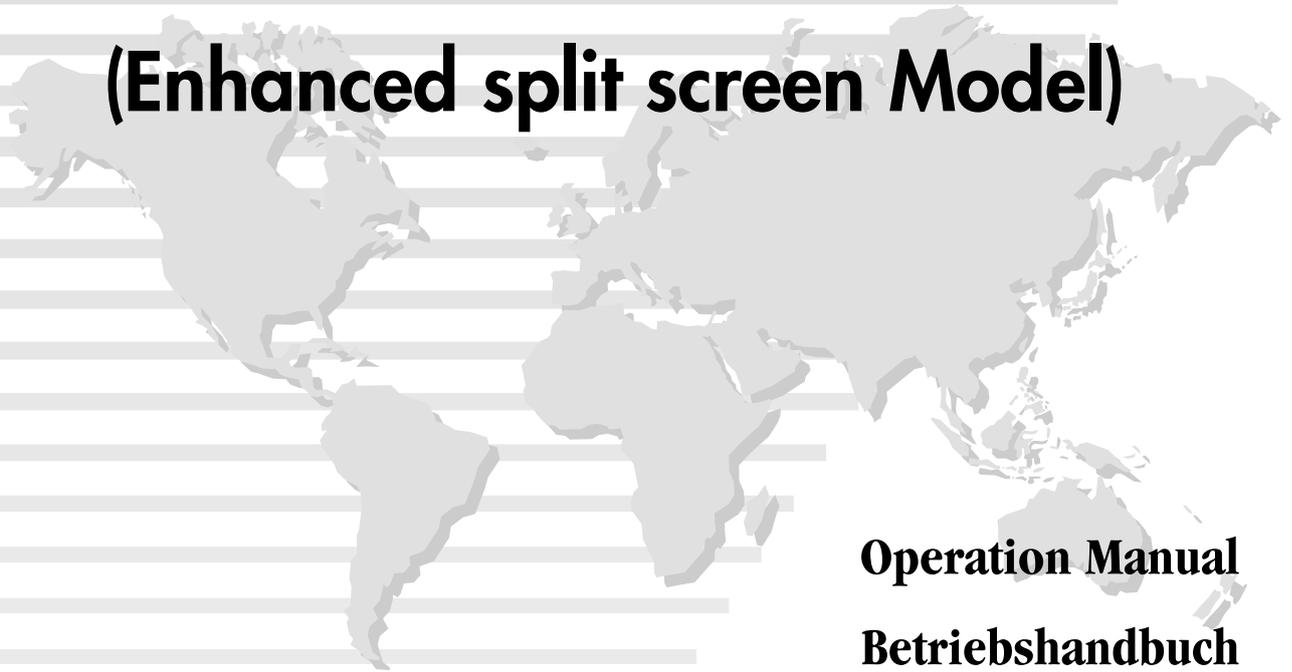


(Enhanced split screen Model)



Operation Manual

Betriebshandbuch

Mode d'emploi

Manual de funcionamiento

Manuale d'uso

Руководство по эксплуатации

Bruksanvisning

İşletim Elkitabı

Οδηγίες χρήσης

Operation Manual

(Enhanced split screen Model)

For the specifications of your plasma monitor, refer to "Model Information".

ENGLISH

Important Information

Precautions

Please read this manual carefully before using your plasma monitor and keep the manual handy for future reference.

CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

 This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any part inside of this unit.

 This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

WARNING

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. ALSO DO NOT USE THIS UNIT'S POLARIZED PLUG WITH AN EXTENSION CORD RECEPTACLE OR OTHER OUTLETS, UNLESS THE PRONGS CAN BE FULLY INSERTED. REFRAIN FROM OPENING THE CABINET AS THERE ARE HIGH-VOLTAGE COMPONENTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Warnings and Safety Precaution

This plasma monitor is designed and manufactured to provide long, trouble-free service. No maintenance other than cleaning is required. Please see the section "Plasma monitor cleaning procedure".

