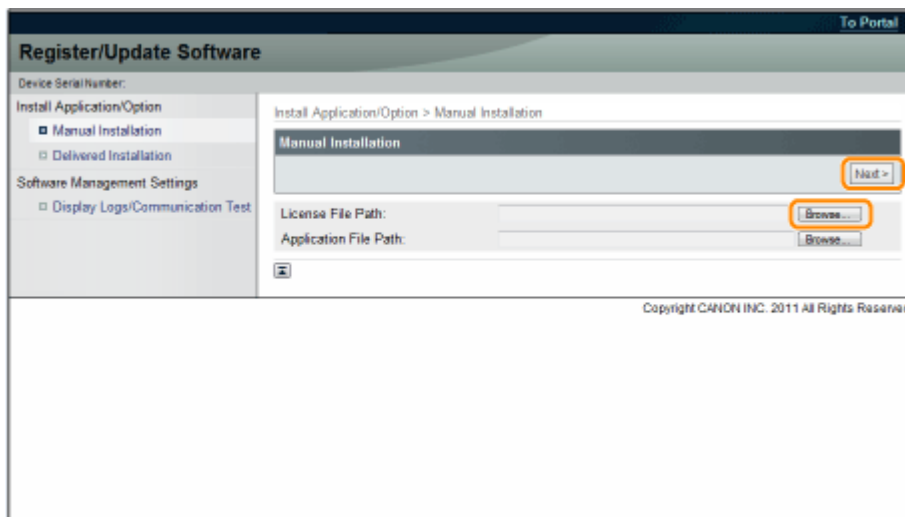
File extensions:

License File: A file with the [lic] extension.

5

Check the contents that will be installed on the confirmation screen → click [Install].

Installing the MEAP Applications Using the Remote UI

You can install the MEAP applications to the printer using the Remote UI.

> ✎ **NOTE**
>
> **The number of MEAP applications that can be installed**
>
> You can install up to eight applications.
>
> **For details on MEAP applications**
>
> There may be other system requirements for installation, depending on the MEAP applications. For instructions on settings, see the manual provided with the MEAP application.

1

Start the Remote UI, and then log in as Administrator.

➤ "e-Manual"

2

From the top page of the Remote UI, click [Settings/Registration] → [License/Other] → [Register/Update Software].

3

Click [Manual Installation].

4
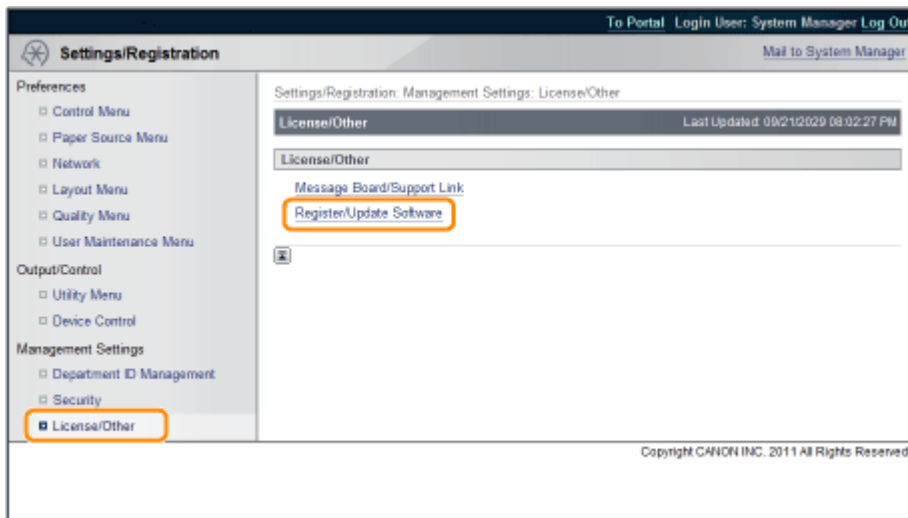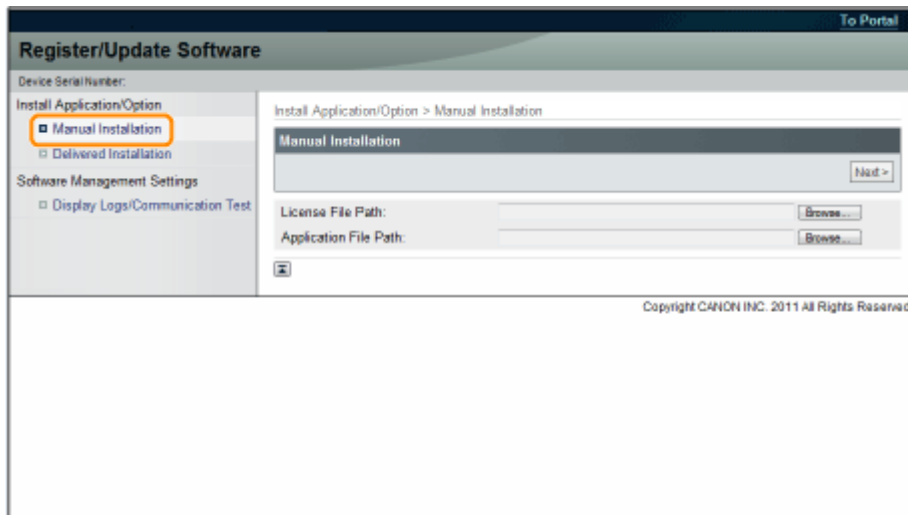
Click [Browse...] → select the license file and the application file to install → click [Next].
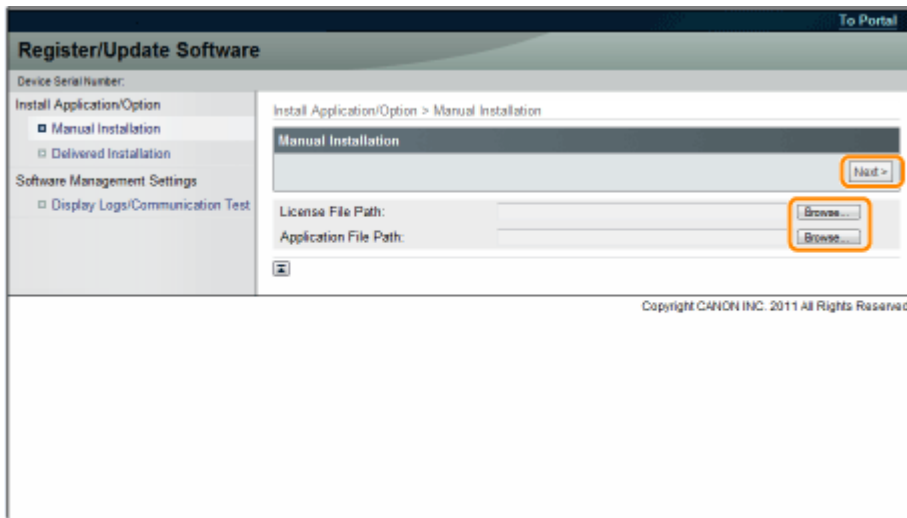
File extensions:

License File: A file with the [lic] extension.

Application File: A file with the [jar] extension.

🖐 IMPORTANT

When you install MEAP applications

- You cannot install license files only.
- When installing the MEAP application, make sure you specify the license file. You cannot install the MEAP application without specifying the license file.

5

Confirm the information displayed on the install confirmation page → click [Yes].
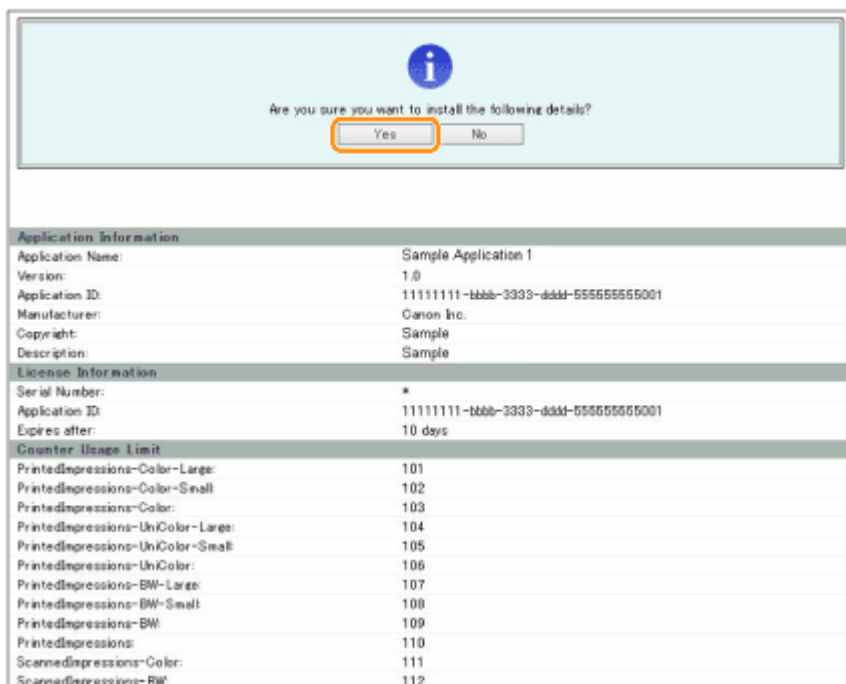
Depending on the MEAP application, a software license agreement screen may be displayed. Confirm the information displayed on the screen → click [OK].

If you are installing a new MEAP application, the following information is displayed on the screen.

- Application Information
- License Information

The following information is displayed when you overwrite a MEAP application.

- Current Application Information
- Application Information after Overwrite

Installation will start after the message <Installing... Please wait.> is displayed again. After the installation, click [To Manual Installation] to display the Manual Installation screen.

> 🖐 **IMPORTANT**
>
> **To use MEAP applications**
>
> To use the installed MEAP application, you must start the MEAP application.
> ⯈ "Function Guide for MEAP Application Management"

Starting the MEAP Applications

This section describes how to start the installed MEAP application from the SMS screen.

> 📝 **NOTE**
>
> **Details on SMS**
>
> For details on SMS, see "Function Guide for MEAP Application Management."

1

From the top page of the SMS, click [MEAP Application Management].
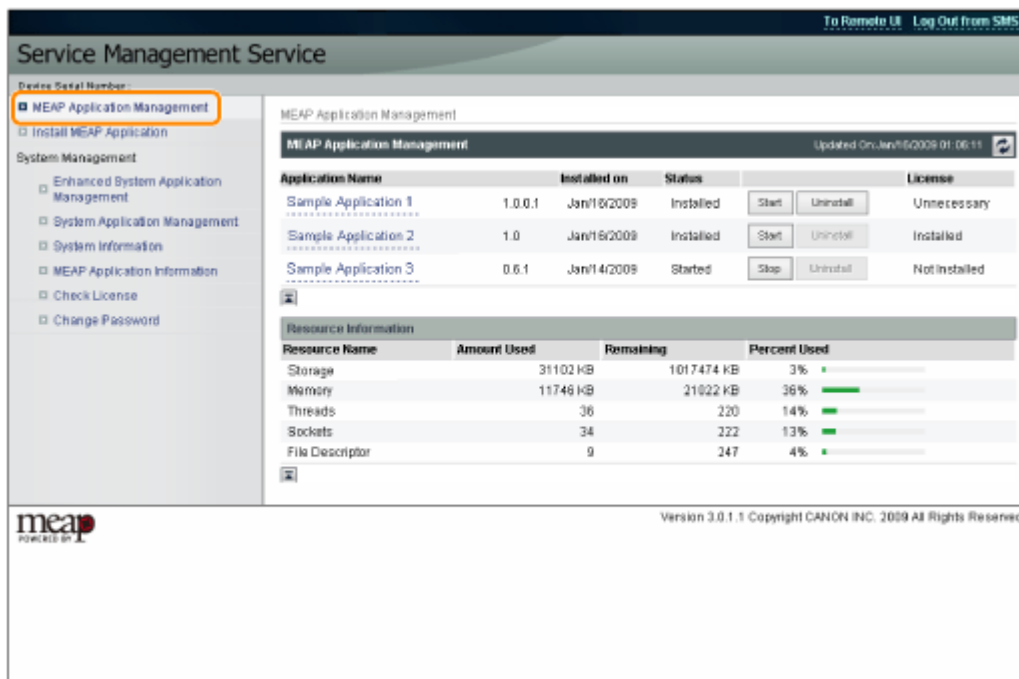
2

Select the application you want to start → click [Start].

Downloading the Manuals and Related Software

You can download the manuals for the installed system options/MEAP applications and their related software from the following URL.

http://canon.com/fau/downloads

> ✎ **NOTE**
> - Make sure that the license access number that is included with the package is available.
> - If you installed from the Remote UI, you can jump to the above URL from the link displayed on the Installation Result screen. If you do so, the license access number is entered automatically.

1

Start the Web browser on your computer.

2

Enter the URL in [Address].

3

After entering the license access number, follow the instructions on the screen to download the manuals and related software.

If software is downloaded, refer to the manual of that software to install.

Managing the Register/Update Software Function

You can display the installation logs and test communication using the Remote UI.

Displaying the Installation/Update Log Using the Remote UI

You can check the installation logs of the system options/MEAP applications and the update log of the firmware.

1

Start the Remote UI, and then log in as Administrator.

> "e-Manual"

2

From the top page of the Remote UI, click [Settings/Registration] → [License/Other] → [Register/Update Software].

3
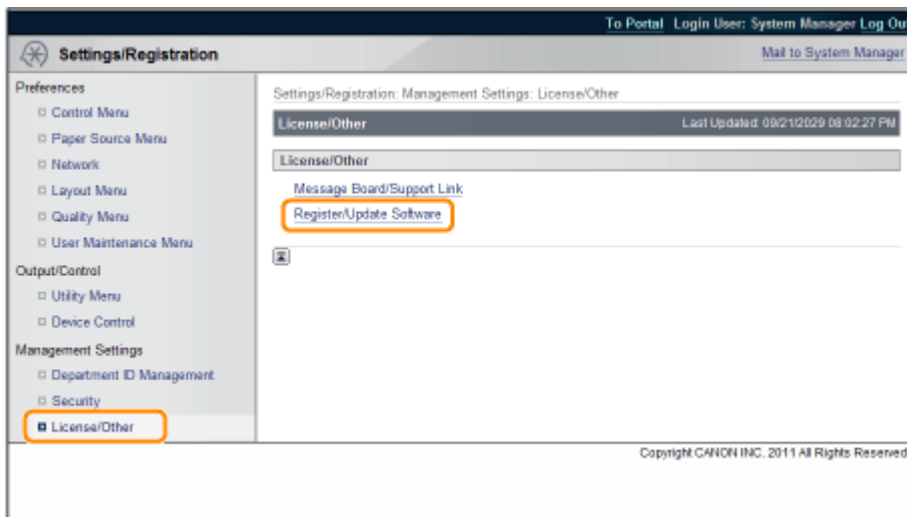
Click [Display Logs /Communication Test].
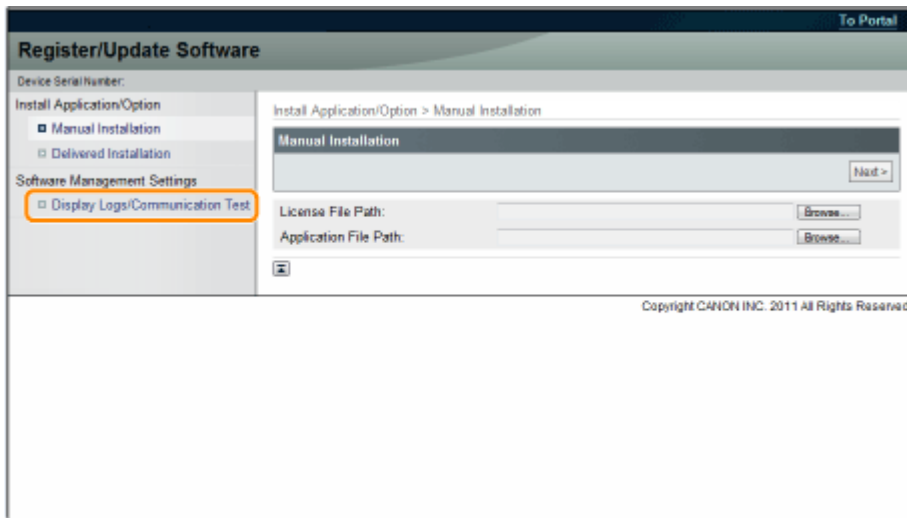
4

From the Log View drop-down list, select [Update Logs] → click [Switch].

The installation logs of the system options/MEAP applications and the update log of the firmware are displayed.
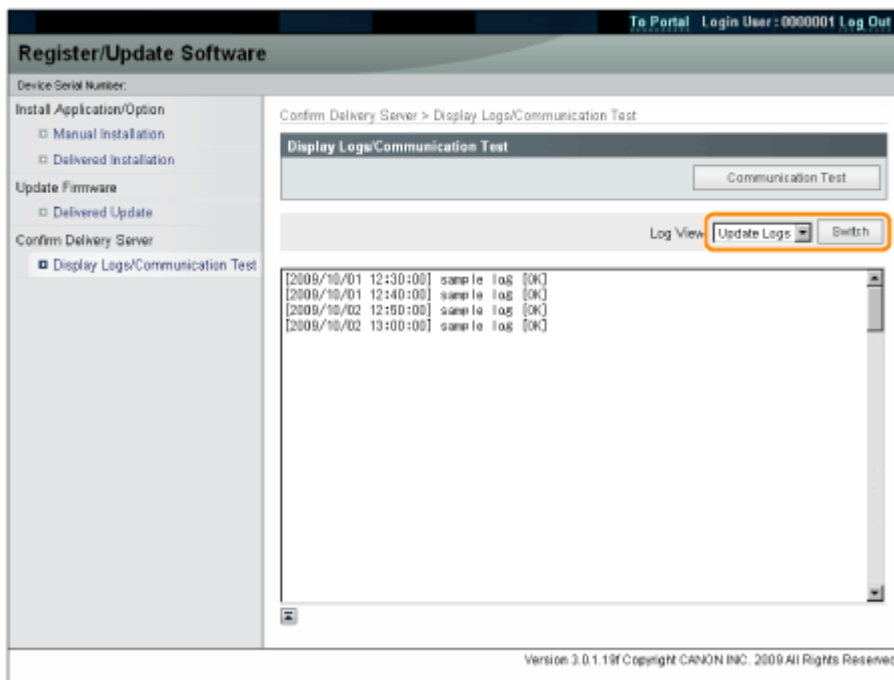
Testing Communication Using the Remote UI

You can check whether the printer can properly communicate with the delivery server.

1

Start the Remote UI, and then log in as Administrator.

▶ "e-Manual"

2

From the top page of the Remote UI, click [Settings/Registration] → [License/Other] → [Register/Update Software].

3
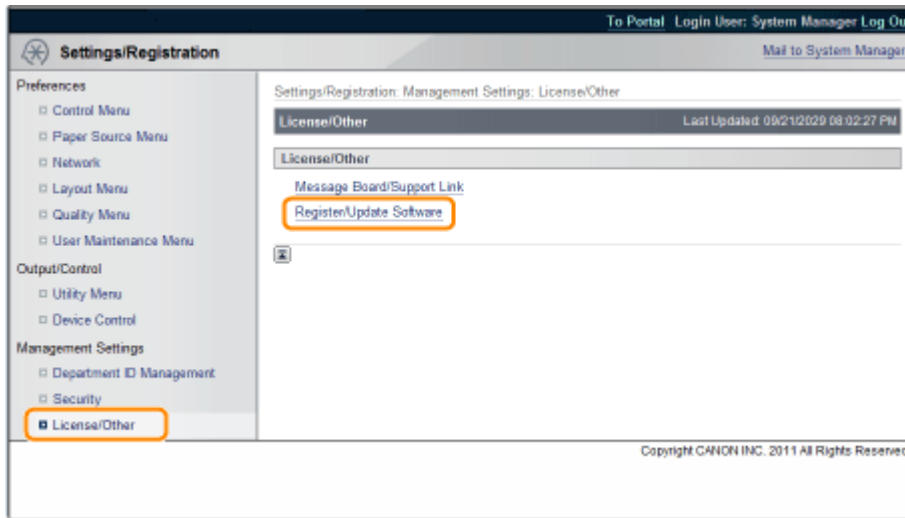
Click [Display Logs /Communication Test] → [Communication Test].
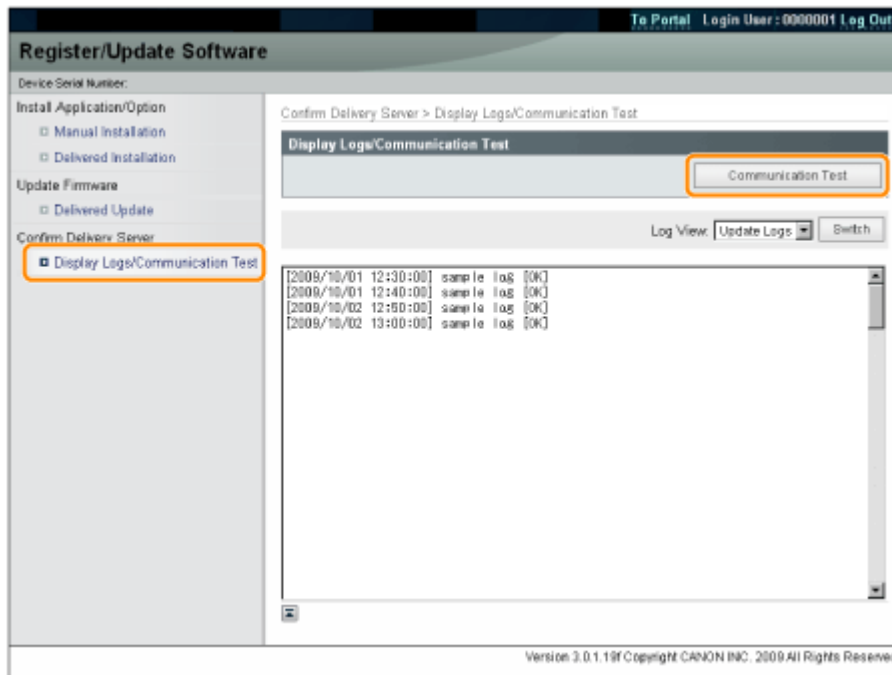
When the confirmation dialog is displayed, click [Yes].

Contents for the test are downloaded from the delivery server.

When the communication test is completed, the communication test result screen is displayed.
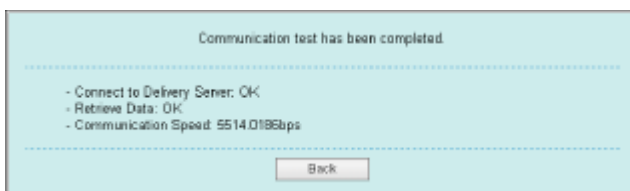
> ✎ **NOTE**
>
> **If [Failed] is displayed on the communication test result**
>
> If [Failed] is displayed on the communication test result screen, check that the network cable is connected and that the network settings are correct. If the problem is not resolved, contact your local authorized Canon dealer.

Using This Guide

This chapter describes how to use this guide.

Operating Environment of This Guide

Screen Layout of This Guide

> Top Page
>
> Topic Page
>
> Site Map
>
> Search Method

Viewing This Guide

\<To find the desired content\>

- **Selecting between the category icons**
  From the top page, select a category icon you want.
  "Top Page"
- **Searching from the site map**
  On the site map, you can view the list of whole sections of this guide sorted by category. You can directly display sections in a category.
  "Site Map"
- **Whole text search function**
  You can search by keyword in this guide. You can display the desired description from the search results by entering a keyword you want to search. This function supports AND search.
  "Search Method"

Operating Environment of This Guide

You need a Web browser to use this guide. Operation of the following Web browsers is guaranteed.

Windows

- Internet Explorer 6.0 or later
- Firefox 2.x or later

Mac OS

- Safari 3.x or later
- Firefox 3.x or later

> **NOTE**
>
> **Enabling the script function**
>
> Enable the script function for a Web browser before using this guide.

Screen Layout of This Guide

This section describes the screen layout of this guide.

The page displayed right after this guide starts is called "Top Page" and the guide description is called "Topic Page" in this section.
"Site map" is displayed from [Site map] which is located on the upper right of this guide.

The search panel is used to make search through this guide.

The screen layout is different for each page, so click the following links to see the instruction.

Top Page

Topic Page

Site Map

Search Method

Top Page

(1) Select from functions
The instructions of each function and operation method are described.

(2) [Search]
The search panel is displayed by entering keyword(s) and clicking [🔍].
For details, see "Search Method."

(3) [Top]
The top page of this guide is displayed.

