



LCD DISPLAY

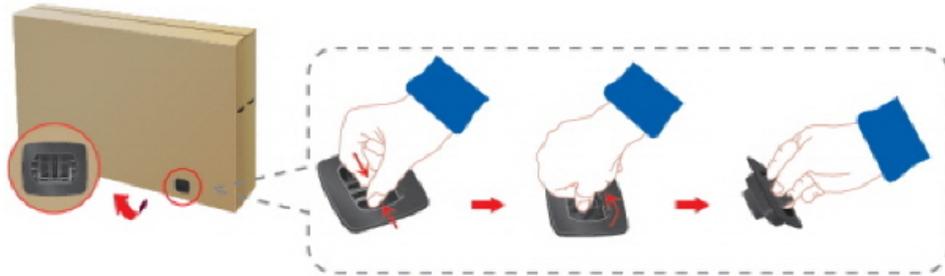
quick start guide

460UTn-2, 460UT-2, 460UTn-B, 460UT-B

Introduction

Package Contents

Checking the Contents of the Package



Remove the lock from the package box, as shown in the figure above.



Lift up the package box by holding the grooves on both sides of the package box.

Check the contents of the package.

Remove the Styrofoam and vinyl cover.

Note

- After unpacking the package, make sure to check the contents of the package.
- Store the packaging box in case you need to move the Product later.
- If any items are missing, contact your dealer.
- Contact a local dealer to purchase optional items.
- After unpacking, you may use the lower part of the package box as a temporary stand for product test or operation check.

Unpacking



LCD Display

Introduction

Manuals



Quick Setup Guide



Warranty Card

(Not available in all locations)



User's Guide

Cables



Power Cord



D-Sub Cable



MagicInfo Software CD,
MagicInfo Manual CD

(Applicable to the
460UTn-2, 460UTn-B
model only)

Others



Remote Control

(BP59-00138B)



Batteries (AAA X 2)

(Not available in all locations)

Sold separately



Semi Stand KIT



LAN Cable



USB Cable

(Applicable to the
460UTn-2, 460UTn-B
model only)

Sold separately



RGB to BNC Cable

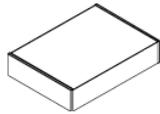


RGB to COMPONENT Cable



Network Box

(Applicable to the 460UT-2, 460UT-B model only)



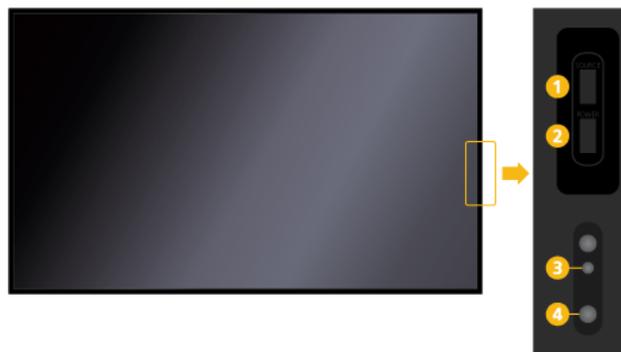
Wall Mount KIT



TV Tuner Box

Your LCD Display

Front



1 SOURCE button

Switches from PC mode to Video mode. Selects the input source that an external device is connected to.

[PC] → [DVI] → [AV] → [Component] → [HDMI1] → [HDMI2] → [Display-Port] → [MagicInfo] → [TV]

 **Note**

- A TV tuner box (sold separately) must be connected to use the TV.
- A network box (sold separately) must be connected to use **MagicInfo** with a 460UT-2, 460UT-B model.

2  POWER button

Use this button for turning the LCD Display on and off.

3 Power indicator

Shows PowerSaver mode by blinking green

**Note**

See PowerSaver described in the manual for further information regarding power saving functions. For energy conservation, turn your LCD Display OFF when it is not needed or when leaving it unattended for long periods.

4 Remote Control Sensor

Aim the remote control towards this spot on the LCD Display.

Rear**Note**

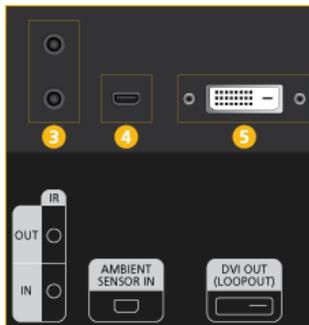
See the "Connections" section for details about cable connections. The LCD Display's configuration at the back may vary slightly depending on the model.

