

## User's Manual

### Advanced

This manual supports the following models.

**C831n/C831dn**

**C841n/C841dn**

**ES8431/ES8441**

# ■ About This Manual

## Terms in this document

The following terms are used in this manual.



- Indicates important information on operations. Make sure to read sections with this mark.



- Indicates additional information on operations. You should read sections with this mark.



- Indicates where to look when you want to know more detailed or related information.

### **WARNING**

- A warning provides additional information which, if ignored, may result in a risk of personal injury.

### **CAUTION**

- A caution provides additional information which, if ignored, may result in equipment malfunction or damage.

## Symbols in this document

The following symbols are used in this manual.

| Symbols             | Description  |
|---------------------|--|
| [ ]                 | <ul style="list-style-type: none"><li>• Indicates menu names on the display screen.</li><li>• Indicates menu, window, and dialog names on the computer.</li></ul>                                |
| " "                 | <ul style="list-style-type: none"><li>• Indicates messages and input text on the display screen.</li><li>• Indicates file names on the computer.</li><li>• Indicates reference titles.</li></ul> |
| < > button/key      | Indicates a hardware button on the operator panel or a key on the keyboard of the computer.  |
| >                   | Indicates how to get to the item you want in the menu of this printer or the computer.   |
| <i>Your Printer</i> | Indicates a printer you want to use or select.   |

## Notation used in this manual

The following notations may be used in this manual.

- PostScript3 Emulation → PSE, POSTSCRIPT3 Emulation, POSTSCRIPT3 EMULATION
- Microsoft® Windows® 7 64-bit Edition operating system → Windows 7 (64bit version)
- Microsoft® Windows Vista® 64-bit Edition operating system → Windows Vista (64bit version)\*
- Microsoft® Windows Server® 2008 R2 64-bit Edition operating system → Windows Server 2008 R2\*
- Microsoft® Windows Server® 2008 64-bit Edition operating system → Windows Server 2008 (64bit version)\*
- Microsoft® Windows® XP x64 Edition operating system → Windows XP (x64 version)\*
- Microsoft® Windows Server® 2003 x64 Edition operating system → Windows Server 2003 (x64 version)\*
- Microsoft® Windows® 7 operating system → Windows 7 \*
- Microsoft® Windows Vista® operating system → Windows Vista \*
- Microsoft® Windows Server® 2008 operating system → Windows Server 2008 \*
- Microsoft® Windows® XP operating system → Windows XP \*
- Microsoft® Windows Server® 2003 operating system → Windows Server 2003 \*
- Microsoft® Windows® 2000 operating system → Windows 2000
- Generic name for Windows 7, Windows Vista, Windows Server 2008, Windows XP, Windows Server 2003, and Windows 2000 → Windows

\* If there is no special description, 64bit version is included in Windows 7, Windows Vista, Windows Server 2008, Windows XP, and Windows Server 2003. (64bit version and Windows Server 2008 R2 is included in Windows Server 2008.)

If there is no special description, Windows 7 is used as Windows, Mac OS X 10.6 is used as Mac OS X, and C831dn is used as the printer for examples in this document.

Depending on your OS or model, the description on this document may be different.

# Contents

---

|  |          |
|--|----------|
| About This Manual.....   | 2        |
| Terms in this document .....   | 2        |
| Symbols in this document .....   | 2        |
| Notation used in this manual .....   | 3        |
| <b>1. Convenient Print Functions .....</b>                                     | <b>8</b> |
| Printing on Envelopes .....  | 8        |
| Printing on Labels .....   | 10       |
| Printing on Custom Size Paper .....  | 11       |
| Manual Printing .....  | 14       |
| Combining Multiple Pages Onto One Sheet of Paper (Multiple page printing)..... | 16       |
| Duplex Printing.....   | 17       |
| Scaling to Pages .....   | 18       |
| Collating Pages.....   | 19       |
| Setting the Page Order .....   | 20       |
| Booklet Printing .....   | 21       |
| Cover Printing .....   | 22       |
| Poster Printing.....   | 23       |
| Changing Print Quality (Resolution) .....                                      | 24       |
| Enhancing Photos .....   | 25       |
| Printing Color Data in Grayscale.....  | 25       |
| Emphasizing Fine Lines.....  | 26       |
| Auto Tray Selection .....  | 27       |
| Auto Tray Switching .....  | 28       |
| Saving Toner .....   | 30       |
| Secure Printing.....   | 31       |
| Encrypted Secure Printing .....  | 32       |
| Watermark Printing .....   | 34       |
| Overlay Printing.....  | 35       |
| Storing Print Data .....   | 36       |
| Saving the Driver Settings .....   | 37       |
| Changing the Driver's Default Settings.....                                    | 38       |
| Using Printer Fonts.....   | 39       |
| Using Computer Fonts .....   | 40       |
| Using a Print Buffer .....   | 40       |
| Changing the Mono-Print Mode .....   | 41       |
| Printing to File.....  | 41       |
| Downloading PS Files .....   | 42       |

|  |           |
|--|-----------|
| Printing Out PS Errors .....   | 42        |
| Changing Emulation Mode.....   | 43        |
| <b>2. Adjusting Color .....</b>  | <b>44</b> |
| Adjusting Color on the Control Panel.....                                    | 44        |
| Adjusting Color Registration .....   | 44        |
| Adjusting the Density .....  | 44        |
| Adjusting the Color Balance (Density).....                                   | 45        |
| Adjusting Color on the Computer.....   | 46        |
| Color Matching (Automatic).....  | 46        |
| Color Matching (Office Color).....   | 47        |
| Color Matching (Graphic Pro).....  | 48        |
| Color Matching (No Color Matching).....                                      | 48        |
| Changing Black Finish.....   | 49        |
| Eliminating White Gap Between Text and Background (Overprinting black) ..... | 50        |
| Simulating Printing Results for Ink .....                                    | 51        |
| Color Separation.....  | 52        |
| Adjusting Color with Color Correct Utility .....                             | 53        |
| Changing Palette Color .....   | 53        |
| Changing Gamma Value or Hue .....  | 54        |
| Printing in Adjusted Color Settings .....                                    | 55        |
| Saving Color Correction Settings.....  | 56        |
| Importing Color Correction Settings.....                                     | 57        |
| Deleting Color Correction Settings.....                                      | 58        |
| Setting Color with Color Swatch Utility .....                                | 59        |
| Printing Color Swatch .....  | 59        |
| Printing a File With the Color You Want .....                                | 60        |
| Adjusting Color with PS Gamma Adjuster Utility .....                         | 61        |
| Registering Half-tone.....   | 61        |
| Printing a File with the Adjusted Gamma Curve.....                           | 62        |
| <b>3. Changing Printer Settings.....</b>                                     | <b>63</b> |
| Checking the Current Settings .....  | 63        |
| Printing Out Print Information.....  | 63        |
| Changing the Equipment Settings.....   | 64        |
| Admin Setup .....  | 64        |
| Other Settings.....  | 64        |
| List of Each Setup Menu .....  | 65        |

|  |           |
|--|-----------|
| <b>4. Using Utility Software</b> .....   | <b>78</b> |
| Overview of Utilities .....  | 78        |
| Installing Utilities .....   | 80        |
| Utilities common to Windows/Mac OS X .....                                     | 81        |
| Web page .....   | 81        |
| Windows Utilities.....   | 83        |
| Configuration Tool.....  | 83        |
| PDF Print Direct.....  | 86        |
| Operator Panel Language Setup.....   | 87        |
| Network Card Setup .....   | 88        |
| OKI LPR Utility.....   | 89        |
| Network Extension .....  | 92        |
| TELNET .....   | 93        |
| Mac OS X Utilities.....  | 94        |
| Panel Language Setup .....   | 94        |
| Network Card Setup .....   | 94        |
| <b>5. Network Settings</b> .....   | <b>96</b> |
| Network Setting Items.....   | 96        |
| Setting IP Address .....   | 121       |
| Changing Network Settings From the Web Page .....                              | 124       |
| Informing the End of Consumable Life and Errors by E-mail (E-mail Alert) ..... | 124       |
| Controlling Access Using IP Address (IP Filtering) .....                       | 125       |
| Controlling Access Using MAC Address (MAC Address Filtering) .....             | 126       |
| Printing Without Printer Driver (Direct Print) .....                           | 126       |
| Encrypting Communication by SSL/TLS.....                                       | 127       |
| Encrypting Communication by IPsec.....   | 129       |
| Using SNMPv3 .....   | 132       |
| Using IPv6 .....   | 132       |
| Using IEEE802.1X .....   | 133       |
| Changing EtherTalk Settings (for Mac OS X only).....                           | 134       |
| Other Operations .....   | 135       |
| Initializing Network Settings.....   | 135       |
| Using DHCP .....   | 135       |

---

|  |            |
|--|------------|
| <b>6. Troubleshooting.....</b>                 | <b>137</b> |
| Initializing .....                             | 137        |
| Initializing an SD memory card.....            | 137        |
| Initializing Flash Memory .....                | 138        |
| Resetting the Printer Settings .....           | 139        |
| Deleting or Updating the Printer Drivers ..... | 140        |
| Deleting a Printer Driver .....                | 140        |
| Updating a Printer Driver .....                | 141        |
| <br>   |            |
| <b>Index .....</b>                             | <b>143</b> |

# 1. Convenient Print Functions

This chapter explains advanced printing operations.

## Memo

- The display and procedure may differ according to the operating system, the applications, and the version of the printer driver you are using. This section uses Notepad and TextEdit in Windows and Mac OS X as examples.

## Reference

- For additional information on the setting items on the printer driver, refer to its online help.

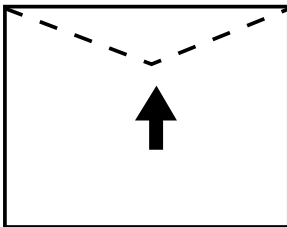
## Printing on Envelopes

You can print on envelopes by changing the paper size setting and using the MP tray and the face up stacker.

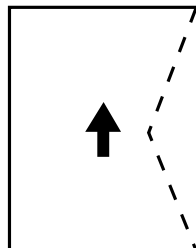
Set the paper size of MP tray on the operator panel, and then make print settings including paper size and paper tray with the printer driver.

## Note

- Warping or creasing may appear after printing. Make sure that there is no problem by test printing.
- Envelopes should be loaded with the address side up.
  - Com-10, DL, and C5 envelopes should be loaded so that the flap is on the top side in the feeding direction.
  - C4 envelope should be loaded so that the flap is on the right side in the feeding direction.



Com-10, DL, C5



C4

## Memo

- Do not select duplex printing on envelopes.

## Reference

- For envelopes that can be used, refer to the User's Manual (Setup).
- Manual printing is also available for printing on envelopes. For details on manual printing, refer to "Manual Printing" P.14.

### 1 Load paper on the MP tray.

#### Reference

- Refer to "Loading Paper" in the User's Manual (Setup).

### 2 Open the face up stacker at the rear of the printer.

### 3 Press the <Fn> key on the operator panel.

### 4 Press the <9>, <0> keys and then press the <ENTER> button.

### 5 Press the scroll button ▼ to select [Envelope\*] and then press the <ENTER> button.

\*Select a type of envelope.

### 6 Press the <ON LINE> button to exit the menu mode.

### 7 Open the file you want to print on the computer.

### 8 Configure the paper size, paper source and orientation in the printer driver and then start printing.

## For Windows PCL Printer Driver

### 1 From the [File] menu, select [Print].

### 2 Click [Preferences] or [Properties].

### 3 On the [Setup] tab, select [Envelope\*] from [Size].

\* Select a type of envelope.

### 4 Select [Multipurpose Tray] from [Source].

### 5 Select orientation at [Orientation].

- Select [Portrait] for side-opening envelopes.

- Select [Landscape] for top-opening envelopes.

### 6 Configure other settings if necessary and then start printing.



## For Windows PS Printer Driver

- 1 From the [**File**] menu, select [**Print**].
- 2 Click [**Preferences**] or [**Properties**].
- 3 On the [**Layout**] tab, select orientation from [**Orientation**].
  - Select [**Portrait**] for side-opening envelopes.
  - Select [**Landscape**] for top-opening envelopes. Click [**Advanced**] and select [**Rotate**] for [**Page Rotate**] on the advanced option screen.
- 4 Select the [**Paper/Quality**] tab.
- 5 Select [**Multi-Purpose Tray**] from [**Source**].
- 6 Click [**Advanced**].
- 7 Click [**Paper Size**] and select [**Envelope\***] from the drop-down list.
  - \* Select a type of envelope.
- 8 Click [**OK**].
- 9 Configure other settings if necessary and then start printing.

## For Windows XPS Printer Driver

- 1 From the [**File**] menu, select [**Print**].
- 2 Click [**Preferences**] or [**Properties**].
- 3 On the [**Setup**] tab, select [**Envelope\***] from [**Size**].
  - \*Select a type of envelope.
- 4 Select [**Multipurpose Tray**] from [**Source**].
- 5 Select orientation at [**Orientation**].
  - Select [**Portrait**] for side-opening envelopes.
  - Select [**Landscape**] for top-opening envelopes.
- 6 Configure other settings if necessary and then start printing.

## For Mac OS X PS Printer Driver

- 1 From the [**File**] menu, select [**Page Setup**].
- 2 Select [**Envelope\***] from [**Paper Size**].
  - \* Select a type of envelope.
- 3 Select orientation from [**Orientation**] and then click [**OK**].
  - Select [**Portrait**] for side-opening envelopes, and the check box of [**180°**] in the [**Job Options**] function set on the [**Printer Features**] panel.
  - Select [**Landscape**] for top-opening envelopes.
- 4 From the [**File**] menu, select [**Print**].
- 5 Select [**Paper Feed**] from the panel menu.
- 6 Select [**All**] and then select [**Multi Purpose Tray**].
- 7 Configure other settings if necessary and then start printing.

### Memo

- If the print dialog contains only two menus and does not contain the options you expect to see on Mac OS X 10.5 or 10.6, click the ▼ button on the side of the [**Printer**] menu.

## Printing on Labels

You can print on labels by changing the media type setting and using the MP tray and the faceup stacker.

Set the paper size and type for MP tray on the operator panel. Then, make print settings including paper size and paper tray with the printer driver.

### Memo

- Do not select duplex printing for labels.

### Reference

- For available labels, refer to the User's Manual (Setup).
- Manual printing is also available for printing on labels. For details on manual printing, refer to "Manual Printing" P.14.

### 1 Load paper on the MP tray.

#### Reference

- Refer to "Loading Paper" in the User's Manual (Setup).

### 2 Open the faceup stacker at the rear of the printer.

#### Memo

- If always printing on labels from the MP tray, register the paper on the operator panel. If printing once, proceed to the printing procedures through the printer driver.

### 3 Press the <Fn> key.

### 4 Enter <9> and <0> using the ten-key pad and press the <ENTER> button.

### 5 Press the scroll button ▼ to select [A4] or [Letter] and then press the <ENTER> button.

### 6 Press the <BACK> button and make sure that [MPTray Config] is displayed.

### 7 Press the scroll button ▼ to select [Media Type] and then press the <ENTER> button.

### 8 Press the scroll button ▼ to select the [Labels] and then press the <ENTER> button.

### 9 Press the <ON LINE> button to exit the menu mode.

### 10 Open the file you want to print on the computer.

### 11 Configure the paper size and tray on the printer driver.

#### For Windows PCL Printer Driver

- From the [**File**] menu, select [**Print**].
- Click [**Preferences**] or [**Properties**].
- On the [**Setup**] tab, select [**A4**] or [**Letter**] from [**Size**].
- Select [**Multipurpose Tray**] from [**Source**].
- Configure other settings if necessary and then start printing.

#### For Windows PS Printer Driver

- From the [**File**] menu, select [**Print**].
- Click [**Preferences**] or [**Properties**].
- Select [**Paper/Quality**] tab.
- Select [**Multi-Purpose Tray**] from [**Paper Feed Source**].
- Click [**Advanced**].
- Click [**Paper Size**] and then select [**A4**] or [**Letter**] from the drop-down list.
- Click [**OK**].
- Configure other settings if necessary and then start printing.

#### For Windows XPS Printer Driver

- From the [**File**] menu, select [**Print**].
- Click [**Preferences**] or [**Properties**].
- On the [**Setup**] tab, select [**A4**] or [**Letter**] from [**Size**].
- Select [**Multipurpose Tray**] from [**Source**].
- Configure other settings if necessary and then start printing.

## For Mac OS X PS Printer Driver

- 1 From the [**File**] menu, select [**Page Setup**].
- 2 Select [**A4**] or [**Letter**] from [**Paper Size**].
- 3 Select [**Print**] from [**File**] menu.
- 4 Select [**Feed Paper**] from the panel menu.
- 5 Select [**All**] and then select [**Multi Purpose Tray**].
- 6 Configure other settings if necessary and then start printing.

### Memo

- If the print dialog contains only two menus and does not contain the options you expect to see on Mac OS X 10.5 or 10.6, click the ▼ button on the side of the [**Printer**] menu.

## Printing on Custom Size Paper

You can register a customized paper size on the printer driver so you can print on nonstandard paper such as banners.

- Settable custom size range  
Width: 64 to 297 mm  
Length: 90 to 1320.8 mm  
Paper sizes that can be fed differ depending on the tray.

### Note

- Register the paper size as portrait, and load paper in portrait orientation.
- For banner media that is over 432 mm long, use the faceup stacker.
- This function may not be available in some applications.
- If paper length exceeds 432 mm, we do not guarantee print quality.
- If paper is so long that it exceeds the paper supports of the MP tray, support it by hand.
- When using tray 1 or tray 2/3/4, select the <ENTER> button on the operator panel>[Menus]>[Tray Configuration]>[Using Tray Config]> [Paper Size]>[Custom] before doing the following procedure.
- If images are not correctly printed on large size paper, selecting [**Standard (600x600dpi)**] for [**Print Quality**], image in the PS printer driver may allow for correct printing.
- Use of paper with a width of less than 100 mm is not recommended. Doing so may cause paper jams.

### Reference

- For details on the paper sizes that can be fed on each tray or used for duplex printing, refer to the User's Manual (Setup).
- The [**Auto Tray Change**] is enabled by default. When the tray runs out of paper during printing, the printer automatically begins feeding paper from that tray. If you want to feed custom paper only from a particular tray, disable auto tray switching. For auto tray change, refer to "Auto Tray Switching" P.28.

## ■ Specifying Custom Sizes

To load custom size paper, you need to register the width and length of the paper before printing. The range of the sizes you can set differs according to the paper tray.

| Tray                  | Available size range  |
|-----------------------|---|
| Tray1                 | Width:<br>105 to 297 mm (4.1 to 11.7 inches)<br>Length:<br>148 to 431 mm (5.8 to 17.0 inches) |
| Tray2/3/4<br>(Option) | Width:<br>148 to 297 mm (5.8 to 11.7 inches)<br>Length:<br>182 to 431 mm (7.2 to 17.0 inches) |

| Tray    | Available size range   |
|---------|--|
| MP tray | Width:<br>64 to 297 mm (2.5 to 11.7 inches)<br>Length:<br>90 to 1321 mm (3.5 to 52.0 inches) |

**Note**

- You can configure the [**Custom**] setting only when [**Paper Size**] is set to [**Custom**].
- The available size range for duplex printing is the same as that for tray 2.

- 1 Press the <**ENTER**> button on the operator panel.
- 2 Press the scroll button ▼ several times to select [**Menus**] and press the <**ENTER**> button.
- 3 Check that [**Tray Configuration**] is selected and press the <**ENTER**> button.
- 4 Press the scroll button ▼ several times to select [**Tray Config**] of the paper tray in which you loaded paper and then press the <**ENTER**> button.
- 5 Check that [**Paper Size**] is selected and press the <**ENTER**> button.
- 6 Press the scroll button ▼ several times to select [**Custom**] and then press the <**ENTER**> button.
- 7 Press the <**BACK**> button.
- 8 Press the scroll button ▼ to select [**X Dimension**] and then press the <**ENTER**> button.
- 9 Enter the paper width value using the ten-key pad and then press the <**ENTER**> button.
- 10 Press the <**BACK**> button.
- 11 Press the scroll button ▼ to select [**Y Dimension**] and then press the <**ENTER**> button.
- 12 Enter the paper length value using the ten-key pad and then press the <**ENTER**> button.
- 13 Press the <**ON LINE**> button to exit the menu mode.

## For Windows PCL Printer Driver

- 1 Click [**Start**] and select [**Devices and Printers**].
- 2 Right-click the *Your Printer* icon and select the type of driver you want to specify from [**Printing preferences**].
- 3 On the [**Setup**] tab, click [**Paper Feed Options**].
- 4 Click [**Custom Size**].
- 5 Enter a name and the dimensions.
  - a Enter a name for the new size in the [**Name**] box.
  - b Enter its dimensions in the [**Width**] and [**Length**] boxes.
- 6 Click [**Add**] to save the custom paper size to the list and then click [**OK**].  
You can save up to 32 custom sizes.
- 7 Press [**OK**] until the [**Printing preferences**] dialog box is closed.
- 8 Open the file you want to print.
- 9 Select the registered paper size in the printer driver, and start printing on the print dialog.

**Reference**

- For how to specify paper in the printer driver, refer to the User's Manual (Setup).

## For Windows PS Printer Driver

- 1 Click [**Start**] and select [**Devices and Printers**].
- 2 Right-click the *Your Printer* icon and select the type of driver you want to specify from [**Printing preferences**].
- 3 On the [**Layout**] tab, click [**Advanced**].
- 4 Click [**Paper Size**] and select [**PostScript Custom Page Size**] from the drop-down list.
- 5 Enter the dimensions in the [**Width**] and [**Height**] boxes, and press [**OK**].
  - ! Note
    - [**Offset for Paper Feeder Size**] is not available.
- 6 Press [**OK**] until the [**Printing preferences**] dialog box is closed.
- 7 Open the file you want to print from the application.
- 8 In the printer driver, select [**PostScript Custom Page Size**] for the paper size and start printing.

### Reference

- For how to specify paper in the printer driver, refer to the User's Manual (Setup).

## For Windows XPS Printer Driver

- 1 Click [**Start**] and select [**Devices and Printers**].
- 2 Right-click the *Your Printer* icon and select the type of driver you want to specify from [**Printing preferences**].
- 3 On the [**Setup**] tab, click [**Paper Feed Options**].
- 4 Click [**Custom Size**].
- 5 Enter a name and the dimensions.
  - a Enter a name for the new size in the [**Name**] box.
  - b Enter its dimensions in the [**Width**] and [**Length**] boxes.
- 6 Click [**Add**] to save the custom paper size to the list and then click [**OK**].

You can save up to 32 custom sizes.
- 7 Press [**OK**] until the [**Printing preferences**] dialog box is closed.
- 8 Open the file you want to print.
- 9 Select the registered paper size and start printing on the print dialog.

### Reference

- For how to specify paper in the printer driver, refer to the User's Manual (Setup).

## For Mac OS X PS Printer Driver

### ! Note

- In the Mac OS X PS printer driver, paper size out of the available range can be set. However, the image will not be printed correctly, so set paper size within available range.

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Page Setup**].
- 3 Select [**Manage Custom Sizes**] from [**Paper Size**].
- 4 Click [**+**] to add an item to the list of custom paper sizes.
- 5 Double-click [**Untitled**] and enter a name for the custom paper size.
- 6 Enter the dimensions in the [**Width**] and [**Height**] boxes.
- 7 Click [**OK**].
- 8 Click [**OK**].
- 9 From the [**File**] menu, select [**Print**].
- 10 Configure other settings if necessary and then start printing.

### Memo

- If the print dialog contains only two menus and does not contain the options you expect to see on Mac OS X 10.5 or 10.6, click the ▼ button on the side of the [**Printer**] menu.

## Manual Printing

You can print a document feeding paper manually on the MP tray. The printer prints on a sheet of paper at a time. Every time a page is printed, the message "**Install Paper MPTray %MEDIA\_SIZE% Press ONLINE Button**" appears. Press the [**ON LINE**] button to continue to print.

- 1 Load paper on the MP tray.

### Reference

- Refer to "Loading Paper" in the User's Manual (Setup).

- 2 Open the file you want to print.
- 3 Configure the manual printing settings in the printer driver, and start printing.

## For Windows PCL Printer Driver

- 1 From the [**File**] menu, select [**Print**].
- 2 Click [**Preferences**] or [**Properties**].
- 3 On the [**Setup**] tab, select [**Multipurpose Tray**] from [**Source**].
- 4 Click [**Paper Feed Options**].
- 5 Select the [**Use MP tray as manual feed**] check box and then click [**OK**].
- 6 Configure other settings if necessary and then start printing.
- 7 When a request message appears on the operator panel for loading paper on the MP tray, press the <**ON LINE**> button.  
If you print a multi-page document, the same message appears every time a page is printed.

## For Windows PS Printer Driver

- 1 From the [**File**] menu, select [**Print**].
- 2 Click [**Preferences**] or [**Properties**].
- 3 Select the [**Paper/Quality**] tab.
- 4 Select [**Multi-Purpose Tray**] from [**Paper Source**].
- 5 Click [**Advanced**].
- 6 Click [**Multipurpose tray is handled as manual feed**] and select [**Yes**] from the drop-down list.
- 7 Click [**OK**].
- 8 Configure other settings if necessary and then start printing on the print dialog.
- 9 If a request message appears on the operator panel for loading paper on the MP tray, press the <**ON LINE**> button.  
If you print a multi-page document, the same message appears every time a page is printed.

## For Windows XPS Printer Driver

- 1 From the [**File**] menu, select [**Print**].
- 2 Click [**Preferences**] or [**Properties**].
- 3 On the [**Setup**] tab, select [**Multipurpose Tray**] from [**Source**].
- 4 Click [**Paper Feed Options**].
- 5 Select the [**Use MP tray as manual feed**] check box and then click [**OK**].
- 6 Configure other settings if necessary and then start printing.
- 7 When a request message appears on the operator panel for loading paper on the MP tray, press the <**ON LINE**> button.  
If you print a multi-page document, the same message appears every time a page is printed.

## For Mac OS X PS Printer Driver

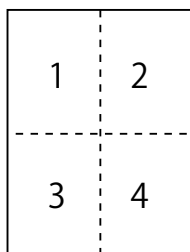
- 1 From the [**File**] menu, select [**Print**].
- 2 Select [**Paper Feed**] from the panel menu.
- 3 Select [**All**] and then select [**Multi Purpose Tray**].
- 4 Select [**Printer Features**] from the panel menu.
- 5 Select [**Paper Feeding Option**] from [**Feature sets**].
- 6 Select [**Multipurpose tray is treated as manual feed**] check box.
- 7 Configure other settings if necessary and then start printing.
- 8 When a request message appears on the operator panel for loading paper on the MP tray, press the <**ON LINE**> button.  
If you print a multi-page document, the same message appears every time a page is printed.

### Memo

- If the print dialog contains only two menus and does not contain the options you expect to see on Mac OS X 10.5 and 10.6, click the ▼ button on the side of the [**Printer**] menu.

## Combining Multiple Pages Onto One Sheet of Paper (Multiple page printing)

You can print multiple pages of a document onto a single side of a sheet of paper.



### ! Note

- This function scales down the page size of your document for printing. The center of the printed image may not be in the center of the paper.
- This function may not be available in some applications.

### For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 On the [**Setup**] tab, select the number of pages to print on each sheet at [**Finishing Mode**].
- 5 Click [**Options**].
- 6 Specify the settings for [**Page per sheet**], [**Page Borders**], [**Page layout**] and [**Bind Margin**], and then click [**OK**].
- 7 Configure other settings if necessary and then start printing.

### For Windows PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 On the [**Layout**] tab, select the number of pages to print on each sheet from [**Pages per Sheet**].
- 5 Specify the following settings.
  - Select the [**Draw Borders**] check box to draw borders between pages on each sheet.
  - Select [**Advanced**] > [**Page per Sheet Layout**] to set the layout of pages on each sheet.

### ! Note

- [**Draw Borders**] and [**Page per Sheet Layout**] are not available with Windows Server 2003, Windows XP, and Windows 2000.

- 6 Configure other settings if necessary and then start printing.

### For Windows XPS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 On the [**Setup**] tab, select the number of pages to print on each sheet at [**Finishing Mode**].
- 5 Click [**Options**].
- 6 Specify the settings for [**Page per sheet**], [**Page Borders**], [**Page layout**] and [**Bind Margin**], and then click [**OK**].
- 7 Configure other settings if necessary and then start printing.



## For Mac OS X PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Select [**Layout**] from the panel menu.
- 4 Select the number of pages to print on each sheet from [**Pages per Sheet**].
- 5 Specify the settings for [**Border**] and [**Layout Direction**].
- 6 Configure other settings if necessary and then start printing.

### Memo

- If the print dialog contains only two menus and does not contain the options you expect to see on Mac OS X 10.5 or 10.6, click the ▼ button on the side of the [**Printer**] menu.

## Duplex Printing

You can print on both sides of a sheet of paper.

- Paper size that can be used for duplex printing  
A3, A4, A5, B4, B5, Letter, Legal 13, Legal 13.5, Legal 14, Executive, Tabloid, 8K (260x368 mm, 270x390 mm, 273x394 mm), 16K (197x273 mm, 195x270 mm, 184x260 mm), Custom size  
A6 can not be used for duplex printing.
- Media weight that can be used for duplex printing  
64 to 220 g/m<sup>2</sup>  
Do not use media weight other than the above. Doing so causes paper jams.

### Note

- This function may not be available in some applications.

### Memo

- The width and length of custom sizes that can be used for duplex printing are as follows.
  - Width: 148 to 297 mm (5.8 to 11.7 inch)
  - Length: 182 to 431.8 mm (7.2 to 17.0 inch)

## For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 On the [**Setup**] tab, select [**Long Edge**] or [**Short Edge**] from [**2-Sided Printing**].
- 5 Configure other settings if necessary and then start printing.

## For Windows PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 On the [**Layout**] tab, select [**Flip on Long Edge**] or [**Flip on Short Edge**] from [**Print on Both Sides**].
- 5 Configure other settings if necessary and then start printing.

## For Windows XPS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 On the [**Setup**] tab, select [**Long Edge**] or [**Short Edge**] from [**2-Sided Printing (Duplex)**].
- 5 Configure other settings if necessary and then start printing.

## For Mac OS X PS Printer Driver

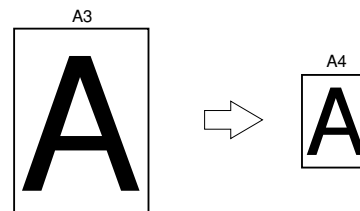
- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Select [**Layout**] from the panel menu.
- 4 Select [**Long-Edge binding**] or [**Short-Edge binding**] from [**Two-Sided**] on the [**Layout**] panel.
- 5 Configure other settings if necessary and then start printing.

### Memo

- If the print dialog contains only two menus and does not contain the options you expect to see on Mac OS X 10.5 or 10.6, click the ▼ button on the side of the [**Printer**] menu.

## Scaling to Pages

You can print data formatted for one size page onto a different size page without modifying the print data.



### ! Note

- This function may not be available in some applications.
- This function is not available with the Windows PS printer driver.

## For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 On the [**Setup**] tab, select the [**Resize document to fit printer page**] check box.
- 5 Select a scaling value from the drop-down list.
- 6 Configure other settings if necessary and then start printing.

## For Windows XPS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 On the [**Setup**] tab, click [**Paper Feed Options**].
- 5 Select the [**Resize document to fit printer page**] check box in [**Fit to Page**].
- 6 Select a scaling value from [**Conversion**] and click [**OK**].
- 7 Configure other settings if necessary and then start printing.

## For Mac OS X PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Select [**Paper Handling**] from the panel menu.
- 4 Select the [**Scale to fit paper size**] check box.
- 5 Select the paper size you want to use from [**Output Paper Size**].
- 6 Configure other settings if necessary and then start printing.

### Memo

- If the print dialog contains only two menus and does not contain the options you expect to see on Mac OS X 10.5 or 10.6, click the ▼ button on the side of the [**Printer**] menu.

## Collating Pages

You can print copies of multiple sets of a multipage document.

### Note

- This function may not be available in some applications.
- Turn off the page collating mode in the application when you use this function with the Windows PS printer driver.

## For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 Select the [**Job Options**] tab.
- 5 Select the number of copies to print from the [**Copies**] scrolling list and select the [**Collate**] check box.
- 6 Configure other settings if necessary and then start printing.

## For Windows PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 Select the [**Job Options**] tab.
- 5 Select the number of copies to print from the [**Copies**] scrolling list and select the [**Collate**] check box.
- 6 Configure other settings if necessary and then start printing.

## For Windows XPS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 Select the [**Job Options**] tab.
- 5 Select the number of copies to print from the [**Copies**] scrolling list and select the [**Collate**] check box.
- 6 Configure other settings if necessary and then start printing.

## For Mac OS X PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Uncheck the [**Collate**] check box and enter the number of copies to print in [**Copies**].  
For Mac OS X 10.3.9 to 10.4.11, deselect the check box of [**Collate**] on the [**Number of printed copies and printed pages**] and enter a number of printed copies in [**Copies**].
- 4 Select [**Printer Features**] from the panel menu.
- 5 Select [**Job Options**] from [**Feature Set**].
- 6 Select the check box of [**Collate**].
- 7 Configure other settings if necessary and then start printing.

### Memo

- If the print dialog contains only two menus and does not contain the options you expect to see on Mac OS X 10.5 or 10.6, click the ▼ button on the side of the [**Printer**] menu.
- Select the [**Collate**] box to print without using the printer memory.

## Setting the Page Order

You can set whether pages are printed in forward or reverse order to suit your needs.

If using a face down stacker, set the printing to run in forward order to stack the paper in the order of the pages.

If using a face up stacker, set the printing to run in the reverse order to stack the paper in the order of the pages.

### Note

- Reverse order is not available with the Windows PCL/XPS printer driver.
- If the face up stacker is not opened, pages are output on the face down stacker.

## For Windows PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 On the [**Layout**] tab, select [**Front to Back**] or [**Back to Front**] from [**Page Order**].
- 5 Configure other settings if necessary and then start printing.

### Memo

- If [**Page Order**] does not appear, click [**Start**] > [**Devices and Printers**] > right-click the *Your Printer* icon > select [**Properties**] > [**Your Printer(PS)**] > [**Advanced**] > [**Enable advanced printing features**].