(4) [Site map]
The entire contents of this guide are displayed.

(5) [Help]
How to use this guide is displayed.

(6) [Disclaimers]
The disclaimers are displayed.

(7) [Copyright]
The information of copyrights is displayed.

(8) [Trademarks]
The trademarks are displayed.

Topic Page

(1) Chapter contents
This is the list of the contents in the chapter. Clicking each item displays the description in the topic page.
Click [➕] to expand a menu, and click [➖] to collapse a menu.
Alternatively, click [➕ Expand all] to expand all menus, and click [➖ Collapse all] to collapse all menus.

(2) Topic page
The descriptions of each item are displayed.
The current location of the displayed topic is displayed at the upper left of the topic page. Click a link to move to a higher level.

(3) [Chapter] menu
You can select a different chapter from the pull-down menu.

(4) [Contents] tab
Click to display the chapter contents panel.

(5) [Search] tab
Click to display the search panel.
For details, see "Search Method."

(6) [◀]
Click to display or hide the chapter contents panel/search panel.

(7) [Previous]/[Next]
Click to move to the previous or next topic.

(8) [Print this topic]
Prints only the topic page currently displayed.

(9) [Print all]
Prints all the contents in a chapter.

Site Map

(1) Whole contents

Shows the all chapters and sections of this guide. Click an item to view the contents.

Search Method

(1) Search

Entering a character string in [Search] on the top page or in the [Keyword] text box on the search panel and then clicking [🔍] displays the search results.

The AND search is available in this guide so you can refine the search results by entering two or more keywords. When entering keywords, enter a space between the keywords.

- **Example:** license file (if you want to display pages which include words, "license" and "file")

(2) Search result

The search results for a keyword are displayed.

If there are more than 10 search results, you can see the other results by clicking [«], [»], or the number which is located below the result.

(3) [Search options]

Click to display the search options.

The search options can be used to specify the chapter to search, case sensitivity, and whether to differentiate between one- and two-byte characters.

Click [Search with these conditions] to search with the specified conditions.

Viewing This Guide

Symbols Used in This Guide

The following symbols are used in this Guide to mark descriptions of handling restrictions, precautions, and instructions that should be observed for your safety.

> 🖐 **IMPORTANT**
>
> Indicates operational requirements and restrictions. Be sure to read these items carefully to operate the machine correctly, and avoid damage to the machine or property.

> 📝 **NOTE**
>
> Indicates a clarification of an operation, or contains additional explanations for a procedure. Reading these notes is highly recommended.

Buttons Used in This Guide

The following are examples of how control panel keys and on-screen buttons are depicted in this guide.

Type	Depiction in This Guide	Example
Buttons on computer operation screen and so on	[Button name and so on]	[OK]

Screenshots Used in This Guide

The contents of the screenshots used in this guide are the default settings.

Depending on the system configuration, the contents of the screenshots may partly differ.

Disclaimer

The information in this manual is subject to change without notice.

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Function Guide
for MEAP Application Management

Search: | Enter keyword(s) here | 🔦

> **Available Functions**

> **Launching and Closing SMS**

> **MEAP Application Settings**

> **System Settings**

> **List of Error Messages**

Available Functions

SMS (Service Management Service) is software that accesses the printer over the network from an existing Web browser, and can install and manage MEAP applications (called "applications" in this document). Since the software (Web server) for using SMS is embedded in the printer, there is no need for any software other than a Web browser.

If a printer on the network is connected to a computer, it can use SMS. You can perform the following operations using SMS.
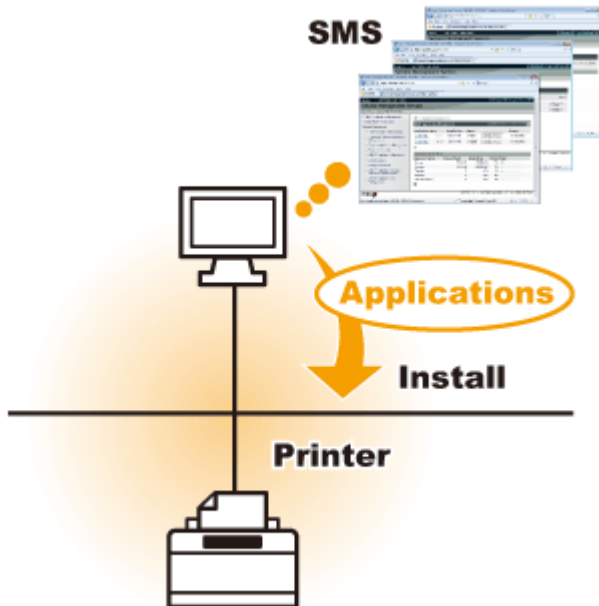
You can check application information from computers on the network

You can access the printer via the network and display the status and information of installed applications.

After SMS launches and you log in by entering your password in the [Log In] page, the following top page is displayed.

(1) **[MEAP Application Management]**
It can display the status of applications that are installed in the printer.
▶ "MEAP Application Settings"

(2) **[Install MEAP Application]**
Install the MEAP application.
▶ "Installing MEAP Applications"

(3) **[System Management]**
MEAP system administrator settings are used for setting system application settings, displaying information and changing passwords, etc.
▶ "System Settings"

You can install and uninstall applications

You can install and uninstall applications that support this printer from the computer.

▶ "Installing MEAP Applications"
▶ "Uninstalling MEAP Applications"

You can update installed applications and license files

If the license for the installed applications has expired, you can reinstall and update it.

▶ "Adding License Files"

Launching and Closing SMS

Log in is required to use SMS.

- **Before Launching SMS (Preparation)**

- **Launching SMS (Log in)**

- **Closing SMS (Logging Out)**

☑ **NOTE**

Web Browser Settings

The following settings are required.
- JavaScript must be enabled
- The use of session cookies must be enabled
- When a proxy server is used, using the proxy server settings of your Web browser, add the IP address of the printer to the [Exceptions] (addresses that do not use a proxy) list.
  Since settings differ depending on the network environment, consult with your network administrator.

Launching SMS

Multiple users cannot log in to SMS at the same time.

Automatic SMS Logout

While SMS is in use, if it is not accessed for approximately five minutes or more it times out and the user is automatically logged out. If that happens, log in again from the [Login] page.

Do not use the Web browser's [Back] navigation button

If you use the Web browser's [Back] navigation button, SMS may not operate properly.

SMS System Environment

SMS operation is guaranteed in the following system environments.

Web Browsers	- Internet Explorer 7 or later - Safari 4.0.5 or later
Operating system	- Windows Vista SP2 - Windows 7 SP1 - Windows 8 - Mac OS X v 10.5 or later

Before Launching SMS (Preparation)

Set the following before launching SMS.

Step 1	Configure the network settings.	⊁ "e-Manual"
Step 2	Check the printer's IP address by Network Status Print.	⊁ "e-Manual"
Step 3	Set it so that the printer can be accessed from the Web browser.	⊁ "Setting Up HTTP Communication"

Setting Up HTTP Communication

In order to use MEAP functions from the Web browser, HTTP communication must be enabled.

Follow the steps in the procedure below to configure the settings. (The default settings are <On>.)

1

Press [Settings] key, select <Network> with ▲/▼, and then press [OK] key.

After the message is displayed, press [OK] key.

2

Select <TCP/IP Settings> with ▲/▼, and then press [OK] key.

3

Select <HTTP> with ▲/▼, and then press [OK] key.

4

Select <On> with ▲/▼, and then press [OK] key.

<On>	It uses HTTP.
<Off>	It does not use HTTP.

5

Perform a hard reset or restart the printer.

The settings are enabled after a hard reset or after the printer is restarted.

> ✎ **NOTE**
>
> **Details about Hard Resets**
> See the "e-Manual."

Launching SMS (Log in)

The following two methods are used for launching SMS.

- Launching SMS directly from the Web browser
- Launching SMS from a Remote UI

Before launching SMS, see "Attention (Launching SMS (Log in))."

Launching SMS directly from the Web browser

1

Start the Web browser.

2

Enter "https://<Printer's IP address>:8443/sms/" in the address bar, and then press [ENTER] from the Enter key on the keyboard.

- Entry Example: https://192.168.0.215:8443/sms/

- If the printer's host name is registered in the DNS server, you can enter [host name.domain name] instead of the IP address.
    - Input Example: http://my_printer.xy_dept.company.com:8443/sms/
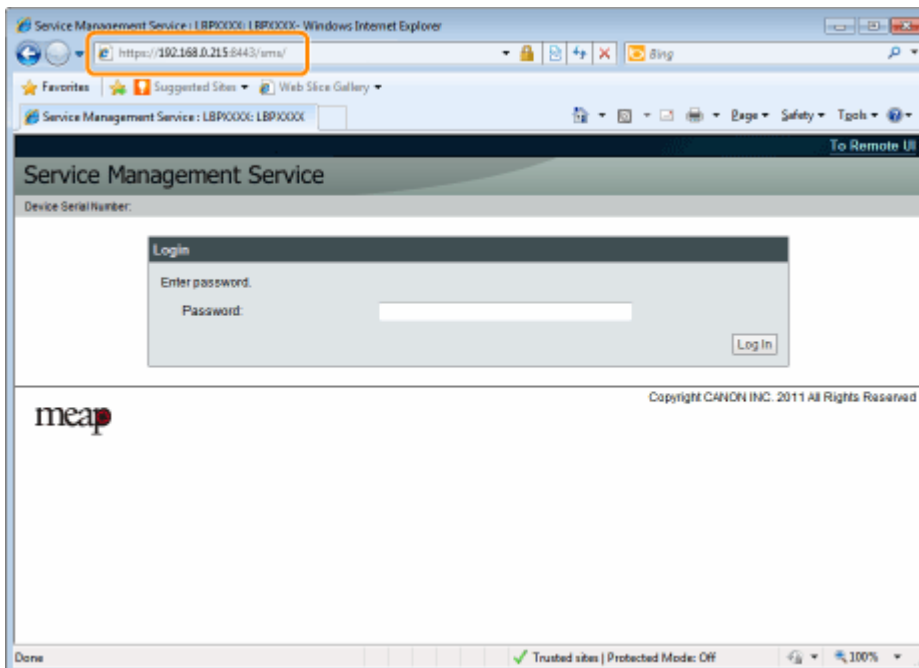
If SMS does not launch

Check the following.
- HTTP communication is enabled.
    - "Setting Up HTTP Communication"
- The computer and printer are connected properly over the network.
- The printer is turned ON.

- The IP address or [host name.domain name] are entered correctly.

3

Enter the password, and then click [Login].

✝ The default password is "MeapSmsLogin" (case sensitive).

❓ **If you cannot log in**

If you cannot log in because the password is not correct, a message is displayed prompting you to re-enter your password.

Enter the correct password, and then click [Login].

✝ If you do not log in within approximately 5 minutes after the login page is displayed, you will not be able to log in even if you enter the correct password.

✝ A switch license file is required to initialize passwords. After clicking on [Browse] in [Initialize Password] in the screen that displays the message prompting password re-entry, select Switch License File, and then click [Initialize]. Contact your local authorized Canon dealer or sales representatives.

Launching SMS from a Remote UI

1

Start the Remote UI and log on in system manager mode.

▸

5

➡ "e-Manual"

2

Click [Service Management Service] on the portal page.

3

Enter the password, and then click [Login].

✝ The default password is "MeapSmsLogin" (case sensitive).

❓ **If you cannot log in**

If you cannot log in because the password is not correct, a message is displayed prompting you to re-enter your password.
Enter the correct password, and then click [Login].

- If you do not log in within approximately 5 minutes after the login page is displayed, you will not be able to log in even if you enter the correct password.

- A switch license file is required to initialize passwords. After clicking on [Browse] in [Initialize Password] in the screen that displays the message prompting password re-entry, select Switch License File, and then click [Initialize]. Contact your local authorized Canon dealer or sales representatives.

Attention (Launching SMS (Log in))

IMPORTANT
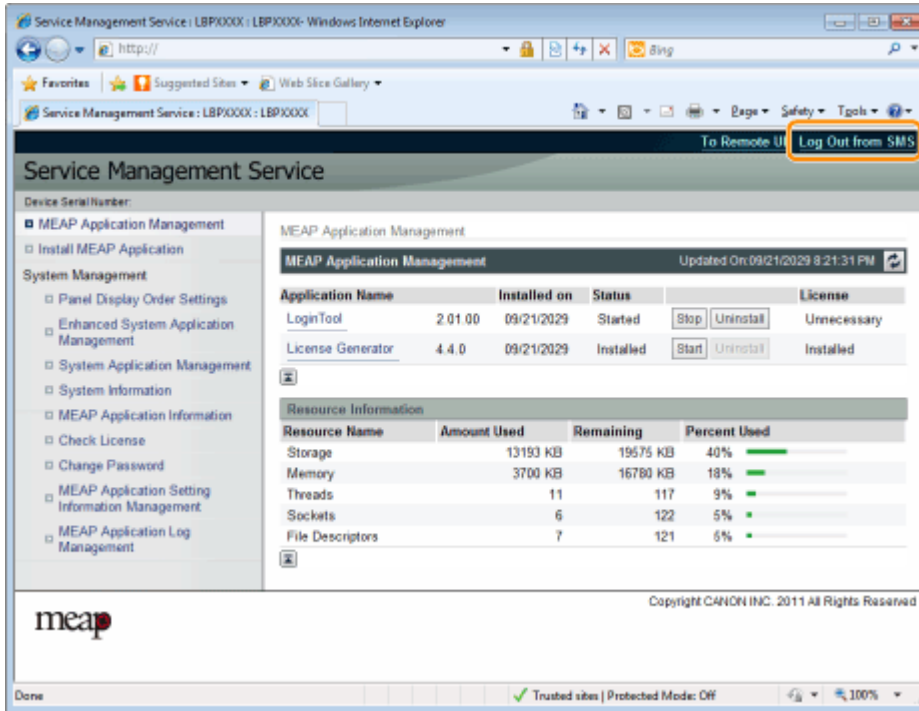
SMS Password

- To prevent unauthorized access, We recommend that the administrator change the password before SMS use is begun. See "Changing the SMS Password" when changing passwords.
- This password is to prevent unauthorized operation of the printer. Do not let anyone know except the administrator.
- Make sure that you do not forget your password. If you forget your password, you will not be able to use SMS. If this happens, contact your local dealer.

Closing SMS (Logging Out)

Click [Log Out from SMS] to close SMS.

✝ If you close the Web browser without clicking [Log Out from SMS], SMS becomes temporarily unusable.

MEAP Application Settings

MEAP applications are set from the [MEAP Application Management] and the [Install MEAP Application] menus.
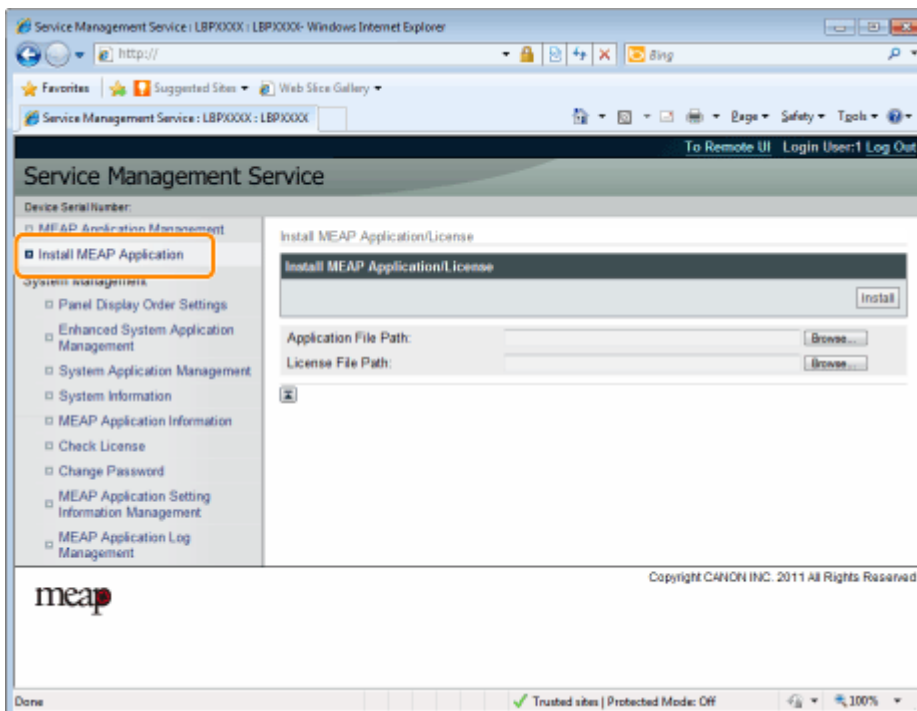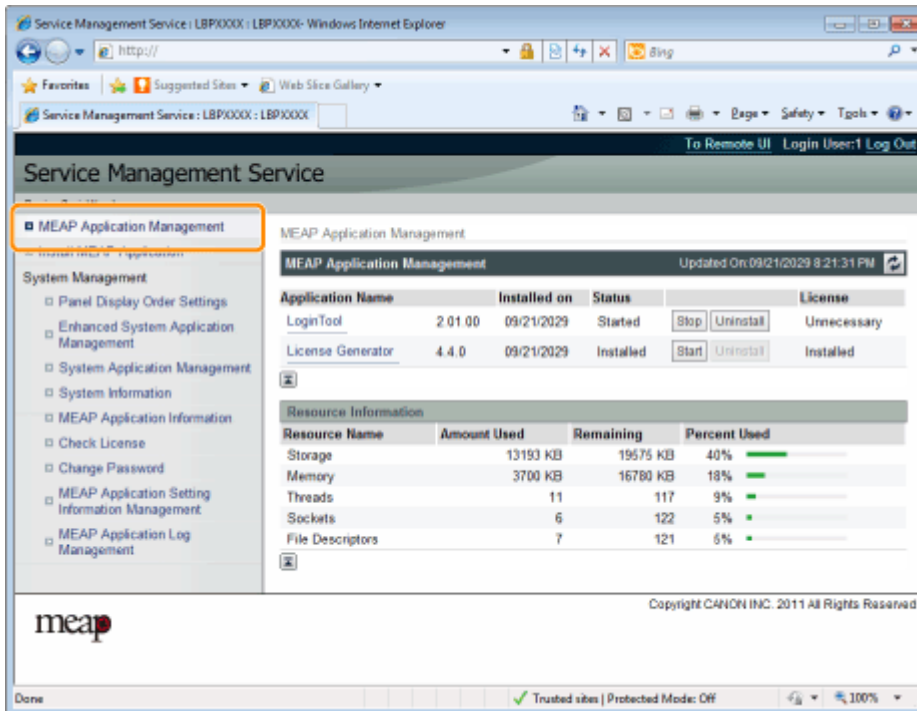
Items shown in the [MEAP Application Management] menu

[Application Name]	The name of the application is displayed.
[Installed on]	The date on which the application was installed is displayed.
[Status]	The status of the application is displayed. • **[Installed]:**

	The application has been installed, but not started. Or, the printer was turned OFF after the application stopped, and after the printer was restarted the application was not yet started. • **[Started]:** The application is running. • **[Stopped]:** The application is stopped. • **[Starting]:** The application is starting up. • **[Stopping]:** The application is closing down.
[License]	The license status of the application is displayed. • **[Installed]:** A valid license file has been installed. • **[Not Installed]:** The license file has been disabled. • **[Over Limit]:** The license file that is installed has an expiration date, and multiple types of counters have been set. One or more of the counter values has exceeded the upper limits of the counter. • **[Invalid]:** The installed license file has passed its expiration date. Or, the current counter value has exceeded the upper limit of the license file. * When upper limits have been set for multiple types of counters, the license will become invalid at the point in time when any counter exceeds its upper limit. • **[Unnecessary]:** The application does not require a license file for startup.
[Resource Information]	The resources being used by the applications are displayed. • **[Storage]:** The amount of storage being used. It is shown in kilobyte units (KB). • **[Memory]:** The amount of memory being used. It is shown in kilobyte units (KB). • **[Threads]:** The number of threads. • **[Sockets]:** The number of sockets. • **[File Descriptors]:** The number of file descriptors. 📝 **NOTE** **Timing of [Resource Information] Updates** [Resource Information] is updated at the following times. | Item	Timing of Updates
[Storage]	When the application is installed or uninstalled
[Memory] [Threads] [Sockets] [File Descriptors]	When the application starts or stops	

[Install MEAP Application] Menu Settings

	Install the MEAP application.
[Install MEAP Application/License]	• **[Install]:** Specify the application file and license file to be installed, and then click [Install] to start the installation. • **[Application File Path]:** Specify the application file to be installed. • **[License File Path]:** Specify the license file.

See the following section for settings that use the [MEAP Application Management] and [Install MEAP Application] menus.

Installing MEAP Applications

Uninstalling MEAP Applications

Starting/Stopping MEAP Applications

Checking the Details of MEAP Applications

MEAP Application License Settings

Setting Authentication Information for MEAP Applications

Installing MEAP Applications

Before starting the following operation, see "Attention (Installing MEAP Applications)."

1

Start SMS (Service Management Service).

⇒ "Launching SMS (Log in)"

2

Click [Install MEAP Application].
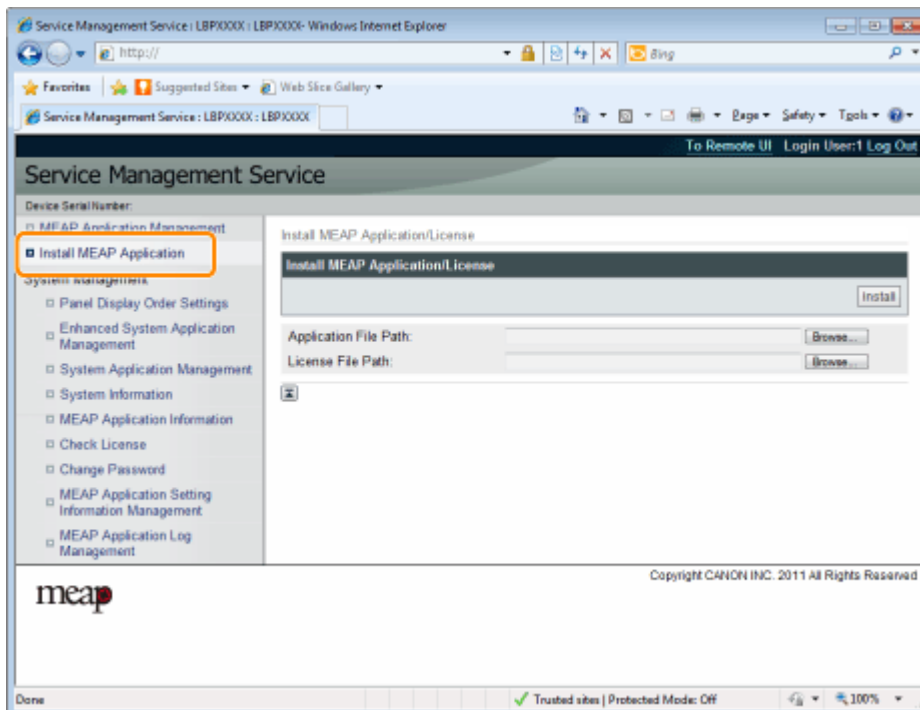
3

Set [Application File Path] and [License File Path].

Either select the file by clicking [Browse...], or enter the location where the file is stored.
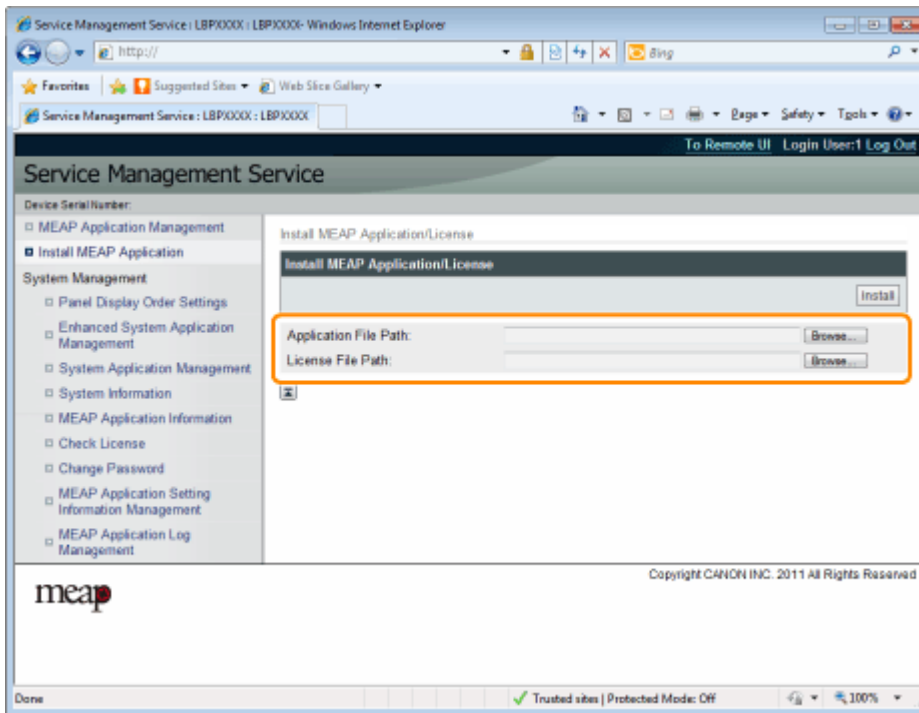
[Application File Path]	Specify a file with a "jar" extension.
[License File Path]	Specify a file with a "lic" extension.