**A****1 POWER SW ON [|] / OFF**

Switches the LCD Display On/Off.

2 POWER

The power cord plugs into the LCD Display and the wall outlet.

B**3 IR OUT/IN**

Receives a signal from the remote control and outputs the signal through Loopout when a removable sensor board is connected.

4 AMBIENT SENSOR IN

Supplies power to the removable sensor board and receives a signal from the light sensor.

5 DVI OUT (LOOPOUT)

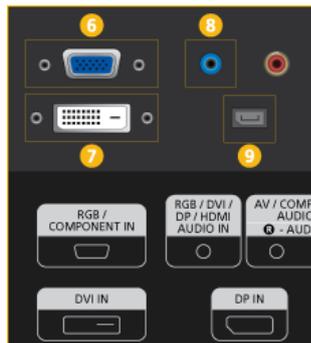
- Connect a monitor to another monitor through a DVI, DVI to HDMI cable.

- Connect a DVI or DVI-HDMI cable to *[DVI OUT (LOOPOUT)]* on the product and *[DVI IN]* or *[HDMI IN]* on another monitor.
- HDMI and network signals sent via the *[DVI OUT (LOOPOUT)]* port are displayed on the second display which has the *[DVI IN]* port.

 **Note**

- The Loopout function can be used to duplicate the screen of the primary display. Connect *[DVI OUT]* on the primary display to *[DVI IN]* or *[HDMI]* on another display.
- A maximum of 50 monitors can be connected to DVI-Loopout (using a 2m-long DVI cable). Up to Full HD resolution can be supported. Compatible input sources include DVI IN, HDMI IN 1, and HDMI IN 2 (MagicInfo).

C



6 *RGB/COMPONENT IN (PC/COMPONENT Connection Terminal (Input))*

- Connect the *[RGB/COMPONENT IN]* port on the monitor to the RGB port on the PC using the D-SUB cable.
- Connect the *[RGB/COMPONENT IN]* port on the monitor to the COMPONENT port on the external device using the RGB to COMPONENT cable.
- Connect the *[RGB/COMPONENT IN]* port on the monitor to the BNC port on the PC using the RGB to BNC cable.

7 *DVI IN (PC Video Connection Terminal)*

Connect the *[DVI IN]* port on the monitor to the DVI port on the PC using the DVI cable.

8 *RGB/DVI/DP/HDMI AUDIO IN (PC/DVI/DP/HDMI Audio Connection Terminal (Input))*

Connect the *[RGB/DVI/DP/HDMI AUDIO IN]* terminal of the monitor and the speaker output terminal of your computer's sound card using a stereo cable (sold separately).

9 *DP IN*

Receives a signal from the Display port.

D



Connect a DP cable to *[DP IN]* on the product and DP IN on another display.

10 AV/COMPONENT AUDIO IN [L-AUDIO-R]

Connect the *[AV/COMPONENT AUDIO IN [L-AUDIO-R]]* port on the monitor to the audio output port on the PC or on the external device using an audio cable.

11 AV IN

Connect the *[AV IN]* terminal of your monitor to the video output terminal of the external device using a VIDEO cable.

12 AUDIO OUT

Connect a headphone or an External speaker.

13 DC OUT

Make sure to use connecting *[DC OUT]* terminal to the authorized TV-Tuner Box *[SBB_DTC/ZA]*.



Otherwise, this may result in damage to the product.

14 HDMI IN 1

- Connect the *[HDMI IN 1]* terminal at the back of your LCD Display to the HDMI terminal of your digital output device using a HDMI cable.
- Up to HDMI 1.3 can be supported.



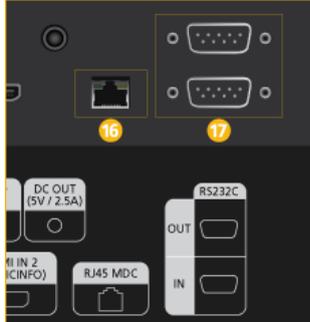
Note

The *[HDMI IN 1]* port can be connected to general external devices (DVD players, cam-corders, etc.) or the TV set-top box.

15 HDMI IN 2 (MAGICINFO)

- Connect the *[HDMI IN 2 (MAGICINFO)]* terminal at the back of your LCD Display to the HDMI terminal of your digital output device using a HDMI cable.
- Up to HDMI 1.3 can be supported.

E



Note

The MAGICINFO OUT port must be connected to the *[HDMI IN 2 (MAGICINFO)]* port.