## For Mac OS X PS Printer Driver

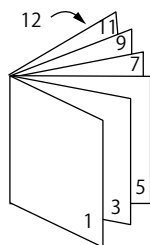
- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Select [**Paper Handling**] from the panel menu.
- 4 Select [**Normal**] or [**Reverse**] from [**Page Order**] on the [**Paper Handling**] panel.
- 5 Configure other settings if necessary and then start printing.

### Memo

- If the print dialog contains only two menus and does not contain the options you expect to see on Mac OS X 10.5 or 10.6, click the ▼ button on the side of the [**Printer**] menu.

## Booklet Printing

You can print multipage documents with their pages ordered and arranged so that the final printed output can be folded into a booklet.



### ! Note

- This function may not be available in some applications.
- This function is not available with Mac OS X printer driver.
- Watermarks are not printed properly with this function.
- This function is invalid when you use the encrypted secure printing mode from a client computer sharing the printer with a print server.

### For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 On the [**Setup**] tab, select [**Booklet**] at [**Finishing Mode**].
- 5 Click [**Options**] and then set the booklet printing options if necessary.
  - [**Signature**]: Specify the number of pages per side of each sheet of paper.
  - [**Right to Left**] Print the booklet for binding on the right.
- 6 Click [**OK**].
- 7 Configure other settings if necessary and then start printing.

### Memo

- When you want to make an A5 booklet using A4 sheets, select [**A4**] for the paper size.
- When you cannot select this function, click [**Start**] > [**Devices and Printers**] > right-click the *Your Printer* icon > select [**Properties**] > [**Your Printer (PCL)**] > [**Advanced**] > [**Print Processor**] > [**OPLAPP3**] > [**OK**].

### For Windows PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 On the [**Layout**] tab, select [**Booklet**] at [**Page Format**].
  - If you want to print boarder lines, select the [**Draw Borders**] check box to draw borders.
- 5 Configure other settings if necessary and then start printing.

### Memo

- When you want to make an A5 booklet using A4 sheets, select [**A4**] for the paper size.
- When making a booklet whose right side is bound (The right side is bound when the first page is the front), click [**Advanced**] on the [**Layout**] tab and select [**Right edge**] for [**Booklet binding**]. [**Booklet binding**] can not be used in Windows XP/ Windows Server 2003/ Windows 2000.
- If you cannot use this function, click [**Start**] > [**Devices and Printers**] > right-click the *Your Printer* icon > select [**Properties**] > [**Your Printer (PS)**] > [**Advanced**] > select the [**Enable advanced printing features**] check box.

### For Windows XPS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 On the [**Setup**] tab, select [**Booklet**] at [**Finishing Mode**].
- 5 Click [**Options**] and then set the booklet print options if necessary.
  - [**Signature**]: Specify the number of pages per side of each sheet of paper.
  - [**Right to Left**] Print the booklet to be opened toward the right hand.
- 6 Click [**OK**].
- 7 Configure other settings if necessary and then start printing.

### Memo

- When you want to make an A5 booklet using A4 sheets, select [**A4**] for the paper size.
- When you cannot select this function, click [**Start**] > [**Devices and Printers**] > right-click the *Your Printer* icon > select [**Properties**] > [**Your Printer (XPS)**] > [**Advanced**] > [**Print Processor**] > [**OPLAPP3**] > [**OK**].

## Cover Printing

You can feed the first page of a print job from one tray and the remaining pages from another tray. This function is useful when you want to use one kind of paper for a cover and another for body pages.

### ! Note

- This function is not available with the Windows PS printer driver.

### For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 On the [**Setup**] tab, click [**Paper Feed Options**].
- 5 Select the [**Use different source for first page**] check box.
- 6 Select a source tray from [**Source**] and click [**OK**].  
If necessary, select a paper weight from the [**Weight**] drop-down list.
- 7 Configure other settings if necessary and then start printing.

### For Windows XPS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 On the [**Setup**] tab, click [**Paper Feed Options**].
- 5 Select the [**Use different source for first page**] check box.
- 6 Select a source tray from [**Source**] and click [**OK**].  
If necessary, select a paper weight from the [**Weight**] drop-down list.
- 7 Configure other settings if necessary and then start printing.

### For Mac OS X PS Printer Driver

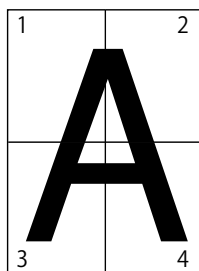
- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Select [**Paper Feed**] from the panel menu.
- 4 Select [**First Page From**] and select source trays for the first page and the remaining pages.
- 5 Configure other settings if necessary and then start printing.

### Memo

- If the print dialog contains only two menus and does not contain the options you expect to see on Mac OS X 10.5 or 10.6, click the ▼ button on the side of the [**Printer**] menu.

## Poster Printing

You can print a poster by dividing a single document into parts and printing it onto multiple sheets of paper. Each part is enlarged and printed on separate sheets of paper. You can then combine the separate sheets to create a poster.



### ! Note

- This function is not available with the Windows PS printer driver and the Mac OS X PS printer driver.
- This function is not available when you use a NetBEUI or IPP network.
- This function is invalid when you use the encrypted secure printing mode from a client computer sharing the printer with a print server.

### Memo

- When making an A3 size poster using two A4 size papers, select [**A4**] for the paper size and [**2**] in [**Enlarge**] respectively.

## For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 On the [**Setup**] tab, select [**PosterPrint**] at [**Finishing Mode**].
- 5 Click [**Options**].
- 6 Set values for [**Enlarge**], [**Add Registration Marks**], or [**Add Overlap**] if necessary and press [**OK**].
- 7 Configure other settings if necessary and then start printing.

### Memo

- If you cannot select this function, click [**Start**]>[**Devices and Printers**]> right-click the *Your Printer* icon > select [**Printer properties**] > [*Your Printer (PCL)*]> [**Advanced**]>[**Print Processor**]>[**OPLAPP3**]>[**OK**].

## For Windows XPS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 On the [**Setup**] tab, select [**PosterPrint**] at [**Finishing Mode**].
- 5 Click [**Options**].
- 6 Set values for [**Enlarge**], [**Add Crop Marks**], or [**Add Overlap**] if necessary and press [**OK**].
- 7 Configure other settings if necessary and then start printing.

## Changing Print Quality (Resolution)

You can change the print quality to suit your needs.



- **[Normal (600x600)]** may produce better results for printing on a larger size of paper with the PS printer driver.

### For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 From the **[File]** menu, select **[Print]**.
- 3 Click **[Preferences]** or **[Properties]**.
- 4 Select the **[Job Options]** tab.
- 5 Select a print quality level at **[Quality]**.
- 6 Configure other settings if necessary and then start printing.

### For Windows PS Printer Driver

- 1 Open the file you want to print.
- 2 From the **[File]** menu, select **[Print]**.
- 3 Click **[Preferences]** or **[Properties]**.
- 4 Select the **[Job Options]** tab.
- 5 Select a print quality level at **[Print Quality]**.
- 6 Configure other settings if necessary and then start printing.

### For Windows XPS Printer Driver

- 1 Open the file you want to print.
- 2 From the **[File]** menu, select **[Print]**.
- 3 Click **[Preferences]** or **[Properties]**.
- 4 Select the **[Job Options]** tab.
- 5 Select a print quality level at **[Print Quality]**.
- 6 Configure other settings if necessary and then start printing.

### For Mac OS X PS Printer Driver

- 1 Open the file you want to print.
- 2 From the **[File]** menu, select **[Print]**.
- 3 Select **[Printer Features]** from the panel menu.
- 4 Select **[Job Options]** from **[Feature sets]**.
- 5 Select a print quality level from **[Print Quality]**.
- 6 Configure other settings if necessary and then start printing.



- If the print dialog contains only two menus and does not contain the options you expect to see on Mac OS X 10.5 or 10.6, click the ▼ button on the side of the **[Printer]** menu.



## Enhancing Photos

You can print photographs more vividly.

### ! Note

- This function is not available with the Windows XPS/PS printer driver and the Mac OS X PS printer driver.

### For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 Select the [**Job Options**] tab.
- 5 Select the [**Photo Enhance**] check box.
- 6 Configure other settings if necessary and then start printing.

## Printing Color Data in Grayscale

You can print color documents in grayscale.

### For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 Select [**Print**] from the [**File**] menu.
- 3 Click on [**Preferences**] or [**Properties**].
- 4 On the [**Setup**] tab, select [**Monochrome**].
- 5 Click on [**OK**].

### Memo

- Selecting [**Monochrome**] on the printer driver enables you to print a color document in grayscale even when the cyan, magenta, and yellow toners are empty.

### For Windows PS Printer Driver

- 1 Open the file you want to print.
- 2 Select [**Print**] from the [**File**] menu.
- 3 Click on [**Preferences**] or [**Properties**].
- 4 Select the [**Color**] tab and select [**Monochrome**].
- 5 Click on [**OK**].

### Memo

- Set grayscale printing on the [**Job Options**] tab when you use the PS printer driver.
- Selecting [**Monochrome**] on the printer driver enables you to print a color document in grayscale even when the cyan, magenta, and yellow toners are empty.

## For Windows XPS Printer Driver

- 1 Open the file you want to print.
- 2 Select [**Print**] from the [**File**] menu.
- 3 Click on [**Preferences**] or [**Properties**].
- 4 Select the [**Color**] tab and select [**Grayscale**].
- 5 Click on [**OK**].



- Selecting [**Grayscale**] on the printer driver enables you to print a color document in grayscale even when the cyan, magenta, and yellow toners are empty.

## For Mac OS X PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Select [**Color**] from the panel menu.
- 4 Select [**Grayscale Print**].
- 5 Click on [**Print**].



- Selecting [**Grayscale Print**] on the printer driver enables you to print a color document in grayscale even when the cyan, magenta, and yellow toners are empty.

## Emphasizing Fine Lines

You can print fine lines and small characters clearer.



- This function is not available with the Windows XPS printer driver.



- This function is turned on by default.
- With some applications, if this function is turned on, the spaces in bar codes may become too narrow. If this happens, turn off this function.

## For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 Select the [**Job Options**] tab.
- 5 Click the [**Advanced**].
- 6 Set the [**Adjust ultra fine lines**] to [**On**] and then click [**OK**].
- 7 Configure other settings if necessary and then start printing.

## For Windows PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 Select the [**Job Options**] tab.
- 5 Click the [**Advanced**].
- 6 Select the [**Adjust ultra fine lines**] check box and then click [**OK**].
- 7 Configure other settings if necessary and then start printing.

## For Mac OS X PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Select [**Printer Features**] from the panel menu.
- 4 Select [**Image Option**] from [**Feature sets**].
- 5 Select the [**Adjust ultra fine lines**] check box.
- 6 Configure other settings if necessary and then start printing.

### Memo

- If the print dialog contains only two menus and does not contain the options you expect to see on the Mac OS X 10.5 or 10.6, click the ▼ button on the side of the [**Printer**] menu.

## Auto Tray Selection

You can set in the printer driver to automatically switch paper feed trays with the same size of paper loaded.

First, set on the operator panel for the MP tray to be available for auto selection. Then, set the auto selection of the tray with the printer driver.

### Note

- Make sure to set a paper size for Tray1, Tray2/3/4 (option) and MP tray. Available paper size differs depending on each tray. For details, refer to the User's Manual (Setup).

### Memo

- In the default settings, the [**Tray Usage**] is [**Do Not Use**]. When at default settings, the MP tray is not supported by the auto tray switching function.

- 1 Press the <Fn> key.

### Memo

- When a printer is in the power saving mode, press the <POWER SAVE> button to restore from the mode.

- 2 Enter <9> and <5> using the ten-key pad and press the <ENTER> button.
- 3 Press the scroll button ▲ to select [**When Mismatching**] and then press the <ENTER> button.
- 4 Press the <ON LINE> button to exit the menu mode.
- 5 Specify a paper tray in the printer driver and start printing.

## For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 On the [**Setup**] tab, select [**Auto**] from [**Source**].
- 5 Configure other settings if necessary and then start printing.

## For Windows PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 Select the [**Paper/Quality**] tab.
- 5 Select [**Automatically Select**] from [**Paper Source**].
- 6 Configure other settings if necessary and then start printing.

## For Windows XPS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 On the [**Setup**] tab, select [**Auto**] from [**Source**].
- 5 Configure other settings if necessary and then start printing.

## For Mac OS X PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Select [**Paper Feed**] from the panel menu.
- 4 Select [**All pages**] and select [**Auto Select**].
- 5 Configure other settings if necessary and then start printing.



- If the print dialog contains only two menus and does not contain the options you expect to see on Mac OS X 10.5 or 10.6, click the ▼ button on the side of the [**Printer**] menu.

## Auto Tray Switching

You can switch paper feed trays automatically.

When a tray runs out of paper while printing, the printer locates another tray with the same size of paper on the printer driver and begins feeding paper from that tray.

This function is effective for large print jobs of the same paper size.

First, set on the operator panel for the MP tray to be available for auto selection. Then, set the auto switching of the tray with the printer driver.



- Make sure to set the same values (paper size, media type, media weight) for each tray used for auto tray switching. Available paper size differs depending on each tray. For details, refer to the User's Manual (Setup).



- In the default settings, the [**Tray Usage**] is [**Do Not Use**]. When at default settings, the MP tray is not supported by the auto tray switching function.

- 1 Press the <Fn> key.



- When a printer is in the power saving mode, press the <POWER SAVE> button to restore from the mode.

- 2 Enter <9> and <5> using the ten-key pad and press the <ENTER> button.
- 3 Press the scroll button ▲ to select [**When Mismatching**] and then press the <ENTER> button.
- 4 Press the <ON LINE> button to exit the menu mode.
- 5 Configure the paper source setting on the print dialog.

## For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 On the [**Setup**] tab, click [**Paper Feed Options**].
- 5 Select the [**Auto Tray Change**] check box in [**Paper Feed Options**] and then click [**OK**].
- 6 Configure other settings if necessary and then start printing.

## For Windows PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 Click [**Advanced**] on the [**Layout**] tab.
- 5 Click [**Tray Switch**] under [**Printer Features**] and select [**On**] from the drop-down list.
- 6 Click [**OK**].
- 7 Configure other settings if necessary and then start printing.

## For Windows XPS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 On the [**Setup**] tab, click [**Paper Feed Options**].
- 5 Select the [**Auto**] check box in [**Tray Change**] and then click [**OK**].
- 6 Configure other settings if necessary and then start printing.

## For Mac OS X PS Printer Driver

### ■ For Mac OS X 10.5 to 10.6

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Select [**Printer Functions**] from the panel menu.
- 4 Select [**Paper Feed Options**] from [**Function sets**].
- 5 Select the [**Auto Tray Switching**] box.
- 6 Configure other settings if necessary and then start printing.

### ■ For Mac OS X 10.3.9 to 10.4.11

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Select [**Error handling**] from the panel menu.
- 4 Select [**Switch to another cassette with the same paper size**].
- 5 Configure other settings if necessary and then start printing.

## Saving Toner

You can print your documents using less toner.

This function controls the amount of toner by brightening up the whole page image.



- The density of the printed images with this function may vary depending on the document being printed.

### For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 On the [**Setup**] tab, select an appropriate value from the drop-down list in [**Toner Saving**].
- 5 Configure other settings if necessary and then start printing.

### For Windows PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 Select the [**Color**] tab.
- 5 Select an appropriate value in [**Toner Save**].
- 6 Configure other settings if necessary and then start printing.

### For Windows XPS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 Select the [**Job Options**] tab.
- 5 Select an appropriate value in [**Toner Save**].
- 6 Configure other settings if necessary and then start printing.

## For Mac OS X PS Printer Driver

### ■ For Mac OS X 10.5 to 10.6

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Select [**Color**] from the panel menu.
- 4 Select an appropriate value in [**Toner Saving**].
- 5 Configure other settings if necessary and then start printing.



- If the print dialog contains only two menus and does not contain the options you expect to see on Mac OS X 10.5 or 10.6, click the ▼ button on the side of the [**Printer**] menu.

### ■ For Mac OS X 10.3.9 to 10.4.11

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Select [**Printer Features**] from the panel menu.
- 4 Select [**Job Options**] in [**Feature sets**].
- 5 Select an appropriate value in [**Toner Saving**].
- 6 Configure other settings if necessary and then start printing.

## Secure Printing


You can assign a password to a print job so it can only be printed if the password is input at the operator panel.

In order to use this function, the printer must be equipped with the optional SD memory card kit.

### ! Note

- If the spooled data cannot be stored in the SD memory card because of a memory shortage, a message indicating that the data is invalid appears.
- This function is not available with the Windows XPS printer driver and the Mac OS X PS printer driver.

## For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 Select the [**Job Options**] tab.
- 5 Select [**Secure Print**] at [**Job Type**].
- 6 Enter a job name in the [**Job Name**] box and a password in the [**Job Password**] box.  
If you select the [**Request Job Name for each print job**] check box, a prompt for the job name appears when you send the print job to the printer.
- 7 Click [**OK**].
- 8 Configure other settings if necessary and then start printing.  
The print job is sent to the printer, but is not printed.
- 9 Press the <Fn> key.  

  - When a printer is in the power saving mode, press the <POWER SAVE> button to restore from the mode.
- 10 Enter <0>, <0> and <2> using the ten-key pad and press the <ENTER> button.

- 11 Enter your password set in the step 6 in the [**Password**] box and then press the <ENTER> button to start a job searching.

- Press the <CLEAR> key if you enter a wrong number.
- Press the <CANCEL> button if you want to stop the job search.


- 12 Make sure that [**Print**] is selected and press the <ENTER> button.  
If you select [**Delete**], you can cancel the print job.

- 13 Enter the number of copies and then press the <ENTER> button.

### ! Note

- If you forget your password set for a job and do not print the job transmitted to the printer, the job remains in the SD memory card.  
For how to delete the job stored in the SD memory card, refer to "[Delete Unwanted Jobs From an SD Memory Card](#)" P.86

## For Windows PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 Select the [**Job Options**] tab.
- 5 Select [**Secure Print**] at [**Job Type**].
- 6 Enter a job name in the [**Job Name**] box and a password in the [**Job Password**] box.  
If you select the [**Request Job Name for each print job**] check box, a prompt for the job name appears when you send the print job to the printer.
- 7 Click [**OK**].
- 8 Configure other settings if necessary and then start printing.  
The print job is sent to the printer, but is not printed.
- 9 Press the <Fn> key.  

  - When a printer is in the power saving mode, press the <POWER SAVE> button to restore from the mode.

- 10** Enter <0>, <0> and <2> using the ten-key pad and press the <ENTER> button.
- 11** Enter your password set in the step 6 in the [**Password**] box and then press the <ENTER> button to start a job searching.
- Press the <CLEAR> key if you enter a wrong number.
  - Press the <CANCEL> button if you want to stop the job search.
- 12** Make sure that [**Print**] is selected and press the <ENTER> button.  
If you select [**Delete**], you can cancel the print job.
- 13** Enter the number of copies and then press the <ENTER> button.

**! Note**

- If you forget your password set for a job and do not print the job transmitted to the printer, the job remains in the SD memory card.  
For how to delete the job stored in the SD memory card, refer to "[Delete Unwanted Jobs From an SD Memory Card](#)" P.86.

## Encrypted Secure Printing

You can encrypt your documents before sending them from a computer to the printer. That way, you can prevent unauthorized access to confidential information.

The document remains unprinted and stored in an encrypted format on the SD memory card in the printer until you enter the registered password at the operator panel.

The print job stored on the SD memory card is automatically deleted after printing or if it is not printed for more than a certain period of time. If an error occurs when the data is sent or if an unauthorized person is detected trying to access the job, it is automatically deleted.

**! Note**

- The period of time a printer is turned off is not included in the storage period of the SD memory.
- If a printer turned off automatically through the sleep mode, the period of time a printer had been in the sleep mode is not included in the storage period of the SD memory card.
- If the spooled data cannot be stored in the SD memory card because of a memory shortage, a message indicating that the data is invalid appears.
- If the spooled data cannot be stored in the SD memory card because of a memory shortage, a message indicating that the data is invalid appears and the print job does not start. In this case, shortening the storing period of a print job specified in a printer driver prevents spooled data from increasing.
- This function is not available with the Windows XPS printer driver and the Mac OS X PS printer driver.
- You cannot use this function with the poster printing mode and the booklet mode with the Windows PCL printer driver if you share the printer with a print server.
- When you use this function, clear the [**Give Priority to the host release**] check box. For details, refer to "[Using a Print Buffer](#)" P.40.
- [**Start**] > [**Devices and Printers**] > the *Your Printer* icon > [**Printer properties**] > [*Your Printer(PS)*] > [**Device Settings**] > [**Print only Encrypted print data**] can not be enabled with Windows 7 and Windows Server 2008 R2.
- [**Start**] > [**Operator panel**] > [**Printers**] > the *Your Printer* icon > [**Properties**] > [*Your Printer(PS)*] > [**Device Settings**] > [**Print only Encrypted print data**] can not be enabled with Windows Server 2008 and Windows Vista.



## For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 Select the [**Job Options**] tab.
- 5 Select [**Encrypted Secure Print**].
- 6 Enter a password in the [**Password**] box and configure other options if necessary.

### Reference

- For details on the options, refer to the on-screen explanations of the driver.

- 7 Click [**OK**].
- 8 Configure other settings if necessary and then start printing.  
The print job is sent to the printer, but is not printed.

- 9 Press the <Fn> key.

### Memo

- When a printer is in the power saving mode, press the <POWER SAVE> button to restore from the mode.

- 10 Enter <0>, <0> and <1> using the ten-key pad and press the <ENTER> button.
- 11 Enter the password you set in step 6 in the [**Password**] box and then press the <ENTER> button to start a job searching.
  - Press the <CLEAR> key if you enter a wrong number.
  - Press the <CANCEL> button if you want to stop the job search.
- 12 Make sure that [**Print**] is selected and press the <ENTER> button.  
If you select [**Delete**], you can delete the print job, and all of the encrypted jobs with the same password are deleted as well.

## For Windows PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 Select the [**Job Options**] tab.
- 5 Select [**Encrypted Secure Print**].
- 6 Enter a password in the [**Password**] box and configure other options if necessary.

### Reference

- For details on the options, refer to the on-screen explanations of the driver.

- 7 Click [**OK**].
- 8 Configure other settings if necessary and then start printing.  
The print job is sent to the printer, but is not printed.

- 9 Press the <Fn> key.

### Memo

- When a printer is in the power saving mode, press the <POWER SAVE> button to restore from the mode.

- 10 Enter <0>, <0> and <1> using the ten-key pad and press the <ENTER> button.
- 11 Enter the password you set in step 6 in the [**Password**] box and then press the <ENTER> button to start a job searching.
  - Press the <CLEAR> key if you enter a wrong number.
  - Press the <CANCEL> button if you want to stop the job search.
- 12 Make sure that [**Print**] is selected and press the <ENTER> button.  
If you select [**Delete**], you can delete the print job, and all of the encrypted jobs with the same password are deleted as well.

## Watermark Printing

You can print a watermark in addition to the text of the printed file.

### ! Note

- This function is not available with the Mac OS X PS printer driver.
- Watermarks are not printed properly for booklet printing.

### For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 Select [**Extend**] tab.
- 5 Click [**Watermarks**].
- 6 Click [**New**].
- 7 Specify a text, size, angle, trim and position for the watermark and then click [**OK**].
- 8 Click [**OK**].
- 9 Configure other settings if necessary and then start printing.

### For Windows PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 Select [**Job Options**] tab.
- 5 Click [**Watermark**].
- 6 Click [**New**].
- 7 Specify a text, size, angle, trim and position for the watermark and then click [**OK**].
- 8 Click [**OK**].

- 9 Configure other settings if necessary and then start printing.

### ! Note

- Watermarks are printed over the text or images of documents in the default settings with the Windows PS. printer driver. To print in the background of documents, check the [**In Background**] box in the [**Watermark**] window. When the [**Background**] is checked on the [**Watermark**] window, depending on an application you use, the watermark may not be printed. In such a case, uncheck [**Background**].

### For Windows XPS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 Select [**Job Options**] tab.
- 5 Click [**Watermarks**].
- 6 Click [**New**].
- 7 Specify a text, size, angle, trim and position for the watermark and then click [**OK**].
- 8 Click [**OK**].
- 9 Configure other settings if necessary and then start printing.

## Overlay Printing

You can print overlays such as logos or forms on documents.

In order to use this function, the printer must be equipped with the optional SD memory card kit.

### ! Note

- This function is not available with the Windows XPS printer driver and the Mac OS X PS printer driver.
- To use this function on a Windows PS printer driver, you need to log into your computer as an administrator.

### Reference

- For details of the Configuration Tool and how to install the Configuration Tool, refer to "Configuration Tool" P.83.

- 1 Create an overlay with the Configuration Tool and register it on the printer.

### Reference

- "Printing Out Print Information" P.63.

- 2 Define the overlay on the printer driver and start printing.

## For Windows PCL Printer Driver

### Memo

- Overlay is a group of forms. Three forms can be registered in an overlay. The forms are printed overlaid in the order that they were registered. The form registered last is printed at the top.

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 Select the [**Extend**] tab.
- 5 Click [**Overlays**].
- 6 Select the [**Print Using Active Overlays**] check box.
- 7 Click [**Define Overlays**].
- 8 Enter a name for the overlay in [**Overlay Name**].
- 9 Enter the ID of the form you registered in the Configuration Tool in the [**ID**].
- 10 Select the pages of the document on which to print the overlay from the [**Print on Pages**] drop-down list.
- 11 Click [**Add**].

- 12 Click [**Close**].

- 13 Select the overlay to use from the [**Defined Overlays**] and click [**Add**].

- 14 Click [**OK**].

- 15 Configure other settings if necessary and then start printing.

### Reference

- "Configuration Tool" P.83.

## For Windows PS Printer Driver

### Memo

- An overlay is a form group. You can register three forms with one overlay.

- 1 Click [**Start**] and select [**Devices and Printers**].
- 2 Right-click the *Your Printer* icon and select the type of driver you want to specify from [**Printing preferences**].
- 3 Select the [**Job Options**] tab.
- 4 Click [**Overlay**].
- 5 Select [**Use Overlay**] from the drop-down list and click [**New**].
- 6 Enter the exact name of the overlay you registered in the Configuration Tool in the [**Form Name**] box and click [**Add**].
- 7 Enter a name for the overlay in the [**Overlay Name**] box
- 8 Select the page of the document on which to print the overlay from the [**Print on Pages**] drop-down list.
- 9 Click [**OK**].
- 10 Select the overlay to use from the [**Defined Overlay**] list and then click [**Add**].
- 11 Click [**OK**].
- 12 Click [**OK**] to close the print setup dialog box.
- 13 Open the file you want to print.
- 14 Start printing on the print dialog.

### Reference

- "Configuration Tool" P.83.

## Storing Print Data

You can store print data on the SD memory card installed on the printer and print it as needed from the operator panel by entering a password.

### ! Note

- If the spooled data cannot be stored in the SD memory card because of a memory shortage, a message indicating that the data is invalid appears
- This function is not available with the Windows XPS printer driver and the Mac OS X PS printer driver

### For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 Select the [**Job Options**] tab.
- 5 Check [**Store to SD**].
- 6 Enter a job name in the [**Job Name**] box and a password in the [**Job Password**] box.  
If you check the [**Request Job Name for each print job**] box, a prompt for the job name appears when you send the job to the printer.
- 7 Click [**OK**].
- 8 Configure other settings if necessary and then start printing.  
The print job is sent to the printer, but is not printed.
- 9 Press the <Fn> key.  
**Memo**  
• When a printer is in the power saving mode, press the <POWER SAVE> button to restore from the mode.
- 10 Enter <0>, <0> and <2> using the ten-key pad and press the <ENTER> button.

- 11 Enter the password you set in step 6 in the [**Password**] box and then press the <ENTER> button to start a job searching.

- Press the <CLEAR> key if you enter a wrong number.
- Press the <CANCEL> button if you want to stop the job search.

- 12 Make sure that [**Print**] is selected and then press the <ENTER> button.

If you select [**Delete**], you can delete the print job.

- 13 Enter the number of copies and then press the <ENTER> button.

### Reference

- You can delete stored print data with the Configuration Tool. For details, refer to "Delete Unwanted Jobs From an SD Memory Card" P.86.

### For Windows PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 Select the [**Job Options**] tab.
- 5 Check [**Store to SD**].
- 6 Enter a job name in the [**Job Name**] box and a password in the [**Job Password**] box.  
If you check the [**Request Job Name for each print job**] box, a prompt for the job name appears when you send the job to the printer.
- 7 Click [**OK**].
- 8 Configure other settings if necessary and then start printing.  
The print job is sent to the printer, but is not printed.
- 9 Press the <Fn> key.  
**Memo**  
• When a printer is in the power saving mode, press the <POWER SAVE> button to restore from the mode.
- 10 Enter <0>, <0> and <2> using the ten-key pad and press the <ENTER> button.

**11** Enter the password you set in step 6 in the [**Password**] box and then press the <**ENTER**> button to start a job searching.

- Press the <**CLEAR**> key if you enter a wrong number.
- Press the <**CANCEL**> button if you want to stop the job search.

**12** Make sure that [**Print**] is selected and then press the <**ENTER**> button.

If you select [**Delete**], you can delete the print job.

**13** Enter the number of copies and then press the <**ENTER**> button.

#### Reference

- You can delete stored print data with the Configuration Tool. For details, refer to "Delete Unwanted Jobs From an SD Memory Card" P.86.

## Saving the Driver Settings

You can save the printer driver settings.

#### Note

- This function is not available with the Windows PS printer driver and the Mac OS X PS printer driver.

### For Windows PCL Printer Driver

#### ■ Saving the Settings

- 1 Click [**Start**] and select [**Devices and Printers**].
- 2 Right-click the *Your Printer* icon and then select the type of driver you want to specify from [**Printing preferences**].
- 3 Configure the print settings to save.
- 4 On the [**Setup**] tab, select [**Current setting**] from the drop-down list in [**Driver Setting**] and then click [**Save**].
- 5 Specify a name for the setting to save and then click [**OK**].  
If you select the [**Form information is kept.**] check box, the paper configuration on the [**Setup**] tab is also saved.
- 6 Click [**OK**] to close the print setup dialog box.

#### Memo

- Up to 14 forms can be stored.

#### ■ Using the Saved Settings

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 On the [**Setup**] tab, select a setting you want to use from [**Driver Setting**].
- 5 Start printing.

## For Windows XPS Printer Driver

### ■ Saving the Settings

- 1 Click [**Start**] and select [**Devices and Printers**].
- 2 Right-click the *Your Printer* icon and then select the type of driver you want to specify from [**Printing preferences**].
- 3 Configure the print settings to save.
- 4 On the [**Setup**] tab, click [**Save**] at [**Driver Settings**].
- 5 Specify a name for the setting to save and then click [**OK**].  
If you select the [**Keep form information.**] check box, the paper configuration on the [**Setup**] tab is also saved.
- 6 Click [**OK**] to close the print setup dialog box.



- Up to 14 forms can be stored.

### ■ Using the Saved Settings

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 On the [**Setup**] tab, select a setting you want to use from [**Driver Settings**].
- 5 Start printing.

## Changing the Driver's Default Settings

You can use as the printer driver's default settings print settings that you often use.

### For Windows Printer Driver

- 1 Click [**Start**] and select [**Devices and Printers**].
- 2 Right-click the *Your Printer* icon and then select the type of driver you want to change from [**Printing preferences**].
- 3 Configure the print settings to use as the driver's default setting.
- 4 Click [**OK**].

### For Mac OS X PS Printer Driver

- 1 Open a file.
- 2 From the [**File**] menu, select [**Print**].
- 3 Configure the print settings to use as the driver's default settings.
- 4 Select [**Save As**] from [**Presets**].
- 5 Enter a name for the settings and click [**OK**].
- 6 Click [**Cancel**].



- To use the saved settings, select the name from [**Presets**] in the print dialog.

## Using Printer Fonts

You can print your documents using pre-installed printer fonts by substituting them for TrueType fonts in the computer.

### ! Note

- The printer fonts do not exactly duplicate the appearance of the TrueType fonts seen on screen.
- This function is not available with the Windows XPS printer driver and the Mac OS X PS printer driver.
- To use this function with the Windows PS printer driver you must be logged on your computer as an administrator.
- This function is not available in some applications.

### For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 Select the [**Extend**] tab.
- 5 Click [**Fonts**].
- 6 Select the [**Font Substitution**] check box.
- 7 Specify which printer fonts to use instead of TrueType fonts in the [**Font Substitution Table**].
- 8 Click [**OK**].
- 9 Configure other settings if necessary and then start printing.

### For Windows PS Printer Driver

- 1 Click [**Start**] and select [**Devices and Printers**].
- 2 Right-click the *Your Printer* icon and then select [**Printer properties**] > [*Your Printer(PS)*].
- 3 Select the [**Device Settings**] tab.
- 4 Specify which printer fonts to use instead of TrueType fonts in the [**Font Substitution Table**].  
To specify the font substitution, click each TrueType font and select a printer font to substitute that with from the pull-down menu.
- 5 Click [**OK**].
- 6 Open the file you want to print.
- 7 From the [**File**] menu, select [**Print**].
- 8 Click [**Preferences**] or [**Properties**].
- 9 On the [**Layout**] tab, click [**Advanced**].
- 10 Select [**Substitute with Device Font**] at [**TrueType Font**] and then click [**OK**].
- 11 Configure other settings if necessary and then start printing.

## Using Computer Fonts

You can print your documents using TrueType fonts in the computer to retain the same font appearance as on the computer screen.

### ! Note

- This function is not available with the Windows XPS printer driver and the Mac OS X PS printer driver.

### For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 Select the [**Extend**] tab.
- 5 Click [**Fonts**].
- 6 Deselect the [**Font Substitution**] check box, select either of the following fonts and then click [**OK**].
  - [**Download as Outline Font**]  
Font images are created by the printer.
  - [**Download as Bitmap Font**]  
Font images are created by the printer driver
- 7 Configure other settings if necessary and then start printing.

### For Windows PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 On the [**Layout**] tab, click [**Advanced**].
- 5 Click [**TrueType Font**] and select [**Download as Softfont**] from the drop-down list.
- 6 Click [**OK**].
- 7 Configure other settings if necessary and then start printing.

## Using a Print Buffer

You can spool a print job in the SD memory card installed in the printer. This function frees memory on your computer so it can handle other tasks faster while the printer is running in the background.