The plasma display panel consists of fine picture elements (cells) with more than 99.99 percent active cells. There may be some cells that do not produce light or remain lit. For operating safety and to avoid damage to the unit, read carefully and observe the following instructions.

To avoid shock and fire hazards:

1. Provide adequate space for ventilation to avoid internal heat build-up. Do not cover rear vents or install the unit in a closed cabinet or shelves.
If you install the unit in an enclosure, make sure there is adequate space at the top of the unit to allow hot air to rise and escape. If the monitor becomes too hot, the overheat protector will be activated and the monitor will be turned off. If this happens, turn off the power to the monitor and unplug the power cord. If the room where the monitor is installed is particularly hot, move the monitor to a cooler location, and wait for 60 minutes to cool the monitor. If the problem persists, contact your dealer for service.
2. Do not use this unit's polarized plug with extension cords or outlets unless the prongs can be completely inserted.
3. Do not expose the unit to water or moisture.
4. Avoid damage to the power cord, and do not attempt to modify the power cord.
5. Unplug the power cord during electrical storms or if the unit will not be used over a long period.
6. Do not open the cabinet which has potentially dangerous high voltage components inside. If the unit is damaged in this way the warranty will be void. Moreover, there is a serious risk of electric shock.
7. Do not attempt to service or repair the unit. The manufacturer is not liable for any bodily harm or damage caused if unqualified persons attempt service or open the back cover. Refer all service to authorized Service Centers.
8. This equipment shall be connected to a MAIN outlet with a protective earth-ground connection.
9. The outlet shall be installed near the equipment and shall be easily accessible.

To avoid damage and prolong operating life:

1. Use only with 100 V to 240 V 50 Hz/60 Hz AC power supply. Continued operation at line voltages greater than 100 V to 240 V AC will shorten the life of the unit, and might even cause a fire hazard.
2. Handle the unit carefully when installing it and do not drop.
3. Set the unit away from heat, excessive dust, and direct sunlight.
4. Protect the inside of the unit from liquids and small metal objects. In case of accident, unplug the power cord and have it serviced by an authorized Service Center.
5. Do not hit or scratch the panel surface as this causes flaws on the surface of the screen.
6. For correct installation and mounting it is strongly recommended to use a trained, authorized dealer.
7. As is the case with any phosphor-based display (like a CRT monitor, for example) light output will gradually decrease over the life of a Plasma Display Panel.
8. To avoid sulfurization it is strongly recommended not to place the unit in a dressing room in a public bath or hot spring bath.
9. Do not use in a moving vehicle, as the unit could drop or topple over and cause injuries.
10. Do not place the unit on its side, upside-down or with the screen facing up or down, to avoid combustion or electric shock.
11. To prevent a fire hazard, do not place any naked flame sources (such as a lighted candle) on the equipment.

Plasma monitor cleaning procedure:

1. Use a soft dry cloth to clean the front panel and bezel area. Never use solvents such as alcohol or thinner to clean these surfaces.
2. Clean plasma ventilation areas with a vacuum cleaner with a soft brush nozzle attachment.
3. To ensure proper ventilation, cleaning of the ventilation areas must be carried out monthly. More frequent cleaning may be necessary depending on the environment in which the plasma monitor is installed.

Recommendations to avoid or minimize image retention:

Like all phosphor-based display devices and all other gas plasma displays, plasma monitors can be susceptible to image retention under certain circumstances. Certain operating conditions, such as the continuous display of a static image over a prolonged period of time, can result in image retention if proper precautions are not taken. To protect your investment in this plasma monitor, please adhere to the following guidelines and recommendations for minimizing the occurrence of image retention:

- * Always enable and use your computer's screen saver function during use with a computer input source.
- * Display a moving image whenever possible.
- * Change the position of the menu display from time to time.
- * Always power down the monitor when you are finished using it.