4

Click [Install].

5

Confirm the information on the install confirmation page, and then click [Yes].

When the [License Agreement] appears, confirm the information, and then click [I Accept].

→ The installation begins.

<Information Displayed on the Install Confirmation Page>

If you are installing a new application

[Application Information]	Information about the application
[License Information]	The expiration date of the application

If you are updating an application

[Application Information]	[Current Application Information]	Information about the current application
	[Application Information after Overwrite]	Application information after overwrite
[License Information]	[Expires after]	The expiration date of the targeted application
	[Current Counter Usage Limit]	Current counter information

	[Counter Usage Limit after Overwrite]	Counter information after overwrite

If the install is cancelled

If the shutdown process for the printer starts while an application is being installed, an error message may be displayed on the [Install] page for SMS, and the installation cancelled. If this happens, install the application again after restarting the printer by turning the main power switch OFF and then back ON again.

6

After the install is completed, click [To MEAP Application Management].

NOTE

When using the installed application

Start the application.

"Starting MEAP Applications"

Attention (Installing MEAP Applications)

> 🖐 **IMPORTANT**
>
> ### Installing Applications
> - There may be other specific requirements for installation, depending on the application. For more information, see the instruction manual provided with the application.
> - You can install up to eight applications.
> - You cannot install license files only. Specify both the application file and the license file.
>   To only add a license file for an application that is already installed, see "Adding License Files."
>
> ### Obtaining License Files
> - In order to install an application, a valid license file is required.
>   If you have a license access number in your application package, obtain a valid license file from License Management System (http://www.canon.com/lms/license/).
>
>   † In order to obtain a license file, a license access number and a device serial number (the number displayed on the upper left of the SMS screen) are required.
>
> - If you do not have a license access number in your application package, it will be provided by the dealer where you purchased the application. For more information, see the instruction manual provided with the application.
>
> ### Storage Area
> "Storage" under resource information displayed on the [MEAP Application Management] page allows you to confirm the maximum storage space that can be used by the application and the storage space currently used by the application.
>
> ### When you are updating an application
> Stop the application before installing the new version.
> ⌁ "Stopping MEAP Applications"

Uninstalling MEAP Applications

✋ **IMPORTANT**

If the license status is not "Not Installed"

Uninstall the application after disabling and deleting the license files.

➥ "Disabling License Files"
➥ "Deleting Disabled License Files"

1

Start SMS (Service Management Service).

➥ "Launching SMS (Log in)"

2

Click [MEAP Application Management].

3

Click [Uninstall] for the application to uninstall.

† Applications with [Uninstall] grayed out cannot be deleted.

4

Click [Yes].

→ The uninstall begins.

When the restart prompt message is displayed

Follow the on-screen instructions to restart the printer.

IMPORTANT

If <A package exported from this application cannot be used.> is displayed

and you uninstall the application that displayed this message, you may not be able to use other applications.

Starting/Stopping MEAP Applications

‣ **Starting MEAP Applications**

‣ **Stopping MEAP Applications**

Starting MEAP Applications

1

Start SMS (Service Management Service).

➤ "Launching SMS (Log in)"

2

Click [MEAP Application Management].
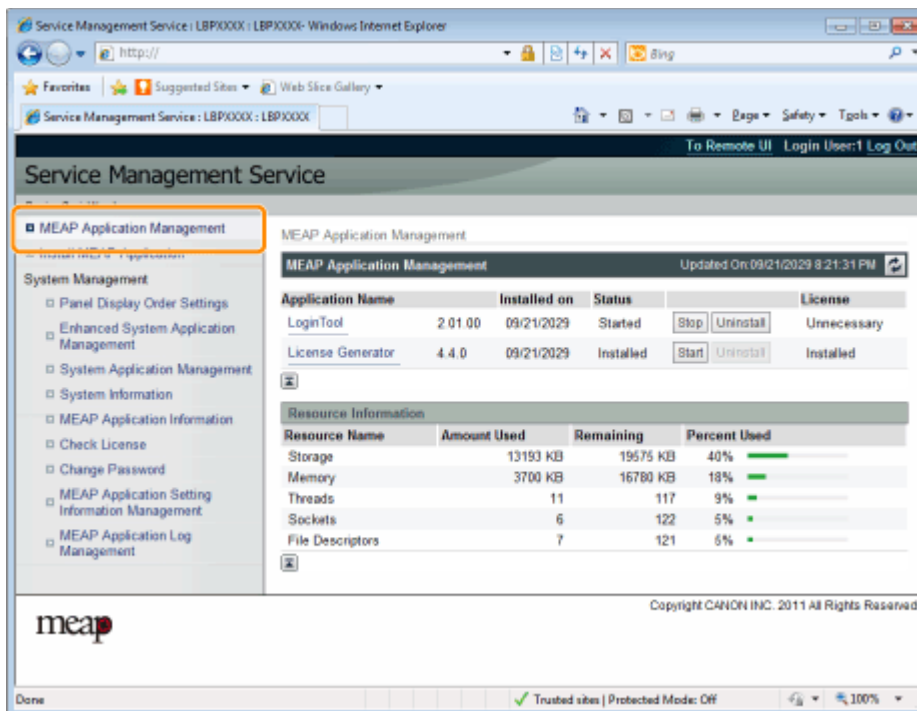
3

Click [Start] for the application to start.

❓ If the application does not start

Check the following.
- The required license file has been installed
- There is sufficient [Memory], [Threads], [Sockets] and [File Descriptors] under [Resource Information]

❓ When the restart prompt message is displayed

Follow the on-screen instructions to restart the printer.

Stopping MEAP Applications

1

Start SMS (Service Management Service).

➧ "Launching SMS (Log in)"

2

Click [MEAP Application Management].
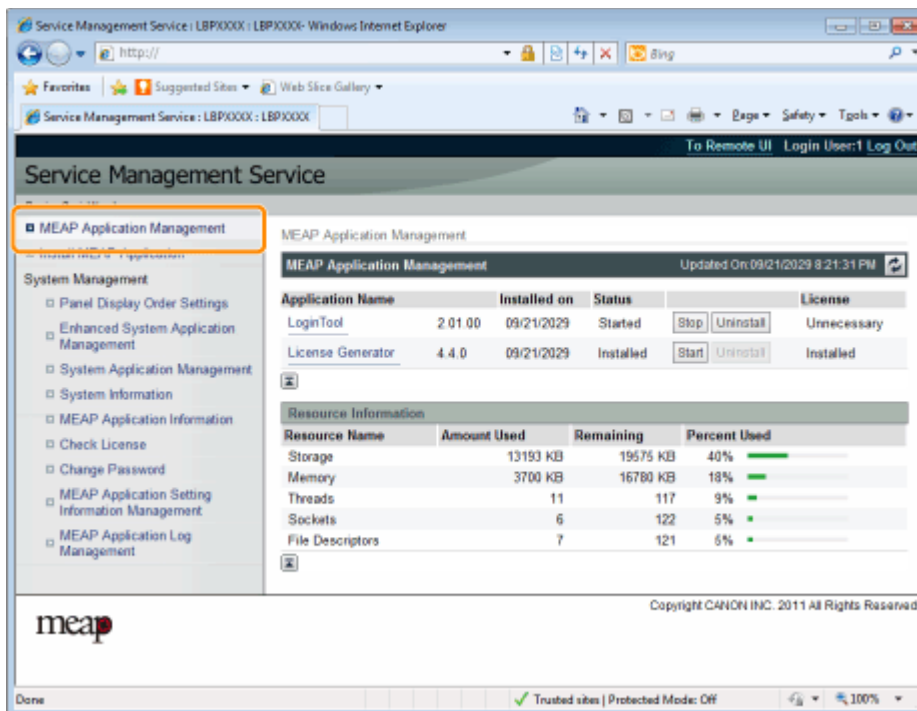
3

Click [Stop] for the application to stop.

> **❓ When the restart prompt message is displayed**
> Follow the on-screen instructions to restart the printer.

Checking the Details of MEAP Applications

Check the details of installed applications.

1

Start SMS (Service Management Service).

⯈ "Launching SMS (Log in)"

2

Click [MEAP Application Management].

3

Click the application to check the details.

→ [Application/License Information] is displayed on the screen.
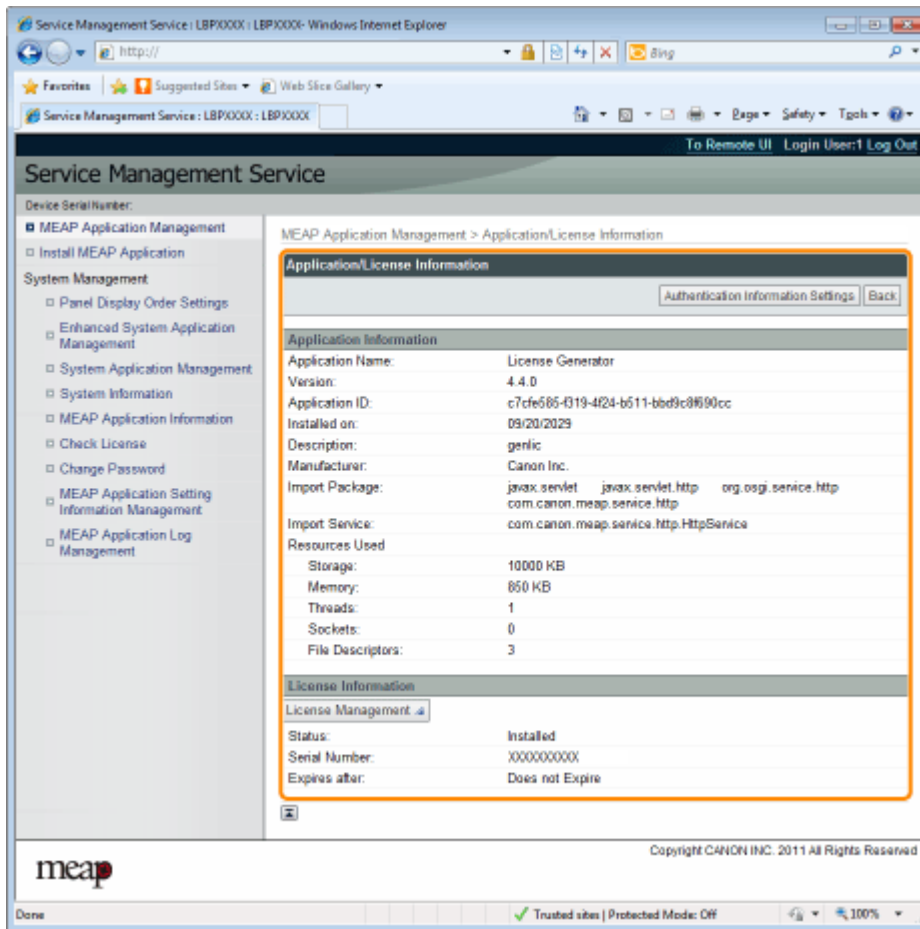
? When [Authentication Information Settings] is displayed

Set the authentication information.

▸ "Setting Authentication Information for MEAP Applications"

MEAP Application License Settings

You can add, disable and delete license files for installed applications.

Adding License Files

Disabling License Files

Downloading Disabled License Files

Deleting Disabled License Files

🖐 **IMPORTANT**

Disabling Licenses

- You cannot disable a license file if the application is still running.
  "Stopping MEAP Applications"
- When a disabled license file is generated, the status of that license file becomes <Not Installed> and the application becomes unusable.

Downloading and Deleting Licenses

- You can only download or delete disabled license files.
- Some license files need to be downloaded after they have been disabled.
- Once you have deleted the disabled license file, you cannot download it from the printer again. We recommend downloading and backing it up before deleting it.

Reinstalling License Files

You can reinstall disabled or downloaded license files in the same printer.

Adding License Files

You can install license files for applications that are already installed.

You can also increase counter values and extend terms of validity by adding license files.

1

Start SMS (Service Management Service).

➢ "Launching SMS (Log in)"

2

Click [MEAP Application Management].

3
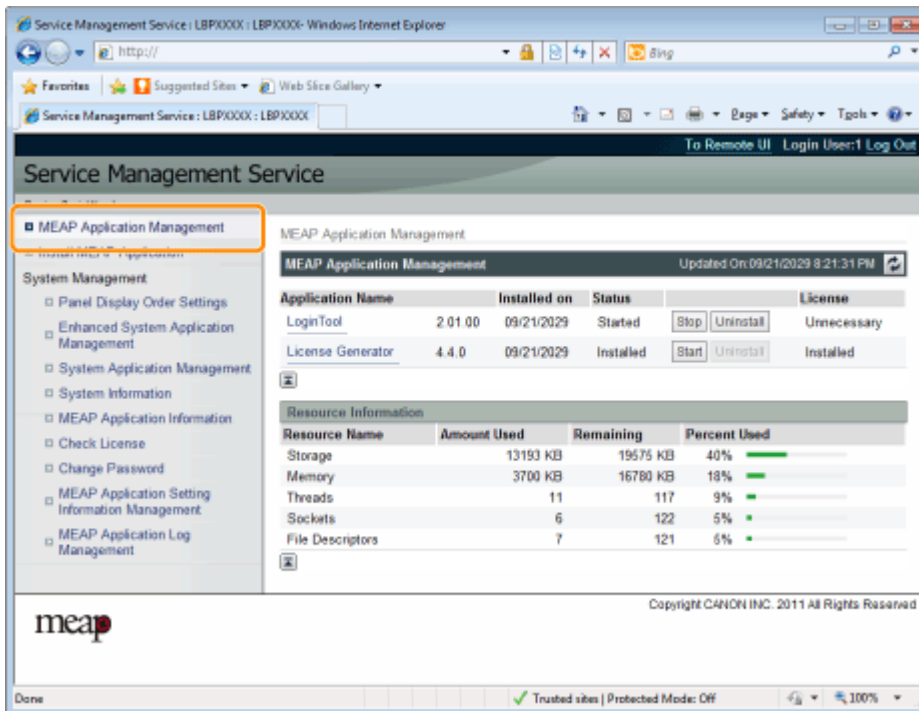
Click the name of the application to which a license file will be added.

4
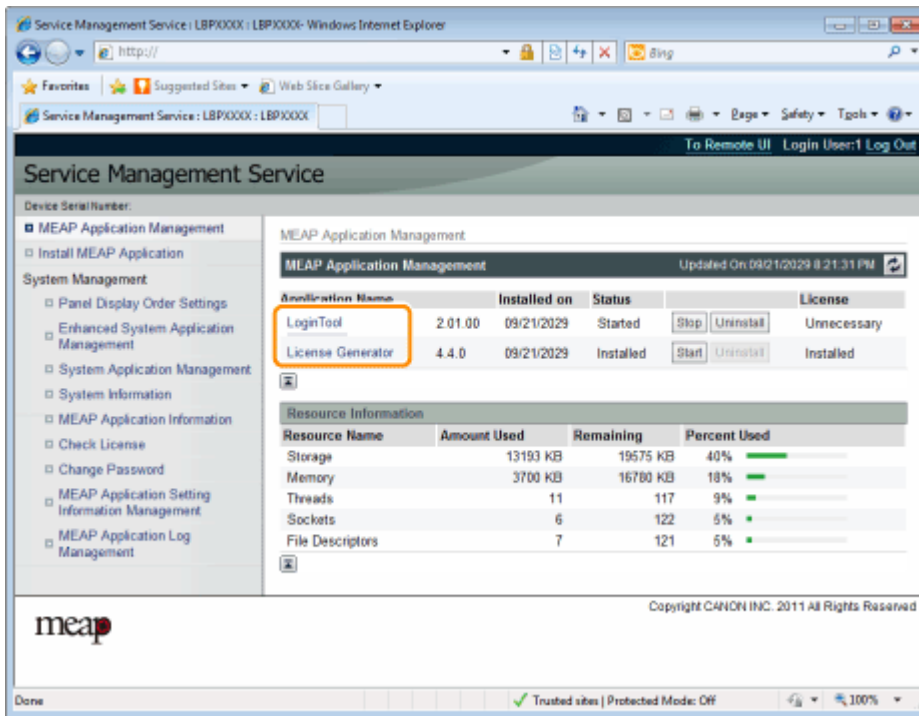
Click [License Management].
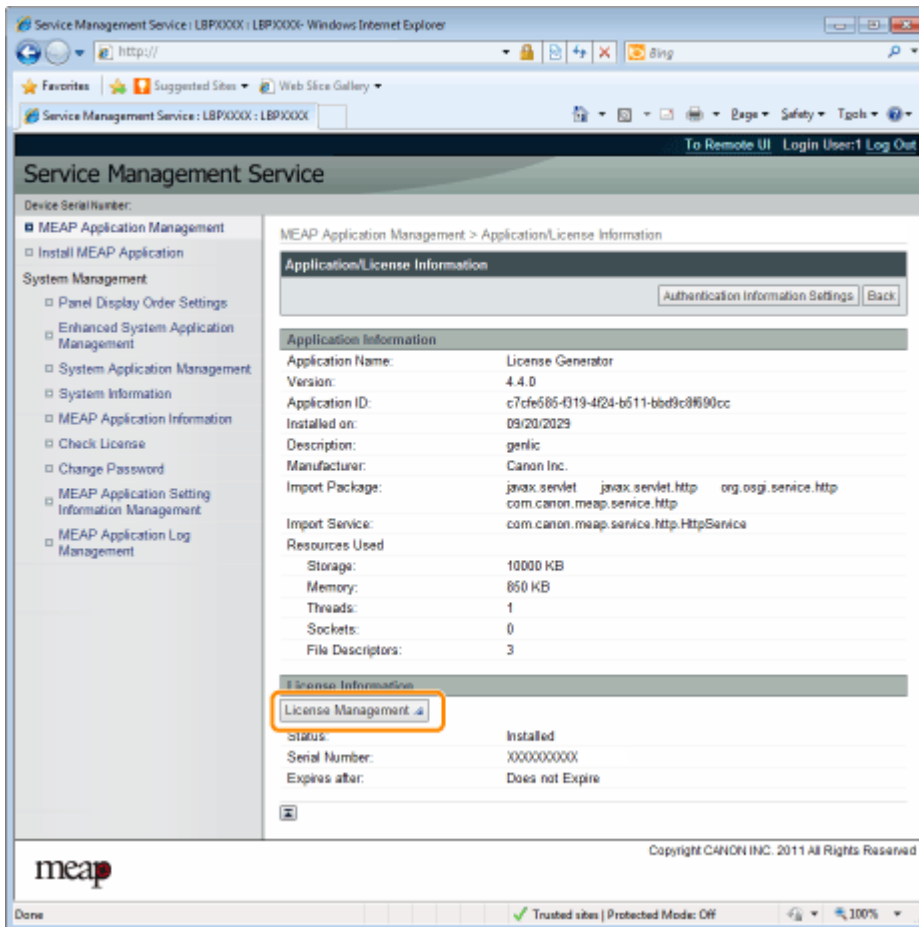
5

Specify the license file.

    (1) Click [Browse], and then select the license file to be added.
    (2) Click [Install].

6

Confirm the information on the install confirmation page, and then click [Yes].

    → The license file is installed.

> **? If you are adding a license file to an [Over Limit] or [Invalid] application**
> you may need to restart the application.
> ⯈ "Starting/Stopping MEAP Applications"

Disabling License Files

After you disable a license file, you can download and save it to a computer or delete it.

✋ IMPORTANT

Disabling Licenses
- You cannot disable a license file if the application is still running.
  ▸ "Stopping MEAP Applications"
- When a disabled license file is generated, the status of that license file becomes <Not Installed> and the application becomes unusable.

Reinstalling License Files
You can reinstall disabled license files in the same printer.

1

Start SMS (Service Management Service).

▸ "Launching SMS (Log in)"

2

Click [MEAP Application Management].

3

Click the name of the application for which to disable to license file.

4
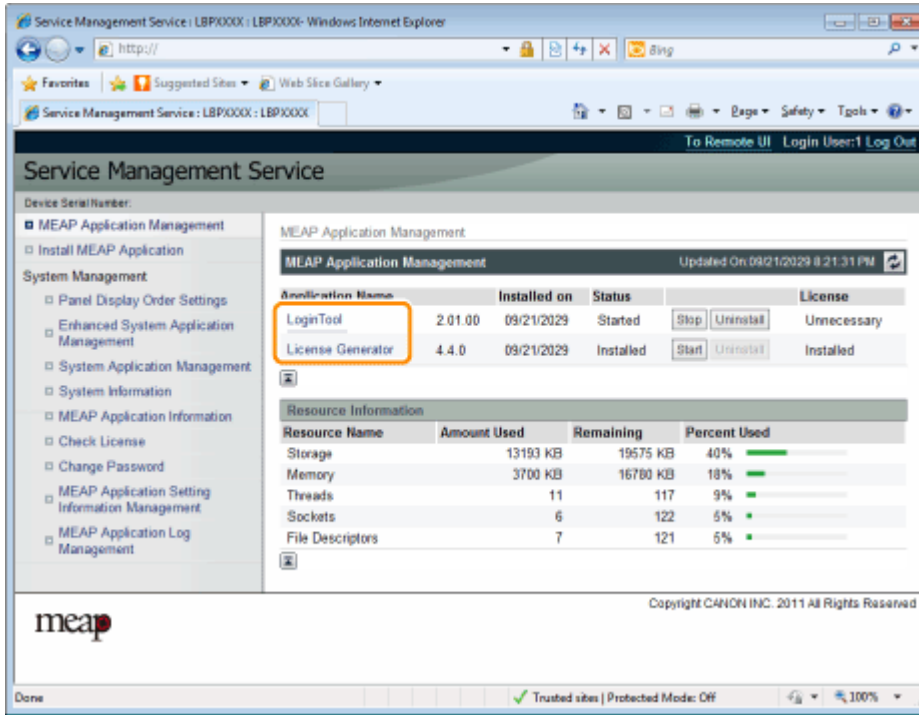
Click [License Management].
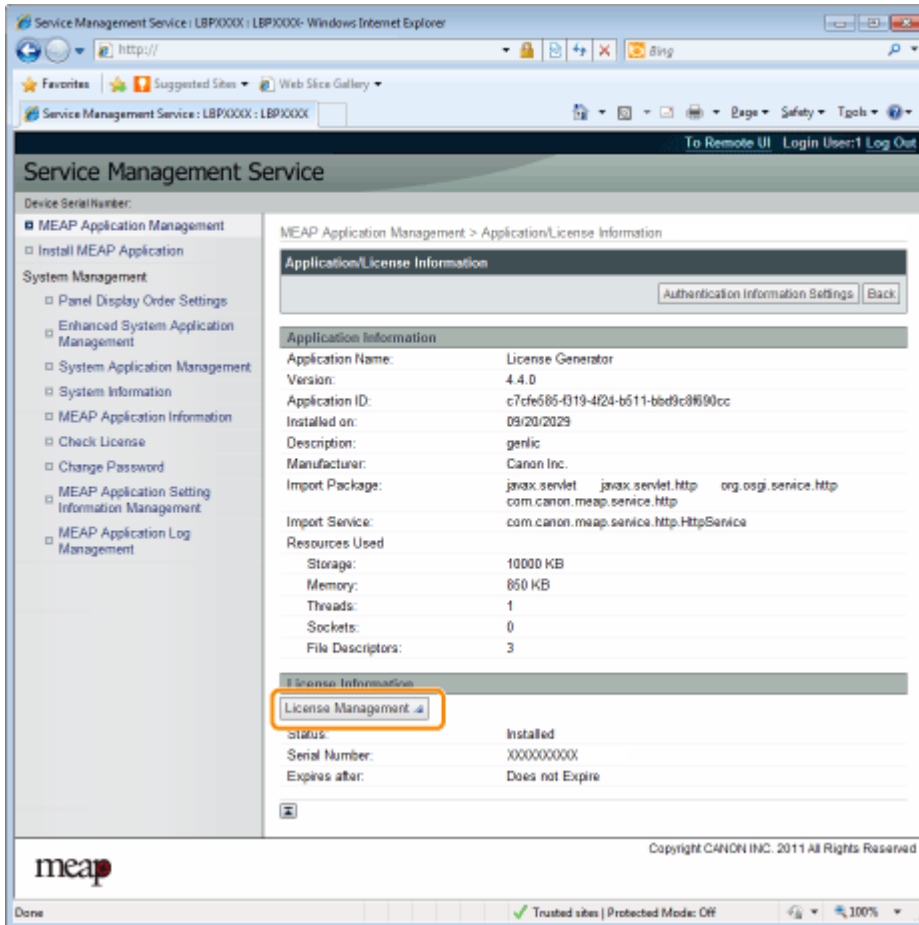
5

Click [Disable].