16 RJ 45 MDC (MDC PORT)

MDC(Multiple Display Control) Program Port

Connect the LAN cable to *[RJ45 MDC]* on the product and LAN on the PC. To use an MDC, the MDC program must be installed on the PC.

Note

Go to **Multi Control** and select **RJ45 MDC** as the **MDC Connection**.

17 RS232C OUT/IN (RS232C Serial PORT)

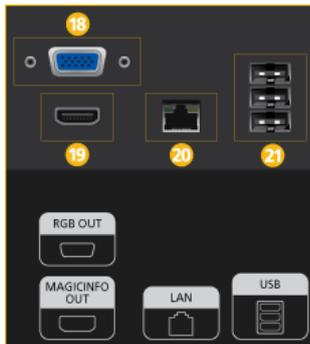
MDC(Multiple Display Control) Program Port

Connect a serial cable (cross type) to *[RS232C]* on the product and RS232C on the PC. To use an MDC, the MDC program must be installed on the PC.

Note

Go to **Multi Control** and select **RS232C MDC** as the **MDC Connection**.

F



18 RGB OUT

MagicInfo video output port

Note

Applicable to the 460UTn-2, 460UTn-B model only.

19 MAGICINFO OUT

Outputs **MagicInfo** HDMI signals. It should be connected to *[HDMI IN 2 (MAGICINFO)]* via an HDMI cable.

20 LAN (LAN Connection Terminal)

Connects to a LAN cable to allow Internet or network access in **MagicInfo** mode.

Note

Applicable to the 460UTn-2, 460UTn-B model only.

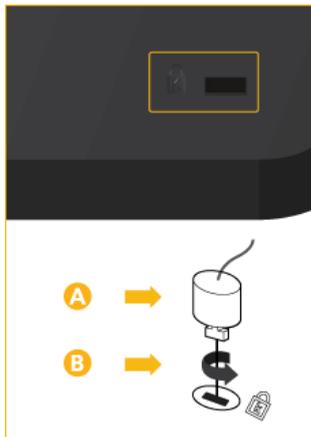
21 *USB (USB Connection Terminal)*

Keyboard / Mouse, Mass Storage Device Compatible.

Note

Applicable to the 460UTn-2, 460UTn-B model only.

G



Kensington Lock slot

A Kensington Lock is an anti-theft device that enables users to lock the product so that they can safely use it in public locations. Since the shape and usage of the locking device may differ depending on the model and the manufacturer, for more information, refer to the User Manual supplied with the locking device for more information.

Note

You must purchase the Kensington Lock separately.

To lock the product, follow these steps:

1. Wrap the Kensington lock cable around a large, stationary object such as a desk or chair.
2. Slide the end of the cable with the lock attached through the looped end of the Kensington lock cable.
3. Insert the Kensington Lock into the security slot (A) on the back of the display.
4. Lock the lock (B).

Note

- These are general instructions. For exact instructions, see the User Manual supplied with the locking device.
- You can purchase the locking device from an electronics store, an online shop, or our service center.

Note

See the "Connections" section for details about cable connections.

Remote Control



Note

The performance of the remote control may be affected by a TV or other electronic device operating near the LCD Display, causing a malfunction due to interference with the frequency.



- | | | |
|---|---------------------|--|
| 1 | POWER | Turns the product On/Off. |
| 2 | OFF | Turns the product Off. |
| 3 | Number Buttons | Used to enter the password during the OSD adjustment or to use MagicInfo. |
| 4 | DEL / GUIDE button | Press to change the channel.
The "-" button is used to select Digital channels.
Electronic Program Guide (EPG) display.
- This function does not work for this LCD Display. |
| 5 | + VOL - | Adjusts the audio volume. |

6  SOURCE Selects a connected external input source or **MagicInfo** mode.

Press the button to change the input signal SOURCE.

Changing the SOURCE is only allowed for external devices that are connected to the LCD Display at the time.

7  D.MENU DTV menu display

DTV menu display

- This function does not work for this LCD Display.

8  TOOLS Use to quickly select frequently used functions.

Use to quickly select frequently used functions.

- This function does not work for this LCD Display.

9 Up-Down Left-Right buttons Moves from one menu item to another horizontally, vertically or adjusts selected menu values.

Moves from one menu item to another horizontally, vertically or adjusts selected menu values.

10  INFO Current picture information is displayed on the upper left corner of the screen.

Current picture information is displayed on the upper left corner of the screen.