If the plasma monitor is in long term use or continuous operation take the following measures to reduce the likelihood of image retention:

- * Lower the Brightness and Contrast levels as much as possible without impairing image readability.
- * Display an image with many colors and color gradations (i.e. photographic or photo-realistic images).
- * Create image content with minimal contrast between light and dark areas, for example white characters on black backgrounds. Use complementary or pastel color whenever possible.
- * Avoid displaying images with few colors and distinct, sharply defined borders between colors.

Plasma monitor driving sound

The panel of the Plasma monitor is composed of extremely fine pixels and these pixels emit light according to received video signals. This principle may cause you to hear a buzz or electrical hum coming from the Plasma monitor. Also note that the rotation speed of the cooling fan motor increases when the ambient temperature of the Plasma monitor becomes high. You may hear the sound of the motor at that time.

Note:

The following items are not covered by the warranty.

- Image retention
- Panel generated sound, examples: Fan motor noise, and electrical circuit humming /glass panel buzzing.

Contact your dealer for other recommended procedures that will best suit your particular application needs.

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Contents of the Package

- Plasma monitor (× 1)
- Power cord (× 1, 3 m/9.8 feet)
- Remote control (× 1)
- AAA Batteries (× 2, Manganese battery for remote control)
- Manuals (Model Information and Operation)
- Ferrite cores for power cord (× 2), bands for power cord (× 2)
- Ferrite core for remote cable (× 2)
- Cable clampers (× 3), beads bands (× 3)

Options

- Wall mount unit
- Ceiling mount unit
- Tilt mount unit
- Tabletop Stand
- Attachable speakers

Installation

You can attach your optional mounts or stand to the plasma monitor in one of the following two ways:

- * While it is upright. (See Drawing A)
- * As it is laid down with the screen face down (See Drawing B). Lay the protective sheet, which was wrapped around the monitor when it was packaged, beneath the screen surface so as not to scratch the screen face.
- * Do not touch or hold the screen face when carrying the unit.

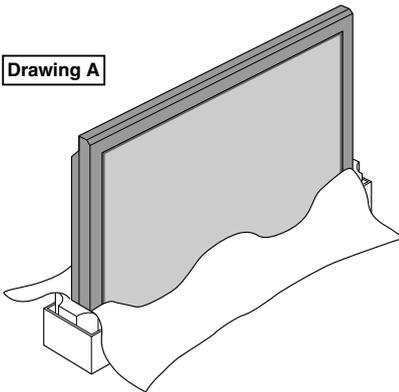
- **This device cannot be installed on its own. Be sure to use a stand or original mounting unit. (Wall mount unit, Stand, etc.)**
 - **For correct installation and mounting it is strongly recommended to use a trained, authorized dealer.**
- Failure to follow correct mounting procedures could result in damage to the equipment or injury to the installer.**
- Product warranty does not cover damage caused by improper installation.**

CAUTION

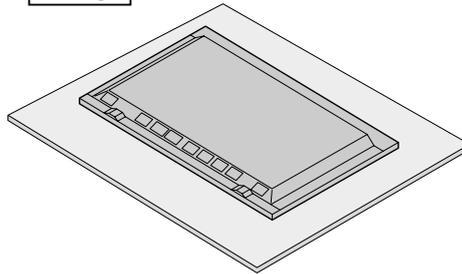
- **Install the device following the manual of the optional unit.**
- **Install the device on the stable and even place where it is strong enough to stand the weight.**
- **Use the specified clasps for installing.**
- **After installation, make sure to take measurements to prevent falling.**
- **Make sure to move or install the device with another person(s).**

* Use only a mounting kit or stand recommended by the manufacturer and listed as an accessory.