6
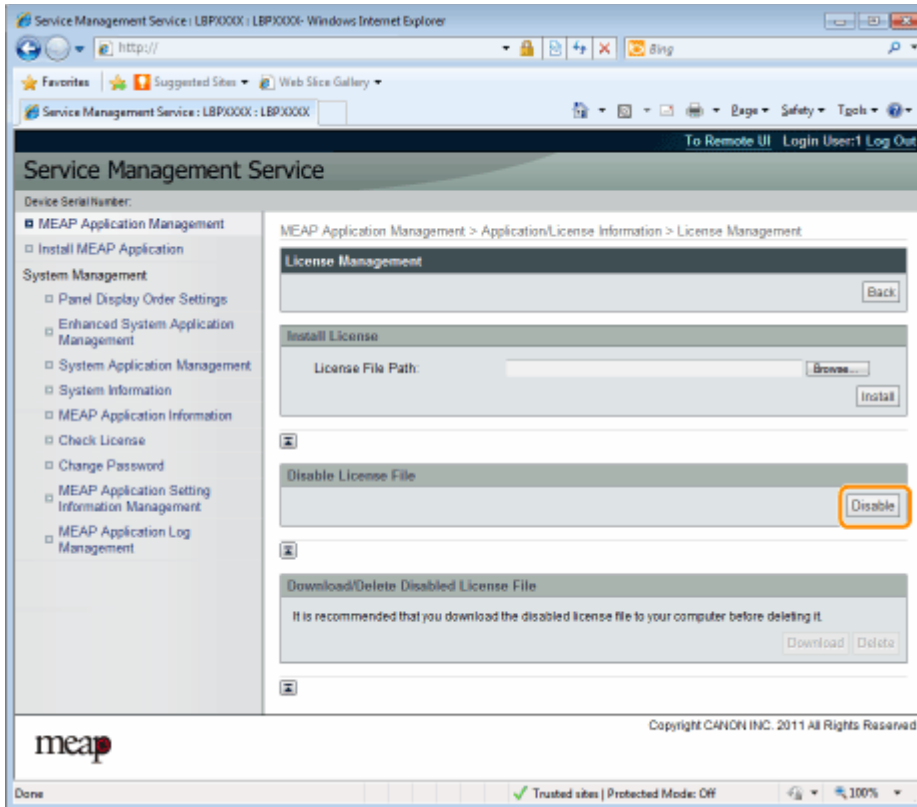
Click [Yes].

→ The license file is disabled.

Downloading Disabled License Files

Download and back up disabled license files to the computer.

> **IMPORTANT**
>
> **Downloading Licenses**
> - You can only download disabled license files.
> - Some license files need to be downloaded after they have been disabled.
>
> **Reinstalling License Files**
> You can reinstall downloaded and disabled license files in the same printer.

1

Start SMS (Service Management Service).

➤ "Launching SMS (Log in)"

2

Click [MEAP Application Management].

3

Click the name of the application for which to download to license file.

4
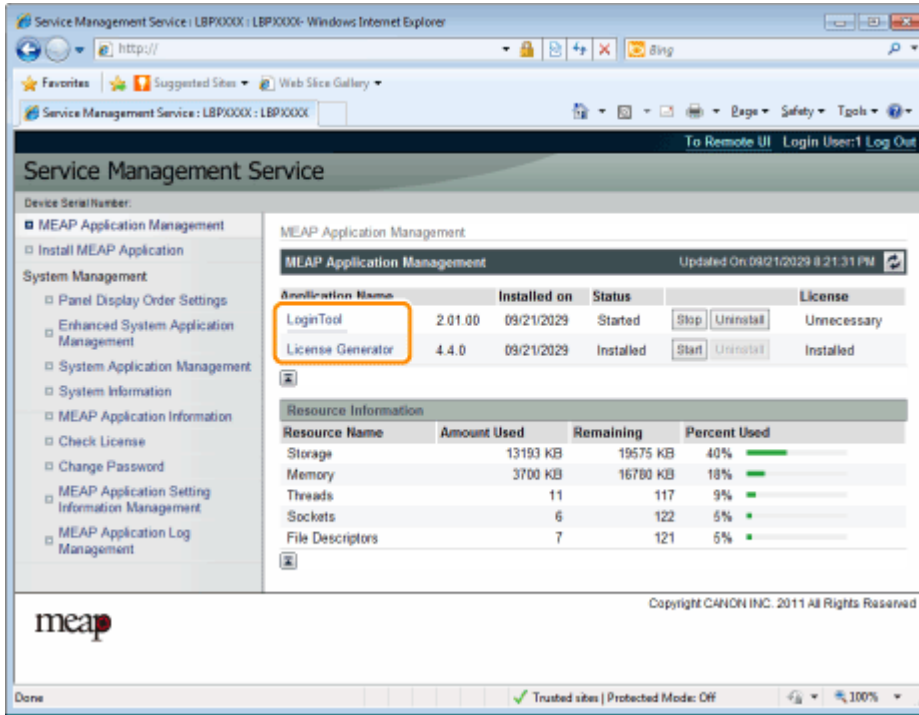
Click [License Management].
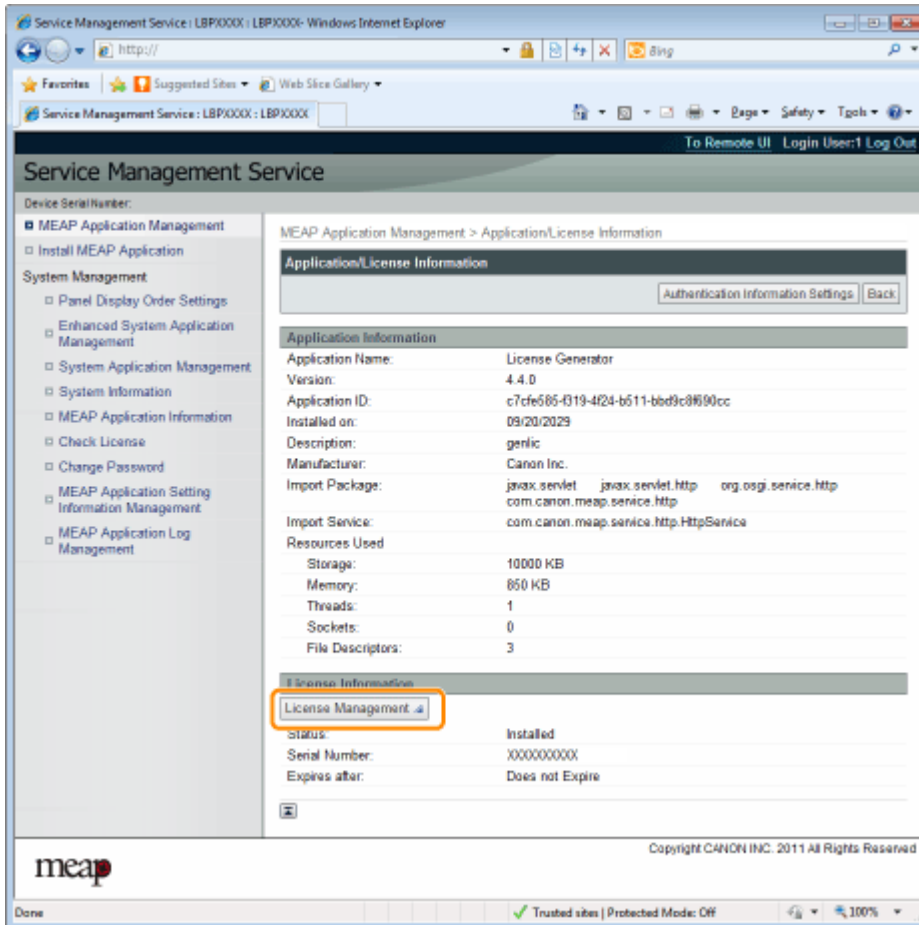
5

Click [Download].

6
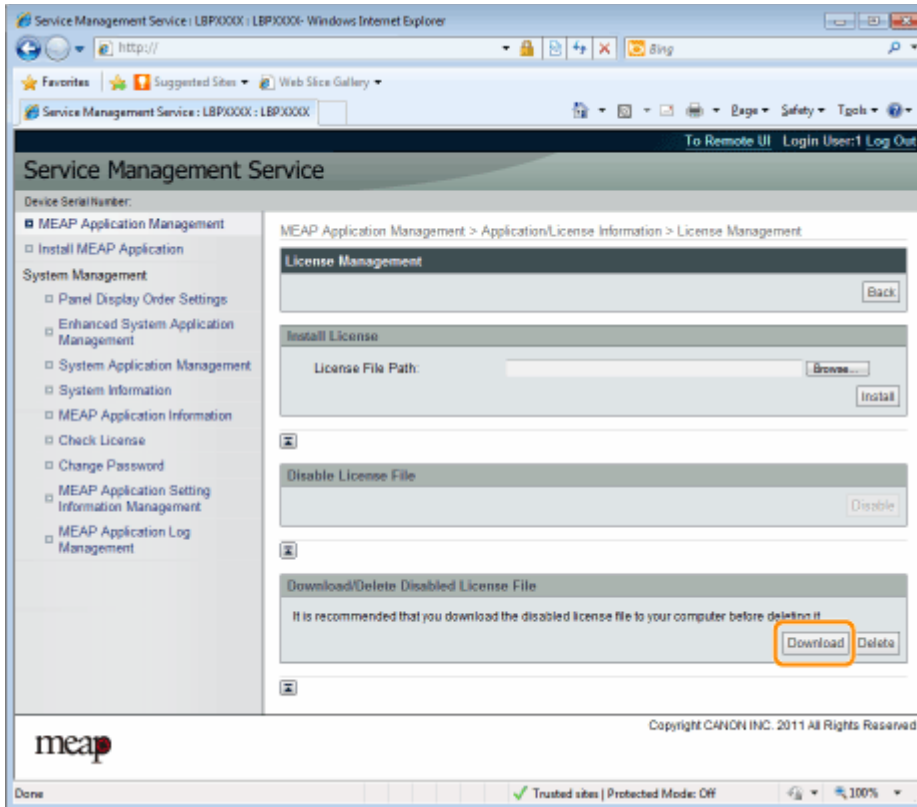
Follow the on-screen instructions and specify a file storage directory.

→ The license file is saved.

Deleting Disabled License Files

To uninstall an application, you must first delete the license file.

✋ **IMPORTANT**

Deleting Licenses

- You can only delete disabled license files.
- Once you have deleted the disabled license file, you cannot download it again. We recommend downloading and backing it up before deleting it.

1

Start SMS (Service Management Service).

▸ "Launching SMS (Log in)"

2

Click [MEAP Application Management].

3
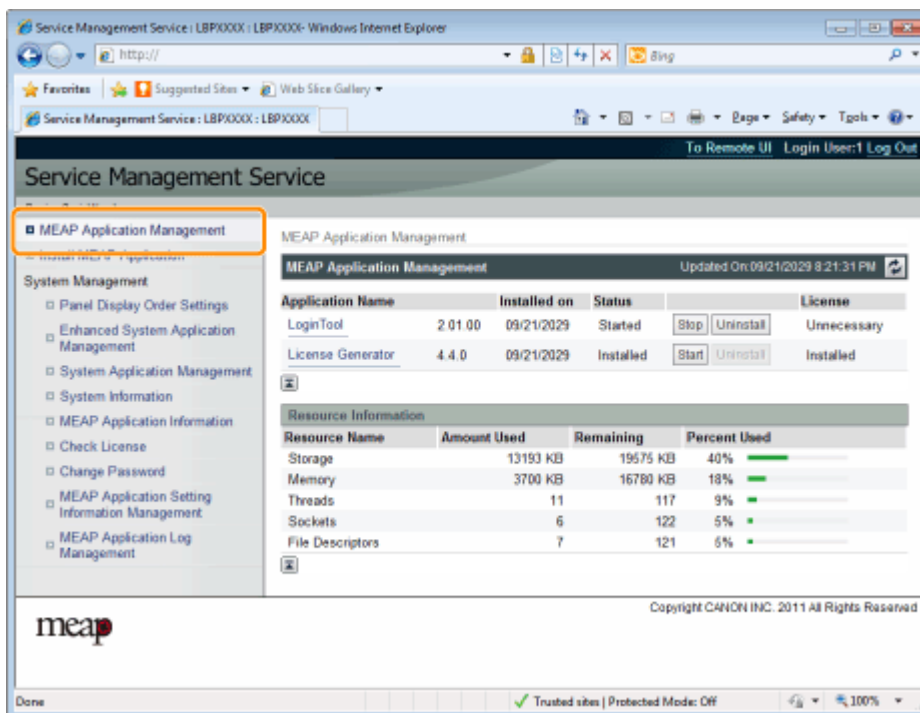
Click the name of the application to which to delete a license file.

4
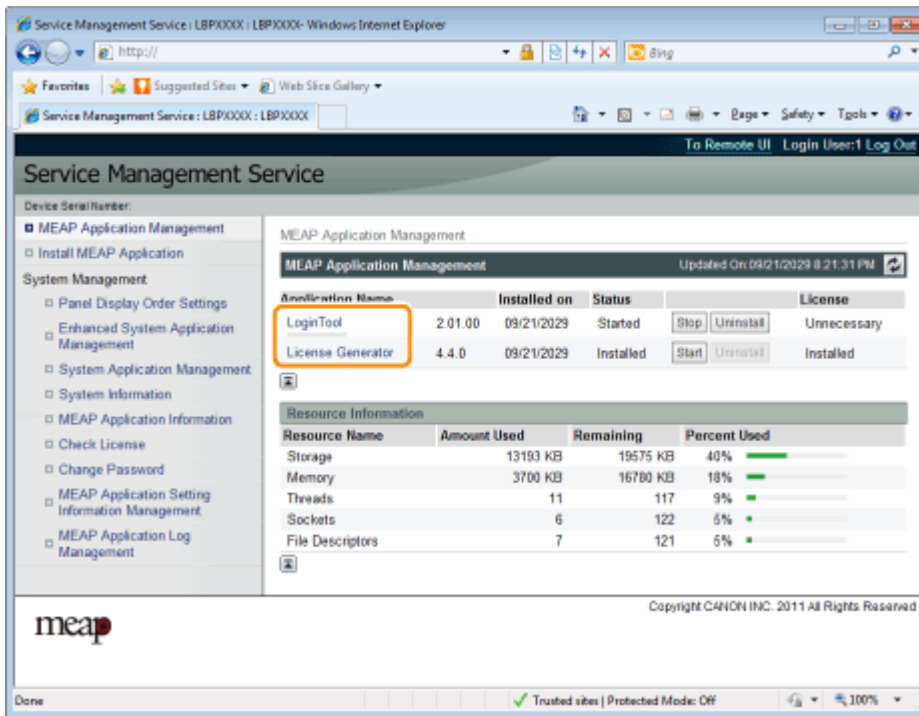
Click [License Management].
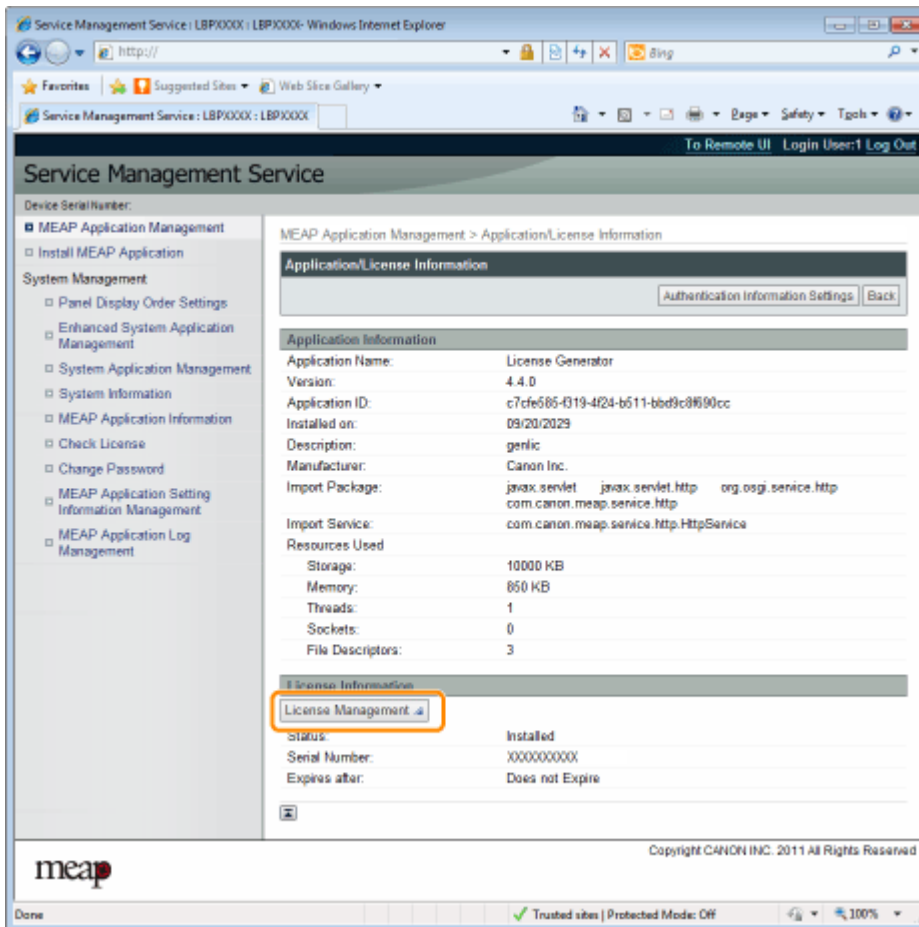
5

Click [Delete].

6
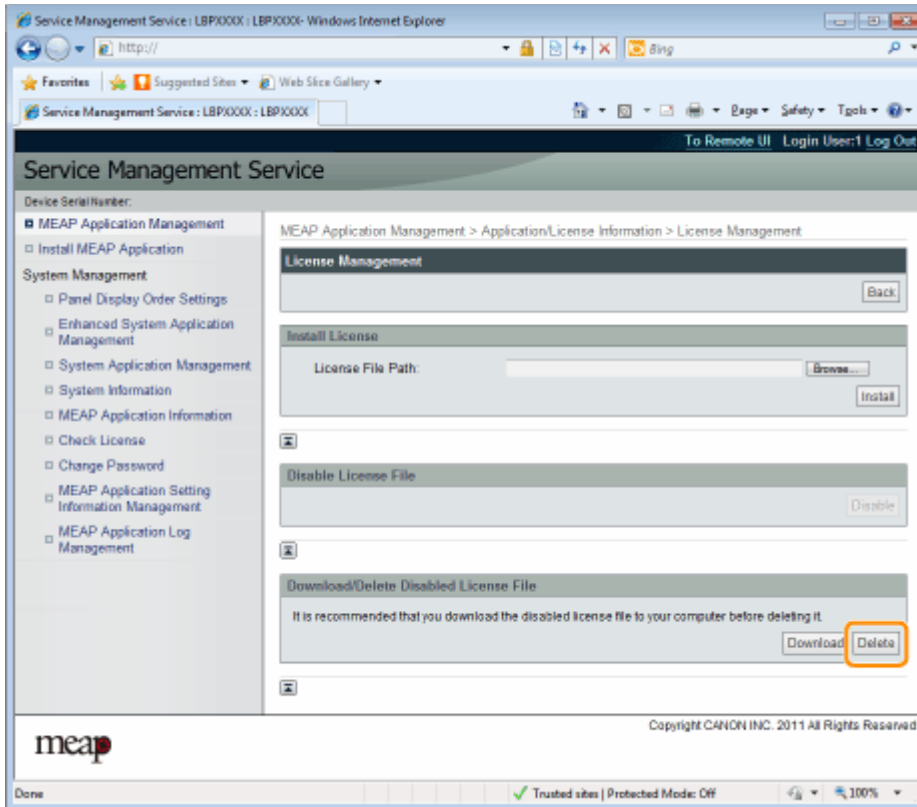
Click [Yes].

→ The license file is deleted.
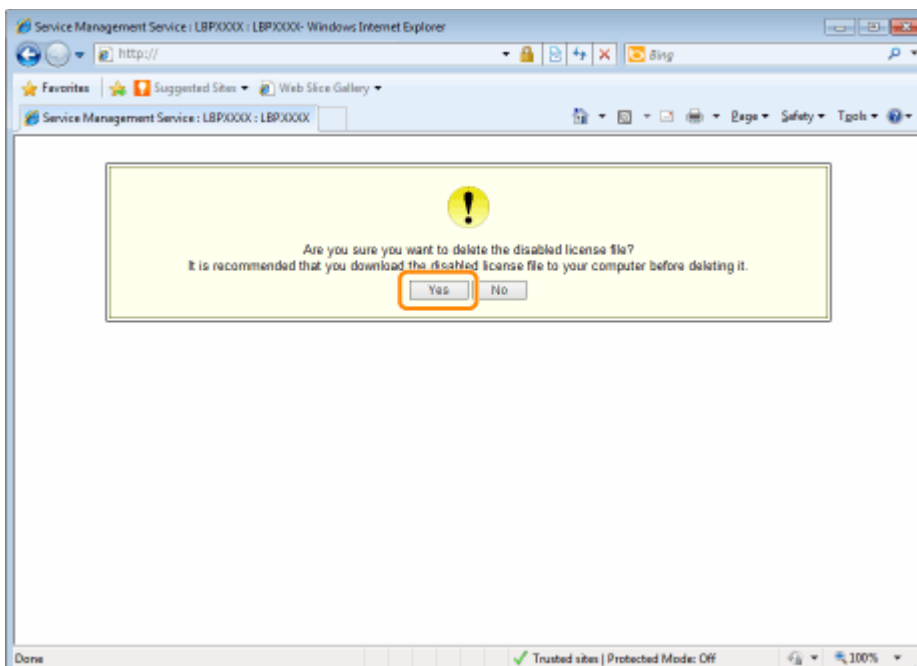
Setting Authentication Information for MEAP Applications

When processing jobs from applications that do not require operation from the printer, you must first set the authentication information.

1

Start SMS (Service Management Service).

▶ "Launching SMS (Log in)"

2

Click [MEAP Application Management].