11 PC/DVI/HDMI/DP Directly selects an external input source: **PC, DVI, HDMI** or **DP(DisplayPort)**.

Directly selects an external input source: **PC, DVI, HDMI** or **DP(DisplayPort)**.

12  TTX/MIX TV channels provide written information services via teletext.

TV channels provide written information services via teletext.

- Teletext Buttons

6 , **7** , **10** , **12** , **13** , **14** , **16** , **18** , **19** , **20** 

- This is activated when a TV tuner box is installed.

13 MTS/DUAL

MTS-

You can select MTS (Multichannel Television Stereo) mode.

	Audio Type	MTS/S_Mode	Default
FM Stereo	Mono	Mono	Manual
	Stereo	Mono ↔ Stereo	Change
	SAP	Mono ↔ SAP	Mono

DUAL-

STEREO/MONO, DUAL I / DUAL II and MONO/NICAM MONO/NICAM STEREO can be operated depending on the broadcasting type by using the DUAL button on the remote control while watching TV.

- This is activated when a TV tuner box is installed.

14  ENTER/PRE-CH This button is used to return to the immediately previous channel.

This button is used to return to the immediately previous channel.

- This is activated when a TV tuner box is installed.

15  MUTE Pauses (mutes) the audio output temporarily. This is displayed on the lower left corner of the screen. The audio

Pauses (mutes) the audio output temporarily. This is displayed on the lower left corner of the screen. The audio

comes back on if MUTE or - VOL + is pressed in the Mute mode.

16  CH/P 

In **TV** mode, selects TV channels.

- This is activated when a TV tuner box is installed.

17  TV

Selects the TV mode directly.

- This is activated when a TV tuner box is installed.

18  MENU

Opens the on-screen menu and exits from the menu or closes the adjustment menu.

19  RETURN

Returns to the previous menu.

20  EXIT

Exits from the menu screen.

21  MagicInfo

MagicInfo Quick Launch Button.



This button is disabled for products that do not support **MagicInfo**.



 **Note**

Select **HDMI2** (only with a 460UT-2, 460UT-B model) or **HDMI1** as an input source when connected to the PC via an HDMI cable.

To obtain normal picture and audio from the PC, **HDMI2** (only with a 460UT-2, 460UT-B model) or **HDMI1** must be selected before **PC** is selected in **Edit Name**.

To enable audio when **DVI Device** is selected, be sure to establish the connection using step (2).

- 2 Connect the Audio cable for your LCD Display to the AUDIO port on the back of the LCD Display.
- 3 Connect the power cord for your LCD Display to the POWER port on the back of the LCD Display. Turn on the power switch.

 **Note**

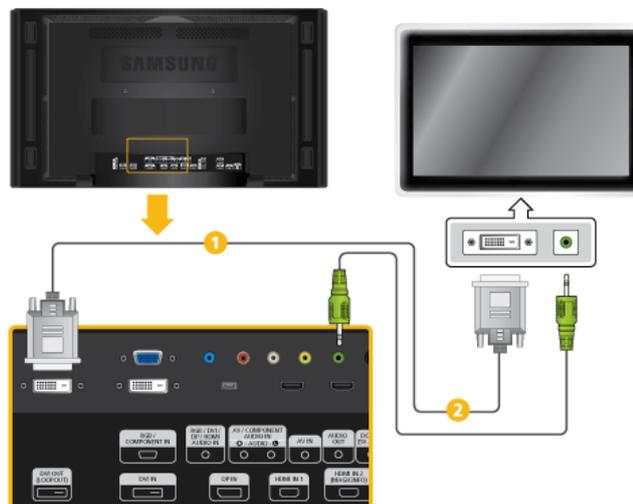
Contact a local SAMSUNG Electronics Service Center to buy optional items.

Connecting to Other devices

 **Note**

- AV input devices such as DVD players, VCRs or camcorders as well as your computer can be connected to the LCD Display. For detailed information on connecting AV input devices, refer to the contents under Adjusting Your LCD Display.
- The LCD Display 's configuration at the back may vary slightly depending on the LCD Display model.