### ! Note

- If the spooled data cannot be stored in the SD memory card because of a memory shortage, a message indicating that the data is invalid appears.
- This function is not available with the Windows XPS printer driver and the Mac OS X PS printer driver.

### For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 Select the [**Job Options**] tab.
- 5 Click [**Advanced**].
- 6 Scroll the screen downward, the [**Give application priority when collating**] to [**On**] and click [**OK**].
- 7 Start printing on the print dialog.

### For Windows PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 Select the [**Job Options**] tab.
- 5 Click [**Advanced**].
- 6 Select the [**Priority is given to AP collation**] check box and click [**OK**].
- 7 Start printing on the print dialog.



## Changing the Mono-Print Mode

You can adjust the print mode for monochrome pages.



- To enter the [**Admin Setup**] menu, an administrator password is necessary. The default password is "aaaaaa".

- Press the <**ENTER**> button on the operator panel.
- Press the scroll button ▼ to select [**Admin Setup**] and then press the <**ENTER**> button.
- Enter the administrator password using the ten-key pad.
- Press the <**ENTER**> button.
- Press the scroll button ▼ to select [**Print Setup**] and then press the <**ENTER**> button.
- Press the scroll button ▼ to select [**Mono-Print Mode**] and then press the <**ENTER**> button.
- Select a speed mode and then press the <**ENTER**> button.
  - [**Auto**]:  
When the first page is a monochrome page, it is printed only with a black image drum, and when a color page appears, it is printed with four color image drums. After that, even a monochrome page is printed using four color image drums.
  - [**Color Mode**]:  
Always printed with four color image drums.
  - [**Normal Mode**]:  
For a monochrome page, it is printed with a black image drum, and for a color page, it is printed with four color image drums.
- Press the <**ON LINE**> button to exit the menu mode.

## Printing to File

You can print a document to a file, without printing it out on paper.



- You must be logged on your computer as an administrator.

### For Windows Printer Driver

- Click [**Start**] and select [**Devices and Printers**].
- Right-click the *Your Printer* icon and then select the type of driver you want to use from [**Printer properties**].
- Select the [**Ports**] tab.
- Select [**FILE:**] from the port list and click [**OK**].
- Start printing on the print dialog.
- Enter the name of a file and then click [**OK**].

### For Mac OS X PS Printer Driver

- Open the file you want to print.
- From the [**File**] menu, select [**Print**].
- Click [**PDF**] on the print dialog and select a file format.
- Enter the name of a file and select where to save it in and click [**Save**].

## Downloading PS Files

You can download PostScript files to the printer and print them.

### ! Note

- This function is available only when you are using a TCP/IP network.

### For OKI LPR Utility

---

- 1 Launch the OKI LPR Utility.
- 2 Select [**Download**] from the [**Remote Print**] menu.
- 3 Select the file to download and click [**Open**].  
After finishing the download, the PostScript file is printed.

## Printing Out PS Errors

You can print out the details of PostScript errors when they occur.

### ! Note

- This function is not available with the Windows PCL printer driver and the Windows XPS printer driver.

### For Windows PS Printer Driver

---

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Preferences**] or [**Properties**].
- 4 On the [**Layout**] tab, click [**Advanced**].
- 5 Click [**Send PostScript Error Handler**] under [**PostScript Options**] and select [**Yes**] from the drop-down list.
- 6 Click [**OK**] until the print setup dialog box is closed.

### For Mac OS X PS Printer Driver

---

### ! Note

- This function is not available with the Mac OS X 10.5 or 10.6.

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Select [**Error Handling**] from the panel menu.
- 4 Select [**Print detailed report**] at [**PostScript Errors**].
- 5 Click [**Print**].

## Changing Emulation Mode

You can select the emulation mode.



- To enter the [**Admin Setup**] menu, an administrator password is necessary. The default password is "aaaaaa".
- 1 Press the <**ENTER**> button on the operator panel.
  - 2 Press the scroll button ▼ to select [**Admin Setup**] and then press the <**ENTER**> button.
  - 3 Enter the administrator password using the ten-key pad.
  - 4 Press the <**ENTER**> button.
  - 5 Press the scroll button ▼ to select [**Print Setup**] and then press the <**ENTER**> button.
  - 6 Make sure that [**Personality**] is selected and then press the <**ENTER**> button.
  - 7 Press the scroll button ▼ to select an emulation mode and then press the <**ENTER**> button.
  - 8 Press the <**ON LINE**> button to exit the menu mode.

# 2. Adjusting Color

This chapter explains various color adjustment methods.

 Memo

- In this chapter, Notepad will be used as an example of Windows, and TextEdit will be used as an example for Mac OS X. The operation may differ depending on the application or the version of the printer driver you are using.

## ■ Adjusting Color on the Control Panel

This section explains the method of adjusting color for the printer using the control panel.

### Adjusting Color Registration

The printer automatically adjusts the color registration when the AC cord is plugged or unplugged, the top cover is opened or closed, and every time 400 pages are printed continuously.

You can also adjust the color registration manually if you are not satisfied with the quality of the color on the printouts.

- 1 Press the <Fn> key.

 Memo

- When a printer is in the power saving mode, press the <POWER SAVE> button to restore from the mode.
- 2 Enter <3>, <0> and <1> using the ten-key pad and press the <ENTER> button.
  - 3 Make sure that [Execute] is selected and then press the <ENTER> button.

 Memo

- The message [Color Adjusting] appears in the second line (under [Ready To Print]) of the operator panel display while adjusting the color registration.

### Adjusting the Density

The printer automatically adjusts the density when a toner cartridge, an image drum cartridge or a belt is changed and every time 500 pages are printed continuously.

You can also adjust the density manually if you are not satisfied with the density of the printouts.

- 1 Press the <Fn> key.

 Memo

- When a printer is in the power saving mode, press the <POWER SAVE> button to restore from the mode.
- 2 Enter <3>, <0> and <0> using the ten-key pad and press the <ENTER> button.
  - 3 Make sure that [Execute] is selected and then press the <ENTER> button.

 Memo

- The message [Density Adjusting] appears in the second line (under [Ready To Print]) of the operator panel display while adjusting the color density.

## Adjusting the Color Balance (Density)

You can adjust the density of each color. You can select a light, medium, or dark density for each color.

### Printing Color Swatch

- 1 Press the <Fn> key.



- When a printer is in the power saving mode, press the <POWER SAVE> button to restore from the mode.

- 2 Enter <3>, <0> and <2> using the ten-key pad and press the <ENTER> button.

- 3 Make sure that [Execute] is selected and then press the <ENTER> button.

A color swatch is printed.



- On the color tuning pattern, 44 squares are printed. The present setting of the light, medium, and dark colors are indicated with dashed lines. You can check the color to be adjusted.

### Adjusting the Color

- 1 Press the <ENTER> button.
- 2 Press the scroll button ▼ to select [Calibration] and then press the <ENTER> button.
- 3 Press the scroll button ▼ to select [Cyan Darkness], [Magenta Darkness], [Yellow Darkness] or [Black Darkness], and then press the <ENTER> button.
- 4 Press the scroll button ▼ to select [Highlight], [Mid-Tone] or [Dark], and then press the <ENTER> button.
- 5 Press the scroll button ▲ or ▼, select the value you want and then press the <ENTER> button.
- 6 Press the <ON LINE> button to exit the menu mode.

## ■ Adjusting Color on the Computer

This section explains how to adjust color when printing. You can adjust the color using a printer driver to print out more satisfactory documents.

Color Matching means managing and adjusting documents color to keep it consistent between input and output devices.

There are two color matching functions: **[Office Color]** and **[Graphic Pro]** (**[Color (User Settings)]** if you use a XPS driver). If you use Mac OS X, you can also use **[ColorSync]** function to do color matching.

### Color Matching (Automatic)

If you use business documents mainly, Automatic is suitable. Color matching is applied when RGB color space print data is converted to CMYK color space for the printer.

#### ! Note

- This function can support only RGB color data.
- If you want to manage CMYK color data, use the Graphic Pro function.

### For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 Select **[Print]** from the **[File]** menu.
- 3 Click on **[Preferences]** or **[Properties]**.
- 4 Click **[Detail]** on the **[Color Setting]** and select **[Automatic]**, and then click **[OK]**.

### For Windows PS Printer Driver

- 1 Open the file you want to print.
- 2 Select **[Print]** from the **[File]** menu.
- 3 Click on **[Preferences]** or **[Properties]**.
- 4 Select **[Color]** tab and select **[Automatic]**, and then click **[OK]**.

### For Windows XPS Printer Driver

- 1 Open the file you want to print.
- 2 Select **[Print]** from the **[File]** menu.
- 3 Click on **[Preferences]** or **[Properties]**.
- 4 On the **[Color]** tab, select **[Auto Color]** and then click **[OK]**.

### For Mac OS X PS Printer Driver

- 1 Open the file you want to print.
- 2 From the **[File]** menu, select **[Print]** .
- 3 Select **[Color]** from the panel menu.
- 4 Select **[Automatic]** and then click **[Print]**.

#### Memo

- If the printer options are not displayed in the **[Print]** dialog on Mac OS X 10.5 or later, click the ▼ button on the side of the **[Printer]** menu.

## Color Matching (Office Color)

If you use business documents mainly, Office Color is suitable. Color matching is applied when RGB color space print data is converted to CMYK color space for the printer.

### ! Note

- This function can support only RGB color data.
- If you want to manage CMYK color data, use the Graphic Pro function.

### For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 Select [**Print**] from the [**File**] menu.
- 3 Click on [**Preferences**] or [**Properties**].
- 4 Click [**Detail**] on the [**Color Setting**] and select [**Office Pro**], and then click [**OK**].

### For Windows PS Printer Driver

- 1 Open the file you want to print.
- 2 Select [**Print**] from the [**File**] menu.
- 3 Click on [**Preferences**] or [**Properties**].
- 4 Select [**Color**] tab and select [**Office Color**], and then click [**OK**].

### For Windows XPS Printer Driver

- 1 Open the file you want to print.
- 2 Select [**Print**] from the [**File**] menu.
- 3 Click on [**Preferences**] or [**Properties**].
- 4 On the [**Color**] tab, select Color [**Advanced Color**] and then click [**OK**].

### For Mac OS X PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**] .
- 3 Select [**Color**] from the panel menu.
- 4 Select [**Office Color**] or [**Automatic**] and then click [**Print**].

### Memo

- If the printer options are not displayed in the [**Print**] dialog on Mac OS X 10.5 or later, click the ▼ button on the side of the [**Printer**] menu.

## Color Matching (Graphic Pro)

The Graphic Pro function is suitable for using the DTP software. You can specify the simulation of printing with the CMYK output devices.

If using ICC profiles for an input/output device in a color matching, registering an ICC profiles in a printer is required in advance. For registering ICC profiles, refer to "Registering an ICC Profile" P.84.

### Note

- Link profiles for CMYK cannot be specified with the Windows PCL printer driver.
- When installing ICC profiles with the Windows PC printer driver, on the [Layout] tab, click [Advanced] and select [ICM Method] in [ICM Disabled].
- This function is not available with the Windows XPS printer driver

### For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 Select [**Print**] from the [**File**] menu.
- 3 Click on [**Preferences**] or [**Properties**].
- 4 Click [**Detail**] on the [**Color Setting**] and select [**Graphic Pro**], and then click [**OK**].

### For Windows PS Printer Driver

- 1 Open the file you want to print.
- 2 Select [**Print**] from the [**File**] menu.
- 3 Click on [**Preferences**] or [**Properties**].
- 4 Select [**Color**] tab and select [**Graphic Pro**], and then click [**OK**].

### For Mac OS X PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Select [**Color**] from the panel menu.
- 4 Select [**Graphic Pro**] or [**Automatic**] and then click [**Print**].

### Memo

- If the printer options are not displayed in the [**Print**] dialog on Mac OS X 10.5 or later, click the ▼ button on the side of the [**Printer**] menu.

## Color Matching (No Color Matching)

You can print in the specified color without colors being adjusted by a printer or a printer driver. This function is suitable for colors matched with an application.

### For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 Select [**Print**] from the [**File**] menu.
- 3 Click on [**Preferences**] or [**Properties**].
- 4 Click [**Detail**] on the [**Color Setting**] and select [**No Color Matching**], and then click [**OK**].

### For Windows PS Printer Driver

- 1 Open the file you want to print.
- 2 Select [**Print**] from the [**File**] menu.
- 3 Click on [**Preferences**] or [**Properties**].
- 4 Select [**Color**] tab and select [**No Color Matching**], and then click [**OK**].

### For Windows XPS Printer Driver

- 1 Open the file you want to print.
- 2 Select [**Print**] from the [**File**] menu.
- 3 Click on [**Preferences**] or [**Properties**].
- 4 Select the [**Color**] tab and select [**Advanced Color**].
- 5 Select [**Disabled**] in [**Color Matching**] and then click [**OK**].



## For Mac OS X PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Select [**Color**] from the panel menu.
- 4 Select [**No Color Matching**] or [**Automatic**] and then click [**Print**].

### Memo

- If the printer options are not displayed in the [**Print**] dialog on Mac OS X 10.5 or later, click the ▼ button on the side of the [**Printer**] menu.

## Changing Black Finish

You can change the black finish when printing in color. The black finish setting can be used when [**Office Color**] or [**Graphic Pro**] is selected in the printer driver.

There are two types of black finish: composite black (made from CMYK toner) and true black (made from black toner only).

There are two types of black finishes; one is composed of cyan (C), magenta (M), yellow (Y) and black (K) toners, and the other is composed of a black (K) toner only. A black finish using CMYK toners is suitable for printing photographs. A black finish using a black toner only is suitable for printing black text or graphics.

If you use the [**Office Color**] function, you can also select the auto. For the auto, the suitable method is selected automatically to print out the document. If Automatic is selected the appropriate method will be set when printing.

## For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 Select [**Print**] from the [**File**] menu.
- 3 Click on [**Preferences**] or [**Properties**].
- 4 Click [**Detail**] on the [**Color Setting**] and select [**Office Pro**] or [**Graphic Pro**].
- 5 Select the method to create black from [**Black Finish**].
- 6 Click [**OK**] to close the Details window.
- 7 Click on [**OK**].

## For Windows PS Printer Driver

- 1 Open the file you want to print.
- 2 Select [**Print**] from the [**File**] menu.
- 3 Click on [**Preferences**] or [**Properties**].
- 4 Select [**Color**] tab and select [**Office Color**] or [**Graphic Pro**] and then click [**Detail**].
- 5 Select the method to create black from [**Black Finish**].
- 6 Click [**OK**] to close the Details window.
- 7 Click on [**OK**].

## For Windows XPS Printer Driver

- 1 Open the file you want to print.
- 2 Select [**Print**] from the [**File**] menu.
- 3 Click on [**Preferences**] or [**Properties**].
- 4 Select the [**Color**] tab.
- 5 Select the [**Advanced Color**], then select a method to create black from [**Black Finish**].
- 6 Click on [**OK**].

## For Mac OS X PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Select [**Color**] from the panel menu.
- 4 Select [**Office Color**] or [**Graphic Pro**] and then click [**Details**].
- 5 Select the method to create black from [**Black Finish**].
- 6 Click on [**OK**].

### Memo

- If the printer options are not displayed in the [**Print**] dialog on Mac OS X 10.5 or later, click the ▼ button on the side of the [**Printer**] menu.

## Eliminating White Gap Between Text and Background (Overprinting black)

Depending on the conditions of use, you can set black to overprint and reduce the white gap between black letters and colored background.

### Note

- This function cannot be used with some applications.
- This function can be used when printing only text over a background color.
- If the toner layer is thick, the toner may not be fixed firmly.

## For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 Select [**Print**] from the [**File**] menu.
- 3 Click on [**Preferences**] or [**Properties**].
- 4 On the [**Job Options**] tab, Select [**Advanced**].
- 5 Set [**Overprint Black**] to [**On**] and then click [**OK**].

## For Windows PS Printer Driver

- 1 Open the file you want to print.
- 2 Select [**Print**] from the [**File**] menu.
- 3 Click on [**Preferences**] or [**Properties**].
- 4 Select the [**Color**] tab and select [**Advanced**].
- 5 Select the [**Black Overprint**] check box.

## For Windows XPS Printer Driver

- 1 Open the file you want to print.
- 2 Select [**Print**] from the [**File**] menu.
- 3 Click on [**Preferences**] or [**Properties**].
- 4 Select the [**Job Options**] tab and select [**Advanced**].
- 5 Select the [**Overprint Black**] check box.

## For Mac OS X Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Select [**Color**] from the panel menu.
- 4 Select [**Advanced**] and then select [**Black Overprint**] check box.

## Simulating Printing Results for Ink

You can simulate output such as that of an offset printing press by adjusting the CMYK color data.

### ! Note

- Windows XPS printer driver cannot be used for this function.
- Mac OS X printer driver may not be available depending applications.
- This function can be used when the [**Office Color**] or [**Graphic Pro**] is selected for [**Color Mode**].

## For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 Select [**Print**] from the [**File**] menu.
- 3 Click on [**Preferences**] or [**Properties**].
- 4 Click [**Detail**] on the [**Color Setting**] and select [**Graphic Pro**].
- 5 Select [**Printer Simulation**].
- 6 Select an ink feature you want to simulate from [**Simulation Target Profile**] on [**Input Profile**] and click [**OK**].

## For Windows PS Printer Driver

- 1 Open the file you want to print.
- 2 Select [**Print**] from the [**File**] menu.
- 3 Click on [**Preferences**] or [**Properties**].
- 4 Select the [**Color**] tab and select [**Graphic Pro**], and then click [**Detail**].  
You can do a printer simulation with [**Office Color**], for business or other documents, then click [**Advanced**], and select the properties of the ink you want to simulate from [**CMYK Simulation**].
- 5 Select the [**Printer Simulation**] check box.
- 6 Select an ink feature you want to simulate from [**Simulation Target Profile**] on [**Input**] and click [**OK**].

## For Mac OS X PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Select [**Color**] from the panel menu.
- 4 Select [**Graphic Pro**].
- 5 Click [**Details**] to select [**Printer Simulation**].
- 6 Select an ink feature you want to simulate from [**Simulation Target Profile**].

## Color Separation

You can print by separating each color without using any applications.

### ! Note

- Windows PCL/XPS printer driver cannot be used for this function.
- If you are using Adobe Illustrator, use the color separation function of the application. Turn off the color matching function of the printer driver.

## For Windows PS Drivers

- 1 Open the file you want to print.
- 2 Select [**Print**] from the [**File**] menu.
- 3 Click on [**Preferences**] or [**Properties**].
- 4 Select the [**Color**] tab and select [**Advanced**].
- 5 Select the color you want to separate from [**Print Color Separations**] and then click [**OK**].

## For Mac OS X PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Select [**Color**] from the panel menu.
- 4 Select [**Advanced**].
- 5 Select the color you want to separate from [**Print Color Separations**] and then click [**OK**].

## ■ Adjusting Color with Color Correct Utility

This section explains the Color Correct Utility. You can specify the colors on the palette selected in software such as Microsoft Excel with the Color Correct Utility.

### ! Note

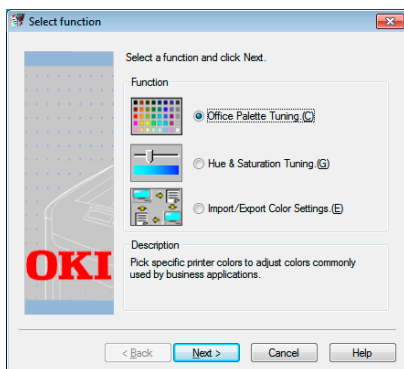
- Apply settings for each printer driver.
- You must be logged in as an administrator to perform color matching using the Color Correct Utility.

### Reference

- For details on how to install the Color Correct Utility, refer to "Installing Utilities" P.80.

## Changing Palette Color

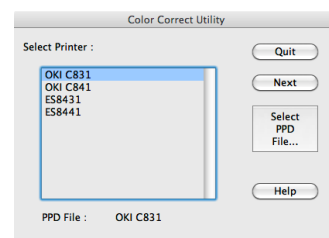
### For Windows



- 1 Click [**Start**] and select [**All Programs**] > [**Okidata**] > [**Color Correct Utility**] > [**Color Correct Utility**].
- 2 Select [**Office Palette Tuning**] and then click [**Next**].
- 3 Select the printer and click [**Next**].
- 4 Select the name the setting you want and then click [**Print Sample**].  
The color sample is printed.
- 5 Click on [**Next**].
- 6 Click on [**Print Palette**].  
The color sample for adjustment is printed.
- 7 Compare the colors of the color palette on the screen with those of the printed color sample for adjustment.  
Colors marked with cross cannot be adjusted.
- 8 Click the color you want to adjust.

- 9 Check each adjustable range from the pull-down menu for X and Y.  
The adjustable value varies depending on the color.
- 10 Check the printed color swatch to select the most suitable color you want within the adjustable range, and then check the X and Y values.
- 11 Select the values you checked at step 10, and then click [**OK**].
- 12 Click [**Print Palette**] and check if the adjusted color is closer to the color you want and then click [**Next**].  
If you want to change the color more or change other colors, repeat steps 8 to 11.
- 13 Enter a name to save as, and then click [**Save**].  
A dialog box appears.
- 14 Click on [**OK**].
- 15 Click on [**Finish**].

### For Mac OS X



- 1 Launch Color Correct Utility.
- 2 Select the printer and then click [**Select PPD File**].
- 3 Select the PPD file on the printer, and click [**Open**].

- 4 Click on [**Next**].
- 5 Click on [**Office Palette Tuning**].
- 6 Select the name of the setting you want, and then click [**Print Swatches**].  
A color swatch is printed.
- 7 Click on [**Next**].
- 8 Click on [**Print Palette**].  
The color sample for adjustment is printed.
- 9 Compare the colors of the color palette on the screen with those of the printed color sample for adjustment.  
Colors marked with cross cannot be adjusted.
- 10 Click the color you want to adjust.
- 11 Check each adjustable range from the pull-down menu for X and Y.  
The adjustable value varies depending on the color.
- 12 Check the printed color swatch to select the most suitable color you want within the adjustable range, and then check the X and Y values.
- 13 Select the values you checked at step 12, and then click [**OK**].
- 14 Click [**Print Palette**] and check that the adjusted color is closer to the color you want.  
If you want to change the color more or change other colors, repeat steps 10 to 14.
- 15 Enter a name and then click [**Save**].
- 16 To save the setting on the PPD file selected at step 2, click [**Save**].  
Enter the administrator's name and password.
- 17 Click on [**Quit**].
- 18 On the confirmation screen, click on [**OK**].
- 19 Select [**Print & Fax**] from [**System Preferences**] to delete and reregister all printers for which adjustments were made.

## Changing Gamma Value or Hue

You can adjust tone by adjusting the gamma value and output color by adjusting the hue.

### For Windows

- 1 Click [**Start**] and select [**All Programs**] > [**Okidata**] > [**Color Correct Utility**] > [**Color Correct Utility**].
- 2 Select [**Hue & Saturation Tuning.**] and then click [**Next**].
- 3 Select the printer and click [**Next**].
- 4 Select the standard mode and click [**Next**].
- 5 Apply settings as necessary by adjusting the slide bar.  
If you select the [**Use printer's unadjusted color**] check box, 100 percent of each color is used for printing, and the slide bar of hue is fixed.
- 6 Click on [**Test Print**].
- 7 Check the print result.  
If you are not satisfied with the result, repeat steps 5 to 6.
- 8 Click on [**Next**].
- 9 Enter a name and then click [**Save**].  
A dialog box appears.
- 10 Click on [**OK**].
- 11 Click on [**Finish**].

## For Mac OS X

- 1 Launch Color Correct Utility.
- 2 Select the printer and then click [**Select PPD File**] to select a file.
- 3 Select the PPD file on the printer, and click [**Open**].
- 4 Click on [**Next**].
- 5 Click [**Gamma/Hue/Saturation Tuning**].
- 6 Select the standard mode and click [**Next**].
- 7 Apply settings as necessary by adjusting the slide bar.  
If you select the [**Use default printer hue**] check box, 100 percent of each color is used for printing, and the slide bar of hue is fixed.
- 8 Click on [**Print Test**].
- 9 Check the print result.  
If you are not satisfied with the result, repeat steps 7 to 9.
- 10 Enter a name and then click [**Save**].
- 11 To save the setting to the PPD file selected at step 2, click [**Save**].  
Enter the administrators name and password.
- 12 Click on [**Quit**].
- 13 On the confirmation screen, click on [**OK**].
- 14 Select [**Print & Fax**] from [**System Preferences**] to delete and reregister all printers for which adjustments were made.

## Printing in Adjusted Color Settings

### For Windows PCL Printer Driver

- 1 Open the file you want to print.
- 2 Select [**Print**] from the [**File**] menu.
- 3 Click on [**Preferences**] or [**Properties**].
- 4 Click [**Detail**] on the [**Color Setting**] and select [**Office Pro**].
- 5 Select the [**User Setting**] and select the setting you created with the Color Correct Utility and then click [**OK**].

### For Windows PS Printer Driver

- 1 Open the file you want to print.
- 2 Select [**Print**] from the [**File**] menu.
- 3 Click on [**Preferences**] or [**Properties**].
- 4 Select the [**Color**] tab and select [**Office Color**] and then click [**Detail**].
- 5 Select the [**User Settings**] and select the setting you created with the Color Correct Utility and then click [**OK**].

### For Mac OS X PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Click [**Office Color**] on the [**Color**] panel.
- 4 Click [**Options**] to select the setting you created with the Color Correct Utility from [**Color Correct settings**] and then click [**OK**].

## Saving Color Correction Settings

You can save the adjusted color settings to a file.



- The administrator's authority is needed for this function.

### For Windows

- 1 Click [**Start**] and select [**All Programs**] > [**Okidata**] > [**Color Correct Utility**] > [**Color Correct Utility**].
- 2 Select [**Import/Export Color Settings.**] and then click [**Next**].
- 3 Select the printer and click [**Next**].
- 4 Click on [**Export**].
- 5 Select the settings to export and click [**Export**].
- 6 Specify the file name and the folder to save to, and then click [**Save**].
- 7 Click on [**OK**].
- 8 Click on [**Finish**].

### For Mac OS X

- 1 Launch Color Correct Utility.
- 2 Select the printer and then click [**Select PPD File**] to select a file.
- 3 Select the PPD file on the printer, and click [**Open**].
- 4 Click on [**Next**].
- 5 Click [**Manage Color Settings**].
- 6 Click on [**Export**].
- 7 Select the settings to export and click [**Export**].
- 8 Specify the file name and the folder to save to, and then click [**Save**].
- 9 Click on [**Cancel**].
- 10 Click on [**Quit**].

- 11 On the confirmation screen, click on [**OK**].



## Importing Color Correction Settings

You can import color correct settings from files.

### For Windows

- 1 Click [**Start**] and select [**All Programs**] > [**Okidata**] > [**Color Correct Utility**] > [**Color Correct Utility**].
- 2 Select [**Import/Export Color Settings.**] and then click [**Next**].
- 3 Select the printer, and click [**Next**].
- 4 Click [**Import**].
- 5 Select the file and click on [**Open**].
- 6 Select the settings to import and click on [**Import**].
- 7 Check that the setting is imported properly and then click [**Finish**].

### For Mac OS X

- 1 Launch Color Correct Utility.
- 2 Select the printer and then click [**Select PPD File**] to select a file.
- 3 Select the PPD file on the printer, and click [**Open**].
- 4 Click on [**Next**].
- 5 Click [**Manage Color Settings**].
- 6 Click [**Import**].
- 7 Select the file and click on [**Open**].
- 8 Select the settings to import and click on [**Import**].
- 9 To save the setting to the PPD file selected at step 2, click [**Save**].
- 10 Enter a user name with administrator rights and its password and click [**OK**].
- 11 Click on [**Cancel**].

- 12 Check that the setting is imported properly, and then quit the Color Correct Utility.

## Deleting Color Correction Settings

You can delete unnecessary setting files.

### 2

#### For Windows

- 1 Click [**Start**] and select [**All Programs**] > [**Okidata**] > [**Color Correct Utility**] > [**Color Correct Utility**].
- 2 Select [**Import/Export Color Settings.**] and then click [**Next**].
- 3 Select the printer, and click [**Next**].
- 4 Select the file you want to delete and click [**Delete**].  
A dialog box appears.
- 5 On the confirmation screen, click on [**Yes**].
- 6 Check that the setting is deleted properly and then click [**Finish**].

#### For Mac OS X

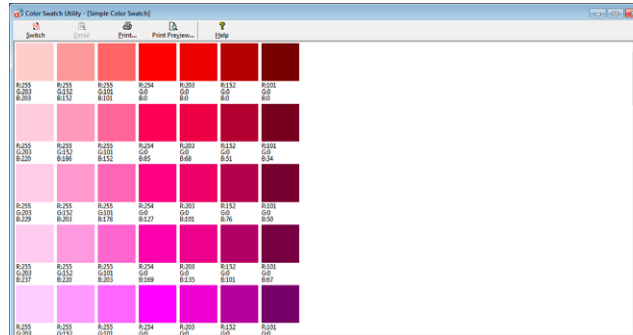
- 1 Launch Color Correct Utility.
- 2 Select the printer and then click [**Select PPD File**] to select a file.
- 3 Select the PPD file on the printer, and click [**Open**].
- 4 Click on [**Next**].
- 5 Click [**Manage Color Settings**].
- 6 Select the setting you want to delete and click [**Delete**].  
A dialog box appears.
- 7 On the confirmation screen, click on [**Yes**].
- 8 To save the setting to the PPD file selected at step 2, click [**Save**].
- 9 Enter the administrator password and click [**OK**].

10 Check that the setting is deleted properly and then click [**Quit**].

11 On the confirmation screen, click on [**OK**].

## ■ Setting Color with Color Swatch Utility

This section explains the Color Swatch Utility. You can print the RGB color swatch built in to the printer using the Color Swatch Utility. You can check the RGB values with the RGB color swatch and print out the colors as needed.



### ! Note

- This utility cannot be used on Mac OS X.

### Memo

- When the printer driver is installed, the color swatch utility software is installed at the same time.

## Printing Color Swatch

- 1 Click on [**start**], and select [**All Programs**] > [**Okidata**] > [**Color Swatch Utility**] > [**Color Swatch Utility**].
- 2 Click [**Print**].
- 3 Select the printer from [**Name**].
- 4 Click on [**OK**].  
A color swatch is printed.
- 5 Check the color swatch for the colors you want to print, and then write down the RGB values.

## Customizing the Color Swatch

If you cannot find the color you want in "Printing Color Swatch" step 5, follow the procedures below to customize the color.

- 1 Click on [**Switch**].
- 2 Click on [**Detail**].
- 3 Adjust the three slide bars until the color you want appears.
- 4 Click [**Close**].
- 5 Click [**Print**].

- 6 Select the printer from [**Name**].

- 7 Click on [**OK**].

- 8 Check that the color is adjusted as you want.

### Memo

- If you are not satisfied with the printing result, repeat from step 1 to 8.

## Printing a File With the Color You Want

2

2. Adjusting Color

- 1 Open the file you want to print.
- 2 Select the text or graphic to adjust the RGB values in an application.
- 3 Print out the file.



- For details on how to specify the color in the application, refer to the application's manual.
- When printing color swatches and the file you want, use the same printer driver settings.

## ■ Adjusting Color with PS Gamma Adjuster Utility

This section explains the PS Gamma Adjuster Utility. You can adjust the half-tone density of CMYK colors printed by the printer. Use this function if the color in a photograph or graphic is too dark.

### ! Note

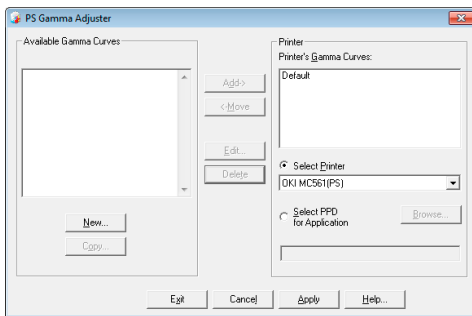
- The Windows XPS printer driver cannot be used.
- Printing speed may be slow if this function is used. If you want to prioritize the speed, select [**Not Specified**] from [**Half-tone adjustment**].
- Some applications can specify the half-tone settings. If you use these functions, select [**Not Specified**] from [**Half-Tone**].
- If you are using Windows, [**Half-tone adjustment**] menu or the contents may not be displayed on the [**Color**] tab of the printer driver. In this case, restart your computer.
- If you are using an application before registering the half-tone adjustment name, restart the application before printing.
- The registered half-tone adjustment name is effective for all printers of the same type if multiple printers are saved in the [**Printers and FAX**] folder.

### Reference

- For details on how to install the PS Gamma Adjuster Utility, refer to “Installing Utilities” P.80.

## Registering Half-tone

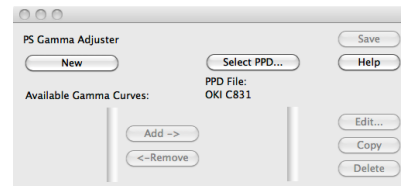
### For Windows PS Drivers



- 1 Click [**Start**] and select [**All Programs**] > [**Okidata**] > [**PS Gamma Adjuster**] > [**PS Gamma Adjuster**].
- 2 Select the printer from [**Select Printer**].
- 3 Click on [**New**].
- 4 Adjust the half-tone.  
You can select a method to adjust the half-tone from operating the graph line, entering the gamma value, or entering the density value into the text box.
- 5 Enter setting name in [**Gamma Curve Name**] and then click [**OK**].
- 6 Click on [**Add**].
- 7 Click on [**Apply**].  
A dialog box appears.
- 8 Click on [**OK**].

- 9 Click on [**Exit**] to quit the PS Gamma Adjuster Utility.

### For Mac OS X PS Printer Driver



- 1 Launch the PS Gamma Adjuster Utility.
- 2 Click on [**New**].
- 3 Adjust the half-tone.  
You can select a method to adjust the half-tone from operating the graph line, entering the gamma value, or entering the density value into the text box.
- 4 Enter a setting name in [**Gamma Curve Name**] and then click [**Save**].
- 5 Click on [**Select PPD**].
- 6 Select the PPD file to register the half-tone adjustment and click [**Open**].
- 7 Select the half-tone adjustment and click [**Add**].
- 8 Click on [**Save**].
- 9 Enter the administrator's name and password and click [**OK**].
- 10 Exit the PS Gamma Adjuster.