3
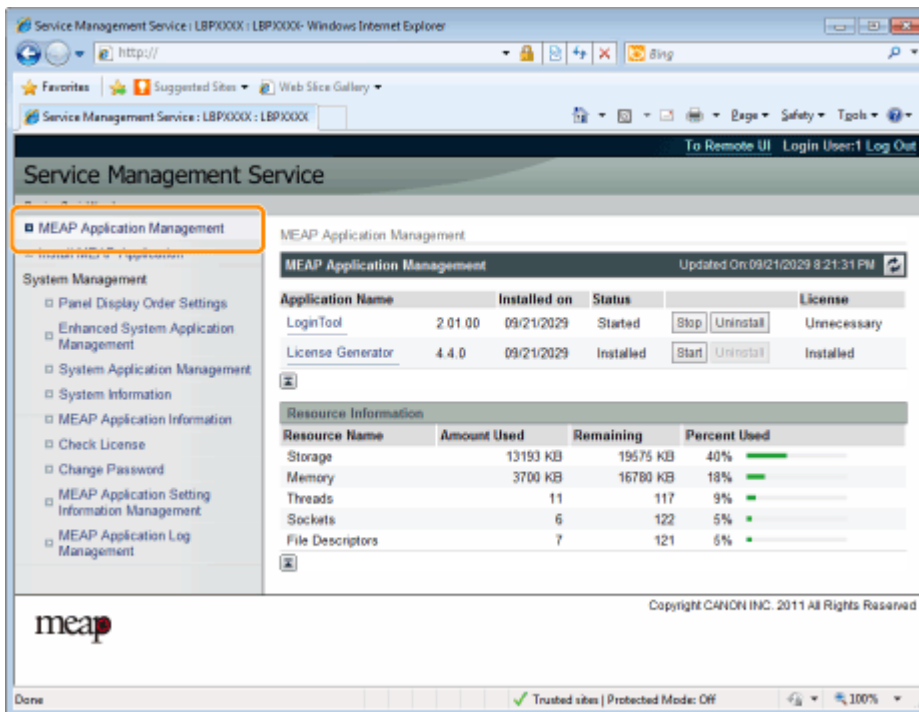
Click the name of the application for which to set authentication information.
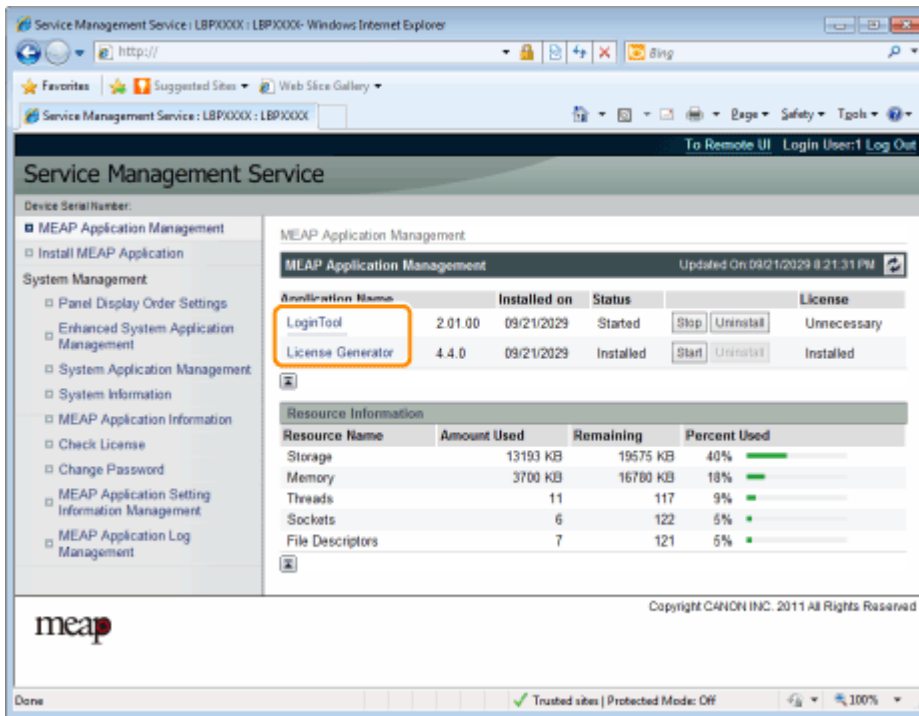
4

Click [Authentication Information Settings].
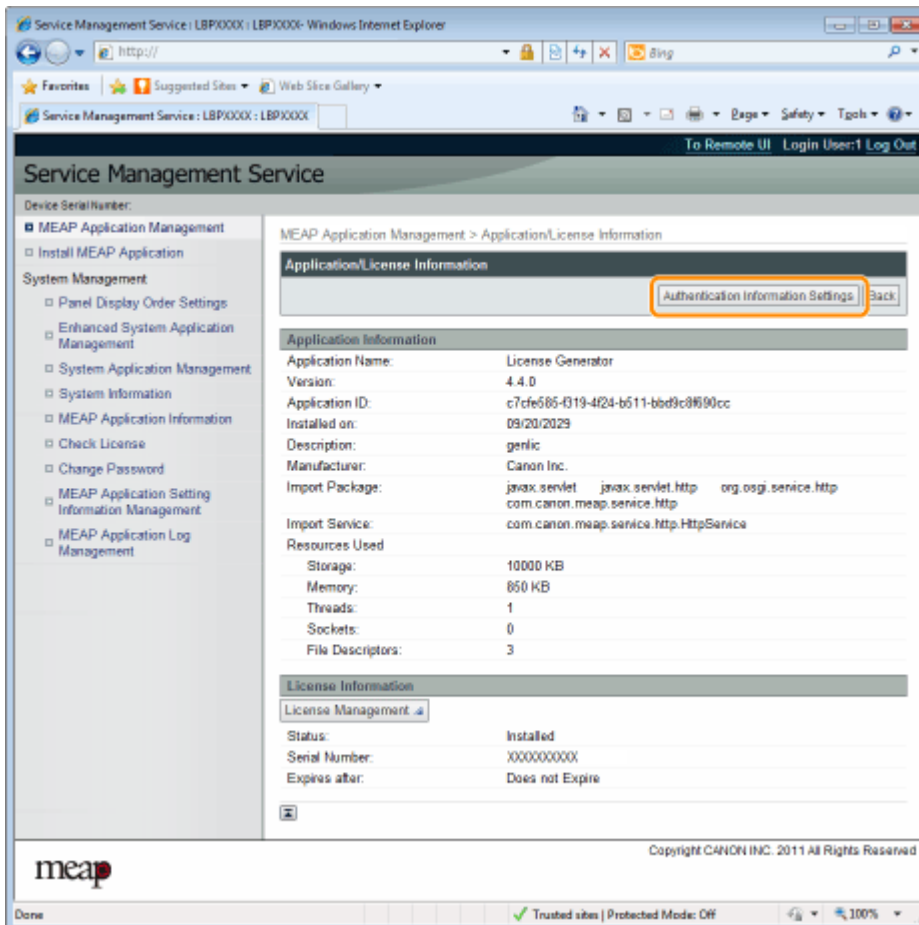
5

Enter the authentication information.

If you use department ID management

Enter the department ID and password in the fields marked [Department ID] and [PIN].

If you do not use department ID management

Enter an arbitrary ID and password in the fields marked [Department ID] and [PIN].
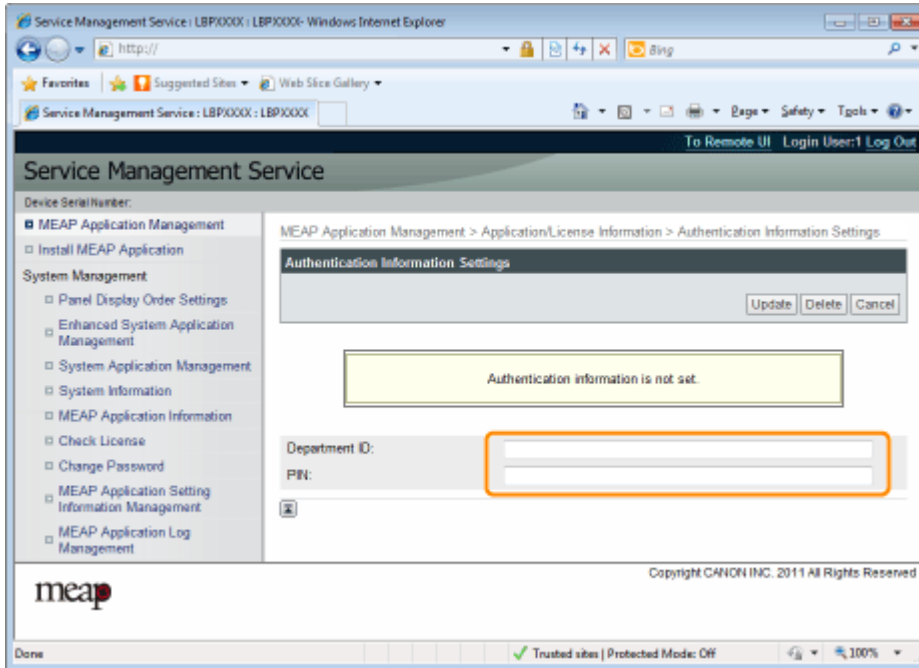
6

Click [Update].

→ Authentication information is set.
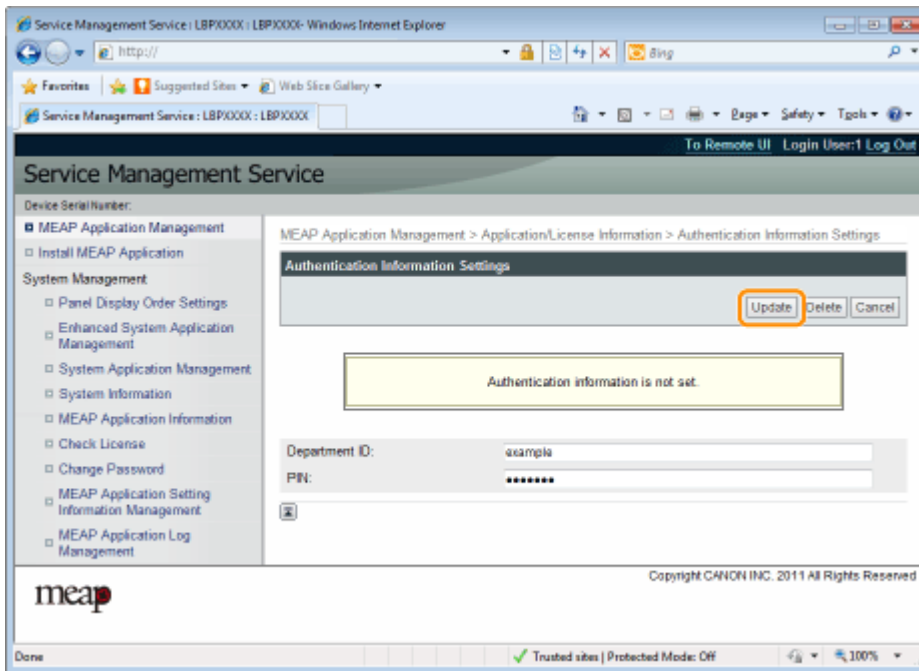
✋ **IMPORTANT**

When cancelling authentication information
Click [Delete].

System Settings

The [System Management] menu contains the following items.
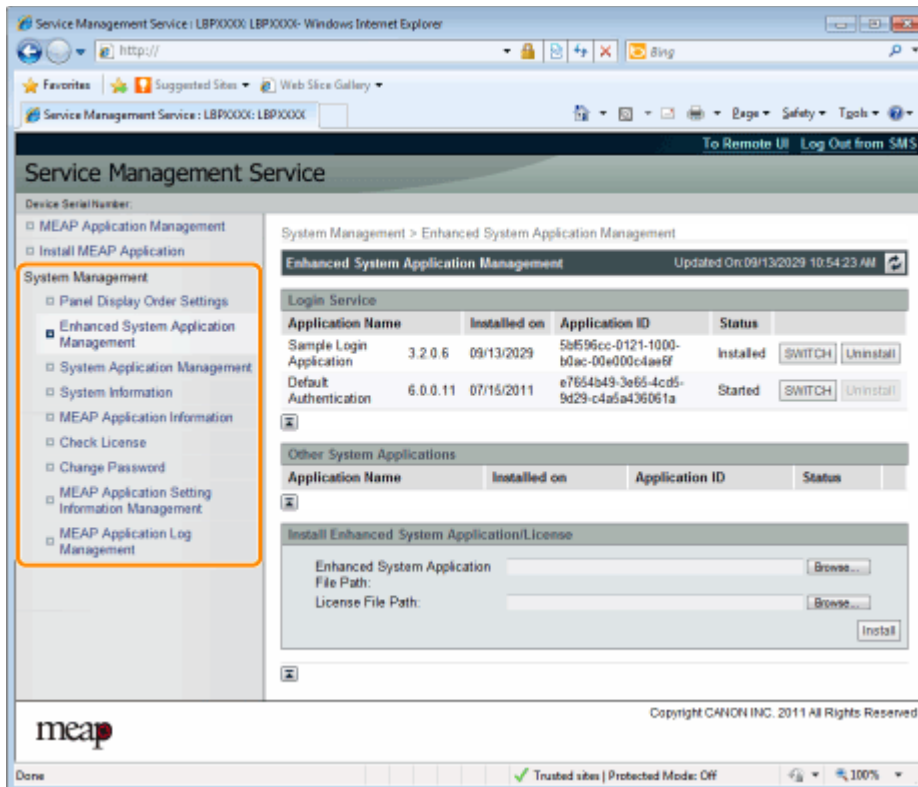
[Panel Display Order Settings]	It sets the order MEAP applets are displayed on the operation panel. ▸ "Changing the MEAP Applet Display Order"
[Enhanced System Application Management]	It displays enhanced system application status and performs settings. You can also set log in service settings. ▸ "Setting Enhanced System Applications"
[System Application Management]	It displays system application status and performs start/stop operations.
[System Information]	It displays versions and system application information, etc. ▸ "Checking System Information"
[MEAP Application Information]	It displays the details about MEAP applications. ▸ "Checking Application Information"
[Check License]	It checks the content of the license file before it is installed. ▸ "Checking License Files"
[Change Password]	It changes the SMS log in password. ▸ "Changing the SMS Password"
[MEAP Application Setting Information Management]	It deletes the details about MEAP applications. ▸ "Deleting the MEAP Application Setting Information"
[MEAP Application Log Management]	It downloads and deletes log data obtained by MEAP applications. ▸ "Managing MEAP Application Log Data"

1

Changing the MEAP Applet Display Order

The applet display order changes when you press [Application] key on the control panel.

1

Start SMS (Service Management Service).

▸ "Launching SMS (Log in)"

2

Click [Panel Display Order Settings].

3
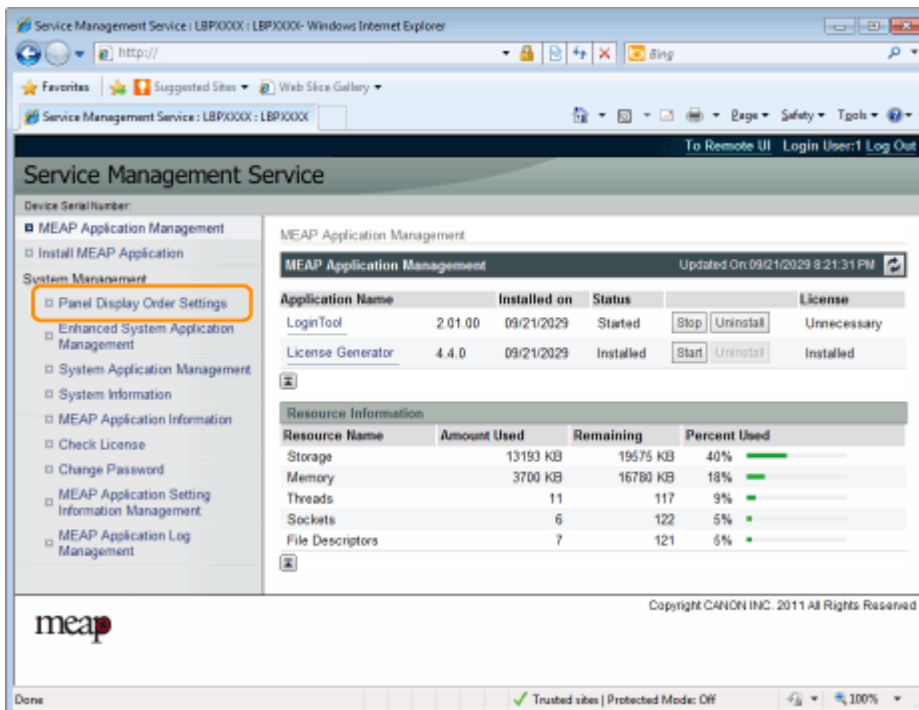
Select the check boxes for the applets whose display order you wish to change.
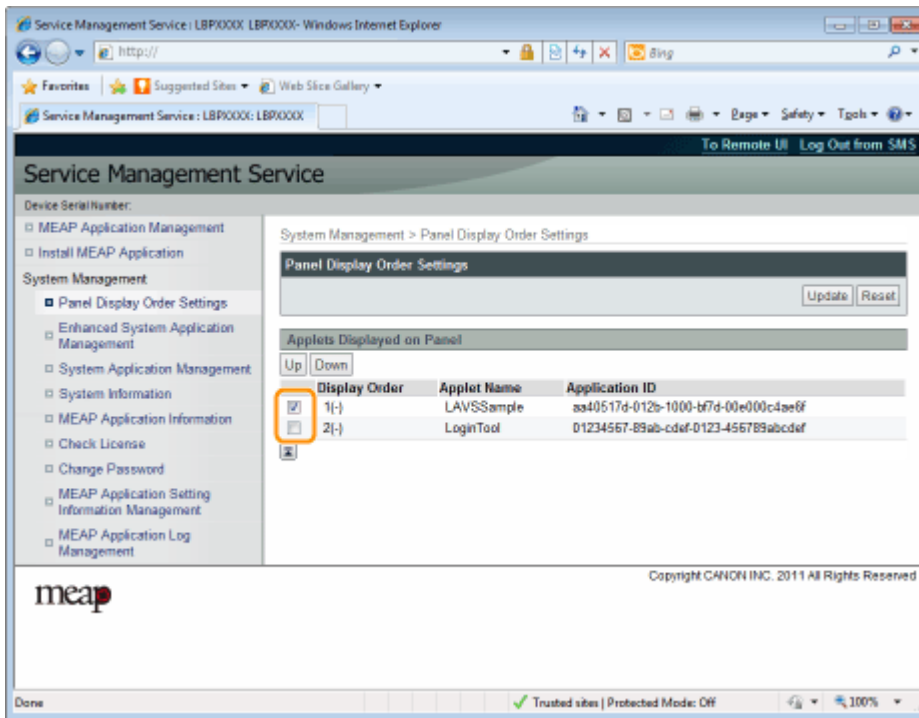
4

The display order changes.

(1) Move the applets up and down by clicking [Up] and [Down].

(2) Click [Update].
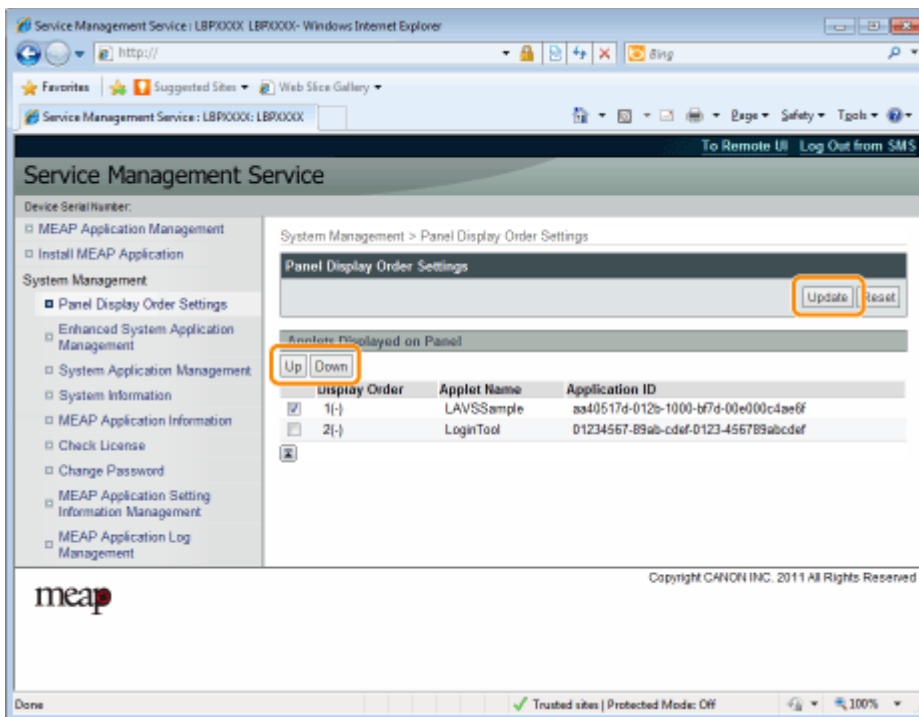
Checking Login Services

Check the login services that perform user authentication.

1

Start SMS (Service Management Service).

> "Launching SMS (Log in)"

2

Click [Enhanced System Application Management].
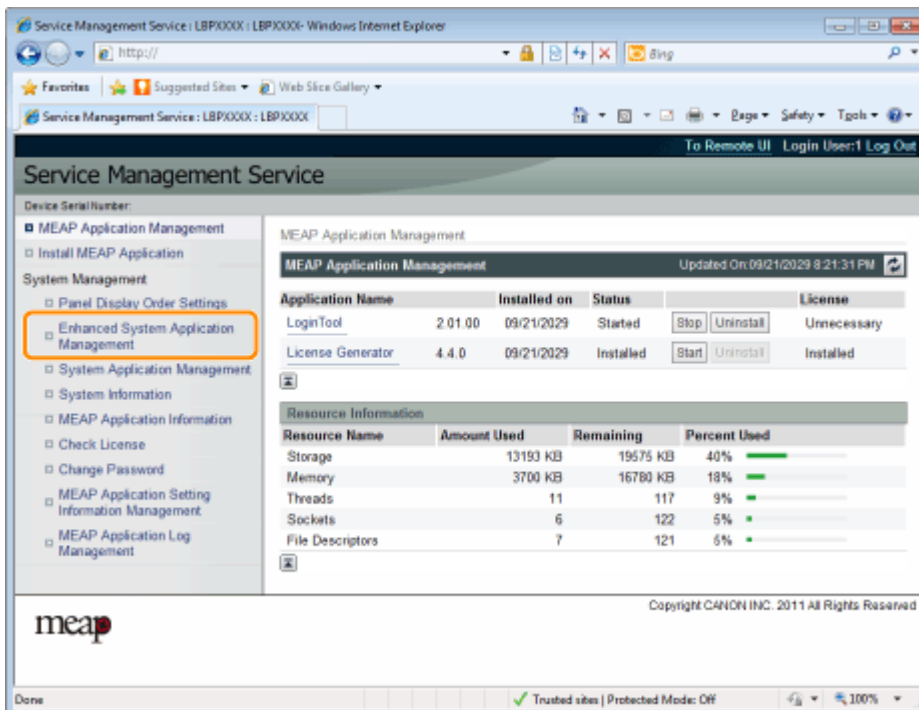
3

Check the status of log in service.

Setting Enhanced System Applications

They perform the operations of the enhanced system applications that enhance the system applications (the basic applications that make up the MEAP system).

Starting/Stopping Enhanced System Applications

  Starting Enhanced System Applications

  Stopping Enhanced System Applications

Installing Enhanced System Applications

Uninstalling Enhanced System Applications

Starting/Stopping Enhanced System Applications

- **Starting Enhanced System Applications**

- **Stopping Enhanced System Applications**

Starting Enhanced System Applications

1

Start SMS (Service Management Service).

> "Launching SMS (Log in)"

2

Click [Enhanced System Application Management].
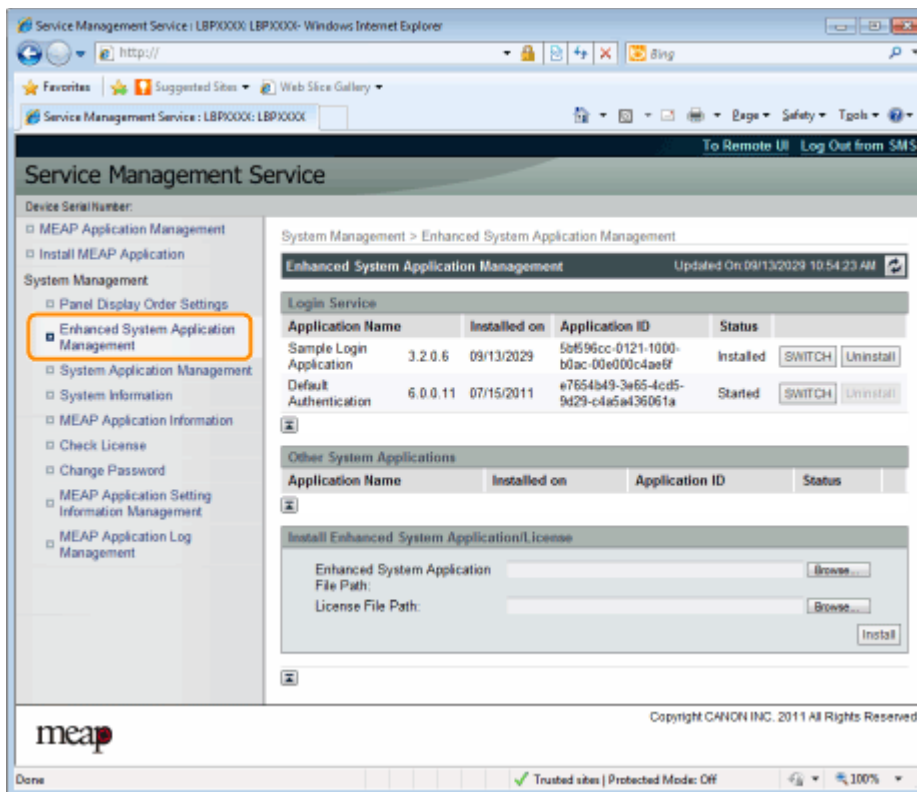
3

Click [Start] for Other System Applications, and then start the application.

When the [License Agreement] appears, confirm the information, and then click [I Accept].