Connecting an External Monitor



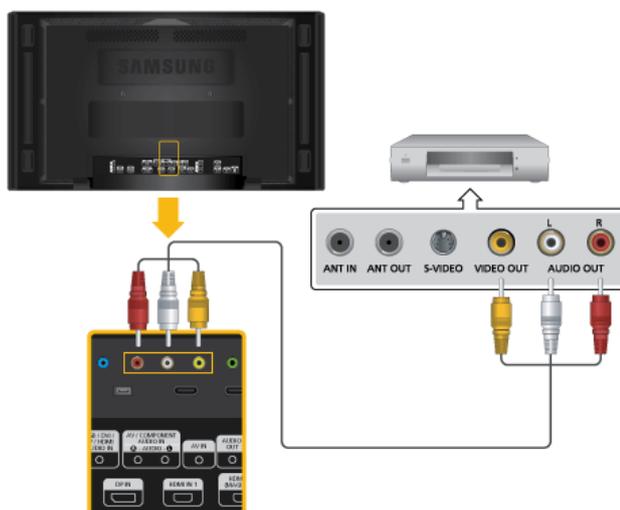
- 1 Connect between the *[DVI OUT(LOOPOUT)]* port on the LCD Display and the input port on another monitor using a DVI cable.
- 2 Connect between the *[AUDIO OUT]* port on the LCD Display and the audio input port on another monitor using a stereo cable.

Note

Select **DVI Mode** as an input source for the external monitor connected to *[DVI OUT]*.

DVI OUT does not support HDCP.

Connecting AV Devices

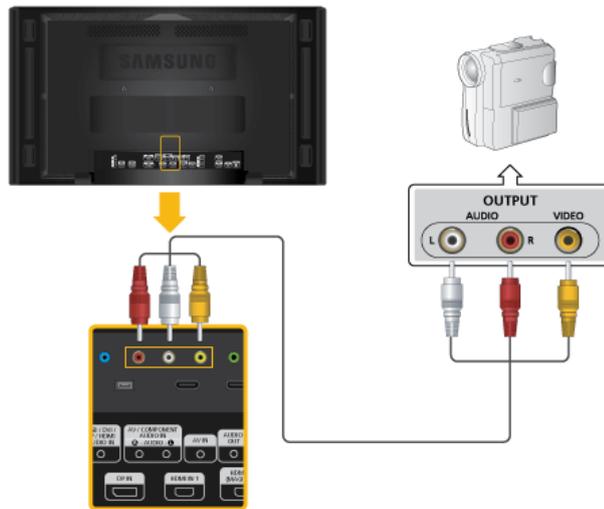


1. Connect an audio cable to *[AV/COMPONENT AUDIO IN [L-AUDIO-R]]* on the product and the audio port on an external device such as a VCR or DVD player.
2. Connect a video cable to *[AV IN]* on the product and the video output port on the external device.
3. Then, start the DVD, VCR or Camcorders with a DVD disc or tape inserted.
4. Press *SOURCE* on the product or remote control and select "**AV**".

Note

AV input devices such as DVD players, VCRs or camcorders as well as your computer can be connected to the LCD Display. For detailed information on connecting AV input devices, refer to the contents under Adjusting Your LCD Display.

Connecting to a Camcorder



1. Locate the AV output jacks on the camcorder. They are usually found on the side or back of the camcorder. Connect a video cable between the VIDEO OUTPUT jack on the camcorder and the [AV IN] on the LCD Display .
2. Connect a set of audio cables between the AUDIO OUTPUT jacks on the camcorder and the [AV /COMPONENT AUDIO IN [L-AUDIO-R]] on the LCD Display .
3. Press *SOURCE* on the product or remote control and select "AV".
4. Then, start the Camcorders with a tape inserted.

Note

The audio-video cables shown here are usually included with a Camcorder.

(If not, check your local electronics store.)

If your camcorder is stereo, you need to connect a set of two cables.

Connecting Using a HDMI Cable

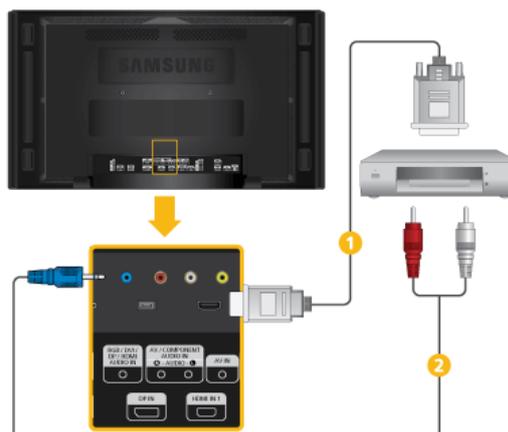


1. Connect an HDMI cable to *[HDMI IN 2 (MAGICINFO)]* (only with a 460UT-2, 460UT-B model) or *[HDMI IN 1]* on the product and the HDMI output port on a digital device.
2. Press *SOURCE* on the product or remote control and select "**HDMI1 / HDMI2**(only with a 460UT-2, 460UT-B model)"

Note

In **HDMI** mode, only PCM format audio is supported.