Drawing A

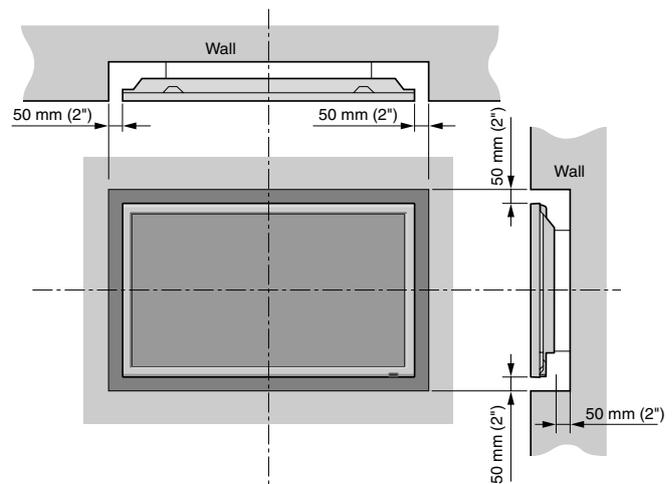


Drawing B



Ventilation Requirements for enclosure mounting

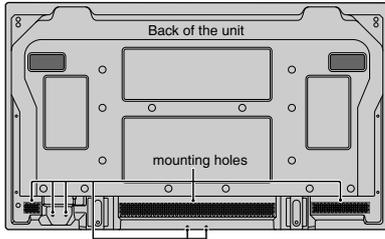
To allow heat to disperse, leave space between surrounding objects as shown on the diagram when installing.



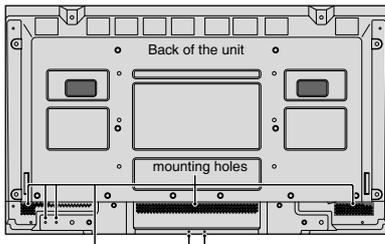
Cable Management

Using the cable clampers and beads bands provided with the plasma display; Bundle the signal and audio cables at the back of the unit to connect to the display.

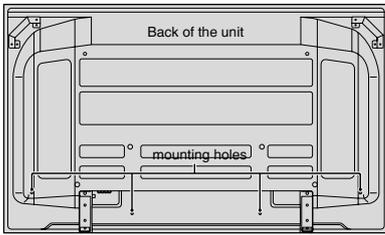
42XR5



50XR6



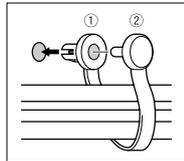
60XR5



To attach

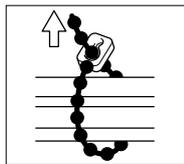
Insert ① into a mounting hole, then snap ② into the back of ① to fix the clamper.

Clampers are designed to be difficult to undo once in place. Please attach carefully. Cables can be routed to the right or left.



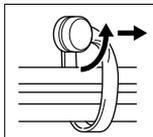
Bunch separated cables together and secure them with the provided beads bands.

Do not allow excessive stress to be placed on the ends of cables.



To detach

Using pliers, twist the clamer 90° and pull it outward. In some cases the clamer may have deteriorated over time and may get damaged when removed.



Using the remote control

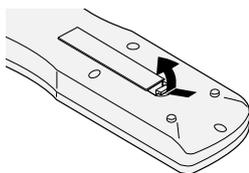
Battery Installation and Replacement

Designated batteries:

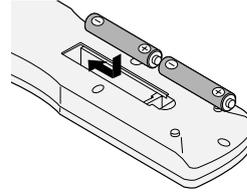
Please use size AAA (R03) or AAA (LR03).

Insert the 2 “AAA” batteries, making sure to set them in with the proper polarity.

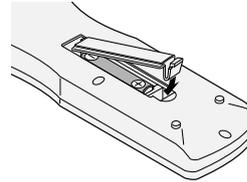
1. Press and open the cover.