Stopping Enhanced System Applications

1

Start SMS (Service Management Service).

▸ "Launching SMS (Log in)"

2

Click [Enhanced System Application Management].
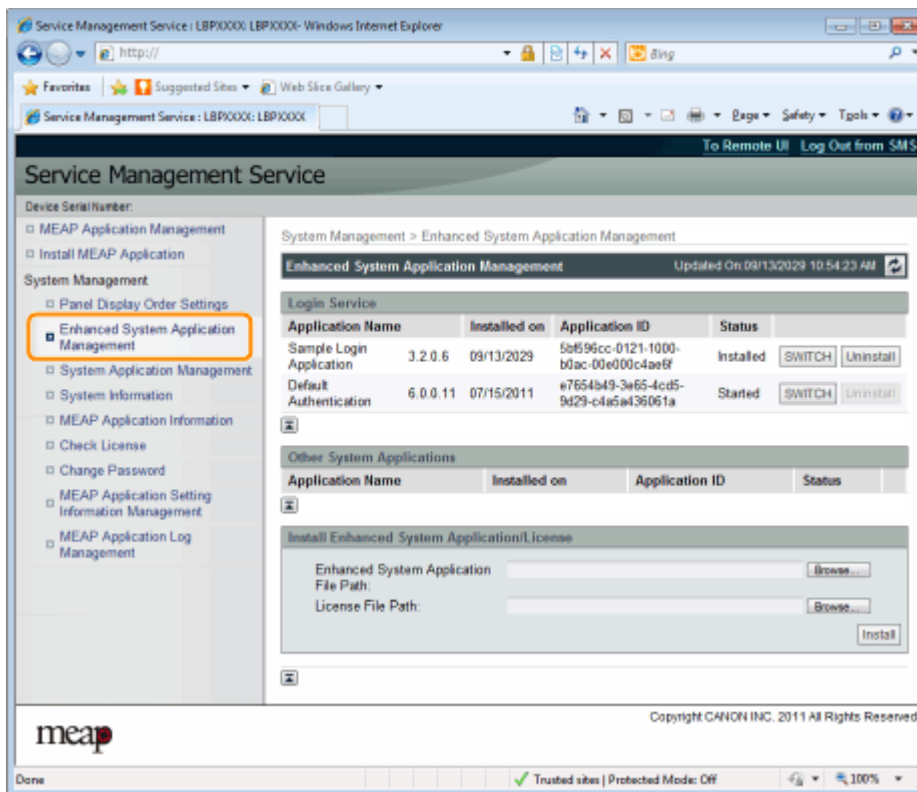
3

Click [Stop] for Other System Applications, and then stop the application.

Installing Enhanced System Applications

1

Start SMS (Service Management Service).

⊩ "Launching SMS (Log in)"

2

Click [Enhanced System Application Management].
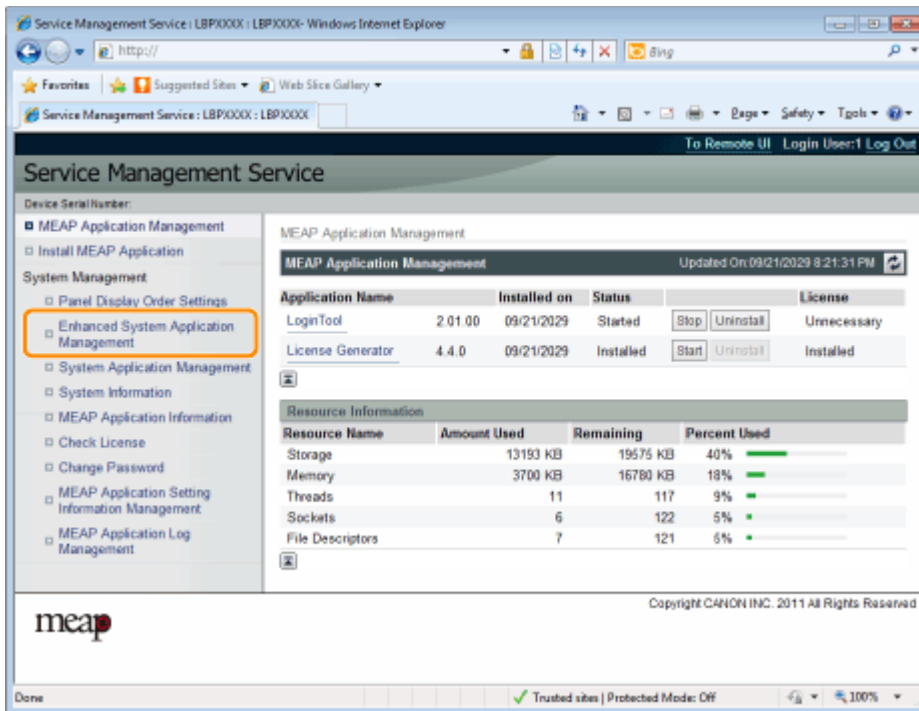
3

Set [Enhanced System Application File Path] and [License File Path].

Either select the file by clicking [Browse...], or enter the location where the file is stored.
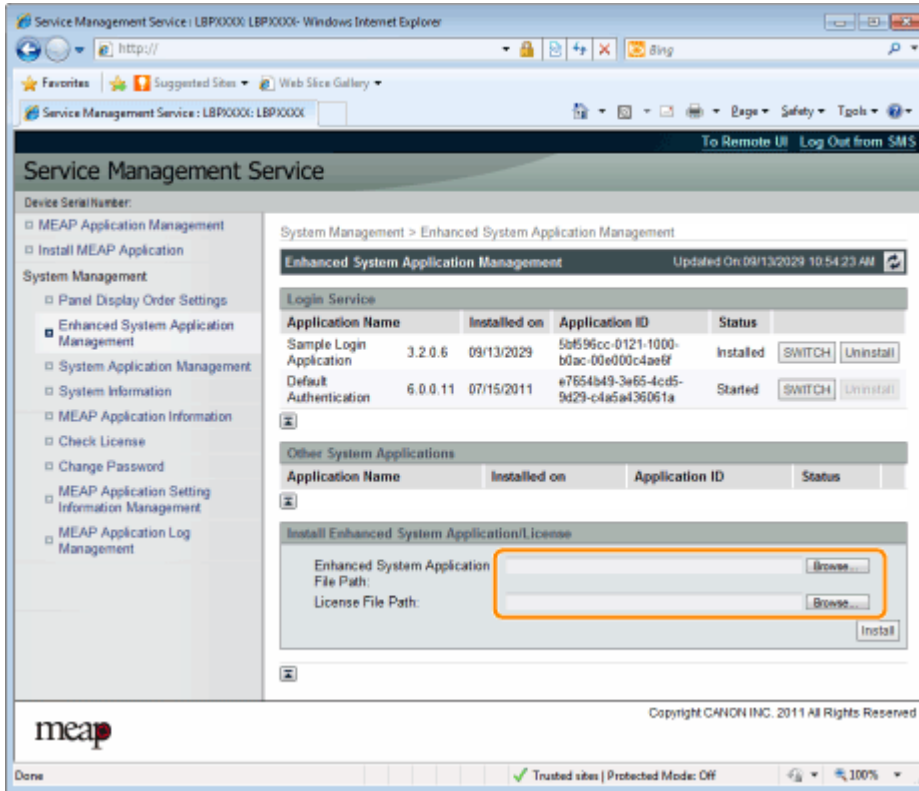
[Enhanced System Application File Path]	Specify a file with a "jar" extension.
[License File Path]	Specify a file with a "lic" extension.

> 🖐 **IMPORTANT**
>
> **When specifying a file**
>
> Specify both the application file and the license file.

4

Click [Install].
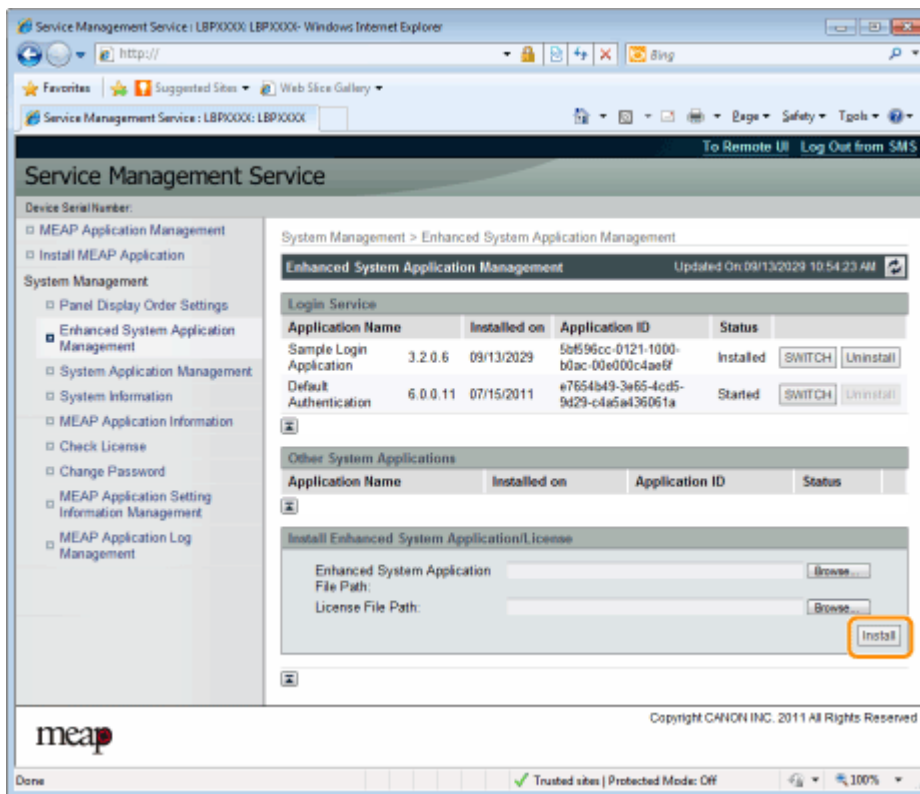
5

Confirm the information on the install confirmation page, and then click [Yes].

When the [License Agreement] appears, confirm the information, and then click [I Accept].

→ The installation begins.

Uninstalling Enhanced System Applications

> 📝 **NOTE**
>
> **Deleting License Files**
>
> There is no need to delete license files before uninstalling enhanced system applications.

1

Start SMS (Service Management Service).

➢ "Launching SMS (Log in)"

2

Click [Enhanced System Application Management].

3

Click [Uninstall] for the application to uninstall.

✝ Applications with [Uninstall] grayed out cannot be deleted.

4

Click [Yes].

→ The uninstall begins.

Checking Information

Checking System Information

You can check the version information of platforms such as Java virtual machine and version information, date of installation and status of system applications.

1

Start SMS (Service Management Service).

▷ "Launching SMS (Log in)"

2

Click [System Information].

Click [Display Details] to check detailed information.

Checking Application Information

You can check the information about installed or uninstalled applications (except for system applications).

1

Start SMS (Service Management Service).

⇥ "Launching SMS (Log in)"

2

Click [MEAP Application Information].
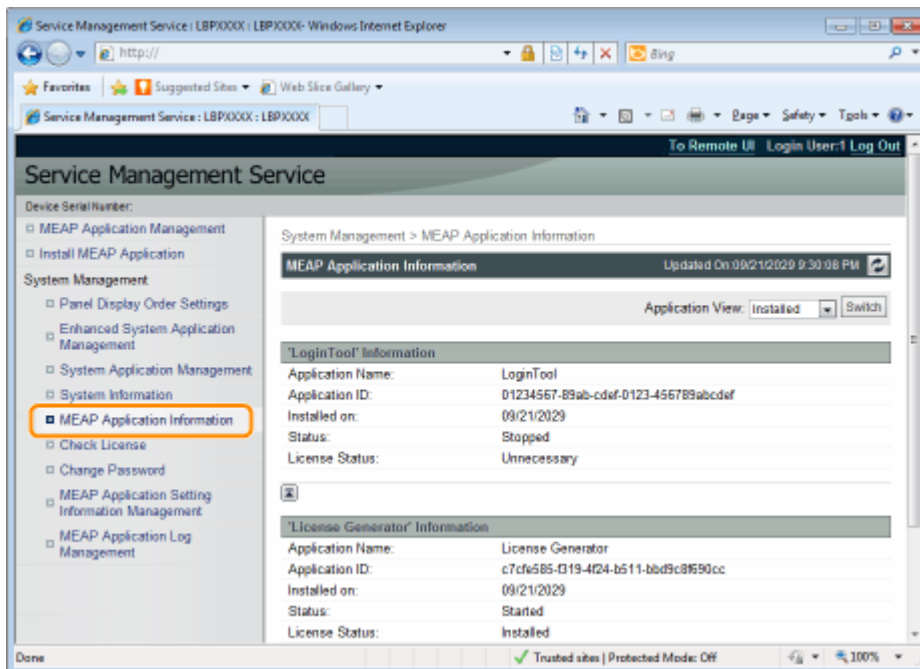
3

Information about applications is displayed.

(1) Select [Installed] or [Uninstalled].

(2) Click [Switch].

[Installed]	Information about installed applications (except for system applications) is displayed.
[Uninstalled]	Information about uninstalled applications (except for system applications) is displayed.

18

Checking License Files

You can check the content of the license file before it is installed.

1

Start SMS (Service Management Service).

➤ "Launching SMS (Log in)"

2

Click [Check License].
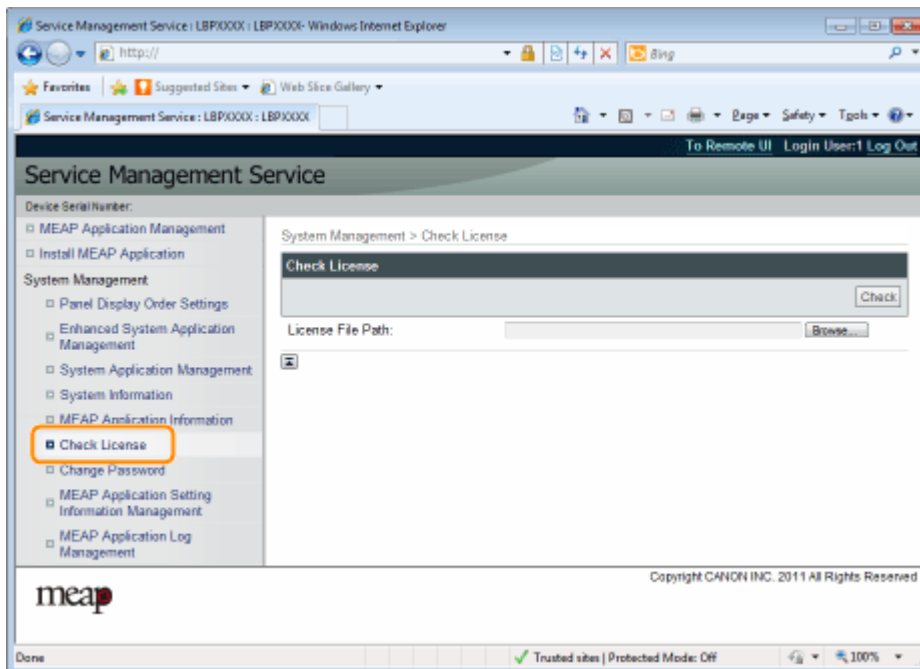
3

Either select the file by clicking [Browse], or enter the location where the file is stored.

4

Click [Check].

→ The content of the license file is displayed.

Changing the SMS Password

> ## ✋ IMPORTANT
>
> **SMS Password**
> - To prevent unauthorized access, we recommend that the administrator change the password before SMS use is begun.
> - This password is to prevent unauthorized operation of the printer. Do not let anyone know except the administrator.
> - Make sure that you do not forget your password. If you forget your password, you will not be able to use SMS. If this happens, contact your local dealer.

1

Start SMS (Service Management Service).

➤ "Launching SMS (Log in)"

2

Click [Change Password].
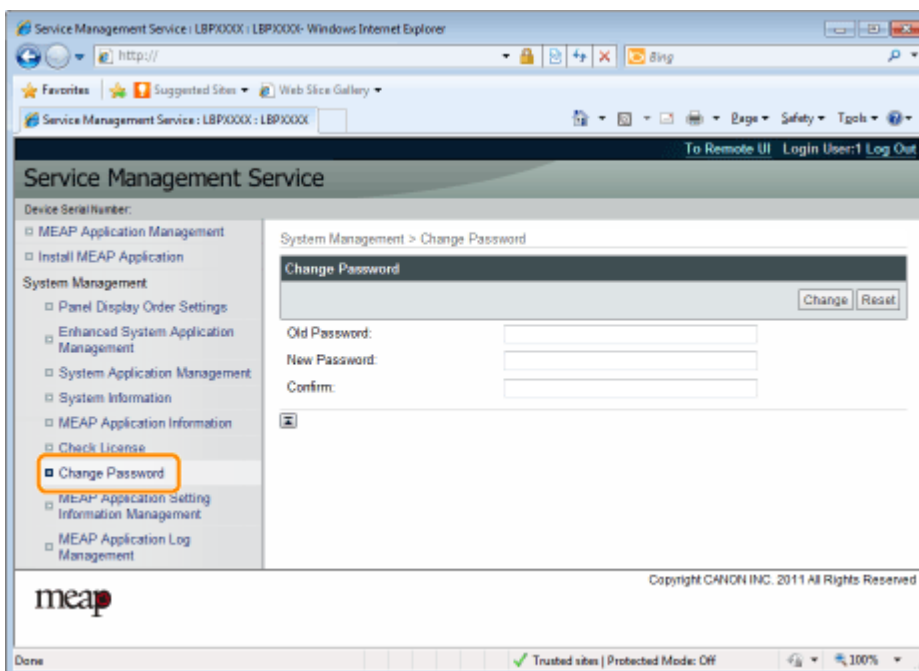
3

Set the password.

(1) Set the password.

(2) Click [Change].

† Enter between 8 and 32 alphanumeric characters (a to z, A to Z, and 0 to 9) for the password.

[Old Password]	Enter the password that is currently used.
[New Password]	Enter the new password.
[Confirm]	Enter the same password again in [New Password].

Deleting the MEAP Application Setting Information

Deletes the application data.

1

Start SMS (Service Management Service).

▸ "Launching SMS (Log in)"

2

Click [MEAP Application Setting Information Management].

3
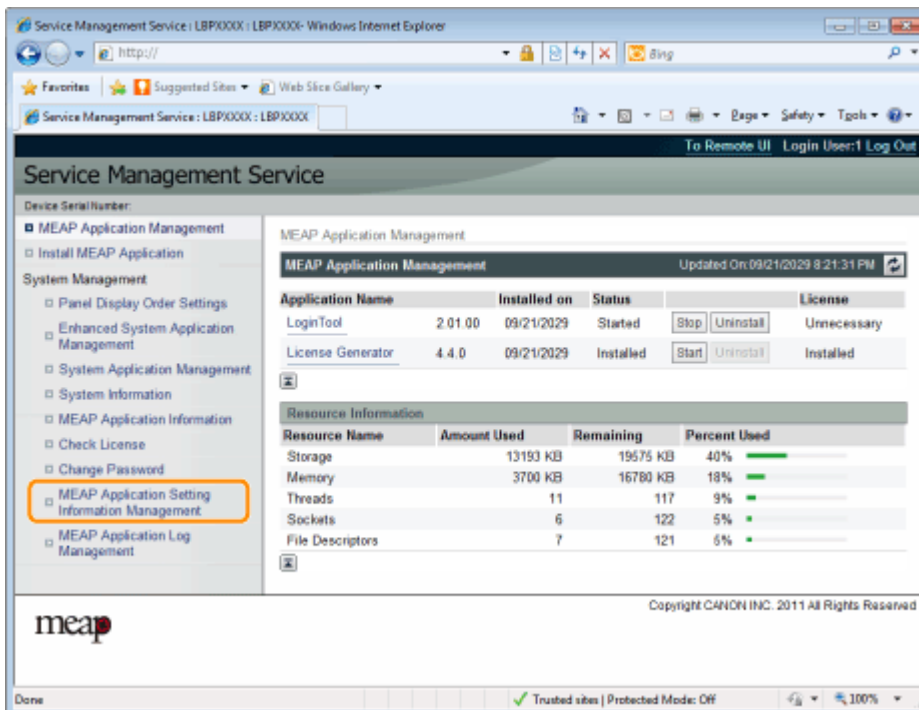
Select the check box for the application whose setting information you wish to delete, and then click [Delete].

Click [Select All] to select all of the applications.
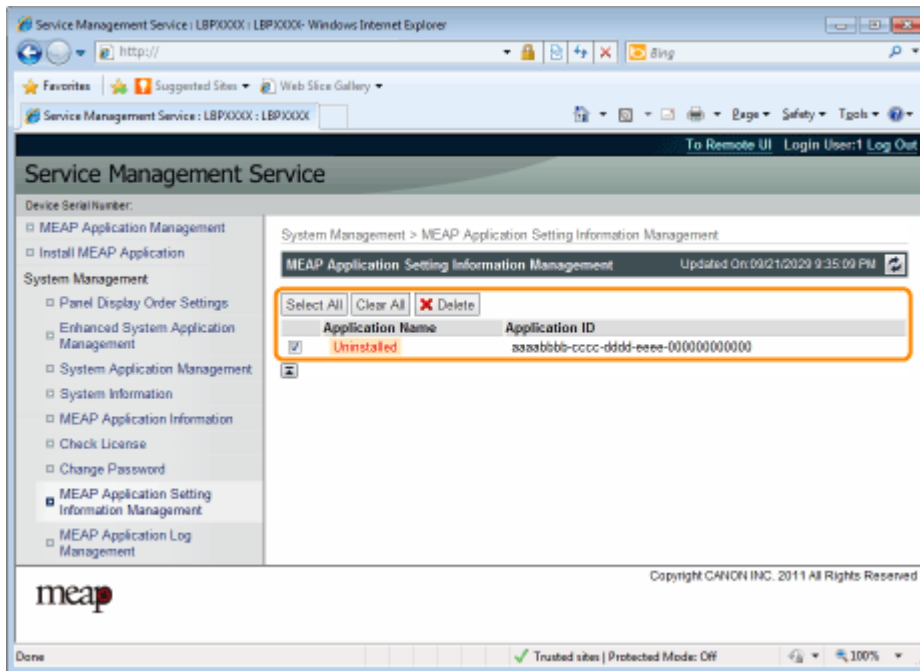
4

Click [Yes].

→ The setting information of the application is deleted.

Managing MEAP Application Log Data

It downloads and deletes log data obtained by MEAP applications.

▸ Downloading Log Data

▸ Deleting Log Data

Downloading Log Data

1

Start SMS (Service Management Service).