- 11 Select [**Print & Fax**] from [**System Preferences**] to delete and reregister all printers for which adjustments were made.

## Printing a File with the Adjusted Gamma Curve

### For Windows PS Drivers

- 1 Open the file you want to print.
- 2 Select [**Print**] from the [**File**] menu.
- 3 Click on [**Preferences**] or [**Properties**].
- 4 Select the [**Color**] tab, [**Custom Calibration**] and select the halftone adjustment settings and then click [**OK**].

### For Mac OS X PS Printer Driver

- 1 Open the file you want to print.
- 2 From the [**File**] menu, select [**Print**].
- 3 Select [**Printer Features**] from the panel menu.
- 4 Select the half-tone adjustment setting from Halftone Adjustment on [**Job Options**] on the [**Custom gamma**] panel.

# 3. Changing Printer Settings

This chapter explains how to configure the equipment settings from the <ENTER> button on the operator panel.

## ■ Checking the Current Settings

This section explains the basic procedure to print out print information. By printing out the print information, you can check the current settings of the printer.

### Printing Out Print Information

You can print and check the printer configurations and a usage report.

#### Reference

- For details on the print information you can print and the structure of the [**Print Information**] menu, refer to "Print Information" P.66.

#### 1 Press the <Fn> key.

##### Memo

- When a printer is in the power saving mode, press the <POWER SAVE> button to restore from the mode.
- 2 Enter <1>, <0> and <0> using the ten-key pad and press the <ENTER> button.
  - 3 Make sure that [**Execute**] is selected and then press the <ENTER> button.

## ■ Changing the Equipment Settings

This section explains the basic procedure to change the equipment settings.

### Reference

- For details on the menu structure of the equipment settings, refer to "List of Each Setup Menu" P.65.

### Admin Setup

To enter the [**Admin Setup**] menu, an administrator password is necessary.

### Memo

- The default password is "aaaaaa".

- 1 Press the <**ENTER**> button to open the equipment setting menu.
- 2 Press the scroll button ▼ to select [**Admin Setup**] and then press the <**ENTER**> button.
- 3 Enter the administrator password using the ten-key pad.
- 4 Press the <**ENTER**> button.
- 5 Press the scroll button ▼ to select the setup menu on which you want to change a setting and then press the <**ENTER**> button.
- 6 Change the setting and then press the <**ENTER**> button.
- 7 Press the <**ON LINE**> button to exit the menu mode.

### Other Settings

- 1 Press the <**ENTER**> button to open the equipment setting menu.
- 2 Press the scroll button ▼ to select the setup menu on which you want to change a setting and then press the <**ENTER**> button.
- 3 Change the setting and then press the <**ENTER**> button.
- 4 Press the <**ON LINE**> button to exit the menu mode.



## List of Each Setup Menu

### Device Setting Menu

| Item              | Description  |
|-------------------|--|
| Configuration     | Indicates information about the printer, such as Tray Count, Supplies Life, Network, and System.   |
| Print Information | Prints various information about the printer.  |
| Print Secure Job  | Prints an encrypted authentication print job (Encrypted Job) or an authentication print job (Secure Job) stored in SD memory card.<br>This menu is displayed when an SD memory card is installed in the printer. |
| Menus             | Menus for general users.   |
| Admin Setup       | Menus for the administrator.   |
| Calibration       | Adjusts the settings for color and density of the printer.   |
| Boot Menu         | Boot menu.<br>This menu is displayed only in English.  |
| Print Statistics  | Menu for print statistics.   |

### Configuration

| Item                | Description           |  |
|---------------------|-----------------------|--|
| Tray Count          | Tray1                 | Indicates the total number of pages printed from Tray 1.<br>The number of pages fed from Tray 1 is indicated.                        |
|                     | Tray2                 | Indicates the total number of pages printed from Tray 2.<br>The number of pages fed from Tray 2 is indicated.                        |
|                     | Tray3                 | Indicates the total number of pages printed from Tray 3.<br>The number of pages fed from Tray 3 is indicated.                        |
|                     | Tray4                 | Indicates the total number of pages printed from Tray 4.<br>The number of pages fed from Tray 4 is indicated.                        |
|                     | MPTray                | Indicates the total number of pages printed from MP Tray (Multi-Purpose Tray).<br>The number of pages fed from MP Tray is indicated. |
| Supplies Life       | Cyan Drum             | Indicates the remaining life of the CYAN drum in %.  |
|                     | Magenta Drum          | Indicates the remaining life of the MAGENTA drum in %.   |
|                     | Yellow Drum           | Indicates the remaining life of the YELLOW drum in %.  |
|                     | Black Drum            | Indicates the remaining life of the BLACK drum in %.   |
|                     | Belt                  | Indicates the remaining life of the BELT unit in %.  |
|                     | Fuser                 | Indicates the remaining life of the FUSER unit in %.   |
|                     | Cyan Toner (n.nK)*    | Indicates the remaining amount of toner in %.<br>* Differs depending on the type of the toner cartridge :                            |
|                     | Magenta Toner (n.nK)* |  |
|                     | Yellow Toner (n.nK)*  |  |
| Black Toner (n.nK)* |                       |  |

| Item    |                       | Description   |
|---------|-----------------------|---|
| Network | Printer Name          | Indicates the printer name.                                 |
|         | Short Printer Name    | Indicates the short printer name.                           |
|         | IPv4 Address          | Indicates the IPv4 address of the printer.                  |
|         | Subnet Mask           | Indicates the subnet mask of the printer.                   |
|         | Gateway Address       | Indicates the gateway address of the printer.               |
|         | MAC Address           | Indicates the MAC address of the printer.                   |
|         | Network FW Version    | Indicates the version of the network firmware.              |
|         | Web Remote Version    | Indicates the version of web page.                          |
|         | IPv6 Address (Local)  | Indicates the IPv6 address (local) of the printer.          |
|         | IPv6 Address (Global) | Indicates the IPv6 address (global) of the printer.         |
| System  | Serial Number         | Indicates the serial number of the printer.                 |
|         | Asset Number          | Indicates the asset number of the printer.                  |
|         | Lot Number            | Indicates the production lot number of the printer.         |
|         | CU Version            | Indicates the version number of the control unit firmware.  |
|         | PU Version            | Indicates the version number of the print unit firmware.    |
|         | Total Memory          | Indicates the total capacity of all RAM installed.          |
|         | Flash Memory          | Indicates the total capacity of all flash memory installed. |
|         | SD Card               | Indicates the capacity of the SD memory card.               |

### Print Information

| Item              |                    | Description  |
|-------------------|--------------------|--|
| Print Information | Configuration      | Prints information about the configuration of the printer.               |
|                   | Network            | Prints information about the network settings.                           |
|                   | Demo Page          | Prints a demo page.  |
|                   | File List          | Prints a job file list.  |
|                   | PS Font List       | Prints the list of PostScript font samples.                              |
|                   | PCL Font List      | Prints the list of PCL font samples.                                     |
|                   | HP-GL2 Palette     | Prints the color samples of the pens set on the menu.                    |
|                   | Usage Report       | Prints the total of the job logs.  |
|                   | Error Log          | Prints an error log.   |
|                   | Color Profile List | Prints the list of color profiles.                                       |
|                   | ID Check Pattern   | Prints a built-in ID check pattern used for detection of a defective ID. |
|                   | Engine Status      | Prints information about the printer engine.                             |

### Print Secure Job

| Item          |                | Description  |
|---------------|----------------|--|
| Encrypted Job | Enter Password | Enter the password to execute the encrypted authentication print job.                                |
|               | Encrypted Job  | Select this to print an encrypted authentication print job (Encrypted Job) stored in SD memory card. |
| Stored Job    | Enter Password | Enter the password to execute the authentication print job.  |
|               | Stored Job     | Select this to print an authentication print job (Secure Job) stored in SD memory card.              |

## Menus



- Factory default setting values are different according to the region where the machine is used.

| Item               |   | Factory Default         | Description                                |  |
|--------------------|---|-------------------------|--|--|
| Tray Configuration | MPTray Config   | Paper Size              | A4 [LEF]<br>or<br>Letter [LEF]             | Selects a paper size for MP tray.            |
|                    |   | X Dimension             | 210millimeters<br>or<br>8.5inches          | Sets a width of a custom paper for MP tray.  |
|                    |   | Y Dimension             | 297millimeters<br>or<br>11inches           | Sets a length of a custom paper for MP tray. |
|                    |   | Media Type              | Plain                                      | Selects a paper type for MP tray.            |
|                    |   | Media Weight            | Light                                      | Selects a paper weight for MP tray.          |
|                    |   | Tray Usage              | Do Not Use                                 | Sets an MP tray usage.                       |
|                    | Tray1 Config  | Paper Size              | Cassette Size                              | Selects a paper size for Tray 1.             |
|                    |   | X Dimension             | 210millimeters<br>or<br>8.5inches          | Sets a width of a custom paper for Tray 1.   |
|                    |   | Y Dimension             | 297millimeters<br>or<br>11inches           | Sets a length of a custom paper for Tray 1.  |
|                    |   | Media Type              | Plain                                      | Select a paper type for Tray 1.              |
|                    |   | Media Weight            | Light                                      | Selects a paper weight for Tray 1.           |
|                    |   | Legal Paper             | Legal14                                    | Sets a legal paper size for Tray 1.          |
|                    |   | Other Size              | 16K(184x260mm)<br>[SEF]                    | Sets other standard paper size for Tray 1.   |
|                    | Tray2 Config<br><br>* Displayed when an optional tray is installed. | Paper Size              | Cassette Size                              | Selects a paper size for Tray 2.             |
|                    |   | X Dimension             | 210millimeters<br>or<br>8.5inches          | Sets a width of a custom paper for Tray 2.   |
|                    |   | Y Dimension             | 297millimeters<br>or<br>11inches           | Sets a length of a custom paper for Tray 2.  |
|                    |   | Media Type              | Plain                                      | Select a paper type for Tray 2.              |
|                    |   | Media Weight            | Light                                      | Selects a paper weight for Tray 2.           |
|                    |   | Legal Paper             | Legal14                                    | Sets a legal paper size for Tray 2.          |
|                    |   | Other Size              | 16K(184x260mm)<br>[SEF]                    | Sets other standard paper size for Tray 2.   |
|                    | Tray3 Config<br><br>* Displayed when an optional tray is installed. | Paper Size              | Cassette Size                              | Selects a paper size for Tray 3.             |
|                    |   | X Dimension             | 210millimeters<br>or<br>8.5inches          | Sets a width of a custom paper for Tray 3.   |
|                    |   | Y Dimension             | 297millimeters<br>or<br>11inches           | Sets a length of a custom paper for Tray 3.  |
|                    |   | Media Type              | Plain                                      | Select a paper type for Tray 3.              |
| Media Weight       |   | Light                   | Selects a paper weight for Tray 3.         |  |
| Legal Paper        |   | Legal14                 | Sets a legal paper size for Tray 3.        |  |
| Other Size         |   | 16K(184x260mm)<br>[SEF] | Sets other standard paper size for Tray 3. |  |

| Item               |   | Factory Default   | Description  |   |
|--------------------|---|---|--|---|
| Tray Configuration | Tray4 Config                                    | Paper Size  | Cassette Size  |   |
|                    | * Displayed when an optional tray is installed. | X Dimension   | 210millimeters<br>or<br>8.5inches  | Sets a width of a custom paper for Tray 4.  |
|                    |   | Y Dimension   | 297millimeters<br>or<br>11inches   | Sets a length of a custom paper for Tray 4. |
|                    |   | Media Type  | Plain  | Selects a paper type for Tray 4.            |
|                    |   | Media Weight  | Light  | Selects a paper weight for Tray 4.          |
|                    |   | Legal Paper   | Legal14  | Sets a legal paper size for Tray 4.         |
|                    |   | Other Size  | 16K(184x260mm)<br>[SEF]  | Sets other standard paper size for Tray 4.  |
|                    | Paper Feed                                      | Tray1   | Selects a paper tray.  |   |
|                    | Auto Tray Switch                                | On  | Sets whether to enable the auto tray switching function.                     |   |
|                    | Tray Sequence                                   | Down  | Sets the priority of tray order for auto tray selection/auto tray switching. |   |
|                    | Unit of Measurement                             | millimeter  | Sets the unit of measurement used for the custom paper size.                 |   |
| Duplex Last Page   | Skip Blank Page                                 | When [Skip Blank Page] is selected, the last page of an odd-numbered duplex print job is printed in simplex.<br>When [Always Print] is selected, the printer always prints a document in the duplex mode if the duplex mode is selected. Some applications may not work properly. |  |   |

| Item                |                       | Factory Default | Description   |  |
|---------------------|-----------------------|-----------------|---|--|
| System Adjust       | Power Save time       | 1 minute        | Sets how many minutes the printer waits before activating the power save mode.  |  |
|                     | Sleep Time            | 15 minutes      | Sets the time to switch from the power save mode to the sleep mode.   |  |
|                     | Auto Power Off Time   | 4 hours         | Sets the time to switch from the standby mode to the power off mode.  |  |
|                     | Clearable Warning     | ONLINE          | Sets the timing for deletion of clearable warnings.   |  |
|                     | Auto Continue         | Off             | Sets whether to recover the printer automatically when a memory overflow or tray requesting occurs.   |  |
|                     | Manual Timeout        | 60 seconds      | Sets how many seconds the printer waits for the paper to be fed from the manual paper tray.   |  |
|                     | Wait Timeout          | 40 seconds      | Sets how many seconds the printer will wait before force printing a job after the data stops coming.  |  |
|                     | Low Toner             | Continue        | Sets whether to continue or stop printing when a low on toner error occurs.   |  |
|                     | Jam Recovery          | On              | Sets whether the printer will attempt to re-print any pages lost due to a paper jam once the jam has been cleared.  |  |
|                     | Error Report          | Off             | Sets whether to print out the error details when an internal error occurs.  |  |
|                     | Print Position Adjust | X Adjust        | 0.00millimeter  | Adjusts the position of the whole printing image perpendicular (landscape orientation) to the direction of paper movement (at 0.25 mm intervals).  |
|                     |                       | Y Adjust        | 0.00millimeter  | Adjusts the position of the whole printing image parallel (portrait orientation) to the direction of paper movement (at 0.25 mm intervals).  |
|                     |                       | Duplex X Adjust | 0.00millimeter  | Adjusts the position of the whole printing image on the reverse side of duplex printing perpendicular (landscape orientation) to the direction of paper movement (at 0.25 mm intervals). |
|                     |                       | Duplex Y Adjust | 0.00millimeter  | Adjusts the position of the whole printing image on the reverse side of duplex printing parallel (portrait orientation) to the direction of paper movement (at 0.25 mm intervals).       |
| Paper Black Setting |                       | 0               | Sets values to make a fine adjustment if the printing result is faded or there are dust specks on the print when printing in the plain paper and black mode. Decrease the value when there are dust specks in the area printed with high density. Increase the value when the printing result is faded. |  |
| Paper Color Setting |                       | 0               | Sets values to make a fine adjustment if the printing result is faded or there are dust specks on the print when printing in the plain paper and color mode. Decrease the value when there are dust specks in the area printed with high density. Increase the value when the printing result is faded. |  |

| Item          |                      | Factory Default | Description   |
|---------------|----------------------|-----------------|---|
| System Adjust | Trans. Black Setting | 0               | Sets values to make a fine adjustment if the printing result is faded or there are dust specks on the print when printing in OHP and black mode. Decrease the value when there are dust specks in the area printed with high density. Increase the value when the printing result is faded. |
|               | Trans. Color Setting | 0               | Sets values to make a fine adjustment if the printing result is faded or there are dust specks on the print when printing in OHP and color mode. Decrease the value when there are dust specks in the area printed with high density. Increase the value when the printing result is faded. |
|               | SMR Setting          | 0               | Corrects variations in print results caused by temperature and humidity conditions and differences in print density and frequency. Change the setting if the print quality is uneven.   |
|               | BG Setting           | 0               | Corrects variations in print results caused by temperature and humidity conditions and difference in print density and frequency. Change the setting if the background is dark.   |
|               | Drum Cleaning        | Off             | Sets whether to perform drum rotating before printing to reduce lateral white lines on the print. Note that drum rotating shortens the ID life.   |
|               | Hex Dump             | (NULL)          | Prints out the data received from the host computer in hexadecimal dump format. Turning off the power switches the printer to the normal print mode from the HEX Dump mode.   |

## Admin Setup

| Item                |                   | Factory Default  | Description  |  |  |
|---------------------|-------------------|--|--|--|--|
| Admin Setup         | Network Setup     | TCP/IP   | Enable   | Sets whether to enable TCP/IP.   |  |
|                     |                   | IP Version   | IP v4  | Selects the version of IP.   |  |
|                     |                   | NetBEUI  | Disable  | Sets whether to enable NetBEUI.  |  |
|                     |                   | NetBIOS over TCP   | Enable   | Sets whether to enable NetBIOS over TCP.   |  |
|                     |                   | NetWare  | Disable  | Sets whether to enable NetWare.  |  |
|                     |                   | EtherTalk  | Disable  | Sets whether to enable EtherTalk.  |  |
|                     |                   | IP Address Set   | Auto   | Sets the setting method of IP address.   |  |
|                     |                   | IPv4 Address   | xxx.xxx.xxx.xxx  | Sets the IP address.   |  |
|                     |                   | Subnet Mask  | xxx.xxx.xxx.xxx  | Sets the subnet mask.  |  |
|                     |                   | Gateway Address  | xxx.xxx.xxx.xxx  | Sets the gateway (default router) address.   |  |
|                     |                   | Web  | Enable   | Sets whether to enable Web.  |  |
|                     |                   | Telnet   | Disable  | Sets whether to enable Telnet.   |  |
|                     |                   | FTP  | Disable  | Sets whether to enable FTP.  |  |
|                     |                   | IPSec  | Disable  | Displayed only when [IPSec] is enabled and only the change to disable is available.  |  |
|                     |                   | SNMP   | Enable   | Sets whether to enable SNMP.   |  |
|                     |                   | Network Scale  | Normal   | When [Normal] is selected, the printer works effectively even if connected to a hub that has the spanning tree feature. However, the start-up time of printer becomes longer when the printer is connected to a small LAN that consists of two or three computers. |  |
|                     |                   | Hub Link Setting   | Auto Negotiate   | Sets the method for linking to a hub.  |  |
|                     | TCP ACK           | Type1  | Sets the type of TCP acknowledgment.                   |  |  |
|                     | Factory Defaults? | (NULL)   | Resets the Network Setup menu.                         |  |  |
|                     | Print Setup       | Personality  | Auto   | Selects the printer language.  |  |
|                     |                   | Copies   | 1  | Sets the number of copies.   |  |
|                     |                   | Duplex   | Off  | Sets the duplex printing.  |  |
|                     |                   | Binding  | Long Edge  | Sets the binding position for duplex printing.   |  |
|                     |                   | Media Check  | Enable   | Sets whether to check if the paper size of the tray and the page size of the document do not match.  |  |
|                     |                   | Resolution   | 600dpi   | Sets the resolution.   |  |
|                     |                   | Toner Save   | Toner Save Level                                       | Off  | Sets the toner save level. [Off] disables the toner save mode. 15% of the toner is saved in [Low], 35% in [Middle], and 50% in [High]. |
|                     |                   |  | Color  | All  | Sets whether to apply the toner save mode to the 100% black color.   |
| Mono-Print Mode     |                   | Auto   | Sets the print mode for black-and-white pages.         |  |  |
| Default Orientation |                   | Portrait   | Sets the print orientation. Not available for PS data. |  |  |
| Form Length         | 64lines           | Sets the number of lines of text per page.   |  |  |  |
| Edit Size           | Cassette Size     | Sets the size of the printable page area when no command to specify the paper edit size is sent from the computer. |  |  |  |

| Item        |             | Factory Default  | Description   |   |
|-------------|-------------|------------------|---|---|
| Admin Setup | Print Setup | X Dimension      | 210millimeters<br>or<br>8.5inches   | Sets the default width of the custom paper.   |
|             |             | Y Dimension      | 297millimeters<br>or<br>11inches  | Sets the default length of the custom paper.  |
|             | PS Setup    | Network Protocol | RAW   | Sets the PS communication protocol mode for JCI-NIC.  |
|             |             | USB Protocol     | RAW   | Sets the PS communication protocol mode for USB.  |
|             | PCL Setup   | Font Source      | Resident2   | Sets the location of the PCL default font.  |
|             |             | Font Number      | C1  | Sets the PCL font number.   |
|             |             | Font Height      | 12.00 point   | Sets the height of the PCL default font. The height is displayed to two decimal points (at 0.25 point intervals).   |
|             |             | Symbol Set       | WIN3.1J   | Selects a PCL symbol set.   |
|             |             | A4 Print Width   | 78 column   | Sets the number of columns for automatic line feed on A4 paper for PCL. The number of columns is based on when the font pitch is 10CPI and the Auto CR/LF mode is set to off. |
|             |             | White Page Skip  | Off   | Sets whether to eject a blank page when an FF command (0CH) is received in PCL.   |
|             |             | CR Function      | CR  | Sets the printer operation when a CR code is received in PCL.   |
|             |             | LF Function      | LF  | Sets the printer operation when a LF code is received in PCL.   |
|             |             | Print Margin     | Normal  | Sets the non-printable area of page.  |
|             |             | True Black       | Off   | PCL: Sets whether to use composite black (CMYK mixed) or true black (K only) for the 100% black area of an image.   |
|             |             | Pen Width Adjust | On  | Adjusts the width of thin lines so that the lines become visible.   |
|             |             | Tray ID#         | Tray 2  | 5   |
| Tray 3      | 20          |                  | Sets a number of tray 3 for the paper feed destination command (ESC&I#H) in PCL5 emulation. This menu is displayed only when the tray 3 is installed. |   |
| Tray 4      | 21          |                  | Sets a number of tray 4 for the paper feed destination command (ESC&I#H) in PCL5 emulation. This menu is displayed only when the tray 4 is installed. |   |
| MP Trays    | 4           |                  | Sets a number of MP tray for the paper feed destination command (ESC&I#H) in PCL5 emulation.  |   |



| Item        |                  | Factory Default     | Description                       |  |
|-------------|------------------|---------------------|-----------------------------------|--|
| Admin Setup | XPS Setup        | DigitalSignature    | Off                               | Sets the DigitalSignature function.  |
|             |                  | DiscardControl      | Auto                              | Sets the DiscardControl function.  |
|             |                  | MC Mode             | On                                | Sets the MarkupComaptibility function.   |
|             |                  | Unzip Mode          | Speed                             | Set the extraction method for XPS files.   |
|             |                  | White Page Skip     | Off                               | Sets whether to eject a blank page in XPS.   |
|             | IBM 5577 Setup   | Left Margin         | 6millimeter                       | Sets the left margin for IBM5577 emulation.  |
|             |                  | Right Margin        | 6millimeter                       | Sets the right margin for IBM5577 emulation.   |
|             |                  | Top Margin          | 6millimeter                       | Sets the top margin for IBM5577 emulation.   |
|             |                  | Bottom Margin       | 6millimeter                       | Sets the bottom margin for IBM5577 emulation.  |
|             |                  | Image Wrap Mode     | On                                | Sets whether to use the function to wrap lines according to the page width automatically for IBM5577 emulation.  |
|             |                  | Landscape Direction | Reverse Landscape                 | Sets the landscape orientation for IBM5577 emulation.  |
|             |                  | CAN Function        | On                                | Sets the printer operation for the CAN command of IBM5577 emulation.   |
|             |                  | Japanese Font       | Mincho                            | Sets the Japanese font for IBM5577 emulation.  |
|             |                  | Auto Scale          | On                                | Automatically enlarges/reduces the edit size area of IBM5577 to fit into the edit size of the print setup.   |
|             |                  | Scale Adjustment    | 0%                                | Sets the adjustment ratio for scaling in IBM5577.  |
|             |                  | Japanese Font Size  | 9.5Point                          | Sets the Japanese character size in IBM5577.   |
|             |                  | Default Edit Size   | Auto                              | Sets the edit size in IBM5577.   |
|             |                  | X Dimension         | 210millimeters<br>or<br>8.5inches | Sets the width of the custom paper in IBM5577.   |
|             |                  | Y Dimension         | 297millimeters<br>or<br>11inches  | Sets the length of the custom paper in IBM5577.  |
|             |                  | Color Setup         | Ink Simulation                    | Off  |
|             | UCR              |                     | Low                               | Selects the limit value of toner layer thickness. When paper curl occurs in dark color printing, selecting [Medium] or [High] may reduce the volume of curl. |
|             | CMY 100% Density |                     | Disable                           | Selects whether to enable 100% output for the CMY100% tone value.  |
|             | CMYK Conversion  |                     | On                                | When [OFF] is selected, the printer simplifies the conversion process of CMYK data in PostScript printing, which reduces processing time.                    |
|             | Memory Setup     | Receive Buffer Size | Auto                              | Sets the reception buffer size.  |
|             |                  | Resource Save       | Off                               | Sets the resource save area.   |

| Item        |                    | Factory Default          | Description                            |  |                          |
|-------------|--------------------|--------------------------|--|--|--------------------------|
| Admin Setup | Flash Memory Setup | Initialize (NULL)        | Initializes the resident flash memory. |  |                          |
|             | SD Card Setup      | Initialize               | (NULL)                                 |  |                          |
|             |                    | Resize Partition         | PCL nn%                                | 20%  | Sets the partition size. |
|             |                    |                          | Common mm%                             | 50%  |                          |
|             |                    |                          | PS ll%                                 | 30%  |                          |
|             |                    |                          | <Apply>                                | (NULL)   |                          |
|             | Format Partition   | PCL                      |  |  |                          |
|             | System Setup       | Near Life Status         | Enable                                 | Sets whether to display the warning that informs the drum, fuser, or belt is near the end of life on the LCD display.                              |                          |
|             |                    | Near Life LED            | Enable                                 | Sets the LED lamp control of the warning that informs the toner, drum, fuser, or belt is near the end of life.                                     |                          |
|             |                    | Idle Display             | Toner Gauge                            | Selects the information shown on the display during idling.  |                          |
|             |                    | Panel Contrast           | 0                                      | Adjust the contrast of the LCD of operation panel.   |                          |
|             | Buzzer Setup       | Invalid Operation Volume | Off                                    | Sets the volume of the buzzer for the invalid operations.  |                          |
|             |                    | Error Volume             | Off                                    | Sets the volume of the buzzer for errors.  |                          |
|             | Power Setup        | Power Save               | Enable                                 | Sets whether to enable the power save mode.  |                          |
|             |                    | Sleep                    | Enable                                 | Sets whether to enable the sleep mode.   |                          |
|             |                    | Auto Power Off           | Auto Config                            | Sets the auto power off function.  |                          |
|             | Change Password    | New Password             | (NULL)                                 | Sets a new password to enter the [Admin Setup] menu and [Boot Menu].   |                          |
|             |                    | Verify Password          | (NULL)                                 | Enter the new password set in [New Password] to verify. Enter the password consisting of 6 to 12 digits with alphanumeric characters (lower case). |                          |
|             | Settings           | Reset Settings           | (NULL)                                 | Resets EEPROM of CU to initialize the user menu settings.  |                          |
|             |                    | Save Settings            | (NULL)                                 | Saves the current menu settings.   |                          |
|             |                    | Restore Settings         | (NULL)                                 | Restores the stored menu settings.   |                          |

## Calibration

| Item        |                      | Factory Default | Description |  |
|-------------|----------------------|-----------------|-------------|--|
| Calibration | Auto Density Mode    | On              |             |  |
|             | Adjust Density       | (NULL)          |             |  |
|             | Adjust Registration  | (NULL)          |             |  |
|             | Print Tuning Pattern | (NULL)          |             |  |
|             | Cyan Tuning          | Highlight       | 0           | Adjusts the highlight tone (light color) of cyan. The tone becomes darker in plus direction and becomes lighter in minus direction.    |
|             |                      | Mid-Tone        | 0           | Adjusts the mid tone of cyan. The tone becomes darker in plus direction and becomes lighter in minus direction.                        |
|             |                      | Dark            | 0           | Adjusts the dark tone (dark color) of cyan. The tone becomes darker in plus direction and becomes lighter in minus direction.          |
|             | Magenta Tuning       | Highlight       | 0           | Adjusts the highlight tone (light color) of magenta. The tone becomes darker in plus direction and becomes lighter in minus direction. |
|             |                      | Mid-Tone        | 0           | Adjusts the mid tone of magenta. The tone becomes darker in plus direction and becomes lighter in minus direction.                     |
|             |                      | Dark            | 0           | Adjusts the dark tone (dark color) of magenta. The tone becomes darker in plus direction and becomes lighter in minus direction.       |
|             | Yellow Tuning        | Highlight       | 0           | Adjusts the highlight tone (light color) of yellow. The tone becomes darker in plus direction and becomes lighter in minus direction.  |
|             |                      | Mid-Tone        | 0           | Adjusts the mid tone of yellow. The tone becomes darker in plus direction and becomes lighter in minus direction.                      |
|             |                      | Dark            | 0           | Adjusts the dark tone (dark color) of yellow. The tone becomes darker in plus direction and becomes lighter in minus direction.        |
|             | Black Tuning         | Highlight       | 0           | Adjusts the highlight tone (light color) of black. The tone becomes darker in plus direction and becomes lighter in minus direction.   |
|             |                      | Mid-Tone        | 0           | Adjusts the mid tone of black. The tone becomes darker in plus direction and becomes lighter in minus direction.                       |
|             |                      | Dark            | 0           | Adjusts the dark tone (dark color) of black. The tone becomes darker in plus direction and becomes lighter in minus direction.         |
|             | Cyan Darkness        | 0               |             |  |
|             | Magenta Darkness     | 0               |             |  |
|             | Yellow Darkness      | 0               |             |  |
|             | Black Darkness       | 0               |             |  |

## Boot Menu

| Item      |                | Factory Default       | Description |   |
|-----------|----------------|-----------------------|-------------|---|
| Boot Menu | USB Setup      | USB                   | Enable      | Sets whether to enable USB I/F.   |
|           |                | Speed                 | 480Mbps     | Sets the maximum transfer speed of USB I/F.   |
|           |                | Soft Reset            | Disable     | Sets whether to enable the Soft Reset command.  |
|           |                | Offline Receive       | Disable     | Sets whether to enable the function that keeps the data receivable state with no change of the I/F signal in case an error occurs.  |
|           |                | Serial Number         | Enable      | Sets whether to enable the USB serial number.   |
|           | Security Setup | Job Limitation        | Off         | Sets the limited job mode. When the mode is set to [Encrypted Job], printing data other than specified (only an encrypted authentication print job can be specified) is restricted. This item is displayed only when the optional SD memory card is installed to the printer. |
|           |                | Make Secure SD Card   | (NULL)      | Enables encryption of data saved on an SD memory card.  |
|           |                | Make Normal SD Card   | (NULL)      | Disables encryption of data saved on an SD memory card.   |
|           |                | Reset Cipher Key      | (NULL)      | Resets the cipher key used on an encrypted SD memory card. After this operation has been completed, all data stored on the SD memory card cannot be restored.   |
|           | Storage Setup  | Check File System     | (NULL)      | Resolves mismatch between the actual (available) memory and the available memory displayed and performs recovery of the administration data (FAT information) for a file system. This operation is applied to each file system.   |
|           |                | Check All Sectors     | (NULL)      | Performs recovery of the defective sector information on SD memory card and resolves mismatch between the actual (available) memory and the available memory displayed.   |
|           |                | Enable SD Card        | Yes         | If the printer is not able to turn on due to a damaged SD memory card, selecting [No] enables the printer to turn on as if there is no SD memory card installed even if an SD memory card is installed to the printer.  |
|           |                | Erase SD Card         | (NULL)      | This item is displayed only when an SD memory card is installed. This function erases all data on the SD memory card.   |
|           |                | Enable Initialization | No          | Disables any changes that involve initialization of the block device (SD memory card, flash memory).  |
|           | Language Setup | Language Initialize   | (NULL)      | Initializes the message file loaded on the flash memory.  |
|           | System Setup   | High Humid Mode       | Off         | Turns on/off the curl reduction mode.   |
|           |                | Moisture Control      | Off         | Sets whether to enable the condensation control.  |
|           |                | Narrow Paper Speed    | Slow        | Sets the printing speed of narrow paper.  |
|           |                | Menu Lockout          | Off         | Turns on/off the menu lockout function.   |

## Print Statistics

| Item             |                        | Factory Default | Description |   |
|------------------|------------------------|-----------------|-------------|---|
| Print Statistics | Usage Report           |                 | Enable      | Sets whether to enable the usage report.                                      |
|                  | Supplies Report        |                 | Disable     | Sets whether to display or hide the number of times consumables are replaced. |
|                  | Reset Main Counter     |                 | (NULL)      | Resets the main counter.  |
|                  | Reset Supplies Counter |                 | (NULL)      | Resets the count of the number of times consumables are replaced.             |
|                  | Change Password        | New Password    | (NULL)      | Sets a new password to enter the [Print Statistics] menu.                     |
|                  |                        | Verify Password | (NULL)      | Enter the new password set in [New Password] to verify.                       |

# 4. Using Utility Software

This chapter explains useful software functions for using your printer.

## ■ Overview of Utilities

The following is a list of utilities that you can use for your printer. For details on how to use these utilities, refer to their respective sections.