2. Align the batteries according to the ⊕ and ⊖ indication inside the case.



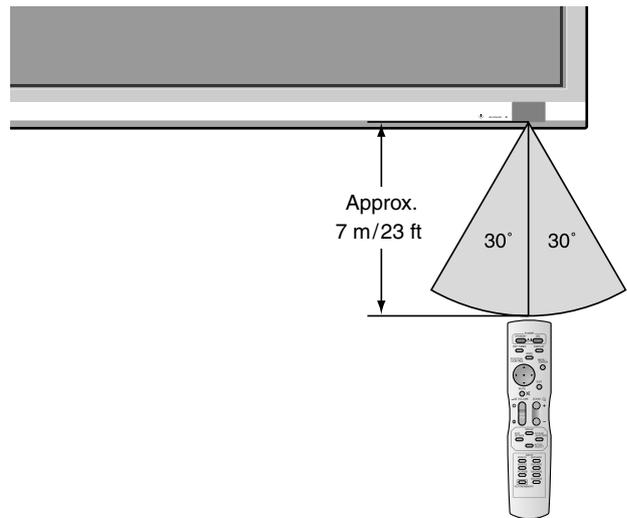
3. Replace the cover.



Operating Range

* Use the remote control within a distance of about 7 m / 23 ft. from the front of the monitor's remote control sensor and at horizontal and vertical angles of up to approximately 30°.

* The remote control operation may not function if the monitor's remote control sensor is exposed to direct sunlight or strong artificial light, or if there is an obstacle between the sensor and the remote control.