> ⇥ "Launching SMS (Log in)"

2

Click [MEAP Application Log Management].
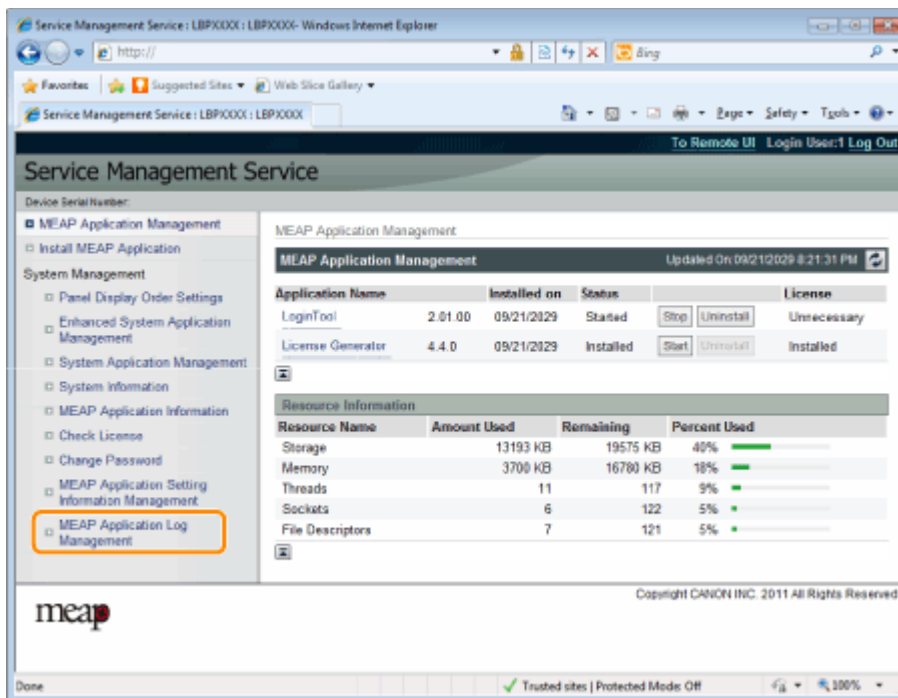
3

Click [Download Application Logs].
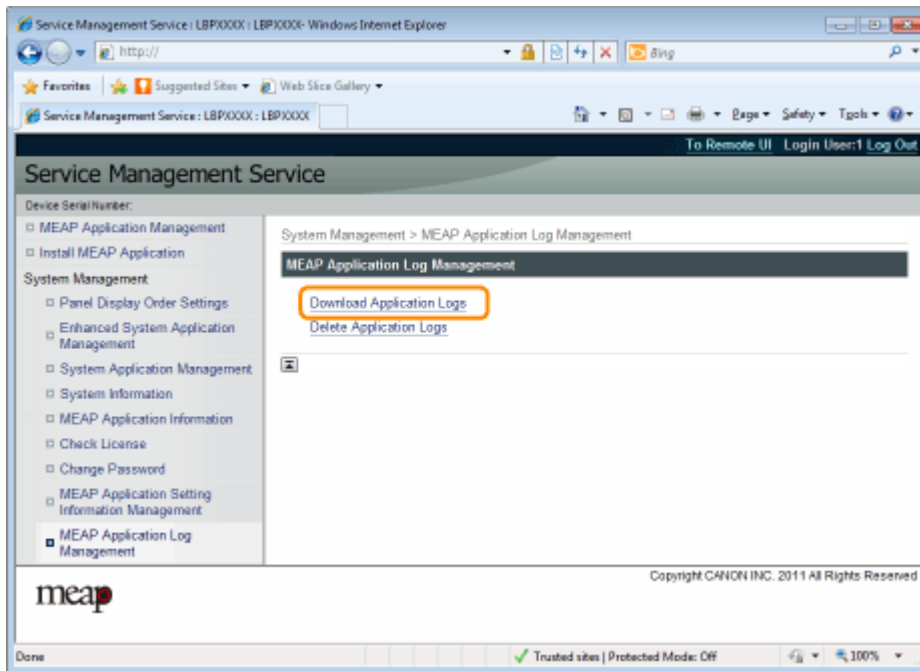
4

Follow the on-screen instructions and specify a file storage directory.

→ The log file is saved.

Deleting Log Data

1

Start SMS (Service Management Service).

> ⯈ "Launching SMS (Log in)"

2

Click [MEAP Application Log Management].
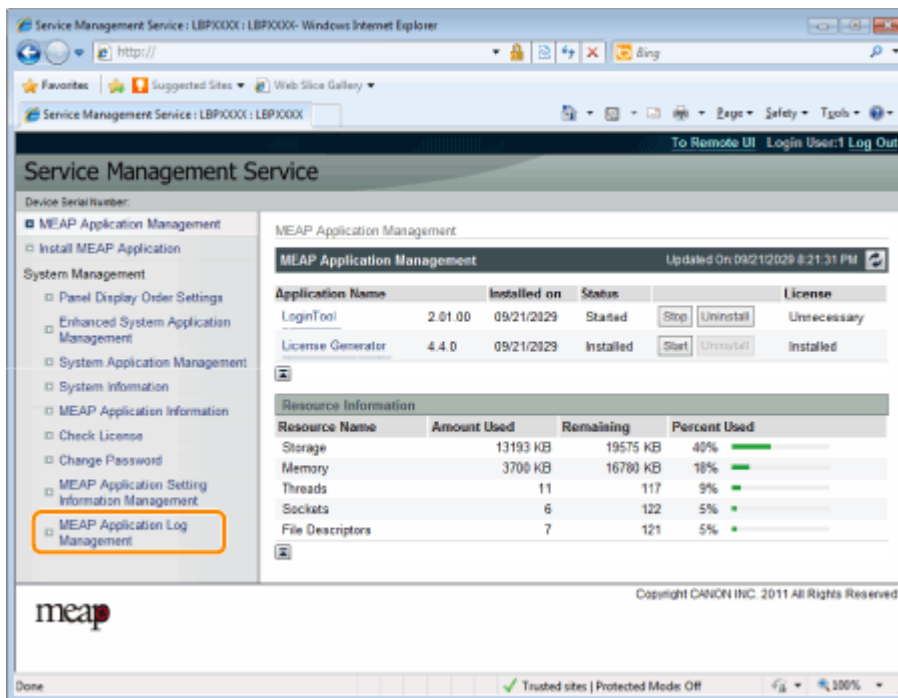
3

Click [Delete Application Logs].
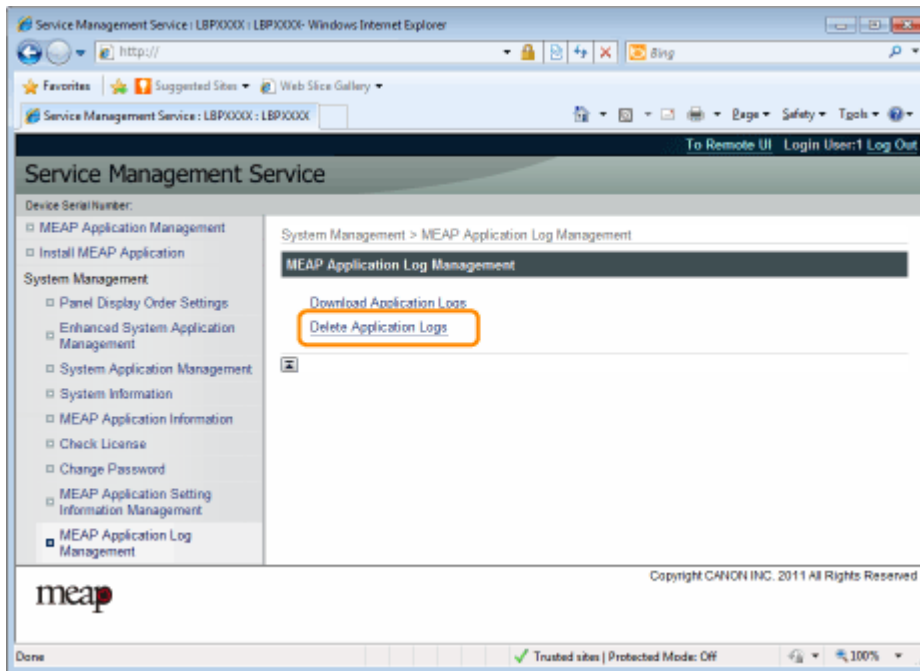
4

Click [Yes].

→ The log data is deleted.

List of Error Messages (MEAP)

This section describes how to handle error messages that are displayed when logging in to or operating SMS.

The error messages are divided into separate pages. Click the following links and perform the necessary actions.

Errors Relating to the [Login] Page

Errors Relating to the [MEAP Application Management] Page

Errors Relating to the [Install MEAP Application] Page

Errors Relating to the [Authentication Information Settings] Page

Errors Relating to the [License Management] Page

Errors Relating to the [Enhanced System Application Management] Page

Errors Relating to the [Check License] and [Change Password] Pages

Errors Relating to the [MEAP Application Setting Information Management] Page

Errors Relating to the [MEAP Application Log Management] Page

Other Errors

Errors Relating to the [Login] Page

- <The specified file does not exist or the file path is incorrect. Try to specify the path again.>
- <The contents of the specified file are incorrect or information is missing. Check the file.>
- <The specified switch license file cannot be used for password initialization. Try to specify the file again.>
- <Cannot initialize password because a used switch license file is specified. Try to specify the file again.>
- <Cannot initialize the password because another application is being installed, or the firmware being updated. Please wait a moment and then try again.>
- <You do not have permissions to use Service Management Service. Log in with administrator rights.>
- <Cannot login because another user is logged in or logout operations have not been successfully performed. Please wait a moment and then try this operation again.>
- <Error: <Error Details>>

The specified file does not exist or the file path is incorrect. Try to specify the path again.

Problem	The file does not exist on the specified path or the file path is incorrect.
Action	Specify the file path correctly.

The contents of the specified file are incorrect or information is missing. Check the file.

Problem	The specified file is not a switch license file.
Action	Check to make sure that the specified file is a switch license file for password initialization.
Problem	Information is missing from the specified file.
Action	The password cannot be initialized using the specified file. Check the content of the file.

The specified switch license file cannot be used for password initialization. Try to specify the file again.

Problem	The specified file is not a switch license file for initializing the password.
Action	Specify a switch license file for initializing the password.

Cannot initialize password because a used switch license file is specified. Try to specify the file again.

Problem	The specified license file has already been installed. License files that have been installed once cannot be installed again.
Action	Since the specified license file cannot be installed, specify another file.

Cannot initialize the password because another application is being installed, or the firmware being updated.
Please wait a moment and then try again.

Problem	Either it is installed in another application outside of SMS, or it cannot initialize the password because the firmware is being updated.

Action	Wait until the processing stops before initializing the password.

You do not have permissions to use Service Management Service. Log in with administrator rights.

Problem	Only users with administrator rights can log in to SMS with the user name and password that they use for logging in to the printer. The user trying to log in cannot do so because they do not have administrator rights.
Action	Log in again with the user name and password of a user with administrator rights.

Cannot login because another user is logged in or logout operations have not been successfully performed. Please wait a moment and then try this operation again.

Problem	Cannot log in for a period of time because either another user is logged in or when the user was logged in before, the logout procedure was not performed properly.
Action	If another user is logged in, wait until the user logs out. If another user is not logged in, wait for the lock to be cancelled.

Error: <Error Details>

Problem	An error has occurred for some reason. See <Error Details> for details.
Action	If the solutions given in <Error Details> are unclear, contact your local authorized Canon dealer or sales representatives.

Errors Relating to the [MEAP Application Management] Page

- <Cannot start this application because there is no distributable software in the application. Get a distributable software.>
- <Cannot start this application because the number of bootable applets has exceeded the limit. Start this application after stopping other applications.>
- <A license is needed to start this application. Try to start it again after installing a license.>
- <Cannot start this application because system resources (memory, threads, sockets, file descriptors, disk space, or screen size) required to start the application may not be available. <Resources>>
- <Cannot uninstall this application because the license file has not been deleted. Uninstall the application after deleting the license in the [License Management] page.>
- <The name listed in the file for the application and the applet name to register with Applet Viewer Service are different. Check the file.>
- <Cannot start this application because application setting information is being processed. Please wait a moment and then try again.>
- <Error: <Error Details>>

Cannot start this application because there is no distributable software in the application. Get a distributable software.

Problem	The application cannot be started because it does not contain any redistributable modules.
Action	Contact the application developer.

Cannot start this application because the number of bootable applets has exceeded the limit. Start this application after stopping other applications.

Problem	The application that you are attempting to launch contains applets. If the application was launched, the number of applets that would be booted on the system would exceed the limit (five applets), so the application cannot be launched.
Action	First, reduce the number of applets running on the system by stopping an application running on the system which includes an applet, and then restart the application.

A license is needed to start this application. Try to start it again after installing a license.

Problem	Cannot start the application because a license file is not installed.
Action	Install the license file, and then restart the application.

Cannot start this application because system resources (memory, threads, sockets, file descriptors, disk space, or screen size) required to start the application may not be available. <Resources>

Problem	The application cannot be started because the system resources for opening the application may not be available to be allocated.
Action	Restart this application after stopping other applications. It may be able to start this time.

Cannot uninstall this application because the license file has not been deleted. Uninstall the application after deleting the license in the [License Management] page.

Problem	The application cannot be uninstalled because the license file for the application still exists inside the printer.
Action	Uninstall the application after deleting the license on the [License Management] page.

4

The name listed in the file for the application and the applet name to register with Applet Viewer Service are different. Check the file.

Problem	The application cannot be started because the applet name the application is trying to register in the Applet Viewer Service differs from the applet name included in the application file.
Action	Since it is necessary to make corrections to the application file, contact the application developer.

Cannot start this application because application setting information is being processed. Please wait a moment and then try again.

Problem	The application cannot be started because application data is being deleted.
Action	After deletion of application data completes, launch the application again.

Error: <Error Details>

Problem	An error has occurred for some reason. See <Error Details> for details.
Action	If the solutions given in <Error Details> are unclear, contact your local authorized Canon dealer or sales representatives.

Errors Relating to the [Install MEAP Application] Page

- <The file for the application to install does not exist or the file path is incorrect. Try to specify the path again.>
- <The file for the license to install does not exist or the file path is incorrect. Try to specify the path again.>
- <The manifest is not listed in the specified file. Check the file.>
- <The contents of the file for the application to install are incorrect or information is missing. Check the file.>
- <The contents of the file for the license to install are incorrect or information is missing. Check the file.>
- <The following information is missing in file for the specified application. Check the file. <Missing information>>
- <The following information in the specified application is incorrect. Check the file. <Inaccurate information>>
- <Cannot install this application because a code signing has not been confirmed to be valid. Get a valid code signing.>
- <Cannot install this license because the specified application and license do not correspond. Try to specify a path for the license file again.>
- <The number of applications that can be installed has exceeded the limit. Try to install this application after uninstalling other applications.>
- <Cannot install this license because the number of license file ID logs that can be saved has exceeded the limit. Contact your service representative.>
- <Cannot install because a used license file is specified. Try to specify the file again.>
- <To install the specified application, a license file must be installed at the same time. Specify a license file.>
- <The specified file is a system application. Install the application from the [Enhanced System Application Management] page.>
- <The specified application does not require a license.>
- <The specified license does not match this device. Specify an installable license.>
- <The specified application does not support this device.>
- <Cannot install this application because an applet included in the specified application has exceeded the area that can be displayed in the device panel.>
- <The specified file is an update file. Stop the application that you want update and then install the file.>
- <Cannot install the application because the license requirement is different. Uninstall the specified application, and then try to install the application again.>
- <Cannot install this application because storage space has been exceeded. Uninstall other applications and then try to install it again.>
- <Could not cancel installation. Installation has been successfully completed.>
- <This application does not support the MEAP version of the device. Contact your service representative after checking the application version.>
- <The specified application cannot be installed on this device.>
- <The process is canceled because the system has been shut down. Restart the system, and then perform the process again.>
- <Cannot install the application or license because another application is being installed, or the firmware being updated. Please wait a moment and then try again.>
- <Error: <Error Details>>

The file for the application to install does not exist or the file path is incorrect. Try to specify the path again.

Problem	The specified file does not exist or the file path is incorrect.
Action	Specify the file path correctly.

The file for the license to install does not exist or the file path is incorrect. Try to specify the path again.

Problem	The license file does not exist on the specified path or the file path is incorrect.
Action	Specify the file path correctly.

The manifest is not listed in the specified file. Check the file.

Problem	A manifest does not exist for the file specified as the application file.
Action	This application cannot be installed. Contact the application developer.

The contents of the file for the application to install are incorrect or information is missing. Check the file.

Problem	Either the content of the files specified as application files is not correct or information is missing.
Action	This application file cannot be installed. Check the file. If there are no problems with the files, contact the application developer or the application support help desk.

The contents of the file for the license to install are incorrect or information is missing. Check the file.

Problem	Either the content of the files specified as license files is not correct or information is missing.
Action	This license file cannot be installed. Check the file. If there are no problems with the files, contact the application developer or the application support help desk.

The following information is missing in file for the specified application. Check the file. <Missing information>

Problem	The application cannot be installed because required information is not included in the application file.
Action	Check the file. If there are no problems with the files, contact the application developer or the application support help desk concerning the <Missing Information>.

The following information in the specified application is incorrect. Check the file. <Inaccurate information>

Problem 1	<Inaccurate information> in the application file cannot be recognized as correct information.
Action	Contact the application developer or the application support help desk.
Problem 2	If the <Inaccurate information> is the MEAP Specifications, the application's MEAP specification values and the printer's MEAP specification values do not match.
Action	Contact your local authorized Canon dealer or sales representatives.

Cannot install this application because a code signing has not been confirmed to be valid. Get a valid code signing.

Problem 1	Cannot confirm that there is a valid code signature inside the application file.
Action	Perform the correct code signing operation for the application.
Problem 2	The file may have been altered.
Action	Contact the application developer.

Cannot install this license because the specified application and license do not correspond. Try to specify a path for the license file again.

Problem	The application cannot be installed because the specified license file does not correspond to the specified application.
Action	Specify the license file that corresponds to the application.

The number of applications that can be installed has exceeded the limit. Try to install this application after uninstalling other applications.

Problem	The maximum number of applications that can be installed is eight. You are attempting to install an application that will exceed that number.
Action	You can install it if you first uninstall another installed application (unless it is a system application).

Cannot install this license because the number of license file ID logs that can be saved has exceeded the limit. Contact your service representative.

Problem	The license file cannot be installed because the number of license file ID information logs contained in the license file exceeds the number that can be saved.
Action	Contact your local authorized Canon dealer or sales representatives.

Cannot install because a used license file is specified. Try to specify the file again.

Problem	License files that have been installed once cannot be installed again. The specified license file has already been installed.
Action	Since the specified license file cannot be installed, specify another file.

To install the specified application, a license file must be installed at the same time. Specify a license file.

Problem	You cannot install the application unless you specify the license file that corresponds to the application at the same time.
Action	Specify the corresponding license file when specifying the application, and then install them.

The specified file is a system application. Install the application from the [Enhanced System Application Management] page.

Problem	The specified file is a system application. It cannot be installed from this [Install MEAP Application] page.
Action	Install it from the [Enhanced System Application Management] page.

The specified application does not require a license.

Problem	An application file and license file were specified, but the specified application file does not require a license file.
Action	Install the application without specifying a license file.

The specified license does not match this device. Specify an installable license.

Problem	License files contain the serial number information of printers in which the license file can be installed. The specified license cannot be installed because it does not contain the printer's serial number information.
Action	Specify a license file that matches the printer's serial number.

The specified application does not support this device.

Problem	Some applications can only be installed in certain printer models. It cannot be installed in this model.
Action	Specify an application that supports this printer.

Cannot install this application because an applet included in the specified application has exceeded the area that can be displayed in the device panel.

Problem	The application cannot be installed because the display area of an applet included in the application exceeds the area that can be displayed on the operation panel of the printer.
Action	Install an application that contains applets that support this printer.

The specified file is an update file. Stop the application that you want update and then install the file.

Problem	The specified application file is a file for updating an application which is already installed. It is necessary to stop the application which is to be updated before updating.
Action	Stop the application that you want to update, and then perform the update again.

Cannot install the application because the license requirement is different. Uninstall the specified application, and then try to install the application again.

Problem	You have tried to upgrade an application which is already installed using a version of the same application with different license requirements.
Action	Upgrade using the same license conditions.

Cannot install this application because storage space has been exceeded. Uninstall other applications and then try to install it again.

Problem	The application cannot be installed because there is not enough free storage capacity.
Action	Make storage capacity available by uninstalling an application that is not being used.

Could not cancel installation. Installation has been successfully completed.

Problem	The [Cancel] button was pressed when the installation operation could not be cancelled.
Action	Disable the license file, download it from the [License Management] page, and then uninstall it.

This application does not support the MEAP version of the device. Contact your service representative after checking the application version.

Problem	The specified application cannot be installed because it does not support the MEAP version on this printer.

Action	Contact the application developer.

The specified application cannot be installed on this device.

Problem	The specified application cannot be installed because there is not enough memory in the printer.
Action	Contact your local authorized Canon dealer or sales representatives.

The process is canceled because the system has been shut down. Restart the system, and then perform the process again.

Problem	The installation could not be completed because it conflicted with a system shutdown.
Action	Restart the printer and perform the install again.

Cannot install the application or license because another application is being installed, or the firmware being updated. Please wait a moment and then try again.

Problem	Either it is installed in another application outside of SMS, or the application cannot be installed because the firmware has been updated.
Action	Wait until the processing stops before installing the application.

Error: <Error Details>

Problem	An error has occurred for some reason. See <Error Details> for details.
Action	If the solutions given in <Error Details> are unclear, contact your local authorized Canon dealer or sales representatives.

Errors Relating to the [Authentication Information Settings] Page

- <Settings are incorrect.>
- <The [Department ID] is incorrect. Enter an integer for the [Department ID].>
- <The [Department ID] is not entered.>
- <Could not set authentication information because an error occurred.>
- <Could not delete authentication information because an error occurred.>

Settings are incorrect.

- Check to see if the password is incorrect.
- Enter Dept. ID within 7 digits.
- Check to see if the Department. ID is registered with the device.

Problem	Cannot set authentication information because either the Dept. ID entered does not exist, or the PIN was entered incorrectly.
Action	Enter a Dept. ID and PIN that are registered in the printer.

The [Department ID] is incorrect.
Enter an integer for the [Department ID].

Problem	The Dept. ID that was entered is a positive integer, but the registered Dept. ID is not a positive integer.
Action	Enter the correct Dept. ID that is registered in the device.

The [Department ID] is not entered.

Problem	The Dept. ID is blank.
Action	Specify a Dept. ID.

Could not set authentication information because an error occurred.

Problem	An error has occurred for some reason, so authentication information could not be set.
Action	Contact your local authorized Canon dealer or sales representatives.

Could not delete authentication information because an error occurred.

Problem	An error has occurred for some reason, so authentication information could not be deleted.
Action	Contact your local authorized Canon dealer or sales representatives.

Errors Relating to the [License Management] Page

- <The specified file does not exist or the file path is incorrect. Try to specify the path again.>
- <The contents of the file for the license to install are incorrect or information is missing. Check the file.>
- <Cannot install this license because the specified license does not correspond to this application. Try to specify a path for the license file again.>
- <Cannot install this license because the number of license file ID logs that can be saved has exceeded the limit. Contact your service representative.>
- <Cannot install because a used license file is specified. Try to specify the file again.>
- <The specified license does not match this device. Specify an installable license.>
- <Could not cancel installation. Installation has been successfully completed.>
- <Cannot install the license because another application is being installed, or the firmware being updated. Please wait a moment and then try again.>
- <Cannot disable the license file because this application has been started. Disable the license file after stopping the application.>
- <Error: <Error Details>>

The specified file does not exist or the file path is incorrect. Try to specify the path again.

Problem	The file does not exist on the specified path or the file path is incorrect.
Action	Specify the file path correctly.

The contents of the file for the license to install are incorrect or information is missing. Check the file.

Problem	Either the content of the file is not correct or information is missing.
Action	This license file cannot be installed. Contact the application developer.

Cannot install this license because the specified license does not correspond to this application. Try to specify a path for the license file again.

Problem	The specified license file does not correspond to the application, so they cannot be installed.
Action	Specify the license file that corresponds to the application. Check to make sure that the manifest file listed inside the license file is correct.

Cannot install this license because the number of license file ID logs that can be saved has exceeded the limit. Contact your service representative.

Problem	The license file cannot be installed because the number of license file ID information logs contained in the license file exceeds the number that can be saved.
Action	Contact your local authorized Canon dealer or sales representatives.

Cannot install because a used license file is specified. Try to specify the file again.

Problem	According to the specifications, a license file which is already installed cannot be installed again. The specified license file has already been installed.
Action	Since the specified license file cannot be installed, specify another file.

The specified license does not match this device. Specify an installable license.

Problem	License files contain lists of printers in which they can be installed. The specified license file cannot be installed in this printer.
Action	Specify a license file that can be installed in this printer.

Could not cancel installation. Installation has been successfully completed.

Problem	The [Cancel] button was pressed when the installation operation could not be cancelled.
Action	Disable the license file, download it from the [License Management] page, and then uninstall it.

Cannot install the license because another application is being installed, or the firmware being updated.
Please wait a moment and then try again.

Problem	Either it is installed in another application outside of SMS, or the license file cannot be installed because the firmware has been updated.
Action	Wait until the processing stops before installing the license file.

Cannot disable the license file because this application has been started. Disable the license file after stopping the application.

Problem	You cannot disable a license if the corresponding application is still running.
Action	Stop the application that corresponds to the license before disabling the license.

Error: <Error Details>

Problem	An error has occurred for some reason. See <Error Details> for details.
Action	If the solutions given in <Error Details> are unclear, contact the application developer.