Connecting Using a DVI to HDMI Cable

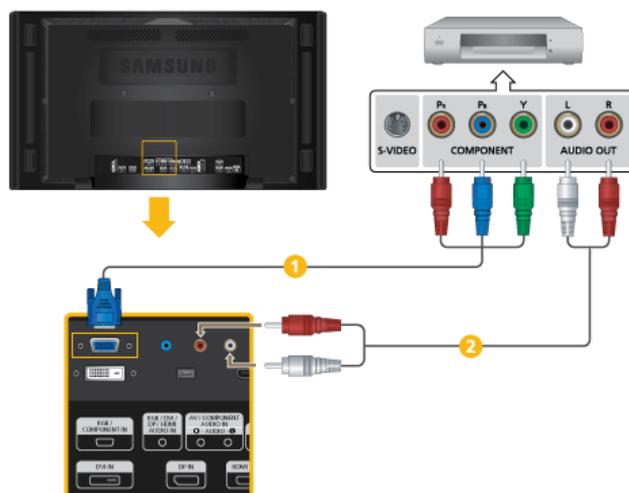


1. Connect a DVI-HDMI cable to *[HDMI IN 2 (MAGICINFO)]* (only with a 460UT-2, 460UT-B model) or *[HDMI IN 1]* and the DVI output port on the digital device.
2. Connect the red and white jacks of an RCA to stereo (for PC) cable to the same colored audio output terminals of the digital output device, and con-

nect the opposite jack to the *[RGB/DVI/DP/HDMI AUDIO IN]* terminal of the LCD Display.

3. Press *SOURCE* on the product or remote control and select "**HDMI1 / HDMI2**(only with a 460UT-2, 460UT-B model)"

Connecting a DVD Player

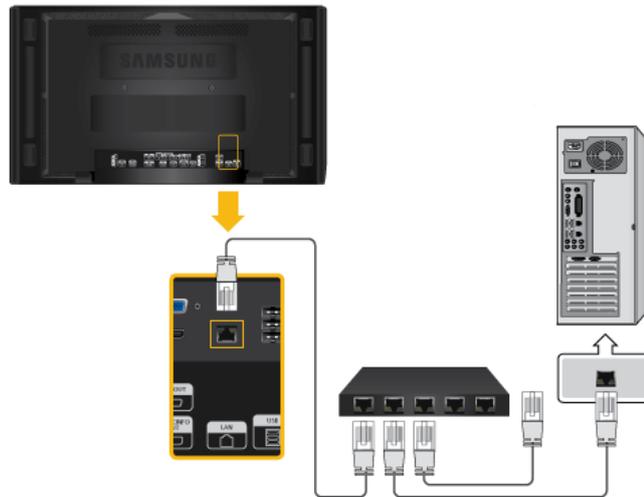


- 1 Connect a RGB to Component cable between the *[RGB/COMPONENT IN]* port on the LCD Display and the P_R, Y, P_B jacks on the DVD player.
- 2 Connect a set of audio cables between the *[AV/COMPONENT AUDIO IN [L-AUDIO-R]]* on the LCD Display and the AUDIO OUT jacks on the DVD player.

Note

- Press *SOURCE* on the product or remote control and select "**Component**".
- Then, start the DVD Player with a DVD disc inserted.
- A RGB to component cable is optional.
- For an explanation of Component video, consult your DVD manual.

Connecting a LAN Cable



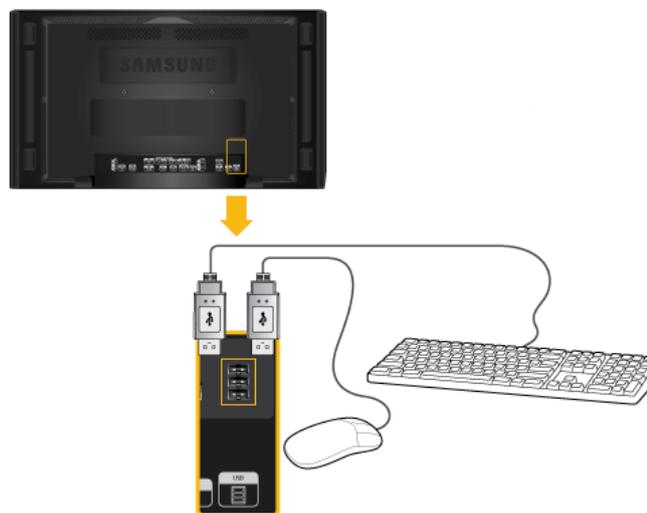
1. Connect the LAN cable between the *[LAN]* port on the product and the *[LAN]* port on your PC.