### Utilities common to Windows/Mac OS X

| Item  | Function Scope   | Details  | System Requirements  | Refer to   |
|---|------------------|--|--|--|
| Color Correct Utility                                 | Printing         | Adjusts color matching. It can adjust the tone of palette color output. Also, you can adjust the hue and change the overall shade of the color output. | <ul style="list-style-type: none"> <li>Windows 7/<br/>Windows Vista/<br/>Windows Server 2008 R2/<br/>Windows Server 2008/<br/>Windows XP/<br/>Windows Server 2003/<br/>Windows 2000</li> <li>Mac OS X 10.3.9-10.6</li> </ul> | <a href="#">page. 53</a>                             |
| PS Gamma Adjuster Utility                             | Printing         | You can adjust the density of pictures by adjusting the CMYK color and halftone density of each color.   |  | <a href="#">page. 61</a>                             |
| Network Card Setup                                    | Printer settings | You can configure settings for the network.  |  | <a href="#">page. 88</a><br><a href="#">page. 94</a> |
| Print display language setup/<br>Panel language setup | Printer settings | You can change the operator panel or menu display language.  |  | <a href="#">page. 87</a><br><a href="#">page. 94</a> |

### Windows Utilities

| Item                 | Function Scope   | Details  | System Requirements   | Refer to                 |
|----------------------|------------------|--|---|--------------------------|
| Configuration Tool   | Printer settings | Registers the network settings of the printer or an ICC profile in the SD memory card of this printer, and manages the settings or profile. The registered ICC profile can be used for the color matching function in the [ <b>Graphic Pro</b> ] mode of the printer driver. Registering and deleting form data and managing stored jobs are also available. | Windows 7/<br>Windows Vista/<br>Windows Server 2008 R2/<br>Windows Server 2008/<br>Windows XP/<br>Windows Server 2003/<br>Windows 2000<br><br>Windows 2000 requires the following to be installed <ul style="list-style-type: none"> <li>Service Pack 4</li> <li>Internet Explorer 5.5 SP1 or a higher version</li> <li>KB891861 (<a href="http://support.microsoft.com/?kbid=891861">http://support.microsoft.com/?kbid=891861</a>)</li> </ul> | <a href="#">page. 83</a> |
| Color Swatch Utility | Printing         | Prints a color swatch. You can use this utility to check printed colors. This utility is automatically installed when installing a print driver.   | Windows 7/<br>Windows Vista/<br>Windows Server 2008 R2/<br>Windows Server 2008/<br>Windows XP/<br>Windows Server 2003/<br>Windows 2000  | <a href="#">page. 45</a> |
| PDF Print Direct     | Printing         | Prints out PDF files without launching the application.  | Windows Server 2003/<br>Windows 2000  | <a href="#">page. 86</a> |

| Item              | Function Scope       | Details  | System Requirements   | Refer to                 |
|-------------------|----------------------|--|---|--------------------------|
| OKI LPR Utility   | Printing             | You can print a document via the network connection, manage print jobs, and check the printer status. And, when an IP address of a printer is changed, the setting is changed automatically. | Windows 7/<br>Windows Vista/<br>Windows Server 2008 R2/<br>Windows Server 2008/<br>Windows XP/<br>Windows Server 2003/<br>Windows 2000                                      | <a href="#">page. 89</a> |
| Network Extension | Managing the printer | You can check the printer settings from the print driver, and can set options. This utility is automatically installed when installing a print driver through a network connection.          | Windows 7/<br>Windows Vista/<br>Windows Server 2008 R2/<br>Windows Server 2008/<br>Windows XP/<br>Windows Server 2003/<br>Windows 2000<br>A computer operating with TCP/IP. | <a href="#">page. 92</a> |

## ■ Installing Utilities

If there is a utility that you would like to use, follow the procedure below for Windows. For Mac OS X, you can copy it by dragging and dropping to the place you want. You can also run this directly from the Software DVD-ROM

### For Windows

- 1 Insert the Software DVD-ROM into your computer
- 2 Click [**Run Setup.exe**].  
If the [**User Account Control**] dialog box appears, click [**Yes**].
- 3 Select a language and click [**Next**].
- 4 Select a device and click [**Next**].
- 5 Read the user license agreement and select [**I Agree**].
- 6 Read the [**Environmental advice for Users**] and then click [**Next**].
- 7 Select the utility you would like to install and click the button to install collectively.
- 8 Click [**Finish**].

### For Mac OS X

- 1 Insert the Software DVD-ROM into the computer
- 2 Double click on the [**OKI**]>[**Utilities**] folder.
- 3 Copy the folder you want to install by dragging and dropping to the folder you want.



- To launch, double click on the utility icon within the folder.



## ■ Utilities common to Windows/Mac OS X

This section explains web pages that can be used by both Windows and Mac OS X.

When using web pages, the following conditions must be met.

- TCP/IP must be enabled.
- One of the following must be installed: Microsoft Internet Explorer 6.0 or later, Safari 3.0 or later, or Firefox 3.0 or later.

### Memo

- Either set your web page security settings to a medium level, or enable cookies.
- In order to access the [**Admin Setup**] menu, the administrator password is required. The default password is "aaaaaa".

## Web page

You can carry out the following operations from the web page.

- Display the printer status.
- Create profiles.
- Configure tray, network, function default, and printer settings.
- Display the job list.
- Print out a PDF without a printer driver.
- Configure the auto delivery and transmission data save functions.
- Link to frequently used web pages.

### Memo

- In order to change the printer settings on the web page, you need to be logged in as the administrator.

### Reference

- For details on how to configure the network settings, refer to "[Changing Network Settings From the Web Page](#)" P.124.

## Accessing the Printer Web page

- 1 Launch your web browser.
- 2 Type in "http:// (printer's IP address)" in the address bar and press the <Enter> key.

### Reference

- For the printer's IP address, please refer to the User's Manual (Setup).



## Logging In as the Administrator

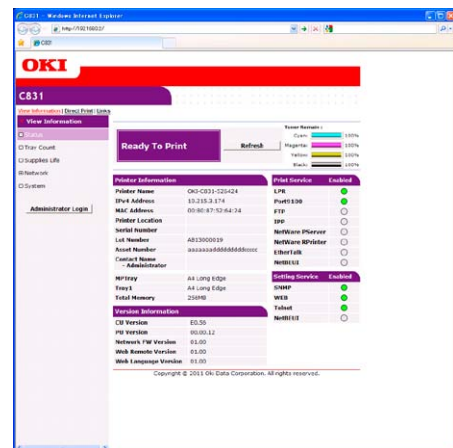
### Note

- You must be authorized as the administrator.

### Memo

- The default administrator password of the printer is "aaaaaa".

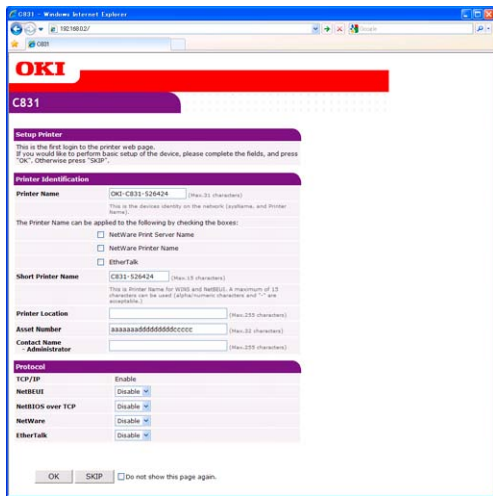
- 1 Click on [**Administrator Login**] on the main page.



- 2 Enter "root" in [**Username**] and enter the administrator password in [**Password**], and then click [**OK**].  
For Mac OS X, type in "root" for [**Name**] and enter the printer administrator's password in [**Password**], and then click [**Login**].

**3** Click [**SKIP**].

If you have made changes to the settings on this screen, click [**OK**].



The menus available only for the administrator will be displayed.

### Changing the Administrator's password

You can change the printer administrator's password from the web page. The administrator's password set on the web page can be used when logging into the printer through the operator panel or through the web page.



- The password should be 6-12 characters long, and should be in one-byte (alphanumeric) characters.
- The password is case sensitive.

- 1 Launch your web browser and log in as the administrator.
- 2 Select [**Admin Setup**].
- 3 Select [**Management**] > [**Change Password**].
- 4 Enter a new password in [**New Admin Password**].
- 5 Reenter the password in [**Verify Admin Password**].  
The entered password will not be displayed. Write down your password and store it in a safe place.
- 6 Click on [**Submit**].  
The network system reboots to enable the new settings.



- You do not need to restart the printer. Next time when you log in as the administrator, use the new password.

### Checking Printer Status

You can check the status of your printer from the web page.

- 1 Launch your web browser and enter the printer's IP address.

The status of the printer is displayed.



- When logging in as the administrator, you can also click on [**Status Window**] in order to view the simplified display of the printer status.

### Changing Printer Settings

You can change the main unit's settings from the web page.

- 1 Launch your web browser and log in as the administrator.
- 2 Change the settings and click [**Submit**].

### Getting the Date and Time Automatically

You can get date and time information automatically from an internet time server, and reflect this on your printer.

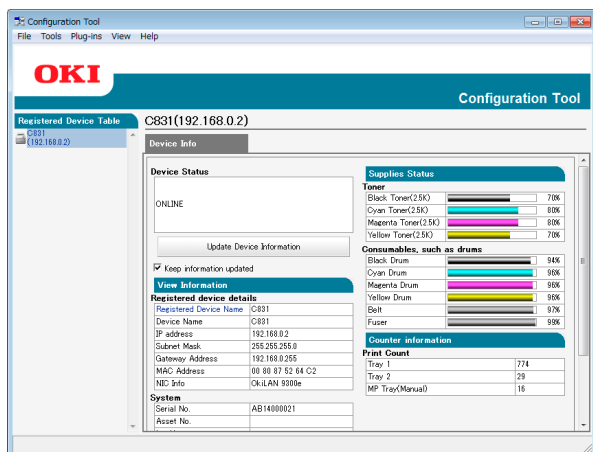
- 1 Launch your web browser and log in as the administrator.
- 2 Select [**Admin Setup**].
- 3 Select [**Network Setup**] > [**SNTP**].
- 4 Specify your time zone.
- 5 Select [**Enable**] from [**SNTP**].
- 6 Enter the SNTP server in [**SNTP Server (Primary)**].
- 7 If required, enter another SNTP server in [**SNTP Server (Secondary)**].
- 8 Click on [**Submit**].  
The network system reboots to enable the new settings.

## ■ Windows Utilities

This section explains utilities you can use in Windows.

### Configuration Tool

In the Configuration Tool, you can manage multiple units and change settings.



The Configuration Tool functions are as follows.

- Display device information
- Registering and managing an ICC profile
- Registering and deleting form data
- Managing stored jobs
- Network settings

To use the Configuration Tool in Windows 2000, you need to have the following installed.

- Service Pack 4
- Internet Explorer 5.5 SP1 or a higher version
- KB891861 (<http://support.microsoft.com/?kbid=891861>)

### Setup

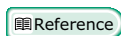
Plugins can be installed if necessary.

The following 2 types of plugin are available.

- Network Setting Plugin
- Storage Manager Plugin



- You can install additional plugins later.



- For how to install Configuration Tool, please refer to "Installing Utilities" P.80.

### Registering the Printer

When using the Configuration Tool or introducing a new printer, register the printer in the Configuration Tool.

- 1 Select [**Start**], [**All Programs**] > [**Okidata**] > [**Configuration Tool**] > [**Configuration Tool**].
- 2 Select [**Register Device**] from the [**Tools**] menu.  
Search results are displayed.
- 3 Select the printer and click on [**Register**].
- 4 On the confirmation screen, click on [**Yes**].

### Removing a Printer

You can remove a registered printer

- 1 Right-click on the printer from [**Registered device Table**].
- 2 Select [**Remove device**].
- 3 On the confirmation screen, click on [**Yes**].

### Checking the Status of the Printer

You can check the status and information of the printer.

- 1 Select the printer from the [**Registered Device Table**].
- 2 Select the [**Device Info**] tab.



- When the printer is connected to the network, [**Device Status**] will be displayed.
- If you want to update information, click on [**Update Device Information**].

## Network Setting Plugin







You can set the network with the Configuration Tool. Prior to setting, please install the Network Setting plugin.

### Reference

- For how to install Configuration Tool, please refer to "Installing Utilities" P.80.

### Icon

The meaning of each icon is as shown below.

| Icon  | Details                                    |
|---|--|
|  | Searches again for the printer.            |
|  | Changes search conditions for the printer. |
|  | Changes IP address for the printer.        |
|  | Restarts the printer.                      |
|  | Changes network password.                  |
|  | Displays the printer web page.             |


### Searches for the machine on the network

Searches for the printer.

- Select [**Network Setting**] from the [**Plug-ins**] menu.
- Select [**Discovery Devices**].  
Search results are displayed.

### Change the IP Address

Changes IP address for the printer.

- Select the printer from the device list.
- Click  icon.
- Change the settings as required.
- Click on [**OK**].
- Enter the network password and click [**OK**].  
The default password is the last 6 alphanumerical digits of the MAC address.
- Click on [**OK**] to restart the printer.

## Storage Manager Plugin

Using Storage Manager Plug-in makes it possible to manage jobs to be stored in devices and store forms, fonts, and ICC profiles used for printing.

### Icon

The meaning of each icon is as shown below.

| Icon  | Details  |
|---|--|
|    | Creates a new project.   |
|    | Opens an existing project.   |
|    | Overwrites and saves the file with the currently selected project.   |
|    | Assigns a new name to the currently selected project and stores it to a file.  |
|    | Adds a file to a project.  |
|    | Deletes the selected file from the project.  |
|    | Displays the Filter Macro File dialog box.   |
|    | Converts the currently selected project into a format that is downloadable directly into a device, and creates a new file. |
|    | Sends an existing download file to the device selected in the device selection area.                                       |
|    | Sends the currently selected project to the device selected in the device selection area.                                  |
|    | Sends the file selected from the project window to the device selected in the device selection area.                       |
|    | Displays a Job Management window for the device selected in the device selection area.                                     |
|  | Displays an Administrator Functions window for the device selected in the device selection area.                           |

## Registering an ICC Profile

You can register and edit printer profiles.

The following explains some of the functions.


### Note



- When using the profile manager, please install the User Setting plugin.

### Reference

- For how to install the plugin, please refer to "Setup" P.83.

### Registering an ICC Profile

- Select [**Storage Manager**] from the [**Plug-ins**] menu.
- Click  icon and create a new project.

- 3 Click  icon and select [**Color matching file (.ICC, .ICM)**] from [**Files of type**]
- 4 Select a profile you want to register and then click [**Open**].
- 5 Select the type of the profile you want to register from [**Profile Type**].
- 6 Click [**Component**] of the registered profile, and [**Storage Manager**] dialog is displayed.
- 7 Select a number you want to register for the profile.  
The registered numbers are displayed in yellow back ground.
- 8 Enter comments in [**Comment**] field, if necessary.
- 9 Click on [**OK**].
- 10 Select the printer from the device list.
- 11 Click  icon and send the registered profile to the printer.
- 12 Check that the completion message is displayed and click [**OK**].

## Registering Forms (Form Overlay)

You can create and register overlays such as logos or forms for printing. This explains how to register forms.

### Reference

- For how to print overlays, please refer to "Overlay Printing" P.35.

### Memo






- When using a Windows PS printer driver, administrator privileges are required.
- The Windows XPS printer driver cannot be used.

## ■ Create a Form

- 1 Click on [**Start**] and then select [**Devices and Printers**].
- 2 Right click on the *Your Printer* icon, and select the type of driver you need from [**Properties**].
- 3 Select the [**Ports**] tab, check [**FILE:**] from [**Print Port**], and click on [**OK**].

- 4 Create a form you want to register on the printer.  
When using the Windows PCL printer driver, go to step 9.
- 5 Select [**Print**] from the [**File**] menu.
- 6 Click on [**Preferences**].
- 7 Select the [**Job Options**] tab, and click on [**Overlay**].
- 8 Select [**Create Form**].
- 9 Start a print job.
- 10 Enter the file name you would like to save as.
- 11 Return to [**Printer Port**] from the [**Ports**] tab.

## ■ Registering a Form on the Printer Using the Storage Manager Plug-in

- 1 Click  icon.
  - 2 Click  icon, and select the created form.
  - 3 Click on the form file.
  - 4 Enter the [**ID**], and click [**OK**].
-  **Note**
- Do not change [**Target Volume**] and [**Path**].
-  **Memo**
- When using the Windows PS printer driver, enter [**Component**].
- 5 Select the device in the device selection area at the bottom of the Storage Manager Plug-in window.
  - 6 Select [**Send Project Files to Printer**] from the [**Projects**] menu.
  - 7 Click  icon.
  - 8 Click on [**OK**].

## Check the Free Space in SD Memory Cards or Flash Memory

You can check the free space in SD memory cards and flash memory.

- 1 Clicking a device name in the device selection area at the bottom of the Storage Manager Plug-in window opens a device resource window of the selected device.
- 2 The dialog box shows storage, partitions, directories and files by communicating with the device.

## Delete Unwanted Jobs From an SD Memory Card



You can delete print jobs in an SD memory card's [COMMON] partition.

### Memo

- Even after a confirmatory printing or saving of print data, as the job remains in the [COMMON] partition, if it is not deleted the capacity of the SD card will decrease.

### Note

- Encrypted authorized prints cannot be deleted on the Storage Manager Plug-in.

- 1 Clicking  icon, opens the Job Management dialog.
- 2 To view a specific user's print jobs, enter the password and click on [Apply job password]. To view all print jobs, enter the administrator password and click on [Apply administrator password]. "Administrator password" is the password for administration of the device.
- 3 Select the job you want to delete and click  icon.
- 4 Click on [OK].

## PDF Print Direct

You can send a PDF file to the printer and print it directly. With PDF Print Direct, the procedure for opening PDF files with applications such as Adobe Reader has been omitted.

### Reference

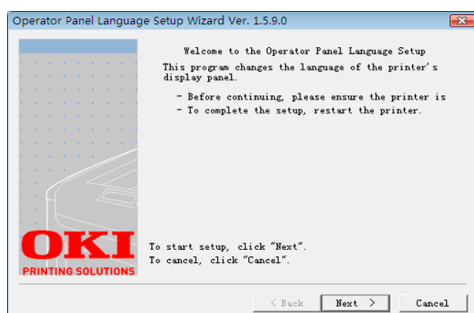
- For how to install PDF Print Direct, please refer to "Installing Utilities" P.80.

## Printing a PDF file

- 1 Check that the [*Your Printer(\*)*] icon is in the [Devices and Printers] folder.
- 2 Right-click on the PDF you would like to print, and select [PDF Print Direct]. A window is displayed.
- 3 Select the printer driver from [Select Printer].  
When setting the user verification function on the selected printer driver, select [User Auth] from the [Printer Settings] menu.
- 4 If you want to print an encrypted file, put a check in [Set Password] and enter the password.  
In order to use the same password after this, click on [Save Password].
- 5 Change the setting if necessary, and click on [Print].

## Operator Panel Language Setup

You can change the operator panel display language.



### ! Note

- This program uses the print driver. Please install the printer driver on the computer beforehand.

## Starting Up

- 1 Turn on the printer.
- 2 Plug in the computer, and insert the Software DVD-ROM.
- 3 Click [**Run Setup.exe**].  
If the [**User Account Control**] dialog box appears, click [**Yes**].
- 4 Select the model and click [**Next**].
- 5 Read the user license agreement and click [**I Agree**].
- 6 Read the recommendation on the environment and click [**Next**].
- 7 Select [**Device Configuration**].
- 8 Click [**Operator Panel Language Setup**].
- 9 Click on [**Next**].
- 10 Select the printer and click [**Next**].
- 11 Select the model name of the printer and click on [**Next**].
- 12 Select the language and click on [**Next**].
- 13 Click on [**Menu Print**] and click on [**Next**].
- 14 Check whether the menu language format value printed in step 12 is in the value range displayed on the screen.
- 15 Click on [**Next**].
- 16 Check the content to be set and, click on [**Setup**].
- 17 Click [**Finish**].
- 18 Check that the language you want is displayed is on the screen of the printer.
- 19 Restart the printer.

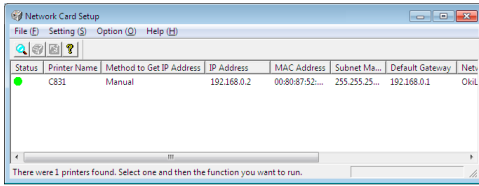
### ! Note

- If the language selection screen is not selected, carry out the following procedure.

- a Click on [**Start**] and select [**Search for Programs and Files**].
- b Enter "D:/Utilities/PanelDwn/opnplngs.exe" and press the <**Enter**> key.  
(This example uses the DVD-ROM drive (D:))
- c Go to step 8.

## Network Card Setup

You can use Network Card Setup to configure the network.



In order to use Network Card Setup, TCP/IP needs to be activated.

### ! Note

- Administrator privileges are required.

### Memo

- To check the printer MAC address, press the <ENTER> button, and then select [View Information]>[Network] on the printer operator panel.

## Launching the Utility

- 1 Turn on the printer.
- 2 Turn on your computer, and insert the Software DVD-ROM.
- 3 Click [Run Setup.exe].  
If the [User Account Control] dialog box appears, click [Yes].
- 4 Select the model and click [Next].
- 5 Read the user license agreement and click on [I Agree].
- 6 Read the recommendation on the environment and click [Next].
- 7 Select [Device Configuration].
- 8 Click [Network Card Setup].

## Configuring Network Settings

- 1 Launch Network Card Setup.
- 2 Select the printer from a list.
- 3 Select [Printer Settings] from the [Settings] menu.
- 4 Change the items required and click on [Settings].

- 5 Enter your password into [Enter Password] and click on [OK].
  - The default password is the last 6 alphanumerical digits of the Ethernet address.
  - The password is case sensitive.
- 6 Click [OK] on the confirmation window.  
The new settings are enabled when the printer restarts. During the restart, the printer status icon changes to red. The printer will restart, the new settings will become active, and the status icon will turn green.

## Configuring Web Settings

You can launch the web page to configure the printer's network setting.

### ■ Enabling Web Settings

- 1 Launch Network Card Setup.
- 2 Select the printer from the list.
- 3 Select [Printer Settings] from the [Settings] menu.
- 4 Select the [Printer Settings (Web)] tab.
- 5 Select [Printer Settings (Web) - Active] and click on [Settings].
- 6 Enter your password into [Enter Password] and click on [OK].
  - The default password is the last 6 alphanumerical digits of the ethernet address.
  - The password is case sensitive.
- 7 Click [OK] on the confirmation window.  
The new settings are enabled when the printer restarts. During the restart, the printer status icon changes to red. The printer network card will restart, the new settings will be active, and the status icon will turn green.



## ■ Opening the Web Page

- 1 Launch Network Card Setup.
- 2 Select your printer from the list.
- 3 Select [**View Web Page**] from the [**Setting**] menu.  
The web page will start, and the printer status page will be displayed.

## Changing the Password

- 1 Launch Network Card Setup.
- 2 Select your printer from the list.
- 3 Select [**Change Password**] from the [**Setting**] menu.
- 4 Enter the current password.
  - The default password is the last 6 alphanumerical digits of the ethernet address.
  - The password is case sensitive.
- 5 Enter the new password, and reenter it for confirmation.  
The password is case sensitive.
- 6 Click [**OK**] on the confirmation window.

## Changing the Environment

You can configure the printer search conditions, time-out value for each setting, and items to be displayed on the list.

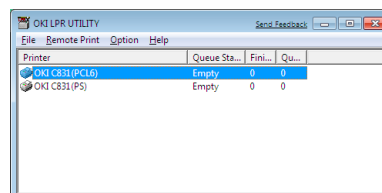
- 1 Launch Network Card Setup.
- 2 Select your printer from the list.
- 3 Select [**Environment Settings**] from the [**Option**] menu.
- 4 Configure the settings required and click [**OK**].

## OKI LPR Utility

You can use the OKI LPR utility to perform a print job via network, manage print jobs, and check the printer status.

### Reference

- For how to install OKI LPR utility, please refer to "Installing Utilities" P.80.



In order to use OKI LPR Utility, TCP/IP must be activated.

### Note

- The OKI LPR utility cannot be used for shared printers.
- Please use the standard TCP/IP port.

## Launching the Utility

- 1 Click on [**Start**], and select [**All Programs**] ([**Program**] in windows 2000)>[**Okidata**]>[**OKI LPR Utility**]>[**OKI LPR Utility**].

## Adding a Printer

You can add a printer to the OKI LPR utility.

### Note

- Administrator privileges are required.
- If you cannot add a printer in Windows 7/Windows Vista/Windows Server 2008 R2/Windows Server 2008, shut down the OKI LPR utility, right-click on [**Start**] > [**All Programs**] > [**Okidata**] > [**OKI LPR Utility**] > [**OKI LPR Utility**], and then select [**Run as administrator**] to launch.

### Memo

- You cannot add the printer already registered in the OKI LPR utility. If you want to change the port, select [**Confirm Connections**] in [**Remote Print**] menu.

- 1 Launch the OKI LPR utility.
- 2 Select [**Add Printer**] from the [**Remote Print**] menu.
- 3 Select [**Printer Name**] and enter the IP address.  
Network printers and printers connected to the LPR port are not displayed.
- 4 When selecting a network printer, select [**Discover**].

- 5 Click on [**OK**].

## Downloading Files

You can download a file to the printer you have added to the OKI LPR utility.

- 1 Launch the OKI LPR utility.
- 2 Select the download destination printer.
- 3 Select [**Download**] from the [**Remote Print**] menu.
- 4 Select a file and click on [**Open**].

## Displaying the Printer Status

- 1 Launch the OKI LPR utility.
- 2 Select a printer.
- 3 Select [**Printer Status**] from [**Remote Print**].

## Checking/Deleting/Forwarding Jobs

You can confirm and delete print jobs. Also, if you cannot print because the selected printer is busy, offline or out of paper, you can forward the print jobs to another OKI printer.

### ! Note

- Print jobs can only be forwarded to the same OKI printer as the one you are using.
- Before forwarding a job, you need to add another same OKI printer.

- 1 Launch the OKI LPR utility.
- 2 Select [**Job Status**] from the [**Remote Print**] menu.
- 3 If you want to delete a print job, select the job and then select [**Delete**] from the [**Job**] menu.
- 4 If you want to forward a print job, select the job and then select [**Forward**] from the [**Job**] menu.

## Forwarding Jobs Automatically

If you cannot print because the selected printer is busy, offline or out of paper, you can configure the settings to forward the print jobs to another OKI printer automatically.

### ! Note

- Print jobs can only be forwarded to the same OKI model printer as the one you are using.
- Before forwarding a job, you need to add another same OKI printer.
- This requires administrator rights.

- 1 Launch the OKI LPR utility.
- 2 Select the printer you would like to set.
- 3 Select [**Confirm Connections**] from [**Remote Print**] menu.
- 4 Click on [**Advanced**].
- 5 Select the [**Enable Automatic Job Redirect**] checkbox.
- 6 To forward jobs only when errors occur, select the [**Redirect only when an error occurs**] checkbox.
- 7 Click on [**Add**].
- 8 Enter the IP address of the printer to forward to, and click on [**OK**].
- 9 Click on [**OK**].

## Printing with Multiple Printers

You can print with multiple printers with a single command.

### ! Note

- This function sends remote print jobs to multiple printers and prints simultaneously.
- Administrator privileges are required.

- 1 Launch the OKI LPR utility.
- 2 Select the printer you would like to configure.
- 3 Select printer [**Confirm Connections**] from [**Remote Print**] menu.
- 4 Click on [**Advanced**].
- 5 Select the [**Print to more than one printer at a time**] checkbox.

- 6 Click on [**Options**].
- 7 Click on [**Add**].
- 8 Enter the IP address of the printer for simultaneously printing and click on [**OK**].
- 9 Click on [**OK**].

## Opening a Webpage

You can open the printer web page from the OKI LPR utility.

- 1 Launch the OKI LPR utility.
- 2 Select a printer.
- 3 Select [**Web Setting**] from the [**Remote Print**] menu.

 Memo

- You cannot open the web page when the web port number has been changed. Carry out the following procedure, and reconfigure the OKI LPR utility port number.
  - a Select a printer.
  - b Select [**Confirm Connections**] from [**Remote Print**].
  - c Click on [**Advanced**].
  - d Enter the port number into [**Port Number**].
  - e Click on [**OK**].

## Adding Comments to Printers

You can add comments to the printers added into the OKI LPR utility in order to identify them.

- 1 Launch the OKI LPR utility.
- 2 Select a printer.
- 3 Select [**Confirm Connections**] from [**Remote Print**].
- 4 Enter a comment and click on [**OK**].
- 5 Select [**Show comments**] from the [**Option**] menu.

## Automatically Configuring the IP Address

You can set it to ensure that the connection with the original printer is maintained even if the printer's IP address is changed.

 Memo

- The IP address may change if DHCP is being used to dynamically assign IP addresses or the network administrator manually changes the printer's IP address.

 Note

- Administrator privileges are required.

- 1 Launch the OKI LPR utility.
- 2 Select [**Setup**] from the [**Option**] menu.
- 3 Select the [**Auto Reconnect**] checkbox and click on [**OK**].

## Uninstalling the OKI LPR Utility

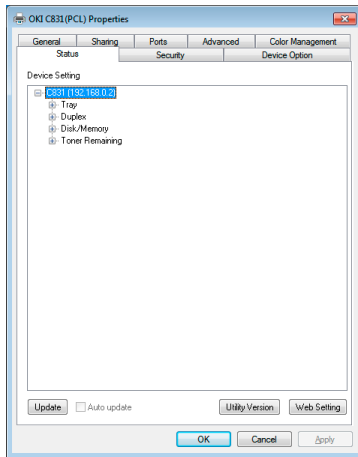
 Note

- Administrator privileges are required.

- 1 Confirm that the OKI LPR utility is closed.
- 2 Click on [**Start**], and then select [**All Programs**] ([**Program**] in Windows 2000)>[**Okidata**]>[**OKI LPR Utility**]>[**Uninstall OKI LPR Utility**].  
If the [**User Account Control**] dialog box appears, click [**Yes**].
- 3 On the confirmation screen, click on [**Yes**].

## Network Extension

In Network Extension, you can check the settings on the printer and set the composition of the options.



In order to use Network Extension, TCP/IP must be activated.

### Note

- Administrator privileges are required.

### Memo

- Network Extension is automatically installed when installing a print driver through a TCP/IP network.
- Network Extension is operated in conjunction with the print driver. You cannot opt to only have Network Extension installed.
- Network Extension only functions when the printer driver is connected to OKI LPR port or the standard TCP/IP port.

## Launching the Utility

To use Network Extension, open the printer properties screen.

- Click on [**Start**] and then select [**Devices and Printers**].
- Right click on the printer icon and select [**Printer properties**].

## Checking Printer Settings

You can check the settings of the printer.

### Memo

- If you use Network Extension in an environment that is not supported, the [**Option**] tab may not be displayed.

- Open the printer properties screen.

### Reference

- "Launching the Utility" P.92

- Select the [**Status**] tab.

- Click [**Update**].

- Click [**OK**].

### Reference

- Click [**Web Setting**] to automatically launch the web page. You can change printer settings on this web page screen. For details, refer to "Web page" P.81.

## Setting Options Automatically

You can get the composition of options of the connected printer and automatically set the print driver.

### Memo

- You cannot configure this when using Network Extension in unsupported environments.

### For Windows PCL/XPS drivers.

- Open the printer properties screen.

### Reference

- "Launching the Utility" P.92

- Select the [**Device Options**] tab.

- Click on [**Get Printer Settings**].

- Click [**OK**].

### For Windows PS Drivers

- Open the printer properties screen.

### Reference

- "Launching the Utility" P.92

- Select the [**Device Settings**] tab.

- Click on [**Get installable options automatically**] and then click on [**Setup**].

- Click [**OK**].

## Uninstalling the Utility

- Click on [**Start**], and then select [**Control Panel**] > [**Add or Remove Programs**].

- Select [**OKI Network Extension**] and click on [**Remove**].

- Follow the instructions on the screen and complete the uninstallation.

## TELNET

You can configure settings with Telnet commands.

### ! Note

- Telnet access to the printer settings is turned off in the initial settings.  
In order to use Telnet commands, set [**Telnet**] to [**Active**], either on the webpage or on the printer control panel.
- For Windows 7/Windows Vista/Windows Server 2008 R2/Windows Server 2008, Telnet commands are inactive in the initial settings.  
In order to use Telnet commands, select [**Start**] > [**Control Panel**] > [**Programs**] > [**Programs & Functions**] > [**Activate or Deactivate Windows Functions**]. Set [**Telnet Client**] to active in the displayed dialog box.

### Memo

- For the next procedure, the following environment will be used as an example. The details may differ depending on the OS you are using.
    - OS: Windows 7
    - IP Address: 192.168.0.2
    - MAC Address: 00:80:87:84:9C:9B
- 1 Click on [**Start**] and select [**All Programs**] > [**Accessories**] > [**Command Prompt**].
  - 2 Following "(Driver Password): /Users/Username>" enter "ping (Space) printer IP Address". Press the <**Enter**> key and check that access is enabled.  
E.g.: "C:/Users/WINDOWS > ping 192.168.0.2"
  - 3 Following "telnet (Space)", enter the IP address of the printer and press the <**Enter**> key in order to access the printer through Telnet.  
E.g.: "C:/Users/WINDOWS>telnet 192.168.0.2"
  - 4 After "login:", enter "root" and press the <**Enter**>.
  - 5 If a prompt is displayed, enter your password following "Password" and press the <**Enter**> key.  
Enter E.g: "password: 849C9B".

### Memo

- The default "root" password is the last 6 alphanumerical digits of the printer's MAC address.
- 6 If a menu command is displayed, enter the menu number you would like to change, and press the <**Enter**> key.

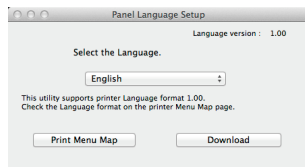
- 7 Change the settings if necessary.
- 8 Save settings and log out of the printer.

## ■ Mac OS X Utilities

This section explains utilities you can use in Mac OS X.

### Panel Language Setup

You can change the operator panel display language.



#### 1 Output a menu map for the printer.

To output settings, press the **<ENTER>** button, and select [**Print Setup**] > [**Configuration**].

#### 2 Launch the panel language setup utility.

Reference

- “Installing Utilities” P.80

#### 3 Select a method of connection.

When selecting [**TCP/IP**], enter an IP address. You can check the IP address on the menu map output in step 1.

#### 4 Click [**OK**].

#### 5 For the menu map “Language Format” value, check that the value displayed on the screen matches the following conditions.

- Condition 1: The first digit of the version number matches.
- Condition 2: The value displayed on the screen is the same as or newer (higher) than the Language Format value.

Memo

- If Condition 1 is not met, an error will be displayed in the operator panel when downloading. If Condition 1 is not met, an error will be displayed in the control panel when downloading. In order to restore, restart the printer. In case that Condition 1 is met but Condition 2 is not met, though the printer can be used, some setting names may be displayed in English.

#### 6 Select a language.

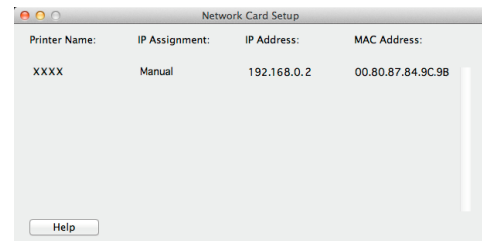
#### 7 Click on [**Download**].