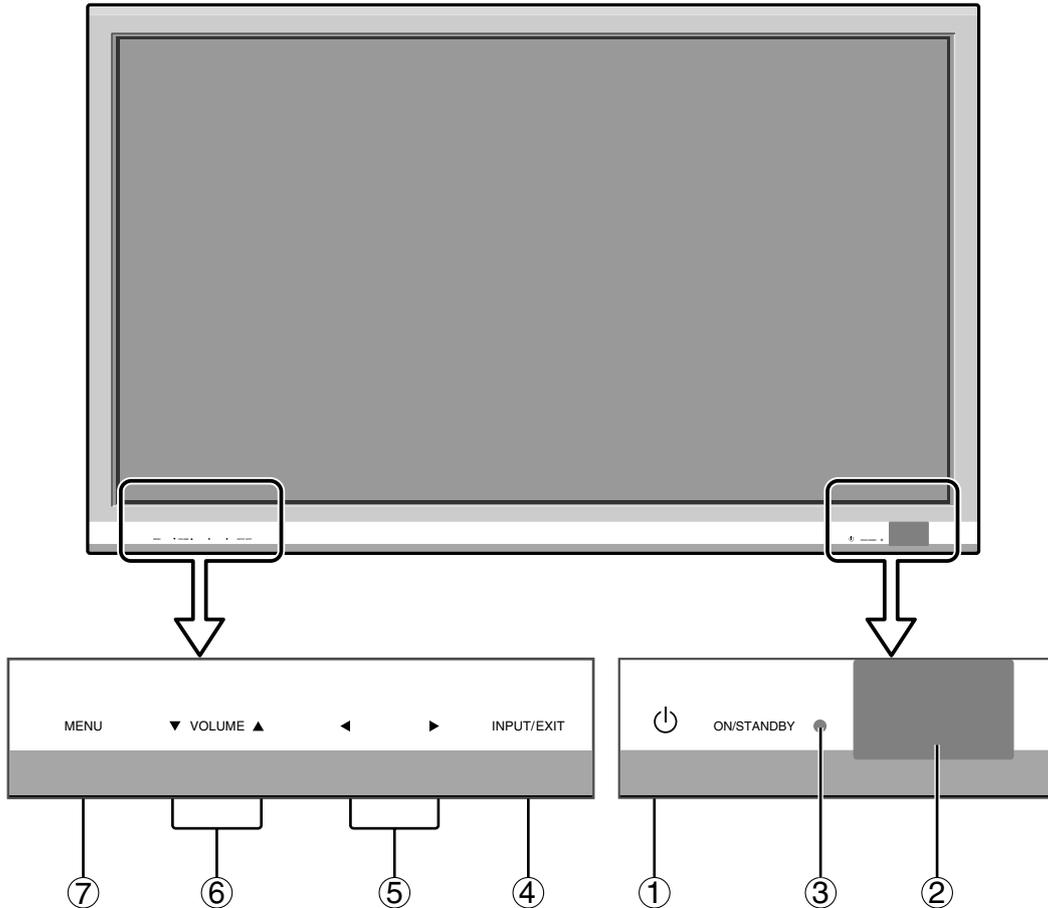


CAUTION

- Use only the specified batteries.
- Make sure to insert the batteries correctly according to the indications of ⊕ and ⊖.
- Do not drop or mishandle the remote control.
- Do not get the remote control wet. If the remote control gets wet, wipe it dry immediately.
- Avoid heat and humidity.
- When not using the remote control for a long period, remove the batteries.
- Do not use new and old batteries together, or use different types together.
- Do not take apart the batteries, heat them, or throw them into a fire.

Part Names and Function

Front View



- ① **Power**
Turns the monitor's power on and off.
- ② **Remote sensor window**
Receives the signals from the remote control.
- ③ **ON/STANDBY indicator**
When the power is on Lights green.
When the power is in the standby mode ... Lights red.
- ④ **INPUT / EXIT**
Switches the input.
Functions as the EXIT buttons in the On-Screen Menu (OSM) mode.
- ⑤ **◀ and ▶**
Enlarges or reduces the image. Functions as the CURSOR (◀/▶) buttons in the On-Screen Menu (OSM) mode.
- ⑥ **VOLUME ▼ and ▲**
Adjusts the volume. Functions as the CURSOR (▼/▲) buttons in the On-Screen Menu (OSM) mode.
- ⑦ **MENU**
Sets the On-Screen Menu (OSM) mode and displays the main menu.

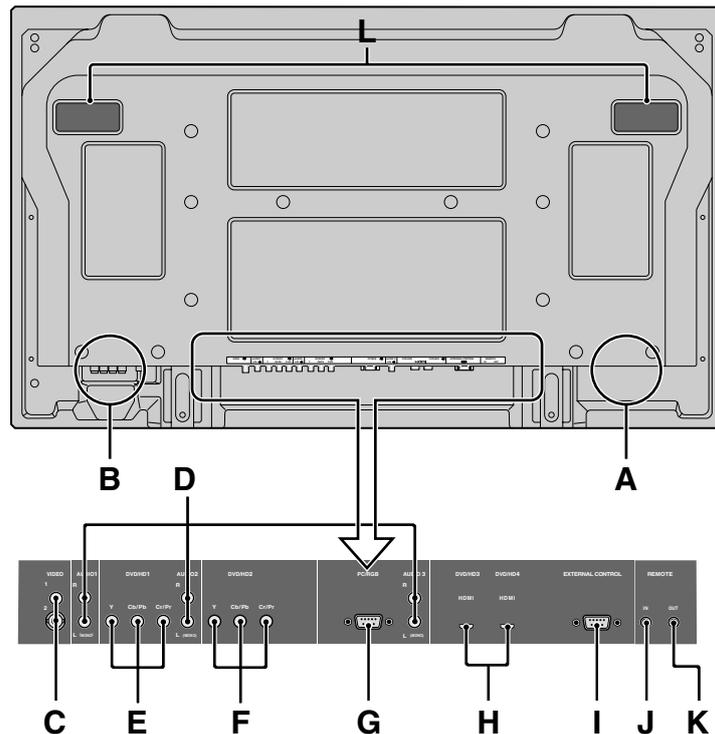
WARNING

The Power on/off switch does not completely disconnect power from the display.

Note: This plasma monitor has the capacity to display images when connected to European DVD players with a SCART output signal, which is RGB with composite sync.
Your dealer can supply a special SCART cable, which will enable you to use the RGB with composite sync signal.
To obtain the special cable as well as for further information, please contact your dealer.