Note

Applicable to the 460UTn-2, 460UTn-B model only.

Connecting a USB devices



1. You can connect USB devices such as a mouse or keyboard.



Note

Applicable to the 460UTn-2, 460UTn-B model only.

Troubleshooting

Self-Test Feature Check



Check the following items yourself before calling for assistance. Contact a Service Center for problems that you cannot solve by yourself.

Self-Test Feature Check

1. Turn off both your computer and the LCD Display.
2. Unplug the video cable from the back of the computer.
3. Turn on the LCD Display.

The figure shown below ("**No Signal**") appears on a black background when the LCD Display is working normally even though no video signal is detected: While in the Self-Test mode, the LED power indicator remains green and the figure moves around on the screen.

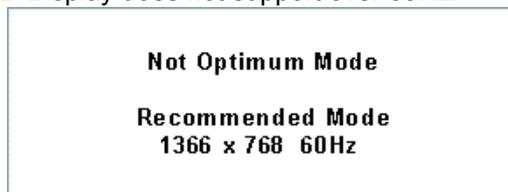


4. Turn off your LCD Display and reconnect the video cable; then turn on both your computer and the LCD Display

If your LCD Display screen remains blank after using the previous procedure, check your video controller and computer system; your LCD Display is functioning properly.

Warning Messages

You can even view the screen at a resolution of 1920 x 1080. However, you will receive the following message for a minute; You can choose to change the screen resolution or stay in the current mode during that time. If the resolution is more than 85Hz, you will see the black screen because the LCD Display does not support over 85Hz.



Refer to Specifications > Preset Timing Modes for the resolutions or frequencies supported by the LCD Display.

Maintenance and Cleaning

- 1) Maintaining the LCD Display Case.

Clean with a soft cloth after disconnecting the power cord.



- Do not use benzene, thinner or other flammable substances.

2) Maintaining the Flat Panel Display Screen.

Clean with a soft cloth (cotton flannel).



- Never use acetone, benzene or thinner.
(They may cause flaws or deformation of the screen surface.)
- The user is responsible for any damage caused by using these substances.

Symptoms and Recommended Actions



Note

A LCD Display recreates visual signals received from the computer. Therefore, if there is a problem with the computer or the video card, this can cause the LCD Display to become blank, have poor coloring, become noisy, etc. In this case, first check the source of the problem, and then contact a Service Center or your dealer.

1. Check if the power cord and the video cables are properly connected to the computer.
2. Check if the computer beeps more than 3 times when booting.
(If it does, request service.)
3. If you installed a new video card or if you assembled the PC, check if you installed the Adaptor(video).
4. Check if the scanning ratio of the video screen is set to between 50 Hz ~ 85 Hz.
(Do not exceed 60Hz when using the maximum resolution.)
5. If you have problems in installing the Adaptor (video) driver, boot the computer in Safe Mode, remove the Display Adaptor in the "Control Panel -> System -> Device Administrator" and then reboot the computer to reinstall the Adaptor (video) driver.

Check List



Note

- The following table lists possible problems and their solutions. Before calling for assistance, check the information in this section to see if you can remedy any problems for yourself. If you do need assistance, please call the phone number on the Information section or contact your dealer.
- For more network-related information, refer to the MagicInfo Troubleshooting section.

Problems related to the Installation (PC Mode)



Note

Problems related to the LCD Display installation and their solutions are listed.

Q: The LCD Display screen flickers.

A: Check if the signal cable between the computer and the LCD Display is securely connected.

(Refer to Connecting a Computer)

Problems related to the Screen



Problems related to the LCD Display screen and their solutions are listed.

Q: The screen is blank and the power indicator is off.

A: Ensure that the power cord is firmly connected and the LCD Display is on.

(Refer to the Connecting a Computer)

Q: "**Check Signal Cable**" message.

A: Ensure that the signal cable is firmly connected to the PC or video sources.