The language setting file will be sent to the printer, and when sending is complete, a message will be displayed.

#### 8 Restart the printer.

### Network Card Setup

You can use the Network Card Setup to configure the network.



In order to use Network Card Setup, TCP/IP needs to be activated.

Note

- Configure the TCP/IP settings.

### Configuring the IP Address

#### 1 Launch Network Card Setup.

Reference

- “Installing Utilities” P.80

#### 2 Select the printer.

#### 3 Select [**IP Address...**] from the [**Printer**] menu.

#### 4 Configure the settings if necessary and click [**Save**].

- #### 5 Enter the password and click on [**OK**].
- The default password is the last 6 alphanumerical digits of the Mac address.
  - The password is case sensitive.

#### 6 Click on [**OK**] to activate the new settings.

Restart the printer network card.

## Configuring Web Settings

---

You can launch the web page, and configure the printer network settings.

### ■ Enabling Web Settings

- 1 Select [**Web Page Settings...**] from the [**Printer**] menu.
- 2 Select [**Enable**] and click on [**Set**].
- 3 Enter your password into [**Enter Password**] and click on [**OK**].
  - The default password is the last 6 alphanumerical digits of the MAC address.
  - The password is case sensitive.
- 4 Click [**OK**] on the confirmation window.

### ■ Opening a Web page

- 1 Launch Network Card Setup.
- 2 Select the printer.
- 3 Select [**View Printer Web Pages**] from the [**Printer**] menu .

The web page will start, and the printer status page will be displayed.

## Quitting Network Card Setup

---

- 1 Select [**Quit**] from the [**File**] menu.

# 5. Network Settings

This chapter explains network settings for your printer.

## ■ Network Setting Items

This section explains the items that can be set with network functions.

You can print the network setting list and check the current network settings by pressing the <ENTER> button and selecting [**Print Information**] > [**Network**] > [**Execute**] on the operator panel.

### Reference

- For details on how to print the network settings list, refer to "Printing Out Print Information" P.63.

You can change the network settings from your printer's web page, Configuration Tool, TELNET, and Network Card Setup. For the menus available for each utility, refer to the following tables.

### ■ TCP/IP

Shaded text indicates the factory default setting.

| Item              |                        |  |                                |                                | Setting           | Description   |
|-------------------|------------------------|--|--------------------------------|--------------------------------|-------------------|---|
| TELNET            | Web browser            | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows)   | Network Card Setup (Mac)       |                   |   |
| TCP/IP            | -                      | -  | -                              | -                              | ENABLE<br>DISABLE | Set whether to use TCP/IP.  |
| IP Address Set    | IP Address Set         | Obtain from a DHCP/BOOTP sever               | Obtain from a DHCP/BOOTP sever | Obtain from a DHCP/BOOTP sever | AUTO<br>MANUAL    | Set whether to obtain an IP address from a DHCP/BOOTP server.   |
| IP Address        | IP Address             | IP Address                                   | IP Address                     | IP Address                     | 192.168.100.100   | Specify an IP address.  |
| Subnet Mask       | Subnet Mask            | Subnet Mask                                  | Subnet Mask                    | Subnet Mask                    | 255.255.255.0     | Specify a subnet mask.  |
| Default Gateway   | Gateway Address        | Default Gateway                              | Default Gateway                | Default Gateway                | 0.0.0.0           | Specify the gateway (default router) address. When the setting is "0.0.0.0", no router is specified.  |
| DNS Server (Pri.) | DNS Server (Primary)   | -  | -                              | -                              | 0.0.0.0           | Specify the IP address of the primary DNS server. Set this item when SMTP (E-Mail protocol) is used. When an IP address is used to set the SMTP server name, this item does not need to be set.   |
| DNS Server (Sec.) | DNS Server (Secondary) | -  | -                              | -                              | 0.0.0.0           | Specify the IP address of the secondary DNS server. Set this item when SMTP (E-Mail protocol) is used. When an IP address is used to set the SMTP server name, this item does not need to be set. |
| Dynamic DNS       | Dynamic DNS            | -  | -                              | -                              | ENABLE<br>DISABLE | Set whether to register the information to the DNS server when a setting such as IP address has been changed.   |



Shaded text indicates the factory default setting.

| Item               |                         |  |                              |                          | Setting  | Description  |
|--------------------|-------------------------|--|------------------------------|--------------------------|--|--|
| TELNET             | Web browser             | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |  |  |
| Domain Name        | Domain Name             | -  | -                            | -                        | (NULL)   | Set the name of the domain to which the printer belongs.   |
| WINS Server (Pri.) | WINS Server (Primary)   | -  | -                            | -                        | 0.0.0.0  | Specify the IP address or name of name server (a server that translates computer names into IP addresses) when a name sever is used in a Windows environment.  |
| WINS Server (Sec.) | WINS Server (Secondary) | -  | -                            | -                        | 0.0.0.0  | Specify the IP address or name of name server (a server that translates computer names into IP addresses) when an name sever is used in a Windows environment. |
| Scope ID           | Scope ID                | -  | -                            | -                        | (NULL)   | Specify the scope ID for WINS. From 1 to 223 alphanumeric characters can be used.  |
| Windows            | Windows                 | -  | -                            | -                        | ENABLE<br>DISABLE  | Set whether to use the auto-detection function for Windows.  |
| Macintosh          | Macintosh               | -  | -                            | -                        | ENABLE<br>DISABLE  | Set whether to use the auto-detection function for Macintosh.  |
| Printer Name       | Printer Name            | -  | -                            | -                        | [OKI] + [-] + [printer name] + [-] + [last six digits of MAC address]      | Specify the rule of displaying the printer name when the auto-detection function is enabled.   |
| IP Version         | IPv6                    | -  | -                            | -                        | ENABLE<br>DISABLE<br>([IPv4 Only], [IPv4+v6], and [IPv6 Only] for TELNET ) | Set whether to use IPv6.   |
| WSD Print          | WSD Print               | -  | -                            | -                        | ENABLE<br>DISABLE  | Set whether to use WSD Print.  |
| LLTD               | LLTD                    | -  | -                            | -                        | ENABLE<br>DISABLE  | Set whether to use LLTD.   |

## ■ SNMP

Shaded text indicates the factory default setting.

| Item                 |                                    |  |                              |                          | Setting   | Description   |
|----------------------|------------------------------------|--|------------------------------|--------------------------|---|---|
| TELNET               | Web browser                        | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |   |   |
| Contact to Admin     | Contact to Admin                   | -  | -                            | -                        | (NULL)  | Enter the contact information of the system administrator. Up to 255 one-byte characters can be entered.  |
| Printer Name         | Printer Name                       | -  | -                            | -                        | [OKI] + [-] + [printer name] + [-] + [last six digits of MAC address] | Enter the printer name. Up to 31 one-byte characters can be entered.  |
| Printer Location     | Printer Location                   | -  | -                            | -                        | (NULL)  | Enter the printer location. Up to 255 one-byte characters can be entered.   |
| Printer Asset Number | Printer Asset Number               | -  | -                            | -                        | (NULL)  | Enter the number for asset management of the printer. Up to 32 one-byte characters can be entered.  |
| SNMP Version         | Use SNMP Settings                  | -  | -                            | -                        | SNMPv1<br>SNMPv3<br>SNMPv3+SNMPv1                                     | Set the version of SNMP.  |
| User Name            | User Name                          | -  | -                            | -                        | root  | Specify the user name in SNMPv3. From 1 to 32 alphanumeric characters can be used.  |
| Auth Passphrase      | Authentication Settings Passphrase | -  | -                            | -                        | (NULL)  | Set the password to create an authentication key for SNMPv3 packet authentication. From 8 to 32 alphanumeric characters can be used.  |
| Auth Key             | -                                  | -  | -                            | -                        | (NULL)  | Set the authentication key for SNMPv3 packet authentication in HEX code. For MD5: Sixteen octets (32 characters of HEX code), for SHA: twenty octets (40 characters of HEX code). |
| Auth Algorithm       | Authentication Settings Algorithm  | -  | -                            | -                        | MD5<br>SHA  | Set the algorithm for SNMPv3 packet authentication.   |
| Privacy Passphrase   | Encryption Settings Passphrase     | -  | -                            | -                        | (NULL)  | Set the password to create a privacy key for SNMPv3 packet encryption. From 8 to 32 alphanumeric characters can be used.  |
| Privacy Key          | -                                  | -  | -                            | -                        | (NULL)  | Set the password for SNMPv3 packet encryption in HEX code. For MD5: Sixteen octets (32 characters of HEX code).   |

Shaded text indicates the factory default setting.

| Item              |                               |  |                              |                          | Setting | Description   |
|-------------------|-------------------------------|--|------------------------------|--------------------------|---------|---|
| TELNET            | Web browser                   | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |         |   |
| Privacy Algorithm | Encryption Settings Algorithm | -  | -                            | -                        | DES     | Set the algorithm for SNMPv3 packet encryption. This setting is fixed to [DES].   |
| Read Community    | Read Community                | -  | -                            | -                        | public  | Set the Read Community for SNMPv1. Up to 15 alphanumeric characters can be used.  |
| Write Community   | Write Community               | -  | -                            | -                        | public  | Set the Write Community for SNMPv1. Up to 15 alphanumeric characters can be used. |

## ■ NetWare

Shaded text indicates the factory default setting.

| Item         |                        |  |                              |                          | Setting  | Description   |
|--------------|------------------------|--|------------------------------|--------------------------|--|---|
| TELNET       | Web browser            | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |  |   |
| NetWare      | NetWare                | -  | -                            | -                        | ENABLE<br>DISABLE  | Set whether to use NetWare.   |
| TCP or IPX   | Communication protocol | -  | -                            | -                        | IPX<br>TCP/IP  | Select IPX or TCP/IP for the protocol used on NetWare.  |
| Frame Type   | Frame Type             | -  | -                            | -                        | AUTO<br>ETHER- II (ETHERNET-II)<br>802.2 (IEEE802.2)<br>803.3 (IEEE802.3)<br>SNAP (SNAP)                     | Set the frame type that the printer uses on NetWare. Normally, use the factory default setting.                               |
| Printer Name | Printer Name           | -  | -                            | -                        | [OKI] + [-] + [printer name]<br>+ [-] + [last six digits of Ethernet address (alphanumeric)]<br>+ [-] + [PR] | Enter the printer name for using a remote printer. The setting needs to be identical to the one specified in the file server. |
| -            | Print Mode             | -  | -                            | -                        | RPRINTER (Remote Printer)<br>PSERVER (Print Server)  | Select the print server mode or remote printer mode as the operating mode of the printer.                                     |
| NetWare Mode | -                      | -  | -                            | -                        | NDS<br>NDS+BIN<br>RPINTER  | Set the NetWare priority mode.  |

## ■ Print Server

Shaded text indicates the factory default setting.

| Item                    |                            |  |                              |                          | Setting  | Description   |
|-------------------------|----------------------------|--|------------------------------|--------------------------|--|---|
| TELNET                  | Web browser                | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |  |   |
| NDS Tree                | Tree                       | -  | -                            | -                        | (NULL)   | Specify a NDS tree name. Specify the name of a tree to which a file server that has a print server registered belongs, using up to 31 alphanumeric characters.  |
| NDS Context             | Context                    | -  | -                            | -                        | (NULL)   | Specify a NDS context name. Specify the name of context to which a print server belongs, using up to 77 alphanumeric characters.  |
| Print Server Name       | Print Server Name          | -  | -                            | -                        | [OKI] + [-] + [printer name] + [-] + [last six digits of Ethernet address (alphanumeric)] + [-] + [PR] | Specify a print server name. Specify the same print server name as that specified on a file server, using up to 31 alphanumeric characters.   |
| Password                | File Server Login Password | -  | -                            | -                        | (NULL)   | Specify a password to log in to a file server, using up to 31 alphanumeric characters. This setting is necessary when specifying a printer password on a file server.   |
| Job Polling Time (Sec.) | Job Polling Interval       | -  | -                            | -                        | 2 seconds<br>4 seconds<br>255 seconds  | Specify a interval time for finding a job in a queue. If you shorten the interval, printing will start soon but a network congestion will occur.  |
| -                       | Bindery Mode               | -  | -                            | -                        | Checked<br>Not checked   | Set whether to use a bindery mode. For NetWare is 6.0, 5.0 or 4.1 on a bindery network, or when connecting to 3.12, set to <b>[ENABLE]</b> . For NetWare version 6.0, 5.0 or 4.1 using NDS, set to <b>[DISABLE]</b> . |
| File Server Name #1-8   | File Server Name           | -  | -                            | -                        | (NULL)   | Specify file server names, using up to 47 alphanumeric characters. Up to 8 file servers can be specified.   |

## ■ Remote Server

Shaded text indicates the factory default setting.

| Item                   |                   |  |                              |                          | Setting                                | Description   |
|------------------------|-------------------|--|------------------------------|--------------------------|--|---|
| TELNET                 | Web browser       | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |  |   |
| Print Server Name #1-8 | Print Server Name | -  | -                            | -                        | (NULL)                                 | Specify the names of print servers to be connected, using up to 47 alphanumeric characters. Up to 8 print servers can be specified.   |
| Job Timeout (Sec.)     | Job Timeout       | -  | -                            | -                        | 4 seconds<br>10 seconds<br>255 seconds | Specify the time that elapses before releasing a port after receiving a last job packet. Normally, a default setting is used. If this value is too small, printing is not performed correctly; if the value is too large, a print job sent using other protocols does not start smoothly. |

## ■ EtherTalk

Shaded text indicates the factory default setting.

| Item         |                        |  |                              |                          | Setting           | Description   |
|--------------|------------------------|--|------------------------------|--------------------------|-------------------|---|
| TELNET       | Web browser            | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |                   |   |
| EtherTalk    | EtherTalk              | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to use EtherTalk.   |
| Printer Name | EtherTalk Printer Name | -  | -                            | -                        | Printer name      | Specify a printer name for EtherTalk, using up to 31 alphanumeric characters. If the specified name is not unique on the network, a number is automatically added to the end of the name. |
| Zone Name    | EtherTalk Zone Name    | -  | -                            | -                        | *                 | Specify an EtherTalk zone name, using up to 32 alphanumeric characters.   |

## ■ NBT/NetBEUI

Shaded text indicates the factory default setting.

| Item                   |                    |  |                              |                          | Setting   | Description  |
|------------------------|--------------------|--|------------------------------|--------------------------|---|--|
| TELNET                 | Web browser        | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |   |  |
| NetBEUI                | NetBEUI            | -  | -                            | -                        | ENABLE<br>DISABLE   | Set whether to use NetBEUI.  |
| NetBIOS over TCP       | NetBIOS over TCP   | -  | -                            | -                        | ENABLE<br>DISABLE   | Set whether to use NetBIOS over TCP.   |
| Short Printer Name     | Short Printer Name | -  | -                            | -                        | [printer name] + [last six digits of Ethernet address (alphanumeric)] | Specify a computer name, using up to 15 alphanumeric characters. The specified name is identified in NetBIOS over TCP/NetBEUI. The specified name is displayed in the Windows network computers. |
| Work group Name        | Work group Name    | -  | -                            | -                        | PrintServer   | Specify a work group name, using up to 15 alphanumeric characters. The specified name is displayed in the Windows network computers.   |
| Comment                | Comment            | -  | -                            | -                        | Ethernet Board OkiLAN 8450e   | Specify a comment, using up to 48 alphanumeric characters. The specified comment is displayed when detailed display format is selected in Windows network computers.                             |
| Master Browser Setting | Master Browser     | -  | -                            | -                        | ENABLE<br>DISABLE   | Set whether to use a master browser function.  |

## ■ Printer Trap

Shaded text indicates the factory default setting.

| Item                         |                                 |  |                              |                          | Setting           | Description  |
|------------------------------|---------------------------------|--|------------------------------|--------------------------|-------------------|--|
| TELNET                       | Web browser                     | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |                   |  |
| Prn-Trap Community           | Printer Trap Community Name Set | -  | -                            | -                        | public            | Specify a printer trap community name, using up to 31 alphanumeric characters. |
| TCP #1-5 Trap Enable         | Trap Enable 1-5                 | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to use a printer trap in TCP #1-5.                                 |
| TCP #1-5 Printer Reboot Trap | Printer Reboot 1-5              | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to send an SNMP message when a printer is restarted.               |

Shaded text indicates the factory default setting.

| Item                             |                          |  |                              |                          | Setting           | Description   |
|----------------------------------|--------------------------|--|------------------------------|--------------------------|-------------------|---|
| TELNET                           | Web browser              | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |                   |   |
| TCP #1-5<br>Receive Illegal Trap | Receive Illegal Trap 1-5 | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to use a trap when accessing a printer with a community name other than that specified in [ <b>Printer Trap Community Name Set</b> ].   |
| TCP #1-5<br>Online Trap          | Online 1-5               | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to send an SNMP message every time a printer changes to online.   |
| TCP #1-5<br>Offline Trap         | Offline 1-5              | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to send an SNMP message every time a printer changes to offline.  |
| TCP #1-5<br>Paper Out Trap       | Paper Out 1-5            | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to send an SNMP message when paper runs out.  |
| TCP #1-5<br>Paper Jam Trap       | Paper Jam 1-5            | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to send an SNMP message when a paper jam has occurred.  |
| TCP #1-5<br>Cover Open Trap      | Cover Open 1-5           | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to send an SNMP message every time a printer cover is opened.   |
| TCP #1-5<br>Printer Error Trap   | Printer Error 1-5        | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to send an SNMP message when a printer error has occurred.  |
| TCP #1-5<br>Trap Address         | Address 1-5              | -  | -                            | -                        | 0.0.0.0           | Specify a trap destination address for TCP/IP. Enter the value in a decimal number format "000.000.000.000". If an IP address is 0.0.0.0, a trap will not be sent. Up to 5 trap destination addresses can be specified. |
| IPX Trap Enable                  | IPX Trap Enable          | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to use a printer trap for IPX.  |
| IPX Online Trap                  | IPX Online Trap          | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to send an SNMP message every time a printer changes to online.   |
| IPX Offline Trap                 | IPX Offline Trap         | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to send an SNMP message every time a printer changes to offline.  |
| IPX Paper Out Trap               | IPX Paper Out            | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to send an SNMP message when paper runs out.  |

Shaded text indicates the factory default setting.

| Item                   |                   |  |                              |                          | Setting                   | Description  |
|------------------------|-------------------|--|------------------------------|--------------------------|---------------------------|--|
| TELNET                 | Web browser       | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |                           |  |
| IPX Paper Jam Trap     | IPX Paper Jam     | -  | -                            | -                        | ENABLE<br>DISABLE         | Set whether to send an SNMP message when a paper jam has occurred.   |
| IPX Cover Open Trap    | IPX Cover Open    | -  | -                            | -                        | ENABLE<br>DISABLE         | Set whether to send an SNMP message every time a printer cover is opened.  |
| IPX Printer Error Trap | IPX Printer Error | -  | -                            | -                        | ENABLE<br>DISABLE         | Set whether to send an SNMP message when a printer error has occurred.   |
| IPX Trap Net/Address   | IPX               | -  | -                            | -                        | 00000000:<br>000000000000 | Specify a trap destination address for IPX. Enter a network address (8 digits) and a node address (12 digits). If a specified address is 00000000:000000000000, a trap will not be issued. Only one trap destination address can be specified. |

## ■ E-mail reception

Shaded text indicates the factory default setting.

| Item                 |                 |  |                              |                          | Setting                | Description   |
|----------------------|-----------------|--|------------------------------|--------------------------|------------------------|---|
| TELNET               | Web browser     | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |                        |   |
| POP or SMTP          | Using Protocol  | -  | -                            | -                        | POP<br>SMTP<br>DISABLE | Set whether to use the E-mail Receive function. Specify a protocol (POP/SMTP) to be used. |
| POP3 Server          | POP Server Name | -  | -                            | -                        | (NULL)                 | Specify a POP server name. Specify a domain name or an IP address.                        |
| POP port number      | POP Port Number | -  | -                            | -                        | 110                    | Specify a port number to access a POP server.   |
| POP3 Server User ID  | POP User ID     | -  | -                            | -                        | (NULL)                 | Specify a user ID to access a POP server.   |
| POP3 Server Password | POP Password    | -  | -                            | -                        | (NULL)                 | Specify a password to access a POP server.  |
| Use APOP             | APOP Support    | -  | -                            | -                        | NO<br>YES              | Set whether to use APOP.  |



Shaded text indicates the factory default setting.

| Item                             |  |  |                              |                          | Setting   | Description  |
|----------------------------------|--|--|------------------------------|--------------------------|---|--|
| TELNET                           | Web browser                                    | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |   |  |
| Mail Polling Time (min)          | POP Receive Interval                           | -  | -                            | -                        | OFF<br>1<br>5<br>10<br>30<br>60   | Specify an interval time for accessing a POP server to obtain incoming mails.  |
| Domain filter                    | Domain Filter                                  | -  | -                            | -                        | ENABLE<br>DISABLE   | Set whether to use the domain filter function.   |
| Filter Policy                    | Email with Domains specified in the followings | -  | -                            | -                        | DENY<br>ACCEPT  | Set whether to accept E-mail from specified domain.  |
| Domain 1-5                       | Domain 1-5                                     | -  | -                            | -                        | (NULL)  | Specify a domain name that the domain filter function applies to.  |
| SMTP Send                        | SMTP Sending                                   | -  | -                            | -                        | ENABLE<br>DISABLE   | Set whether to use an SMTP (E-mail) sending protocol.  |
| SMTP Server Name                 | SMTP Server Name                               | -  | -                            | -                        | (NULL)  | Specify an SMTP server name. Specify a domain name or IP address. When specifying a domain name, DNS (Pri) (sec) settings are necessary. |
| SMTP Port Number                 | SMTP Port Number                               | -  | -                            | -                        | 25  | Specify an SMTP port number. Normally, set to a default setting.   |
| Printer Email Address            | Printer Email Address                          | -  | -                            | -                        | (NULL)  | Specify a printer E-mail address.  |
| Reply-To Address                 | Return Email Address                           | -  | -                            | -                        | (NULL)  | Specify a return E-mail address. Normally, specify a network administrator's email address.  |
| Email Address 1-5                | Email Address 1-5                              | -  | -                            | -                        | (NULL)  | Specify a recipient address. Up to 5 addresses can be specified.   |
| Notify Mode 1-5                  | Error Notification Method                      | -  | -                            | -                        | EVENT (Notification when an error occurs)<br>PERIOD (Periodic notification) | Specify an error notification method.  |
| Email Alert Interval (Hours) 1-5 | Mail Sending Interval                          | -  | -                            | -                        | 1<br>-<br>24  | Specify a notification interval. This setting is available only when selecting [ <b>PERIOD</b> ].  |

Shaded text indicates the factory default setting.

| Item                           |                          |  |                              |                          | Setting  | Description   |
|--------------------------------|--------------------------|--|------------------------------|--------------------------|--|---|
| TELNET                         | Web browser              | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |  |   |
| Consumable Warning Event 1-5   | Consumables Warning      | -  | -                            | -                        | DISABLE<br>Immediate<br>-<br>48H 45M<br>ENABLE               | Set whether to notify of warnings concerning printer consumables (Toner cartridge, Image drum unit, etc.). This setting is available only when selecting [ <b>EVENT</b> ].  |
| Consumable Warning Period 1-5  | Consumables Warning      | -  | -                            | -                        | ENABLE<br>DISABLE  | Set whether to notify of warnings concerning printer consumables (Toner cartridge, Image drum unit, etc.). This setting is available only when selecting [ <b>PERIOD</b> ]. |
| Consumable Error Event 1-5     | Consumables Error        | -  | -                            | -                        | DISABLE<br>Immediate<br>-<br>48H 45M<br>ENABLE               | Set whether to notify of errors concerning printer consumables (Toner cartridge, Image drum unit, etc.). This setting is available only when selecting [ <b>EVENT</b> ].    |
| Consumable Error Period 1-5    | Consumables Error        | -  | -                            | -                        | ENABLE<br>DISABLE  | Set whether to notify of errors concerning printer consumables (Toner cartridge, Image drum unit, etc.). This setting is available only when selecting [ <b>PERIOD</b> ].   |
| Maintenance Warning Event 1-5  | Maintenance Unit Warning | -  | -                            | -                        | DISABLE<br>Immediate<br>-<br>2H 0M<br>-<br>48H 45M<br>ENABLE | Set whether to notify of a warnings concerning maintenance units (fuser unit, belt unit etc.). This setting is available only when selecting [ <b>EVENT</b> ].              |
| Maintenance Warning Period 1-5 | Maintenance Unit Warning | -  | -                            | -                        | ENABLE<br>DISABLE  | Set whether to notify of a warnings concerning maintenance units (fuser unit, belt unit etc.). This setting is available only when selecting [ <b>PERIOD</b> ].             |
| Maintenance Error Event 1-5    | Maintenance Unite Error  | -  | -                            | -                        | DISABLE<br>Immediate<br>-<br>48H 45M<br>ENABLE               | Set whether to notify of errors concerning maintenance units (fuser unit, belt unit etc.). This setting is available only when selecting [ <b>EVENT</b> ].                  |

Shaded text indicates the factory default setting.

| Item                              |                         |  |                              |                          | Setting   | Description   |
|-----------------------------------|-------------------------|--|------------------------------|--------------------------|---|---|
| TELNET                            | Web browser             | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |   |   |
| Maintenance Error Period 1-5      | Maintenance Unite Error | -  | -                            | -                        | ENABLE<br>DISABLE   | Set whether to notify of errors concerning maintenance units (fuser unit, belt unit etc.). This setting is available only when selecting [ <b>PERIOD</b> ]. |
| Paper Supply Warning Event 1-5    | Paper Loading Warning   | -  | -                            | -                        | DISABLE<br>Immediate<br>-<br>0H 15M<br>-<br>48H 45M<br>ENABLE | Set whether to notify of warnings concerning paper. This setting is available only when selecting [ <b>EVENT</b> ].   |
| Paper Supply Warning Period 1-5   | Paper Loading Warning   | -  | -                            | -                        | ENABLE<br>DISABLE   | Set whether to notify of warnings concerning paper. This setting is available only when selecting [ <b>PERIOD</b> ].  |
| Paper Supply Error Event 1-5      | Paper Loading Error     | -  | -                            | -                        | DISABLE<br>Immediate<br>-<br>48H 45M<br>ENABLE                | Set whether to notify of errors concerning paper. This setting is available only when selecting [ <b>EVENT</b> ].   |
| Paper Supply Error Period 1-5     | Paper Loading Error     | -  | -                            | -                        | ENABLE<br>DISABLE   | Set whether to notify of errors concerning paper. This setting is available only when selecting [ <b>PERIOD</b> ].  |
| Printing Paper Warning Event 1-5  | Printing Paper Warning  | -  | -                            | -                        | DISABLE<br>Immediate<br>-<br>48H 45M<br>ENABLE                | Set whether to notify of warnings concerning paper feed. This setting is available only when selecting [ <b>EVENT</b> ].                                    |
| Printing Paper Warning Period 1-5 | Printing Paper Warning  | -  | -                            | -                        | ENABLE<br>DISABLE   | Set whether to notify of warnings concerning paper feed. This setting is available only when selecting [ <b>PERIOD</b> ].                                   |
| Printing Paper Error Event 1-5    | Printing Paper Error    | -  | -                            | -                        | DISABLE<br>Immediate<br>-<br>2H 0M<br>-<br>48H 45M<br>ENABLE  | Set whether to notify of errors concerning paper feed. This setting is available only when selecting [ <b>EVENT</b> ].                                      |

Shaded text indicates the factory default setting.

| Item                            |                      |  |                              |                          | Setting  | Description  |
|---------------------------------|----------------------|--|------------------------------|--------------------------|--|--|
| TELNET                          | Web browser          | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |  |  |
| Printing Paper Error Period 1-5 | Printing Paper Error | -  | -                            | -                        | ENABLE<br>DISABLE  | Set whether to notify of errors concerning paper feed. This setting is available only when selecting [ <b>PERIOD</b> ].                        |
| Storage Device Event 1-5        | Storage Device       | -  | -                            | -                        | DISABLE<br>Immediate<br>-<br>48H 45M<br>ENABLE               | Set whether to notify of errors concerning storage devices. This setting is available only when selecting [ <b>EVENT</b> ].                    |
| Storage Device Period 1-5       | Storage Device       | -  | -                            | -                        | ENABLE<br>DISABLE  | Set whether to notify of errors concerning storage devices. This setting is available only when selecting [ <b>PERIOD</b> ].                   |
| Print Result Warning Event 1-5  | Print Result Warning | -  | -                            | -                        | DISABLE<br>Immediate<br>-<br>48H 45M<br>ENABLE               | Set whether to notify of warnings concerning troubles affecting print results. This setting is available only when selecting [ <b>EVENT</b> ]. |
| Print Result Warning Period 1-5 | Print Result Warning | -  | -                            | -                        | ENABLE<br>DISABLE  | Set whether to notify of errors concerning troubles affecting print results. This setting is available only when selecting [ <b>PERIOD</b> ].  |
| Printing Paper Error Event 1-5  | Printing Paper Error | -  | -                            | -                        | DISABLE<br>Immediate<br>-<br>2H 0M<br>-<br>48H 45M<br>ENABLE | Set whether to notify of errors concerning troubles affecting print results. This setting is available only when selecting [ <b>EVENT</b> ].   |
| Print Result Error Period 1-5   | Printing Paper Error | -  | -                            | -                        | ENABLE<br>DISABLE  | Set whether to notify an error relating a trouble affecting a print result. This setting is available only when selecting [ <b>PERIOD</b> ].   |
| Interface Warning Event 1-5     | Interface Warning    | -  | -                            | -                        | DISABLE<br>Immediate<br>-<br>48H 45M<br>ENABLE               | Set whether to notify of warnings concerning interfaces (network, etc.). This setting is available only when selecting [ <b>EVENT</b> ].       |
| Interface Warning Period 1-5    | Interface Warning    | -  | -                            | -                        | ENABLE<br>DISABLE  | Set whether to notify of warnings concerning interfaces (network, etc.). This setting is available only when selecting [ <b>PERIOD</b> ].      |

Shaded text indicates the factory default setting.

| Item                        |  |  |                              |                          | Setting  | Description   |
|-----------------------------|--|--|------------------------------|--------------------------|--|---|
| TELNET                      | Web browser                            | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |  |   |
| Interface Error Event 1-5   | Interface Error                        | -  | -                            | -                        | DISABLE<br>Immediate<br>-<br>2H 0M<br>-<br>48H 45M<br>ENABLE | Set whether to notify of errors concerning interfaces (network, etc.). This setting is available only when selecting [ <b>EVENT</b> ].  |
| Interface Error Period 1-5  | Interface Error                        | -  | -                            | -                        | ENABLE<br>DISABLE  | Set whether to notify of errors concerning interfaces (network, etc.). This setting is available only when selecting [ <b>PERIOD</b> ]. |
| Security Warning Event 1-5  | Security                               | -  | -                            | -                        | DISABLE<br>Immediate<br>-<br>2H 0M<br>-<br>48H 45M<br>ENABLE | Set whether to notify of warnings occurring in the security functions. This setting is available only when selecting [ <b>EVENT</b> ].  |
| Security Warning Period 1-5 | Security                               | -  | -                            | -                        | ENABLE<br>DISABLE  | Set whether to notify of warnings occurring in the security functions. This setting is available only when selecting [ <b>PERIOD</b> ]. |
| Other Error Event 1-5       | Others                                 | -  | -                            | -                        | DISABLE<br>Immediate<br>-<br>2H 0M<br>-<br>48H 45M<br>ENABLE | Set whether to notify of other critical errors. This setting is available only when selecting [ <b>EVENT</b> ].                         |
| Other Error Period 1-5      | Others                                 | -  | -                            | -                        | ENABLE<br>DISABLE  | Set whether to notify of other critical errors. This setting is available only when selecting [ <b>PERIOD</b> ].                        |
| Attached Info Printer Model | Attached Information Printer Mode      | -  | -                            | -                        | ENABLE<br>DISABLE  | Set whether to include the printer name in printer information described in outgoing E-mail.  |
| Attached Info Network Model | Attached Information Network Interface | -  | -                            | -                        | ENABLE<br>DISABLE  | Set whether to include the network interface name in printer information described in outgoing E-mail.                                  |

Shaded text indicates the factory default setting.

| Item                                |  |  |                              |                          | Setting           | Description  |
|-------------------------------------|--|--|------------------------------|--------------------------|-------------------|--|
| TELNET                              | Web browser                                | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |                   |  |
| Attached Info Printer Serial Number | Attached Information Printer Serial Number | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to include the printer serial number in printer information described in outgoing E-mail.  |
| Attached Info Printer Asset Number  | Attached Information Printer Asset Number  | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to include the printer asset number in printer information described in outgoing E-mail.   |
| Attached Info Printer Name          | Attached Information Printer Name          | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to include the system name in printer information described in outgoing E-mail.  |
| Attached Info Printer Location      | Attached Information Printer Location      | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to include the system location in printer information described in outgoing E-mail.  |
| Attached Info IP Address            | Attached Information IP Address            | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to include the IP address in printer information described in outgoing E-mail.   |
| Attached Info MAC Address           | Attached Information MAC Address           | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to include the MAC address in printer information described in outgoing E-mail.  |
| Attached Info Short Printer Name    | Attached Information Short Printer Number  | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to include the short printer name in printer information described in outgoing E-mail.   |
| Attached Info Printer URL           | Attached Information Printer URL           | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to include the printer URL in printer information described in outgoing E-mail.  |
| Comment Line 1-4                    | Comment                                    | -  | -                            | -                        | (NULL)            | Specify a comment that is added to the end of the sentence in an outgoing E-mail. 4 lines can be specified. Up to 63 characters per line can be entered. If characters exceeds the limit per line, a new line is inserted automatically. |
| SMTP Auth                           | SMTP Authentication Setting                | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to enable SMTP authentication.   |
| User ID                             | User ID                                    | -  | -                            | -                        | (NULL)            | Specify a user ID for SMTP authentication.   |
| User Password                       | Password                                   | -  | -                            | -                        | (NULL)            | Specify a password for SMTP authentication.  |

## ■ Maintenance

Shaded text indicates the factory default setting.