Errors Relating to the [Enhanced System Application Management] Page

- <Cannot start this application because there is no distributable software in the application. Get a distributable software.>
- <Cannot start this application because the number of bootable applets has exceeded the limit. Start this application after stopping other applications.>
- <Cannot start this application because system resources (memory, threads, sockets, file descriptors, disk space, or screen size) required to start the application may not be available. <Resources>>
- <The name listed in the file for the application and the applet name to register with Applet Viewer Service are different. Check the file.>
- <The following login services cannot be uninstalled:
  - The currently set login service
    Login services that will be enabled after the device is restarted
  - Default Authentication login services

  The currently set login service can be uninstalled after the device is restarted.>
- <The file for the application to install does not exist or the file path is incorrect. Try to specify the path again.>
- <The manifest is not listed in the specified file. Check the file.>
- <The file for the license to install does not exist or the file path is incorrect. Try to specify the path again.>
- <The contents of the file for the application to install are incorrect or information is missing. Check the file.>
- <The contents of the file for the license to install are incorrect or information is missing. Check the file.>
- <Cannot install this application because a code signing has not been confirmed to be valid. Get a valid code signing.>
- <Cannot install this license because the specified application and license do not correspond. Try to specify a path for the license file again.>
- <The specified file is not system application. Check the file.>
- <Cannot install this license because the number of license file ID logs that can be saved has exceeded the limit. Contact your service representative.>
- <Cannot install because a used license file is specified. Try to specify the file again.>

- <To install the specified application, a license file must be installed at the same time. Specify a license file.>
- <The following information in the specified application is incorrect. Check the file. <Inaccurate information>>
- <The following information is missing in file for the specified application. Check the file. <Missing information>>
- <The specified application does not support this device.>
- <The specified license does not match this device. Specify an installable license.>
- <Cannot install this application because an applet included in the specified application has exceeded the area that can be displayed in the device panel.>
- <The specified file is an update file. Stop the application that you want update and then install the file.>
- <The specified file is an update file for a login service that is currently set. Switch to another login service, restart the device, and then install the file.>
- <Cannot install this application because storage space has been exceeded. Uninstall other applications and then try to install it again.>
- <Could not cancel installation. Installation has been successfully completed.>
- <The process is canceled because the system has been shut down. Restart the system, and then perform the process again.>
- <Cannot install the application or license because another application is being installed, or the firmware being updated. Please wait a moment and then try again.>
- <Error: <Error Details>>

Cannot start this application because there is no distributable software in the application. Get a distributable software.

Problem	The application cannot be started because it does not contain any redistributable modules.
Action	Contact the application developer.

Cannot start this application because the number of bootable applets has exceeded the limit. Start this application after stopping other applications.

Problem	The application that you are attempting to launch contains applets. If the application was launched, the number of applets that would be booted on the system would exceed the limit (five applets), so the application cannot be launched.
Action	First, reduce the number of applets running on the system by stopping an application running on the system which includes an applet, and then restart the application.

Cannot start this application because system resources (memory, threads, sockets, file descriptors, disk space, or screen size) required to start the application may not be available. <Resources>

Problem	The application cannot be started because the system resources for opening the application may not be available to be allocated.
Action	Restart this application after stopping other applications. It may be able to start this time.

The name listed in the file for the application and the applet name to register with Applet Viewer Service are different. Check the file.

Problem	The application cannot be started because the applet name the application is trying to register in the Applet Viewer Service differs from the applet name included in the application file.
Action	Since it is necessary to make corrections to the application file, contact the application developer.

The following login services cannot be uninstalled:
 - The currently set login service
 - Login services that will be enabled after the device is restarted
 - Default Authentication login services
 The currently set login service can be uninstalled after the device is restarted.

Problem	The currently set login service, a login service that will be enabled after restarting the machine, and the Default Authentication login service cannot be uninstalled.
Action	Do not uninstall the currently set login service, a login service that will be enabled after restarting the machine, or the Default Authentication login service. To uninstall the currently set login service, uninstall it after restarting the machine.

The file for the application to install does not exist or the file path is incorrect. Try to specify the path again.

Problem	The specified file does not exist or the file path is incorrect.
Action	Specify the file path correctly.

The manifest is not listed in the specified file. Check the file.

Problem	A manifest does not exist for the file specified as the application file.
Action	This application cannot be installed. Contact the application developer.

The file for the license to install does not exist or the file path is incorrect. Try to specify the path again.

Problem	The specified file does not exist or the file path is incorrect.

Action	Specify the file path correctly.

The contents of the file for the application to install are incorrect or information is missing. Check the file.

Problem	Either the content of the files specified as application files is not correct or information is missing.
Action	This application file cannot be installed. Check the file. If there are no problems with the files, contact the application developer or the application support help desk.

The contents of the file for the license to install are incorrect or information is missing. Check the file.

Problem	Either the content of the files specified as license files is not correct or information is missing.
Action	This license file cannot be installed. Check the file. If there are no problems with the files, contact the application developer or the application support help desk.

Cannot install this application because a code signing has not been confirmed to be valid. Get a valid code signing.

Problem 1	Cannot confirm that there is a valid code signature inside the application file.
Action	Perform the correct code signing operation for the application.
Problem 2	The file may have been altered.
Action	Contact the application developer.

Cannot install this license because the specified application and license do not correspond. Try to specify a path for the license file again.

Problem	The application cannot be installed because the specified license file does not correspond to the specified application.
Action	Specify the license file that corresponds to the application.

The specified file is not system application. Check the file.

Problem	The specified file is not system application. It cannot be installed from the [Enhanced System Application Management] page.
Action	Install it from the [Install MEAP Application] page.

Cannot install this license because the number of license file ID logs that can be saved has exceeded the limit. Contact your service representative.

Problem	The license file cannot be installed because the number of license file ID information logs contained in the license file exceeds the number that can be saved.
Action	Contact your local authorized Canon dealer or sales representatives.

Cannot install because a used license file is specified. Try to specify the file again.

Problem	License files that have been installed once cannot be installed again. The specified license file has already been installed.
Action	Since the specified license file cannot be installed, specify another file.

To install the specified application, a license file must be installed at the same time. Specify a license file.

Problem	You cannot install the application unless you specify the license file that corresponds to the application at the same time.
Action	Specify the corresponding license file when specifying the application, and then install them.

The following information in the specified application is incorrect. Check the file. <Inaccurate information>

Problem 1	<Inaccurate information> in the application file cannot be recognized as correct information.
Action	Contact the application developer or the application support help desk.
Problem 2	If the <Inaccurate information> is the MEAP Specifications, the application's MEAP specification values and the printer's MEAP specification values do not match.
Action	Contact your local authorized Canon dealer or sales representatives.

The following information is missing in file for the specified application. Check the file. <Missing information>

Problem	The application cannot be installed because required information is not included in the application.
Action	Check the file. If there are no problems with the files, contact the application developer or the application support help desk concerning the <Missing Information>.

The specified application does not support this device.

Problem	Some applications can only be installed in certain printer models. It cannot be installed in this model.
Action	Specify an application that supports this printer.

The specified license does not match this device. Specify an installable license.

Problem	License files contain the serial number information of printers in which the license file can be installed. The specified license cannot be installed because it does not contain the printer's serial number information.
Action	Specify a license file that matches the serial number of this printer.

Cannot install this application because an applet included in the specified application has exceeded the area that can be displayed in the device panel.

Problem	The application cannot be installed because the display area of an applet included in the application exceeds the area that can be displayed on the operation panel of the printer.

Action	Install an application that contains applets that support this printer.

The specified file is an update file. Stop the application that you want update and then install the file.

Problem	The specified application file is a file for updating an application which is already installed. It is necessary to stop the application which is to be updated before updating.
Action	Stop the application that you want to update, and then perform the update again.

The specified file is an update file for a login service that is currently set. Switch to another login service, restart the device, and then install the file.

Problem	Although the specified application file is an update file for the login service that is currently set, it cannot update a login service that has already started.
Action	To install the update file for the login service, start another login service, and then install the update file.

Cannot install this application because storage space has been exceeded. Uninstall other applications and then try to install it again.

Problem	The application cannot be installed because there is not enough free storage capacity.
Action	Make storage capacity available by uninstalling an application that is not being used.

Could not cancel installation. Installation has been successfully completed.

Problem	The [Cancel] button was pressed when the installation operation could not be cancelled.
Action	Disable the license file, download it from the [License Management] page, and then uninstall it.

The process is canceled because the system has been shut down. Restart the system, and then perform the process again.

Problem	The installation could not be completed because it conflicted with a system shutdown.
Action	Restart the printer and perform the install again.

Cannot install the application or license because another application is being installed, or the firmware being updated. Please wait a moment and then try again.

Problem	Either it is installed in another application outside of SMS, or the application cannot be installed because the firmware has been updated.
Action	Wait until the processing stops before installing the application.

Error: <Error Details>

Problem	An error has occurred for some reason. See <Error Details> for details.
Action	If the solutions given in <Error Details> are unclear, contact your local authorized Canon dealer or sales representatives.

Errors Relating to the [Check License] and [Change Password] Pages

- <The specified file does not exist or the file path is incorrect. Try to specify the path again.>
- <The contents of the specified file are incorrect or information is missing. Check the file.>
- <The specified switch license file cannot be used to delete the license file ID log. Try to specify the path again.>
- <The specified license is already installed. Installed license file information cannot be displayed.>
- <Cannot perform the operation because another application is being installed, or the firmware being updated. Please wait a moment and then try again.>

- <The old password is incorrect.>
- <The new password is incorrect. Enter the password with 8 to 32 single-byte alphanumeric characters.>
- <The new password and password to confirm do not match.>
- <Error: <Error Details>>

The specified file does not exist or the file path is incorrect. Try to specify the path again.

Problem	The file does not exist on the specified path or the file path is incorrect.
Action	Specify the file path correctly.

The contents of the specified file are incorrect or information is missing. Check the file.

Problem 1	The content of the file is not correct. (A file other than a license file was specified.)
Action	Check to make sure that the specified file is a license file.
Problem 2	Information is missing from the file.
Action	Check the content of the file.

The specified switch license file cannot be used to delete the license file ID log. Try to specify the path again.

Problem	The specified file is not a switch license file for deleting license file ID logs.
Action	Try specifying the file path for the switch license for deleting license file ID logs.

The specified license is already installed. Installed license file information cannot be displayed.

Problem	Information about license files that have already been installed in this printer cannot be displayed.
Action	Specify another license file.

Cannot perform the operation because another application is being installed, or the firmware being updated.
Please wait a moment and then try again.

Problem	Either it is installed in another application outside of SMS, or the license file information cannot be displayed because the firmware has been updated.
Action	Wait until the processing stops before displaying the license information.

The old password is incorrect.

Problem	The text string entered as the current password is different from the current password.
Action	Enter the correct password.

The new password is incorrect. Enter the password with 8 to 32 single-byte alphanumeric characters.

Problem	The new password has under 8 characters or more than 33 characters. Illegal characters that cannot be used in passwords have been used.
Action	Enter a new password of between 8 and 32 alphanumeric characters (a to z, A to Z, and 0 to 9).

The new password and password to confirm do not match.

Problem	The password cannot be changed because the new password and the confirmation password do not match.
Action	Enter a new password and the same text string as the confirmation password.

Error: <Error Details>

Problem	An error has occurred for some reason. See <Error Details> for details.
Action	If the solutions given in <Error Details> are unclear, contact your local authorized Canon dealer or sales representatives.

Errors Relating to the [MEAP Application Setting Information Management] Page

- <Cannot delete the setting information for the selected applications because it is in use by currently running applications.Stop the following applications, or stop all applications except for login services, and then delete the setting information. <Application Name>>
- <Could not delete MEAP application setting information because an error occurred.>

Cannot delete the setting information for the selected applications because it is in use by currently running applications.
Stop the following applications, or stop all applications except for login services, and then delete the setting information.
<Application Name>

Problem	The application is in one of the following states. - Started - Starting - Stopping
Action	Return to the previous page using the [Back] button, bring the applications corresponding to the error message to other state than "Started," "Starting" or "Stopping," and then try deletion again.

Could not delete MEAP application setting information because an error occurred.

Problem	An error has occurred for some reason, so the setting information could not be deleted.
Action	Return to the previous page using the [Back] button.

Errors Relating to the [MEAP Application Log Management] Page

- <Cannot download application logs because application logs do not exist.>
- <Could not download application logs because an error occurred.>
- <Could not delete application logs because an error occurred.>

Cannot download application logs because application logs do not exist.

Problem	The application log does not exist.
Action	Return to the previous page using the [Back] button.

Could not download application logs because an error occurred.

Problem	An error has occurred for some reason, so the log could not be downloaded.
Action	Return to the previous page using the [Back] button.

Could not delete application logs because an error occurred.

Problem	An error has occurred for some reason, so the log could not be deleted.
Action	Return to the previous page using the [Back] button.

Other Errors

- <Cannot find the specified application. It may have been uninstalled by another user.>

Cannot find the specified application. It may have been uninstalled by another user.

Problem	The application for the attempted operation does not exist.
Action	Return to the previous page using the [Back] button.

Using This Guide

This chapter describes how to use this guide.

Operating Environment of This Guide

Screen Layout of This Guide

- Top Page

- Topic Page

- Site Map

- Search Method

Viewing This Guide

<To find the desired content>

- **Selecting between the category icons**
  From the top page, select a category icon you want.
  "Top Page"
- **Searching from the site map**
  On the site map, you can view the list of whole sections of this guide sorted by category. You can directly display sections in a category.
  "Site Map"
- **Whole text search function**
  You can search by keyword in this guide. You can display the desired description from the search results by entering a keyword you want to search. This function supports AND search.
  "Search Method"

Operating Environment of This Guide

You need a Web browser to use this guide. Operation of the following Web browsers is guaranteed.

Windows

- Internet Explorer 6.0 or later
- Firefox 2.x or later

Mac OS

- Safari 3.x or later
- Firefox 3.x or later

> ☑ **NOTE**
>
> **Enabling the script function**
>
> Enable the script function for a Web browser before using this guide.

Screen Layout of This Guide

This section describes the screen layout of this guide.

The page displayed right after this guide starts is called "Top Page" and the guide description is called "Topic Page" in this section.
"Site map" is displayed from [Site map] which is located on the upper right of this guide.

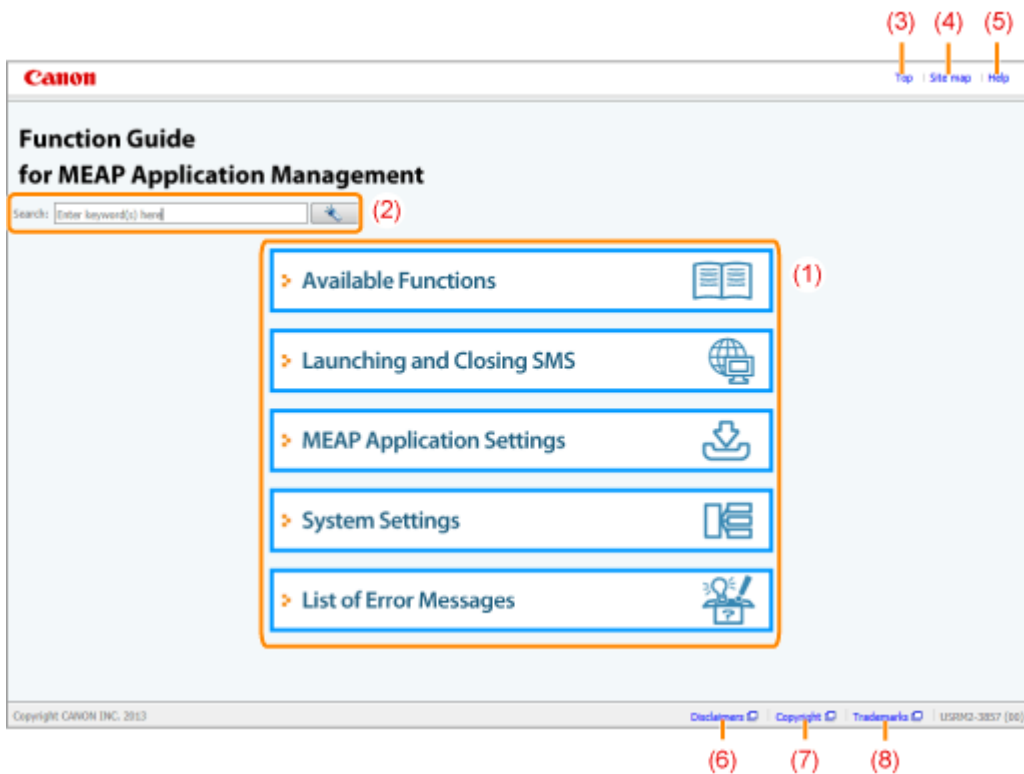The search panel is used to make search through this guide.

The screen layout is different for each page, so click the following links to see the instruction.

Top Page

Topic Page

Site Map

Search Method

Top Page

(1) Select from functions
The instructions of each function and operation method are described.

(2) [Search]
The search panel is displayed by entering keyword(s) and clicking [⬚].
For details, see "Search Method."

(3) [Top]
The top page of this guide is displayed.

(4) [Site map]
The entire contents of this guide are displayed.

(5) [Help]
How to use this guide is displayed.

(6) [Disclaimers]
The disclaimers are displayed.

(7) [Copyright]
The information of copyrights is displayed.

(8) [Trademarks]
The trademarks are displayed.

Topic Page

(1) Chapter contents
This is the list of the contents in the chapter. Clicking each item displays the description in the topic page.
Click [+] to expand a menu, and click [−] to collapse a menu.
Alternatively, click [+ Expand all] to expand all menus, and click [− Collapse all] to collapse all menus.

(2) Topic page
The descriptions of each item are displayed.
The current location of the displayed topic is displayed at the upper left of the topic page. Click a link to move to a higher level.

(3) [Chapter] menu
You can select a different chapter from the pull-down menu.

(4) [Contents] tab
Click to display the chapter contents panel.

(5) [Search] tab
Click to display the search panel.
For details, see "Search Method."

(6) [◄]
Click to display or hide the chapter contents panel/search panel.

(7) [Previous]/[Next]
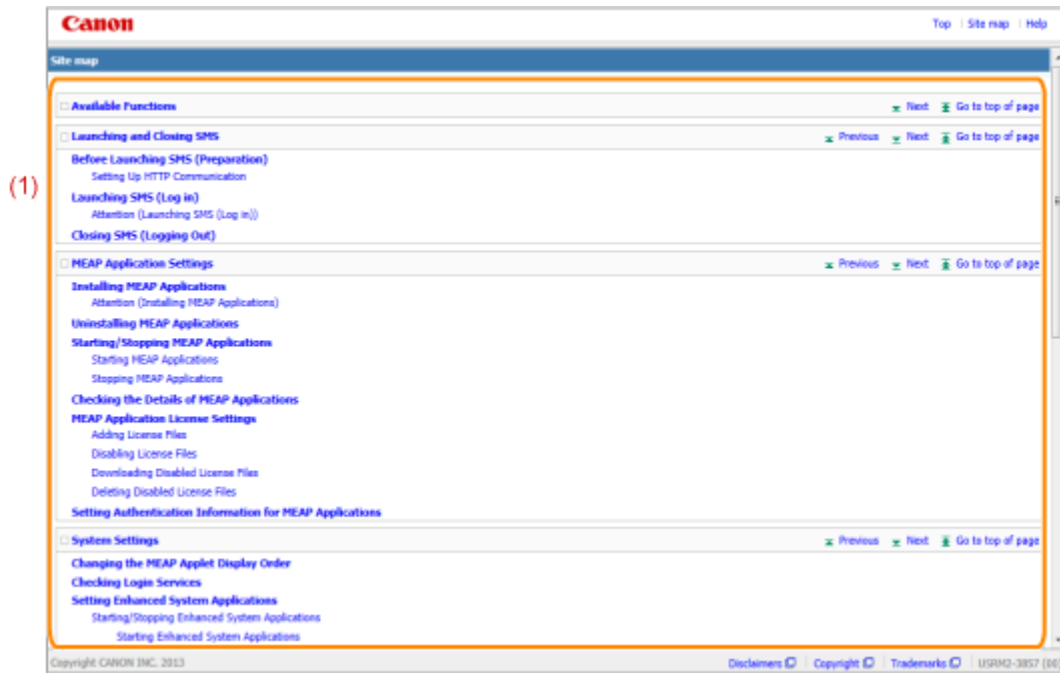Click to move to the previous or next topic.

(8) [Print this topic]
Prints only the topic page currently displayed.

(9) [Print all]
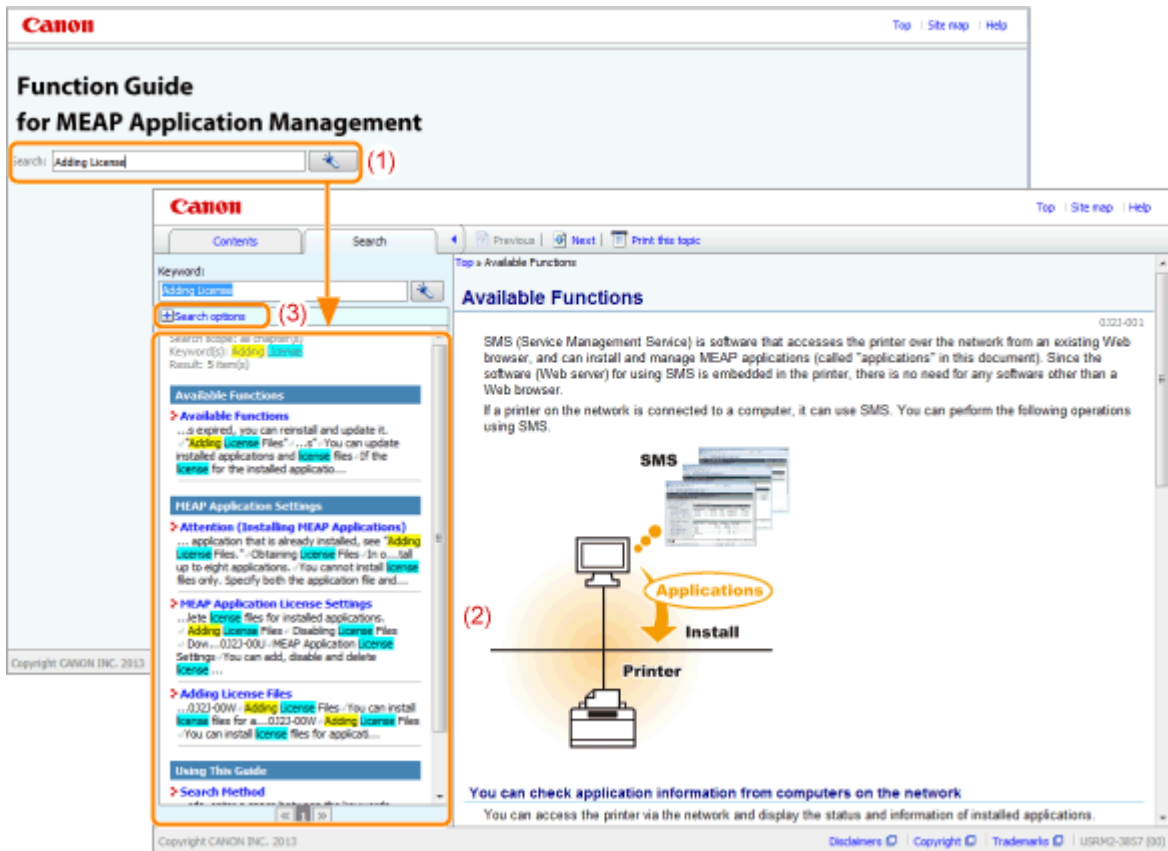Prints all the contents in a chapter.

Site Map

(1) Whole contents

Shows the all chapters and sections of this guide. Click an item to view the contents.

Search Method

(1) Search

Entering a character string in [Search] on the top page or in the [Keyword] text box on the search panel and then clicking [ ] displays the search results.

The AND search is available in this guide so you can refine the search results by entering two or more keywords. When entering keywords, enter a space between the keywords.

- **Example:** Adding License (if you want to display pages which include words, "Adding" and "License")

(2) Search result

The search results for a keyword are displayed.

If there are more than 10 search results, you can see the other results by clicking [«], [»], or the number which is located below the result.

(3) [Search options]

Click to display the search options.

The search options can be used to specify the chapter to search, case sensitivity, and whether to differentiate between one- and two-byte characters.

Click [Search with these conditions] to search with the specified conditions.

Viewing This Guide

Symbols Used in This Guide

The following symbols are used in this Guide to mark descriptions of handling restrictions, precautions, and instructions that should be observed for your safety.

✋ IMPORTANT

Indicates operational requirements and restrictions. Be sure to read these items carefully to operate the machine correctly, and avoid damage to the machine or property.

📝 NOTE

Indicates a clarification of an operation, or contains additional explanations for a procedure. Reading these notes is highly recommended.

Keys and Buttons Used in This Guide

The following are examples of how control panel keys and on-screen buttons are depicted in this guide.

Type	Depiction in This Guide	Example
Control panel keys	[Key name] keys	[Network] key
Settings displayed on the control panel	<Setting name shown in the display>	<On>
Buttons on computer operation screen and so on	[Button name and so on]	[OK]

Screenshots Used in This Guide

The contents of the screenshots used in this guide are the default settings.
Depending on the system configuration, the contents of the screenshots may partly differ.

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