(Refer to the Connecting a Computer)

A: Ensure that the PC or video sources are turned on.

Q: "**Not Optimum Mode**" message.

A: Check the maximum resolution and the frequency of the video Adaptor.

A: Compare these values with the data in the Preset Timing Modes Chart.

Q: The picture rolls vertically.

A: Check if the signal cable is securely connected. Re-connect it, if necessary.

(Refer to Connecting a Computer)

Q: The image is not clear; picture is blurred.

A: Run Frequency **Coarse** and **Fine** tuning.

A: Turn on again after removing all accessories (video extension cable, etc.)

A: Set the resolution and frequency to the recommended ranges.

Q: The picture image is unstable and shakes.

A: Check if the resolution and frequency set for the computer video card falls in the range supported by the LCD Display. If not, reset them referring to the current Information under the LCD Display menu and Preset Timing Modes.

Q: Ghost images are shown in the picture.

A: Check if the resolution and frequency set for the computer video card falls in the range supported by the LCD Display. If not, reset them referring to the current Information under the LCD Display menu and Preset Timing Modes.

Q: The image is too light or too dark.

A: Adjust the **brightness** and **contrast**.

(Refer to the **Brightness, Contrast**)

- Q: The screen color is inconsistent.
- A: Adjust color using **Custom** under OSD Color Adjustment menu.
- Q: The color image is distorted by dark shadows.
- A: Adjust color using **Custom** under OSD Color Adjustment menu.
- Q: The color white is poor.
- A: Adjust color using **Custom** under OSD Color Adjustment menu.
- Q: The Power Indicator blinks.
- A: The LCD Display is currently saving the changes made in the settings to the OSD memory.
- Q: The screen is blank and the power indicator light blinks every 0.5 or 1 seconds.
- A: The LCD Display is using its power management system. Press any key on the keyboard.
- Q: The screen is blank and it is blinking.
- A: If you see the "**TEST GOOD**" message on the screen when you pressing the MENU button, check the cable connection between the LCD Display and the computer to ensure that the connector is properly connected.

Problems related to Audio



Problems related to audio signals and their solutions are listed below.

- Q: No sound.
- A: Ensure that the audio cable is firmly connected to both the audio-in port on your LCD Display and the audio-out port on your sound card.
- (Refer to the Connecting a Computer)
- A: Check the volume level.
- Q: The sound level is too low.
- A: Check the volume level.
- A: If the volume is still too low after turning the control to its maximum, check the volume control on the computer sound card or software program.
- Q: The sound is too high or too low.
- A: Adjusts the **Treble** and **Bass** to the appropriate levels.

Problems related to the Remote Control



Problems related to the remote control and their solutions are listed.

- Q: The remote control buttons do not respond.
- A: Check the polarities (+/-) of the batteries.

- A: Check if the batteries are empty.
- A: Check if the power is on.
- A: Check if the power cord is securely connected.
- A: Check if a special fluorescent or neon lamp is on in the vicinity.

Q & A

Q: How can I change the frequency?

A: The frequency can be changed by reconfiguring the video card.



Note

That video card support can vary, depending on the version of the driver used. (Refer to the computer or the video card manual for details.)

Q: How can I adjust the resolution?

A: Windows XP:

Set the resolution in the Control Panel → Appearance and Themes → Display → Settings.

A: Windows ME/2000:

Set the resolution in the Control Panel → Display → Settings.

* Contact the video card manufacturer for details.

Q: How can I set the Power Saving function?

A: Windows XP:

Set the resolution in the Control Panel → Appearance and Themes → Display → Screen Saver.

Set the function in the BIOS-SETUP of the computer. (Refer to the Windows / Computer Manual).

A: Windows ME/2000:

Set the resolution at the Control Panel → Display → Screen Saver.

Set the function in the BIOS-SETUP of the computer. (Refer to the Windows / Computer Manual).

Q: How can I clean the outer case/LCD Panel?

A: Disconnect the power cord and then clean the LCD Display with a soft cloth, using either a cleaning solution or plain water.

Do not leave any detergent or scratches on the case. Do not let any water enter the LCD Display.

Q: How can I play the video?

A: The video supports the MPEG1 and WMV codecs only. Install the corresponding codec to play the video. Note that some of the codecs can be incompatible.



Before calling for assistance, check the information in this section to see if you can remedy any problems yourself. If you do need assistance, please call the phone number on the Information section or contact your dealer.