| Item              |                   |  |                              |                          | Setting  | Description   |
|-------------------|-------------------|--|------------------------------|--------------------------|--|---|
| TELNET            | Web browser       | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |  |   |
| LAN Scale Setting | LAN Scale Setting | -  | -                            | -                        | NORMAL<br>SMALL  | [ <b>NORMAL</b> ]: Normally, use this setting. Even if connecting to a hub with a spanning tree function, the printer works efficiently. If connecting to a small LAN only for few computers, it will take a long time to start up the printer.<br>[ <b>SMALL</b> ]: This setting supports from a small LAN for few computers to a large LAN. If connecting to a hub with a spanning tree function, the printer may not work efficiently. |
| HEX Dump Mode     | HEX Dump          | -  | -                            | -                        | NO<br>YES  | All received print data is displayed in hexadecimal. Restart the printer to exit this mode.   |
| HUB Link Setting  | HUB Link Setting  | -  | -                            | -                        | AUTO NEGOTIATION<br>100BASE-TX FULL<br>100BASE-TX HALF<br>10BASE-T FULL<br>10BASE-T HALF | Specify the communication speed and communication method between the printer and a hub. Normally, set to [ <b>AUTO NEGOTIATION</b> ].   |
| -                 | TCP ACK           | -  | -                            | -                        | Type1<br>Type2   | Select the type of TCP Acknowledgement. When [ <b>Type1</b> ] is selected, the printer returns the response for each packet. When [ <b>Type2</b> ] is selected, the printer returns the response for multiple packets at a time. Selecting [ <b>Type2</b> ] may improve the printing time in case the printing time has become longer due to the setting of the hub. Normally, select [ <b>Type1</b> ].                                   |

## ■ Security

Shaded text indicates the factory default setting.

| Item                   |                     |  |                              |                          | Setting                     | Description   |
|------------------------|---------------------|--|------------------------------|--------------------------|-----------------------------|---|
| TELNET                 | Web browser         | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |                             |   |
| FTP                    | FTP                 | -  | -                            | -                        | ENABLE<br>DISABLE           | Set whether to access the printer using FTP.  |
| Telnet                 | Telnet              | -  | -                            | -                        | ENABLE<br>DISABLE           | Set whether to access the printer using the telnet protocol.                                  |
| Web (Default Port 80)  | Web (Port No.: 80)  | Web Settings                                 | Web Settings                 | Web Page Settings        | ENABLE<br>DISABLE           | Set whether to access the printer through a web browser.                                      |
| Web (IPP)              | Web                 | -  | -                            | -                        | 1<br>-<br>80<br>-<br>65535  | Specify a port number to access the web page for the printer.                                 |
| IPP (Default Port 631) | IPP (Port No.: 631) | -  | -                            | -                        | ENABLE<br>DISABLE           | Set whether to use the IPP protocol.  |
| SNMP                   | SNMP                | -  | -                            | -                        | ENABLE<br>DISABLE           | Set whether to access the printer using the SNMP protocol. Normally, set to <b>[ENABLE]</b> . |
| SMTP (E-mail)          | -                   | -  | -                            | -                        | ENABLE<br>DISABLE           | Set whether to use SMTP sending.  |
| SMTP                   | SMTP                | -  | -                            | -                        | 1<br>-<br>25<br>-<br>65535  | Specify a port number for the SMTP protocol.  |
| POP (E-mail)           | POP                 | -  | -                            | -                        | ENABLE<br>DISABLE           | Set whether to use the POP3 protocol.   |
| POP                    | POP                 | -  | -                            | -                        | 1<br>-<br>110<br>-<br>65535 | Specify a port number for the POP3 protocol.  |
| SNTP                   | SNTP                | -  | -                            | -                        | ENABLE<br>DISABLE           | Set whether to use the SNTP protocol.   |
| Local Ports            | Local Ports         | -  | -                            | -                        | ENABLE<br>DISABLE           | Set whether to use a unique protocol.   |
| TCP/IP                 | -                   | -  | -                            | -                        | ENABLE<br>DISABLE           | Set whether to use the TCP/IP protocol.   |



Shaded text indicates the factory default setting.

| Item             |                  |  |                              |                          | Setting                          | Description  |
|------------------|------------------|--|------------------------------|--------------------------|----------------------------------|--|
| TELNET           | Web browser      | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |                                  |  |
| NetBEUI          | NetBEUI          | -  | -                            | -                        | ENABLE<br>DISABLE                | Set whether to use the NetBEUI protocol.   |
| NetBIOS over TCP | NetBIOS over TCP | -  | -                            | -                        | ENABLE<br>DISABLE                | Set whether to use the NetBIOS over TCP protocol.  |
| NetWare          | NetWare          | -  | -                            | -                        | ENABLE<br>DISABLE                | Set whether to use the NetWare protocol.   |
| EtherTalk        | EtherTalk        | -  | -                            | -                        | ENABLE<br>DISABLE                | Set whether to use the EtherTalk protocol.   |
| Password         | Network Password | Password Change                              | Password Change              | Change Password          | (last six digits of MAC address) | Change the network administrator's password, using up to 15 alphanumeric characters. The password is case sensitive. If you forget the password you specified, the password cannot be changed. |

## ■ IP Filtering

Shaded text indicates the factory default setting.

| Item                 |                    |  |                              |                          | Setting           | Description  |
|----------------------|--------------------|--|------------------------------|--------------------------|-------------------|--|
| TELNET               | Web browser        | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |                   |  |
| IP Filtering         | IP Filtering       | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to use IP filtering, the function to restrict access by IP address. This function requires thorough knowledge of IP addresses. Normally, select [ <b>DISABLE</b> ]. Set the items below properly when selecting [ <b>ENABLE</b> ]; otherwise, no access using TCP/IP is allowed. |
| Start Address # 1-10 | Start Address 1-10 | -  | -                            | -                        | 0.0.0.0           | Specify the IP addresses that are allowed to access the printer. You can specify an individual address or an address range. Specify the start address and end address when setting the address range. Entering "0.0.0.0" disables the setting.   |
| End Address # 1-10   | End Address 1-10   | -  | -                            | -                        | 0.0.0.0           |  |

Shaded text indicates the factory default setting.

| Item                                 |  |  |                              |                          | Setting           | Description   |
|--------------------------------------|--|--|------------------------------|--------------------------|-------------------|---|
| TELNET                               | Web browser                            | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |                   |   |
| IP Address Range #1-10 Printing      | Printing 1-10                          | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to allow to changes to the configuration from the IP addresses specified in IP Address Range #1-10.   |
| IP Address Range #1-10 Configuration | Configuration 1-10                     | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to allow to change configuration from the IP addresses specified in IP Address Range #1-10.   |
| Admin IP Address                     | Administrator's IP Address to Register | -  | -                            | -                        | 0.0.0.0           | Set the IP address of the administrator. Only this address can always access the printer. Remember that when the administrator accesses the printer via a proxy server, this item is set to the address of the proxy server and all access via the proxy server is allowed. It is recommended that the administrator accesses the printer without using a proxy server. |

### ■ MAC Address Filtering

Shaded text indicates the factory default setting.

| Item                  |                       |  |                              |                          | Setting           | Description   |
|-----------------------|-----------------------|--|------------------------------|--------------------------|-------------------|---|
| TELNET                | Web browser           | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |                   |   |
| MAC Address Filtering | MAC Address Filtering | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to use MAC address filtering, the function to allow access only from MAC addresses specified. This function requires thorough knowledge of MAC addresses. Normally, select [ <b>DISABLE</b> ]. Set the items below properly when selecting [ <b>ENABLE</b> ]; otherwise, no access is allowed from the network. |
| MAC Address Access    | MAC Address Access    | -  | -                            | -                        | ACCEPT<br>DENY    | Set whether to allow or deny access from the MAC addresses specified in MAC Address #1-50.  |

Shaded text indicates the factory default setting.

| Item              |   |  |                              |                          | Setting           | Description  |
|-------------------|---|--|------------------------------|--------------------------|-------------------|--|
| TELNET            | Web browser                             | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |                   |  |
| MAC Address #1-50 | MAC Address #1-50                       | -  | -                            | -                        | 00:00:00:00:00:00 | Specify the MAC addresses that are allowed to access the printer. Entering "00:00:00:00:00:00" disables the setting.   |
| Admin MAC Address | Administrator's MAC Address to Register | -  | -                            | -                        | 00:00:00:00:00:00 | Set the MAC address of the administrator. Only this address can always access the printer. Remember that when the administrator accesses the printer via a proxy server, this item is set to the address of the proxy server and all access via the proxy server is allowed. It is recommended that the administrator accesses the printer without using a proxy server. |

## ■ SSL/TLS

Shaded text indicates the factory default setting.

| Item             |                        |  |                              |                          | Setting   | Description  |
|------------------|------------------------|--|------------------------------|--------------------------|---|--|
| TELNET           | Web browser            | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |   |  |
| Cipher (SSL/TLS) | SSL/TLS                | -  | -                            | -                        | ON<br>OFF   | Set whether to use SSL/TLS.  |
| Cipher Strength  | Cipher Strength        | -  | -                            | -                        | Weak<br>Standard<br>Strong  | Set the cypher strength.   |
| -                | Certificate Generation | -  | -                            | -                        | Use a Self-signed certificate (Self-signed certificate)<br>Use a certificate signed by a certificate authority (Certificate-authority-signed certificate) | Generate a self-signed certificate. Or, generate a CSR to send to a certificate authority and install a certificate issued by a certificate authority. |
| -                | Common Name            | -  | -                            | -                        | (IP address of printer)   | This item is fixed to the IP address of the printer when generating a self-signed certificate.   |
| -                | Organization           | -  | -                            | -                        | (NULL)  | Organization name: Specify the official name of your organization. Up to 64 characters can be entered.   |

Shaded text indicates the factory default setting.

| Item   |                   |  |                              |                          | Setting                         | Description   |
|--------|-------------------|--|------------------------------|--------------------------|---------------------------------|---|
| TELNET | Web browser       | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |                                 |   |
| -      | Organization Unit | -  | -                            | -                        | (NULL)                          | Organization unit: Specify a subgroup such as department or division within the organization. Up to 64 characters can be entered.   |
| -      | Locality          | -  | -                            | -                        | (NULL)                          | Name of city: Specify the name of the city or place where your organization is located. Up to 128 characters can be entered.  |
| -      | State/Province    | -  | -                            | -                        | (NULL)                          | State/Province: Specify the name of the state or province where your organization is located. Up to 128 characters can be entered.  |
| -      | Country/Region    | -  | -                            | -                        | (NULL)                          | Country code: Enter the two-letter ISO code of the country or region where your organization is located. (Example: JP (Japan), US (United States of America)). Up to 2 characters can be entered. |
| -      | Key Type          | -  | -                            | -                        | RSA                             | Set the type of key for encrypted communication.  |
| -      | Key Size          | -  | -                            | -                        | 2048 bit<br>1024 bit<br>512 bit | Set the size of key for encrypted communication.  |

■ **SNTP**

Shaded text indicates the factory default setting.

| Item              |                   |  |                              |                          | Setting           | Description   |
|-------------------|-------------------|--|------------------------------|--------------------------|-------------------|---|
| TELNET            | Web browser       | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |                   |   |
| SNTP              | SNTP              | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to use the SNTP protocol.   |
| NTP Server (Pri.) | NTP Server (Pri.) | -  | -                            | -                        | (NULL)            | Set the IP address of the primary NTP server from which the time information is obtained.   |
| NTP Server (Sec.) | NTP Server (Sec.) | -  | -                            | -                        | (NULL)            | Set the IP address of the secondary NTP server from which the time information is obtained. |

Shaded text indicates the factory default setting.

| Item            |                 |  |                              |                          | Setting                        | Description   |
|-----------------|-----------------|--|------------------------------|--------------------------|--------------------------------|---|
| TELNET          | Web browser     | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |                                |   |
| Adjust Interval | Adjust Interval | -  | -                            | -                        | 1 hour<br>12 hours<br>24 hours | Set the interval to obtain the time information from the primary or secondary NTP server. |
| Local Time Zone | Time Zone       | -  | -                            | -                        | 00:00                          | Set the time difference from GMT.   |
| Daylight Saving | Daylight Saving | -  | -                            | -                        | ON<br>OFF                      | Set whether to use daylight saving time.  |

## ■ Job List

Shaded text indicates the factory default setting.

| Item   |                           |  |                              |                          | Setting  | Description   |
|--------|---------------------------|--|------------------------------|--------------------------|--|---|
| TELNET | Web browser               | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |  |   |
| -      | Job queue display setting | -  | -                            | -                        | Document Name<br>Job Condition<br>Job Type<br>Computer Name<br>User Name<br>Number of sheets printed<br>Transmit Time<br>Transmit Port | Select the items displayed on the list of jobs (print data) waiting to be printed. When no selection has been made for the setting, the items set by default are displayed. |

## ■ Web printing

Shaded text indicates the factory default setting.

| Item   |             |  |                              |                          | Setting                    | Description  |
|--------|-------------|--|------------------------------|--------------------------|----------------------------|--|
| TELNET | Web browser | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |                            |  |
| -      | Paper Tray  | -  | -                            | -                        | Tray 1<br>MPTray<br>Tray 2 | Select the tray used for printing.<br>(Tray 2 will be displayed when the optional tray unit is installed.) |
| -      | Copies      | -  | -                            | -                        | 1<br>-<br>999              | Enter the number of copies to print. Up to 999 can be entered.   |
| -      | Collate     | -  | -                            | -                        | Checked<br>Not checked     | Set whether to collate the output.   |

Shaded text indicates the factory default setting.

| Item   |                 |  |                              |                          | Setting                           | Description  |
|--------|-----------------|--|------------------------------|--------------------------|-----------------------------------|--|
| TELNET | Web browser     | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |                                   |  |
| -      | Fit to page     | -  | -                            | -                        | Checked<br>Not checked            | Set whether to fit the size of PDF file to the size of the paper in the tray if the paper size of PDF file is different from the paper size of the tray. |
| -      | Duplex printing | -  | -                            | -                        | (NULL)<br>Long edge<br>Short edge | Select the binding method in duplex printing.  |
| -      | Page Select     | -  | -                            | -                        | Checked<br>Not checked            | Set the pages to print by specifying the start and end pages.  |
| -      | PDF Password    | -  | -                            | -                        | Checked<br>Not checked            | Select this item and enter the password when printing an encrypted PDF file.   |

### ■ IEEE802.1X

Shaded text indicates the factory default setting.

| Item                |                     |  |                              |                          | Setting           | Description   |
|---------------------|---------------------|--|------------------------------|--------------------------|-------------------|---|
| TELNET              | Web browser         | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |                   |   |
| 802.1X              | IEEE802.1X          | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to use IEEE802.1X.  |
| EAP Type            | EAP Type            | -  | -                            | -                        | EAP-TLS<br>PEAP   | Select the EAP method.  |
| EAP User            | EAP User            | -  | -                            | -                        | (NULL)            | Specify the user name used for EAP. This item is valid when EAP-TLS/PEAP is selected. Up to 64 alphanumeric characters can be entered.  |
| EAP Password        | EAP Password        | -  | -                            | -                        | (NULL)            | Set the password for the EAP user. This item is valid only when PEAP is selected. Up to 64 alphanumeric characters can be entered.  |
| Use SSL Certificate | Use SSL Certificate | -  | -                            | -                        | ENABLE<br>DISABLE | Set whether to use an SSL/TLS certificate for IEEE802.1X authentication. When no SSL/TLS certificate is installed, "ENABLE" cannot be selected. This item is valid only when EAP-TLS is selected. |

Shaded text indicates the factory default setting.

| Item                |                     |  |                              |                          | Setting               | Description   |
|---------------------|---------------------|--|------------------------------|--------------------------|-----------------------|---|
| TELNET              | Web browser         | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |                       |   |
| Authenticate Server | Authenticate Server | -  | -                            | -                        | ENABLE<br>DISABLE     | Set whether to authenticate a certificate sent from the RADIUS server by using a CA certificate.  |
| EAP retry           | -                   | -  | -                            | -                        | 1<br>-<br>3<br>-<br>9 | Set the number of retries of IEEE802.1X authentication. Up to 9 times can be set. Normally, use the factory default setting.  |
| EAP timeout         | -                   | -  | -                            | -                        | 10<br>-<br>60         | Set the timeout to wait for the response from the server during IEEE802.1X authentication. Set the value within the range of 10 to 60 seconds. Normally, use the factory default setting. |

## ■ IPSec

Shaded text indicates the factory default setting.

| Item   |                          |  |                              |                          | Setting             | Description   |
|--------|--------------------------|--|------------------------------|--------------------------|---------------------|---|
| TELNET | Web browser              | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |                     |   |
| IPSec  | IPSec                    | -  | -                            | -                        | ENABLE<br>DISABLE   | Set whether to use IPSec.   |
| -      | IP Address 1-50          | -  | -                            | -                        | 0.0.0.0             | Specify the host address allowed to communicate by IPSec. <ul style="list-style-type: none"> <li>Use one-byte characters separated by a dot for an IPv4 address.</li> <li>Use one-byte alphanumeric characters separated by a colon for an IPv6 global address.</li> <li>IPv6 link-local address is not supported.</li> </ul> |
| -      | IKE Encryption Algorithm | -  | -                            | -                        | 3DES-CBC<br>DES-CBC | Set the IKE encryption method.  |
| -      | IKE Hash Algorithm       | -  | -                            | -                        | SHA-1<br>MD5        | Set the IKE hash method.  |
| -      | Diffie-Hellman Group     | -  | -                            | -                        | Group1<br>Group2    | Set the Diffie-Hellman group used in Phase1 Proposal.   |

Shaded text indicates the factory default setting.

| Item   |  |  |                              |                          | Setting                  | Description   |
|--------|--|--|------------------------------|--------------------------|--------------------------|---|
| TELNET | Web browser                              | Configuration Tool (Network Setting Plug-in) | Network Card Setup (Windows) | Network Card Setup (Mac) |                          |   |
| -      | LifeTime                                 | -  | -                            | -                        | 600<br>86400<br>28800    | Set the lifetime of ISAKMP SA. Normally, use the factory default setting. |
| -      | Pre-shared Key                           | -  | -                            | -                        | (NULL)                   | Set the pre-shared key.   |
| -      | Key PFS                                  | -  | -                            | -                        | KEYPFS<br>NOPFS          | Set whether to use Key PFS (Perfect Forward Secrecy).                     |
| -      | Diffie-Hellman Group when Key PFS Enable | -  | -                            | -                        | Group2<br>Group1<br>None | Set the Diffie-Hellman group used for Key PFS.                            |
| -      | ESP                                      | -  | -                            | -                        | Enable<br>Disable        | Set whether to use ESP (Encapsulating Security Payload).                  |
| -      | ESP Encryption Algorithm                 | -  | -                            | -                        | 3DES-CBC<br>DES-CBC      | Set the encryption algorithm for ESP.                                     |
| -      | ESP Authentication Algorithm             | -  | -                            | -                        | SHA-1<br>MD5<br>OFF      | Set the authentication algorithm for ESP.                                 |
| -      | AH                                       | -  | -                            | -                        | Enable<br>Disable        | Set whether to use AH (Authentication Header).                            |
| -      | AH Authentication Algorithm              | -  | -                            | -                        | SHA-1<br>MD5             | Set the encryption algorithm for AH.                                      |
| -      | LifeTime                                 | -  | -                            | -                        | 600<br>3600<br>86400     | Set the lifetime of IPsec SA. Normally, use the factory default setting.  |



## ■ Setting IP Address

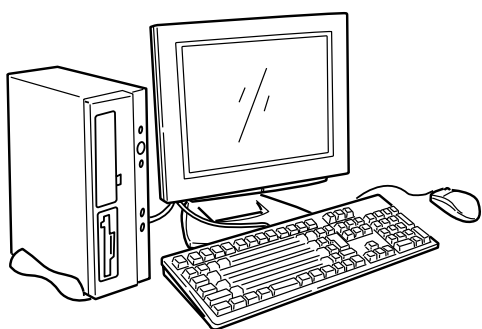
### ■ What is IP address?

For connecting a computer and printer through a network by using TCP/IP, IP addresses need to be set up. IP addresses are the addresses of computers and printers on the network. If an IP address is not set correctly, the computer and printer cannot communicate because the address to send data is not specified.

#### Memo

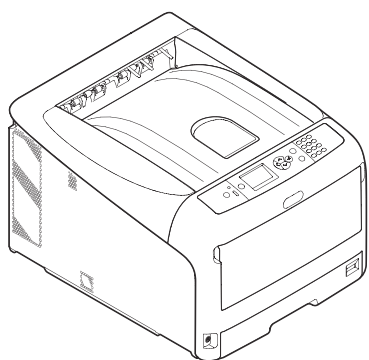
- For the connection with a Macintosh through a network, EtherTalk protocol is used. In this case, IP address setting is not required.
- For using a web browser in the Macintosh environment, set the IP address.

(Example)



#### Computer

|             |                 |      |      |         |
|-------------|-----------------|------|------|---------|
| IP address  | :192.           | 168. | 0.   | 3       |
|             | └──────────┘    |      |      | ┆       |
|             | Network address |      |      | Host ID |
| Subnet mask | :255.           | 255. | 255. | 0       |
| Gateway     | :192.           | 168. | 0.   | 1       |



#### Printer

|             |                 |      |      |         |
|-------------|-----------------|------|------|---------|
| IP address  | :192.           | 168. | 0.   | 2       |
|             | └──────────┘    |      |      | ┆       |
|             | Network address |      |      | Host ID |
| Subnet mask | :255.           | 255. | 255. | 0       |
| Gateway     | :192.           | 168. | 0.   | 1       |

Not any numbers or values can be used for the IP address. There is a rule to specify the IP address. An IP address has 4 segments and each segment consists of 3-digit number. In the example above, "192. 168. 0" is the portion called the "network address", and the last segment, such as "3" or "2" in the example, is the portion called the "host ID". In the general network, the network address of the computer and printer needs to be the same to communicate. The host ID needs to be specified by using a unique number for each device within the range from 1 to 254.

In addition to the IP address, the subnet mask and gateway also need to be set up. Basically, set the subnet mask to "255. 255. 255. 0". Use the IP address of the router in the network for the setting of the gateway. For a general network configuration, use the same subnet mask and gateway for the computer and printer.

## ■ IP address of the computer

Check the current IP address of your computer.

The IP address of the computer differs depending on the network environment to which the computer is connected.

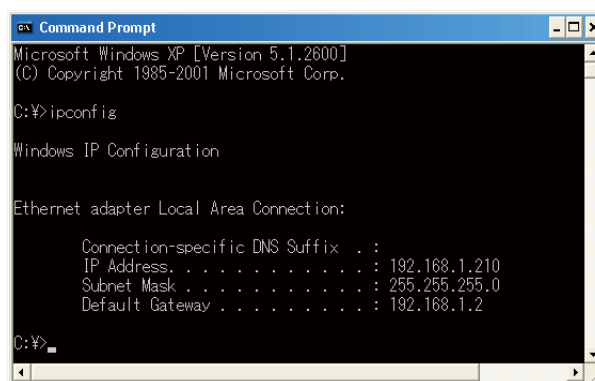
When using the Internet, the IP address of the computer is set to the value specified by the provider or the router maker. Ask the provider or the router maker about the setting value of IP address or whether they use a server, such as a DHCP server. If the computer is connected to an office network and there is a network administrator, ask the administrator about the IP address.

Generally, the default setting of the IP address on the computer is set to the "automatically obtaining the IP address" setting. Most home routers (ADSL routers or ISDN routers) have the function of a DHCP server, if the computer is connected to one of those home routers, the IP address is automatically obtained from the server when the computer is turned on.

In case you are not sure what IP address your computer obtains, follow the procedure below to check the IP address on your computer. The procedure to check the IP address may differ depending on the version of the operating system. Refer also to the instruction manual of the operating system for details.

### For Windows

- 1 Start up Windows.
- 2 Select Command Prompt (MS-DOS prompt).  
(For Windows Vista/Windows Server 2008/Windows XP/Windows Server 2003)  
Select [**Start**] > [**All Programs**] > [**Accessories**] > [**Command Prompt**].  
(For Windows 2000)  
Select [**Start**] > [**Programs**] > [**Accessories**] > [**Command Prompt**].
- 3 Enter "ipconfig" using the keyboard, then press the [**Enter**] key.  
The current settings of the IP address, subnet mask, and gateway are displayed.



```

Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : 
    IP Address. . . . . : 192.168.1.210
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.1.2

C:\>

```

(For Windows XP)

### For Macintosh

- 1 Start up Macintosh.
- 2 Select [**Apple menu**] > [**System Preferences**] > [**Internet & Network**] > [**Network**] > [**Show**], select [**Built-in Ethernet**], then select the [**TCP/IP**] tab.

#### ! Note

- Click [**Show All**] if an item in [**System Preferences**] is not displayed.

## Checking the IP address of the printer

Check the current IP address of the printer.

The current IP address of the printer is displayed in the configuration information of the network (Network Information). Print out the configuration information of the network (Network Information), and check the IP address of the printer.

## Setting the IP address of the printer

Set the IP address of the printer according to the network environment.

### (1) Use the default IP address setting.

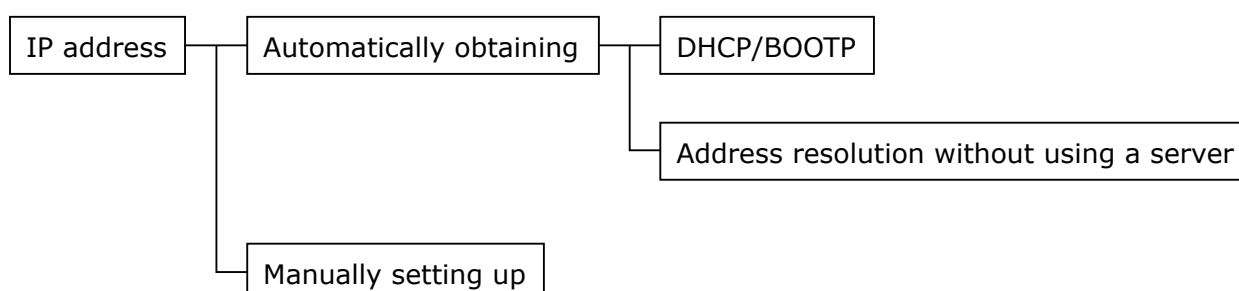
- When there is a DHCP/BOOTP server, etc. in the network:  
The [IP ADDRESS SET] setting of the printer is set to [AUTO] as the factory default. If there is a DHCP/BOOTP server, etc. in the network, the IP address is automatically obtained from the server when the printer is connected to the network and turned on.  
IP address setting is not required if the settings of the computer and printer are as follows:
  - The computer and printer have a same network address in their IP addresses.
  - The computer and printer have different host IDs in their IP addresses.
  - The computer and printer use the same settings for the subnet mask and gateway.
- When there is no DHCP/BOOTP server, etc. in the network and all the computers connected to the network are Windows XP:  
The [IP ADDRESS SET] setting of the printer is set to [AUTO] as the factory default. When [AUTO] is selected to the setting, the function of the address resolution without using a server is available. In this case, even if there is no DHCP/BOOTP server, etc. in the network, the IP address is automatically set by communicating with Windows XP.  
IP address setting is not required if the settings of the computer and printer are as follows:
  - The computer and printer have a same network address in their IP addresses.
  - The computer and printer have different host IDs in their IP addresses.
  - The computer and printer use the same settings for the subnet mask and gateway.
- When there is no DHCP/BOOTP server, etc. in the network, all the computers connected to the network are Macintosh, and no web browser or Setup Utility will be used:  
For the connection with a Macintosh through a network, EtherTalk protocol is used. In this case, IP address setting is not required.

### (2) Set the IP address manually.

- When the case (1) does not apply to your network environment, for example, when there is no DHCP/BOOTP server, etc. in the network and computers connected to the network have different system configurations, or when an IP address specified by the network administrator of the company is required, set the specified IP address to the printer manually. The IP address can be set by using the control panel of the printer, etc.

## Structure of IP Address Setting (Reference Information)

The following is the structure of functions for the IP address setting.



## ■ Changing Network Settings From the Web Page

This section explains how to change the network settings from the printer's web page.

To access the printer's web page, your computer must meet the following conditions.

- TCP/IP must be enabled.
- Microsoft Internet Explorer 6.0 or later, Safari 3.0 or later, or Firefox 3.0 or later is installed.

### Memo

- Ensure that the security setting of the web browser is set to a medium level.
- To enter the **[Admin Setup]** menu, it is necessary to log in as the administrator. The factory default administrator password is "aaaaaa".

### Reference

- Some of the following settings can be performed on other utilities. For details, refer to "Network Setting Items" P.96.

### Informing the End of Consumable Life and Errors by E-mail (E-mail Alert)

You can set the printer to send an error notification e-mail when an error occurs. You can set when to be notified:

- On a periodical basis
- Only when an error occurs

### Configuring Your Printer

You can configure the settings for e-mail alert using the web page.

### Memo

- When you specify a domain name in **[SMTP Server]**, configure the DNS server in the **[TCP/IP]** setting.
- You need to set the mail server to allow the printer to send E-mail. For details on the mail server setting, ask to your network administrator.
- If you use Internet Explorer 7, be sure to configure the settings below before you send a test mail. In the browser, select **[Tools]** > **[Internet Options]**, then click **[Custom Level]** on the **[Security]** tab. Then select **[Enable]** in **[Allow websites to prompt for information using scripted windows]**.

- 1 Access the printer's web page and log in as the administrator.
- 2 Select **[Admin Setup]**.
- 3 Select **[Network Setup]** > **[Email]** > **[Send Settings]**.
- 4 Follow the on-screen instructions to specify detailed settings.
- 5 Select **[Set detail of the SMTP Protocol]**.
- 6 If necessary, you can configure **[Security settings]**, **[Configure attached information]**, and **[Others]**.

- 7 Click **[Submit]**.

The network card reboots to enable the new settings.

### Periodic Alerts

- 1 Access the printer's web page and log in as the administrator.
- 2 Select **[Admin Setup]**.
- 3 Select **[Network Setup]** > **[Email]** > **[Alert Settings]**.
- 4 Enter an e-mail address to receive the alerts.
- 5 Click **[Setting]** for the specified address. **[Copy]** is useful when you want to apply the alert conditions to another address.
- 6 Follow the on-screen instructions to specify detailed settings.
- 7 Click **[OK]**.
- 8 Click **[View a Summary of Current Configuration]** to check the current settings, and then click **[X]** to close the window.  
You can also check the current settings of up to two addresses on the main window. Select the desired addresses to check from the list box.
- 9 Click **[Submit]**.  
The network card reboots to enable the new settings.

### Memo

- Alert e-mail will not be sent if errors to notify about have not occurred.

## Alert When Error Occurs

- 1 Perform steps 1 to 6 in "Periodic Alerts" P.124.  
When an error or warning requiring notification is selected, a window will display to specify the time between error occurrence and sending the alert.
- 2 Specify the time before sending error alerts and then click **[OK]**.  
If you specify a longer time, you are only notified of persisting errors.
- 3 Click **[OK]**.
- 4 Click **[View a Summary of Current Configuration]** to check the current settings, and then click **[X]** to close the window.  
You can also check the current settings of up to two addresses on the main window. Select the desired addresses to check from the list box.
- 5 Click **[Submit]**.  
The network card reboots to enable the new settings.

## Controlling Access Using IP Address (IP Filtering)

You can control access to the printer using IP addresses. You can set whether to allow configuration or printing from the IP addresses specified. By factory default, IP filtering is disabled.

### ! Note

- Be sure to specify the correct IP address. If you specify a wrong IP address, you cannot access the printer using the IP protocol.
- When you enable IP filtering, access by hosts that are not specified in these steps is rejected.

### Memo

- You can use only IPv4 for IP filtering.

- 1 Access the printer's web page and log in as the administrator.
- 2 Select **[Admin Setup]**.
- 3 Select **[Network Setup]>[Security]>[IP Filter]**.
- 4 Follow the on-screen instructions to specify detailed settings.

### ! Note

- If nothing is registered in **[Administrator IP Address that has been registered]**, you may not be able to access the printer depending on the specified IP address range.
- If you use a proxy server, **[Your Current Local Host/Proxy IP Address]** and the IP address of your host may not match.

- 5 Click **[Submit]**.  
The network card reboots to enable the new settings.

## Controlling Access Using MAC Address (MAC Address Filtering)

You can control access to the printer using MAC addresses. You can allow or reject access from the specified MAC addresses.

**Note**

- Be sure to specify the correct MAC address. If you specify the wrong MAC address, you cannot access the printer via a network.

**Memo**

- You cannot specify to accept or to reject for each address individually.

- 1 Access the printer's web page and log in as the administrator.
- 2 Select [**Admin Setup**].
- 3 Select [**Network Setup**] > [**Security**] > [**MAC Address Filtering**].

- 4 Follow the on-screen instructions to specify detailed settings.

**Note**

- If nothing is registered in [**Administrator MAC Address that has been registered**], you may not be able to access the printer depending on the specified MAC address.
- If you use a proxy server, [**Your Current Local Host/Proxy MAC Address**] and the MAC address of your host may not match.

- 5 Click [**Submit**].  
The network card reboots to enable the new settings.

## Printing Without Printer Driver (Direct Print)

### Printing PDF Files

You can print PDF files without installing the printer driver. Specify the file you want to print on the web page and sent it to the printer.

**Memo**

- Additional RAM memory may be necessary depending on the PDF file.
- Printing may not be correct depending on the PDF file. When printing is not correct, open the file with Adobe Reader and then print.

- 1 Access the printer's web page.
- 2 Click [**Direct Print**].
- 3 Select [**Web Printing**].
- 4 Follow the on-screen instructions to specify detailed settings.
- 5 Check the settings and then click [**Print**].  
The data is sent to the printer and the printing is started.

### Configuring Server to Print Files Attached to E-mails

You can print a file that the printer receives as an attachment to an e-mail.

**Memo**

- Up to 10 files can be printed. The maximum size for each file is 8 MB.
- PDF files can be printed.
- Additional RAM memory may be necessary depending on the PDF file.
- Printing may not be correct depending on the PDF file. When printing is not correct, open the file with Adobe Reader and then print.

#### ■ Configuration for POP

- 1 Access the printer's web page and log in as the administrator.
- 2 Select [**Admin Setup**].
- 3 Select [**Network Setup**] > [**Email**] > [**Receive Settings**].
- 4 Select [**POP3**] and then click [**To STEP2**].

- 5 Follow the on-screen instructions to specify detailed settings.

 Memo

- Be sure to specify the correct settings for your mail server. If you enable APOP when your mail server does not support the APOP protocol, e-mails may not be received correctly.
- When you specify a domain name for the mail server, configure the DNS server in the [TCP/IP] setting.

- 6 Click [**Submit**].

## ■ Configuration for SMTP

- 1 Access the printer's web page and log in as the administrator.

- 2 Select [**Admin Setup**].

- 3 Select [**Network Setup**] > [**Email**] > [**Receive Settings**].

- 4 Select [**SMTP**] and then click [**To STEP2**].

- 5 Follow the on-screen instructions to specify detailed settings.

- 6 Click [**Submit**].

## Encrypting Communication by SSL/TLS

You can encrypt communication between your computer and the printer. Communication is encrypted by SSL/TLS in the following cases.

- Changing printer settings from the web page
- IPP printing
- Direct printing

### Creating a Certificate

You can create a certificate on the web page. The following two certificates are available.

- A self-signed certificate.
- A certificate created by a certificate authority.

#### Note

- If you change the printer IP address after you create a certificate, the certificate becomes invalid. Be sure not to change the printer's IP address after creating a certificate.

- 1 Access the printer's web page and log in as the administrator.

- 2 Select [**Admin Setup**].

- 3 Select [**Network Setup**] > [**Security**] > [**SSL/TLS**].

- 4 Select [**Enable**] for [**SSL/TLS**].

- 5 Enter the required information in [**CommonName**], [**Organization**], etc.

- 6 Click [**OK**].  
The information entered is displayed.

- 7 Check the information entered and click [**OK**].

When you are creating a self-signed certificate, the setting procedure is finished. Follow the on-screen instructions and close the web page.

When you are obtaining a certificate issued by a certificate authority, go to step 8.

- 8 Follow the on-screen instructions to send a CSR to a certificate authority.

- 9 Follow the on-screen instructions to install a certificate from the certificate authority.

Copy the text between [----- BEGIN CERTIFICATE -----] and [----- END CERTIFICATE -----], and paste it in the text box.

**10** Click [**Submit**].

The setting procedure for a certificate issued by a certificate authority is finished.

**Enabling Encryption**

After creating a certificate, perform the following procedure to enable encryption.

When you change the settings from the web page to enable encryption, communication is encrypted immediately after that change has been made.

- 1 Perform "Creating a Certificate" P.127 steps 1 to 3 to enter the encryption screen.
- 2 Select [**Enable**] for the desired protocol on which encryption is applied.
- 3 Click [**Encryption Strength Settings**].
- 4 Select the encryption strength and click [**OK**].
- 5 Click [**Submit**].

**Opening the Web Page**



- Ensure to enable the protocol on which encryption is applied in "Enabling Encryption" P.128.

- 1 Launch a web browser.
- 2 Enter "https://your printer's IP address" in the URL address bar and then press the <Enter> key.



**IPP Printing**

IPP printing allows you to transmit your print job data from your computer to the printer via the Internet.

**Enabling IPP Printing**

IPP printing is disabled by factory default. To perform IPP printing, enable IPP first.

- 1 Access the printer's web page and log in as the administrator.
- 2 Select [**Admin Setup**].

- 3 Select [**Network Setup**] > [**IPP**] > [**Settings**].
- 4 Select [**Enable**] in [**IPP**].
- 5 Click [**Submit**].

**Setting Up Your Printer As an IPP Printer (for Windows Only)**

Add the printer to your computer as an IPP printer.

- 1 Click [**Start**] and select [**Devices and Printers**] > [**Add a printer**].
- 2 On the [**Add Printer**] wizard, select [**Add a network, wireless or Bluetooth printer**].
- 3 In the list of available printers, select [**The printer that I want isn't listed**].
- 4 Select [**Select a shared printer by name**].
- 5 Enter "http://your printer's IP address/ipp" or "http://your printer's IP address/ipp/lp" and then click [**Next**].
- 6 Click [**Have Disk**].
- 7 Insert the software DVD-ROM into the computer.
- 8 Enter the following value in [**Copy from**], and then click [**Use**].
  - For PCL driver, "D:\Drivers\EN\PCL".
  - For PS driver, "D:\Drivers\EN\PS".
  - For XPS driver, "D:\Drivers\EN\XPS".




- In the above examples, the DVD-ROM drive is setup as the D drive.

- 9 Select the NFL file and click [**Open**].
- 10 Click [**OK**].
- 11 Select a model and click [**OK**].
- 12 Click [**Next**].
- 13 Click [**Finish**].
- 14 Print the test page after installation is complete.



## ■ Setting Up Your Printer As an IPP Printer (for Mac OS X Only)

Add the printer to your computer as an IPP printer.

- 1 Insert the software DVD-ROM into the computer and install the driver.
  -  Reference
    - "User's Manual (Setup)"
- 2 Select [**System Preferences**] from the Apple menu.
- 3 Click [**Print and Fax**].
- 4 Click [ + ].
- 5 Click the [**IP**] tab.
- 6 From [**Protocol**], select [**IPP (Internet Printing Protocol)**].
- 7 Enter the printer's IP address in [**Address**].
- 8 Enter "ipp/Ip" in [**Queue**].
- 9 Click [**Add**].
- 10 Click [**Continue**].
- 11 Confirm that the printer is registered in [**Print and Fax**].

## ■ Performing IPP Printing

 Memo

- The following steps are explained using NotePad as an example. The steps and menus may differ depending on the application you use.
- 1 Open the file you want to print.
  - 2 From the [**File**] menu, select [**Print**].
  - 3 Select the IPP printer you created from [**Select Printer**], and then click [**Print**].

## Encrypting Communication by IPSec

You can encrypt communication between your computer and the printer.

The communication is encrypted by IPSec. When IPSec is enabled, encryption is applied for all the applications using IP protocols.

You can specify up to 50 hosts by their IP addresses. When a host that is not registered tries to access the printer, it is rejected. When you try to access a host that is not registered, the attempt is invalid.

Be sure to configure the printer before configuring your computer.

 Memo

- You must have a pre-shared key readied in advance.

## Configuring Your Printer


In order to enable IPSec, your printer must first be configured from the web page.

 Note

- When you enable IPSec, communication with a host not specified in this procedure is rejected.

 Memo

- Be sure to make a note of the values you specify in these steps. They are necessary when you configure the IPSec settings on your computer.

- 1 Access the printer's web page and log in as the administrator.
- 2 Select [**Admin Setup**].
- 3 Select [**Network Setup**] > [**Security**] > [**IPSec**].
- 4 Follow the on-screen instructions to specify detailed settings.
  -  Memo
    - Either [**ESP**] or [**AH**] must be enabled in the configuration for "Phase2 Proposal".
- 5 Click [**Submit**].
 

The network card reboots to enable the new settings.

 Note

- If you were unable to set up IPSec because of an inconsistency between the parameters that were specified, you will be unable to access the web page. In this case, either disable IPSec from the operation panel of the printer, or initialize the network settings.

## Configuring Your Computer



- Be sure to configure the printer before configuring your computer.

- 1 Click [**Start**] and select [**Control Panel**] > [**Administrative Tools**].
- 2 Double-click [**Local Security Policy**].
- 3 On the [**Local Security Policy**] window, click [**IP Security Policies on Local Computer**].
- 4 From the [**Action**] menu, select [**Create IP Security Policy**].
- 5 On the [**IP Security Policy Wizard**], click [**Next**].
- 6 Enter a [**Name**] and a [**Description**] and then click [**Next**].
- 7 Deselect the [**Activate the default response rule (earlier versions of Windows only)**] check box and then click [**Next**].
- 8 Select [**Edit Properties**] and then click [**Finish**].
- 9 On the IP security policy properties window, select the [**General**] tab.
- 10 Click [**Settings**].
- 11 On the [**Key Exchange Settings**] window, enter a value (minutes) for [**Authenticate and generate a new key after every**].



- Specify the same value as [**Lifetime**] specified in the configuration for "Phase1 Proposal" in "[Configuring Your Printer](#)" P.129. Although [**Lifetime**] is specified in seconds, enter a value in minutes for this step.

- 12 Click [**Methods**].
- 13 On the [**Key Exchange Security Methods**] window, click [**Add**].

- 14 Specify [**Integrity algorithm**], [**Encryption algorithm**] and [**Diffie-Hellman group**].



- Select the same value that was specified in [**IKE Encryption Algorithm**], [**IKE Hush Algorithm**], and [**Diffie-Hellman group**] at the time of configuration for "Phase1 Proposal" in "[Configuring Your Printer](#)" P.129.

- 15 Click [**OK**].
- 16 On the [**Key Exchange Security Methods**] window, click [**OK**].
- 17 On the [**Key Exchange Settings**] window, click [**OK**].
- 18 On the IP security policy properties window, select the [**Rules**] tab.
- 19 Click [**Add**].
- 20 On the [**Security Rule Wizard**], click [**Next**].
- 21 On the [**Tunnel Endpoint**] screen, select [**This rule does not specify a tunnel**] and then click [**Next**].
- 22 On the [**Network Type**] screen, select [**All Network Connections**] and then click [**Next**].
- 23 On the [**IP Filter List**] screen, click [**Add**].
- 24 On the [**IP Filter List**] window, click [**Add**].
- 25 On the [**IP Filter Wizard**], click [**Next**].
- 26 On the [**IP Filter Description and Mirrored Property**] screen, click [**Next**].
- 27 On the [**IP Traffic Source**] screen, click [**Next**].
- 28 On the [**IP Traffic Destination**] screen, click [**Next**].
- 29 On the [**IP Protocol Type**] screen, click [**Next**].
- 30 Click [**Finish**].

- 31 On the [**IP Filter List**] window, click [**OK**].
- 32 On the [**Security Rule Wizard**], select the new IP filter from the list and then click [**Next**].
- 33 On the [**Filter Action**] screen, click [**Add**].
- 34 On the [**Filter Action Wizard**], click [**Next**].
- 35 On the [**Filter Action Name**] screen, enter a [**Name**] and a [**Description**] and then click [**Next**].
- 36 On the [**Filter Action General Options**] screen, select [**Negotiate security**] and then click [**Next**].
- 37 On the [**Communicating with computers that do not support IPsec**] screen, select [**Do not allow unsecured communication**] and then click [**Next**].
- 38 On the [**IP Traffic Security**] screen, select [**Custom**] and then click [**Settings**].
- 39 On the [**Custom Security Method Settings**] window, configure the settings and then click [**OK**].
 

! Note

  - Configure the AH and ESP settings to the same settings as configured for the "Phase2 Proposal" in "[Configuring Your Printer](#)" P.129.
- 40 On the [**IP Traffic Security**] screen, click [**Next**].
- 41 Select [**Edit Properties**] and then click [**Finish**].
- 42 On the filter action properties window, select [**Use session key perfect forward secrecy (PFS)**] if you want to enable Key PFS.
- 43 Select [**Accept unsecured communication, but always respond using IPsec**] if you perform IPsec communication by the IPv6 global address.
- 44 Click [**OK**].
- 45 Select [**New Filter Action**] and then click [**Next**].
- 46 On the [**Authentication Method**] screen, select the authentication method you want and then click [**Next**].
- 47 Click [**Finish**].
- 48 On the IP security policy properties window, click [**OK**].
- 49 On the [**Local Security Policy**] window, select the new IP security policy.
- 50 From the [**Action**] menu, select [**Assign**].
- 51 Make sure that for the new IP security policy, [**Policy Assigned**] is displayed as [**Yes**].
- 52 Click [**X**] on the [**Local Security Policy**] screen.

## Using SNMPv3

When you use an SNMP manager that supports SNMPv3, management of the printer can be encrypted by SNMP.

- 1 Access the printer's web page and log in as the administrator.
- 2 Select [**Admin Setup**].
- 3 Select [**Network Setup**] > [**SNMP**] > [**Setting**].
- 4 Follow the on-screen instructions to specify detailed settings.
- 5 Click [**Submit**].  
The network card reboots to enable the new settings.

5

5. Network Settings

## Using IPv6

Your printer supports IPv6. The printer obtains the IPv6 address automatically. You cannot set the IPv6 address manually.

The printer supports the following protocols.

- For Printing:
  - LPR
  - IPP
  - RAW (Port9100)
  - FTP
- For Configuration:
  - HTTP
  - SNMPv1/v3
  - Telnet

Operation is confirmed under specific conditions for the following applications.

| Protocol | OS   | Application             | Condition   |
|----------|--|-------------------------|-------------|
| LPD      | <ul style="list-style-type: none"> <li>• Windows 7</li> <li>• Windows Vista</li> <li>• Windows XP</li> </ul> | LPR (Command Prompt)    | *1, 2, 3    |
| Port9100 | <ul style="list-style-type: none"> <li>• Windows 7</li> <li>• Windows Vista</li> </ul>                       | LPRng                   | *1, 2, 3    |
| FTP      | <ul style="list-style-type: none"> <li>• Windows 7</li> <li>• Windows Vista</li> <li>• Windows XP</li> </ul> | FTP (Command Prompt)    | *1, 2, 3    |
|          | <ul style="list-style-type: none"> <li>• Mac OS X</li> </ul>   | FTP (Terminal)          | *1, 2, 3    |
| HTTP     | <ul style="list-style-type: none"> <li>• Windows XP</li> </ul>   | Internet Explorer 6.0   | *1, 2, 3    |
|          | <ul style="list-style-type: none"> <li>• Mac OS X</li> </ul>   | Safari (2.0-v412.2)     | *1, 2, 3, 4 |
| Telnet   | <ul style="list-style-type: none"> <li>• Windows 7</li> <li>• Windows Vista</li> <li>• Windows XP</li> </ul> | Telnet (Command Prompt) | *1, 2, 3    |
|          | <ul style="list-style-type: none"> <li>• Mac OS X</li> </ul>   | Telnet (Terminal)       | *1, 2, 3    |

- \*1) To specify a host name, edit the host's file or access via the DNS server.
- \*2) With Telnet, when only IPv6 is enabled you cannot specify a host name by the DNS server.
- \*3) You cannot specify a host name when you use a link local address to access.
- \*4) Enter an IPv6 address enclosed with square brackets.





- To use IPv6 on Windows XP, install IPv6.

## Enabling IPv6

- 1 Access the printer's web page and log in as the administrator.
- 2 Select [**Admin Setup**].
- 3 Select [**Network Setup**] > [**TCP/IP**].
- 4 Select [**Enable**] for [**IPv6**].
- 5 Click [**Submit**].  
The network card reboots to enable the new settings.

## Checking IPv6 Address

The IPv6 address is automatically assigned.

- 1 Select [**View Info**].
  - 2 Select [**Network**] > [**TCP/IP**].
-  Memo
- When the global address is displayed only as zeros, it may be an error due to the router being used.
-  Reference
- You can also check the IPv6 address in the network report from the printer by pressing the <ENTER> button and then selecting [**Print Information**] > [**Network**]. For details on the report and how to print it, refer to "Printing Out Print Information" P.63.

## Using IEEE802.1X

Your printer supports IEEE802.1X authentication. Be sure to configure the printer and your computer before performing the following steps.

### Reference

- For details on the initial setup and the IP address, refer to the User's Manual (Setup).

## Configuring Your Printer for IEEE802.1X

### ■ Using PEAP

- 1 Access the printer's web page and log in as the administrator.
- 2 Select [**Admin Setup**].
- 3 Select [**Network Setup**] > [**IEEE802.1X**].
- 4 Select [**Enable**] for [**IEEE802.1X**].
- 5 Select [**PEAP**] for [**EAP Type**].
- 6 Enter a user name in [**EAP User**].
- 7 Enter a password in [**EAP Password**].
- 8 Select [**Authenticate Server**] and then click [**Import**].
- 9 Enter the file name of the CA certificate and then click [**OK**].  
Specify a certificate issued by the certificate authority from which the RADIUS server obtained a certificate. A PEM, DER, and PKCS#7 file can be imported.
- 10 Click [**Submit**].  
The network card reboots to enable the new settings.
- 11 When the standby screen appears on the printer, turn off the printer.
- 12 Go to "Connecting Your Printer to an Authentication Switch" P.134.

### ■ Using EAP-TLS

- 1 Access the printer's web page and log in as the administrator.
- 2 Select [**Admin Setup**].

- 3 Select [**Network Setup**] > [**IEEE802.1X**].
- 4 Select [**Enable**] for [**IEEE802.1X**].
- 5 Select [**EAP-TLS**] for [**EAP Type**].
- 6 Enter a user name in [**EAP User**].
- 7 Select [**Do not use SSL/TLS Certificate for EAP authentication**] and then click [**Import**].
- 8 Enter the file name of the certificate.  
Only a PKCS#12 file can be imported.
- 9 Enter the password of the certificate and then click [**OK**].
- 10 Select [**Authenticate Server**] and then click [**Import**].
- 11 Enter the file name of the CA certificate and then click [**OK**].  
Specify a certificate issued by the certificate authority from which the RADIUS server obtained a certificate. A PEM, DER, and PKCS#7 file can be imported.
- 12 Click [**Submit**].  
The network card reboots to enable the new settings.
- 13 When the standby screen appears on the printer, turn off the printer.
- 14 Go to ["Connecting Your Printer to an Authentication Switch" P.134](#).

### Connecting Your Printer to an Authentication Switch

- 1 Make sure that the printer is turned off.
- 2 Connect an Ethernet cable to the network interface port.
- 3 Connect the Ethernet cable to the authentication port of an authentication switch.
- 4 Turn on the printer.
- 5 Set up the printer.

 Reference

- For details on the initial setup, refer to the User's Manual (Setup).

### Changing EtherTalk Settings (for Mac OS X only)

 Note

- EtherTalk cannot be used with Mac OS X 10.6.

#### Changing EtherTalk Printer Name

- 1 Access the printer's web page and log in as the administrator.
- 2 Select [**Admin Setup**].
- 3 Select [**Network Setup**] > [**EtherTalk**].
- 4 Enter a new name in [**EtherTalk Printer Name**].
- 5 Click [**Submit**].

#### Changing EtherTalk Zone

- 1 Access the printer's web page and log in as the administrator.
- 2 Select [**Admin Setup**].
- 3 Select [**Network Setup**] > [**EtherTalk**].
- 4 Enter a new zone name in [**EtherTalk Zone Name**].
- 5 Click [**Submit**].

 Note

- Be sure to specify a zone within the same segment.

## ■ Other Operations

This section explains how to initialize the network settings and how to set up your printer and computer to use DHCP.

### Initializing Network Settings

#### ! Note

- This procedure initializes all the network settings.

- 1 Press the <**ENTER**> button.
- 2 Press ▼ to select [**Admin Setup**] and then press the <**ENTER**> button.
- 3 Enter the administrator password using the ten-key pad.  
The factory default administrator password is "aaaaa"
- 4 Press the <**ENTER**> button.
- 5 Make sure that [**Network Setup**] is selected and then press the <**ENTER**> button.
- 6 Press ▼ to select [**Factory Defaults?**] and then press the <**ENTER**> button.
- 7 Make sure that [**Execute**] is selected and then press the <**ENTER**> button.  
The network settings are initialized.

### Using DHCP

You can obtain an IP address from the DHCP server.

#### ! Note

- Administrator privileges are required.

#### Memo

- You can obtain an IP address from the BOOTP server.

### Configuring DHCP Server

DHCP assigns an IP address to each host on the TCP/IP network.

#### ! Note

- The printer must have a static IP address if you want to print via a network. For details on how to assign a static IP address, refer to the manual of your DHCP server.

#### Memo

- The following OSs are supported:
  - Windows Server 2008 R2, Windows Server 2008, and Windows Server 2003
- The following steps are explained using Windows Server 2008 as an example. The steps and menus may differ depending on the OS you use.

- 1 Click [**Start**] and select [**Administrative Tools**] > [**Server Manager**].  
If [**DHCP**] is already shown in [**Administrative Tools**] continue to step 8.
- 2 Select [**Add Roles**] on the [**Roles Summary**] area.
- 3 On the [**Add Roles Wizard**], click [**Next**].
- 4 Select [**DHCP Server**] and then click [**Next**].
- 5 Follow the on-screen instructions and configure the settings as necessary.
- 6 On the [**Confirm Installation Selection**] screen, check the settings and click [**Install**].
- 7 When the installation finishes, click [**Close**].

- 8 Click [**Start**] and select [**Administrative Tools**] > [**DHCP**] to launch the [**DHCP**] wizard.
- 9 On the DHCP list, select a server to use.
- 10 From the [**Action**] menu, select [**New Scope**].
- 11 On the [**New Scope Wizard**], follow the on-screen instructions and configure the settings as necessary.



- Be sure to configure the default gateway settings.
- On the [**Activate Scope**] screen, select [**Yes, I want to activate the scope now**].

- 12 Click [**Finish**].
- 13 Select the new scope from the DHCP list and then select [**Reservations**].
- 14 From the [**Action**] menu, select [**New Reservation**].
- 15 Configure the settings.
- 16 Click [**Add**].
- 17 Click [**Close**].
- 18 From the [**File**] menu, select [**Exit**].

## Configuring Your Printer

The following explains how to configure your printer to use DHCP/BOOTP.

Note that since the DHCP/BOOTP protocol is enabled by factory default, you do not have to perform this procedure.



- The following steps are explained using Network Card Setup as an example. The steps and menus may differ depending on the software you use.

- 1 Turn on the printer.
- 2 Turn on your computer and insert the software DVD-ROM.
- 3 Click [**Run Setup.exe**].  
If the [**User Account Control**] dialog box appears, click [**Yes**].
- 4 Read the language, and then click [**Next**].
- 5 Select a model and then click [**Next**].

- 6 Read the license agreement and click [**I Agree**].
- 7 Read the [**Environmental advice for Users**] and then click [**Next**].
- 8 Select [**Device Configuration**] > [**Network Card Setup Utility**].
- 9 Select your printer from the list.
- 10 From the [**Setting**] menu, select [**Setting Printer**].
- 11 Enter the IP address and then click [**OK**].
- 12 Enter the password at [**Enter Password**] and then click [**OK**].
  - The factory default password is the last six digits of the MAC address.
  - The password is case-sensitive.
- 13 Click [**OK**] on the confirmation window.  
The printer restarts to enable the new settings. The printer status icon changes to red during the restart. The status icon changes to green when the printer has restarted and the new settings have been enabled.
- 14 From the [**File**] menu, select [**Exit**] to close the Network Card Setup.



# 6. Troubleshooting

This chapter explains initializing, deleting and updating drivers.

## ■ Initializing

This section explains how to initialize an SD memory card and flash memory and how to reset the equipment settings to their defaults.

You can delete data or settings stored on the printer to restore the settings to how they were at the time of purchase.

### ! Note

- In the default settings, **[Initialize]** cannot be selected because **[No]** is selected for **[Enable Initialization]** of **[Storage Setup]** in **[Boot Menu]**. Set **[Enable Initialization]** of **[Storage Setup]** in **[Boot Menu]** to **[Yes]**.

### Memo

- In order to access the **[Admin Setup]** menu, an administrator password is required. The default password is "aaaaaa".

### Initializing an SD memory card

Carry out initialization of an SD card when inserting a card that has been used in other equipment or when the SD Card is not properly recognized.

An SD memory card is used as storage for spooling when making multiple copies, for saving secure print/ encrypted print data, and for form data and macros. Initialization deletes stored data.

An SD memory card has three partitions. They are PS, Common, and PCL. When an SD memory card is initialized, each partition is respectively divided into the percentage specified (in the factory default setting, PS: 30%, Common: 50%, PCL: 20%). You can also format particular partitions individually.

If an SD memory card that has been installed to another device is installed to the printer, or if the SD memory card installed to the printer cannot be detected anymore, **[Initialize Yes/No]** may appear on the display when the printer is turned on. In such a case, select **[Yes]**. (Data stored in the SD memory card is deleted.)

If **[No]** is selected and **[Service call 067:Error]** appears on the display, turn off the printer and detach the SD memory card, or turn off the printer and turn it back on with the SD memory card left installed, then select **[Yes]**.

### Formatting the Entire Area

You can format the entire area of the SD memory card installed in the printer.

### ! Note

- When you initialize the entire area of an SD memory card, the following data is deleted.
  - Stored job data subject for **[Secure Print]**, **[Encrypted Secure Print]** or **[Store to SD Card]**.
  - Custom demo data
  - Form data

- 1 Press the **<ENTER>** button
- 2 Press **▼** to select **[Admin Setup]** and then press the **<ENTER>** button.
- 3 Enter the administrator password using the ten-key pad.  
The default password is "aaaaaa".
- 4 Press the **<ENTER>** button.
- 5 Press **▼** to select **[SD Card Setup]** and then press the **<ENTER>** button.
- 6 Make sure that **[Initialize]** is selected and then press the **<ENTER>** button.
- 7 Make sure that **[Execute]** is selected and then press the **<ENTER>** button.  
A message appears notifying you that continuing will automatically restart the system. Select **[Yes]** to continue.

## Formatting a Particular Partition

You can initialize a particular partition within the SD memory card's 3 partitions (PS, Common, and PCL).

**! Note**

- When you initialize a partition, the following data is deleted.
  - PS: Form data in PS area
  - Common: Job data and demo data stored with **[Secure Print]**, **[Encrypted Secure Print]** or **[Store to SD Card]**.
  - PCL: Form data in the PCL area

- 1 Press the **<ENTER>** button.
- 2 Press ▼ to select **[Admin Setup]** and then press the **<ENTER>** button.
- 3 Enter the administrator password using the ten-key pad.  
The default password is "aaaaaa".
- 4 Press the **<ENTER>** button.
- 5 Press ▼ to select **[SD Card Setup]** and then press the **<ENTER>** button.
- 6 Press ▼ to select **[Format Partition]** and then press the **<ENTER>** button.
- 7 Press ▼ to select the partition you want to initialize and then press the **<ENTER>** button.  
A message appears notifying you that continuing will automatically restart the system. Select **[Yes]** to continue.

## Initializing Flash Memory

Flash memory stores data such as form data, etc.

Use the following steps to initialize.

**! Note**

- When you initialize flash memory, the following data is deleted.
  - Custom demo data
  - Form data

- 1 Press the **<ENTER>** button
- 2 Press ▼ to select **[Admin Setup]** and then press the **<ENTER>** button.
- 3 Enter the administrator password using the ten-key pad.  
The default password is "aaaaaa".
- 4 Press the **<ENTER>** button.
- 5 Press ▼ to select **[Flash Memory Setup]** and then press the **<ENTER>** button.
- 6 Make sure that **[Initialize]** is selected and then press the **<ENTER>** button.
- 7 Make sure that **[Execute]** is selected and then press the **<ENTER>** button.  
A message appears notifying you that continuing will automatically restart the system. Select **[Yes]** to continue.

## Resetting the Printer Settings

You can return the configured settings to their default.

- 1 Press the <**ENTER**> button.
- 2 Press ▼ to select [**Admin Setup**] and then press the <**ENTER**> button.
- 3 Enter the administrator password using the ten-key pad.  
The default password is "aaaaaa".
- 4 Press the <**ENTER**> button.
- 5 Press ▼ to select [**Settings**] and then press the <**ENTER**> button.
- 6 Press ▼ to select [**Reset Settings**] and then press the <**ENTER**> button.
- 7 [Make sure that [**Execute**] is selected and then press the <**ENTER**> button.

## ■ Deleting or Updating the Printer Drivers

This section explains how to delete or update the printer drivers you are using.

### ! Note

- The procedure and display may differ according to the printer driver and version of Windows or Mac OS X you are using.

### Deleting a Printer Driver

You can uninstall printer drivers.

#### For Windows

### ! Note

- You must be logged on as an administrator to complete this procedure.
- Restart the computer before you remove a driver.

- 1 Click on [**Start**] and then select [**Devices and Printers**].
- 2 Right-click the *Your Printer* icon and select [**Remove device**].  
If you have specified multiple printer drivers, select the type of driver you want to delete from [**Remove device**].
- 3 If a confirmation message appears, click [**Yes**].  
**! Note**
  - If a message appears stating that the device is in use, restart the computer and try again from step 1 to 2.
- 4 Click [**Printer server properties**] on the top bar with one of any icons selected in [**Printers and Faxes**].
- 5 Select the [**Drivers**] tab.
- 6 If [**Change Driver Settings**] is displayed, click on it.
- 7 Select the printer driver you want to remove and click [**Remove**].
- 8 If a message appears asking you whether to remove the printer driver only or the printer driver and driver package from your system, select to remove the driver and the driver package and then click [**OK**].
- 9 If a confirmation message appears, click [**Yes**].

- 10 If the [**Remove Driver and Package**] dialog box appears, click [**Remove driver only.**] or [**Remove driver and driver package.**] > [**OK**].

### ! Note

- If deletion is rejected, restart the computer, and carry out procedures 4-10 again.

- 11 Click [**Close**] in the [**Printer Server Properties**] dialog box.

- 12 Restart the computer.

#### For Mac OS X

##### ■ For Mac OS X 10.5-10.6

- 1 From the Apple menu, select [**System Preferences**].
- 2 Select [**Print & Fax**].
- 3 Select the device you want to remove and then click [-].  
If a confirmation message appears, click [**Delete Printer**] (for Mac OS X 10.5, this will be [**OK**]).
- 4 Close the [**Print & Fax**] dialog box.
- 5 Insert the software DVD-ROM into the computer.
- 6 Double-click [**OKI**] > [**Driver**] > [**Printer**] > [**Uninstaller**].
- 7 Check the device to delete displayed in the dialog box and click [**OK**].
- 8 Enter the administrator password using the ten-key pad and click [**OK**] twice.
- 9 Remove the software DVD-ROM from the computer.

##### ■ For Mac OS X 10.3.9-10.4.11

- 1 Select [**Utilities**] from the [**Move**] menu.

- 2 Click on the [**Printer Setup Utility**] tab.
- 3 Select the device you want to remove and click [**Delete**].
- 4 Close the [**Printer List**] dialog box.
- 5 Uninstall the printer driver by using the uninstaller.

 Reference

- Refer to “For Mac OS X 10.5-10.6” P.140, follow the procedure in 5-11.

## Updating a Printer Driver

You can update printer drivers.

### For Windows PCL Printer Driver


 Note

- You must be logged in as an administrator to complete this procedure.
- Restart the computer before you start removing a driver.

- 1 Click on [**Start**] and then select [**Devices and Printers**].
- 2 Right-click the *Your Printer* icon and select [**Printing preferences**].  
If you have installed multiple printer drivers, select the type of driver you want to update from [**Printer Properties**].
- 3 Click [**About**] in the [**Setup**] tab.
- 4 Check the version information and then click [**OK**].
- 5 Delete the printer driver you want to update.

 Note

- Delete all the printer drivers of the same type (PCL, PS, PCL, and XPS printer drivers) to ensure updating.

 Reference

- “Deleting a Printer Driver” P.140

- 6 Install a new printer driver.

 Reference




- For details on how to install a printer driver, refer to the User’s Manual (Setup).

### For Windows XPS Printer Driver



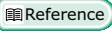

 Note

- You must be logged in as an administrator to complete this procedure.
- Restart the computer before you start removing a printer driver.

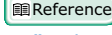

- 1 Click on [**Start**] and then select [**Devices and Printers**].
- 2 Right-click the *Your Printer* icon and select [**Printing preferences**].  
If you have installed multiple printer drivers, select the type of driver you want to update from [**Printer Properties**].
- 3 Click [**About**] in the [**Setup**] tab.

- 4 Check the version information and then click [**OK**].
- 5 Delete the printer driver you want to update.
  -  **Note**
  - Delete all the printer drivers of the same type (PCL, PS, PCL, and XPS printer drivers) to ensure updating.
  -  **Reference**
  - “Deleting a Printer Driver” P.140
- 6 Install a new printer driver.
  -  **Reference**
  - For details on how to install a printer driver, refer to the User’s Manual (Setup).

### For Windows PS Printer Driver

-  **Note**
  - You must be logged in as an administrator to complete this procedure.
  - Restart the computer before you start removing a printer driver.
- 1 Click on [**Start**] and then select [**Devices and Printers**].
  - 2 Right-click the *Your Printer* icon and select [**Printing preferences**].  
If you have installed multiple printer drivers, select the type of driver you want to update from [**Printer Properties**].
  - 3 Select the [**Print Options**] tab, and click on [**About**].
  - 4 Check the version information and then click [**OK**].
  - 5 Delete the printer driver you want to update.
    -  **Note**
    - Delete all the printer drivers of the same type (PCL, PS, PCL, and XPS printer drivers) to ensure updating.
    -  **Reference**
    - “Deleting a Printer Driver” P.140
  - 6 Install a new printer driver.
    -  **Reference**
    - For details on how to install a printer driver, refer to the User’s Manual (Setup).

### For Mac OS X

- 1 Delete the printer driver you want to update.
  -  **Reference**
  - “Deleting a Printer Driver” P.140
- 2 Install a new printer driver.
  -  **Reference**
  - For details on how to install a printer driver, refer to the User’s Manual (Setup).

# Index

---

## A

---

Automatically set the date .... 82

## B

---

Black Finish ..... 49

## C

---

Color (User Settings) ..... 46

Confidential Documents..... 32

Configuration Tool..... 83

Custom Sizes ..... 11

## D

---

Duplex Printing ..... 17

## E

---

Elongated Printing ..... 11

Emphasizing Fine Lines ..... 26

Enlarged Printing ..... 23

## F

---

Forms ..... 35

FTP..... 132

## G

---

Graphic Pro..... 46

## L

---

LPD ..... 132

## M

---

Maintaining Paper Size ..... 28

Monochrome ..... 41

Multi Purpose Tray ..... 15

## N

---

Network Card Setup..... 96

## O

---

Office Color ..... 46

Office Document..... 47

OKI LPR Utility ..... 42

## P

---

Paper Size ..... 11, 18

Paper Tray ..... 11

PostScript..... 42

Print with a Password..... 31

## R

---

Repeated Printing ..... 36

## S

---

Setting Key..... 63

Simulations ..... 51

## T

---

TELNET ..... 96, 132

## U

---

Uninstall  
Printer Driver ..... 140

## W

---

Web Page ..... 96, 124



**Oki Data Corporation**

4-11-22 Shibaura, Minato-ku, Tokyo  
108-8551, Japan

[www.okiprintingsolutions.com](http://www.okiprintingsolutions.com)