Rear View/ Terminal Board

42XR5



A AC IN

Connect the included power cord here.

B EXT SPEAKER L and R

Connect speakers (optional) here. Maintain the correct polarity. Connect the \oplus (positive) speaker wire to the \oplus EXT SPEAKER terminal and the \ominus (negative) speaker wire to the \ominus EXT SPEAKER terminal on both LEFT and RIGHT channels.

Please refer to your speaker's owner's manual.

C VIDEO1, 2 (RCA, S-Video)

Connect VCR's, DVD's or Video Cameras, etc. here.

D AUDIO1, AUDIO2, AUDIO3

These are audio input terminals.

The input is selectable. Set which video image corresponds to the audio input from the audio menu screen.

E DVD/HD1

Connect DVD's, High Definition or Laser Discs, etc. here.

F DVD/HD2

You can connect DVDs, High Definition sources, Laser Discs, etc. here.

G PC/RGB (D-Sub)

Connect an analog RGB signal from a computer, etc. here.

H DVD/HD3, DVD/HD4 (HDMI)

Connect a digital signal from a source with a HDMI output. See "Specifications" on "Model Information".

I EXTERNAL CONTROL (D-Sub)

This terminal is used when operating and controlling the monitor externally with a control system (by RS-232C).

J REMOTE IN

K REMOTE OUT

Use these terminals to control external equipment.

L Handles

Use when installing or carrying the plasma monitor.

Information

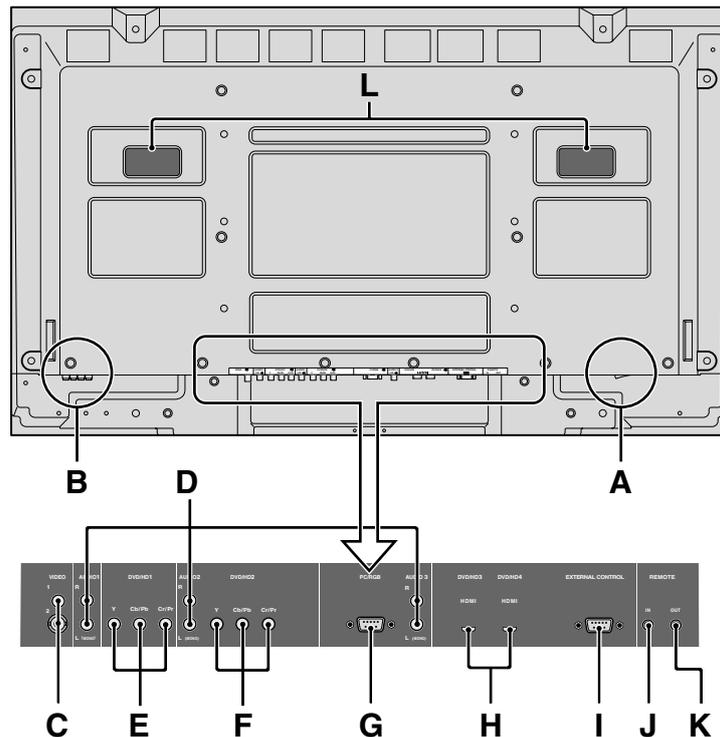
- For Y/Cb/Cr, connect to the DVD1 or DVD2 terminals.
- For SCART, this unit provides two ways to connect:
 - SCART1: Connect R/G/B to the DVD/HD1 terminals and composite sync. to the VIDEO1 terminal.
 - SCART2: Connect R/G/B + composite sync. to the PC/RGB terminal.

HDMITM
HIGH-DEFINITION MULTIMEDIA INTERFACE

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Rear View/ Terminal Board

50XR6



A AC IN

Connect the included power cord here.

B EXT SPEAKER L and R

Connect speakers (optional) here. Maintain the correct polarity. Connect the \oplus (positive) speaker wire to the \oplus EXT SPEAKER terminal and the \ominus (negative) speaker wire to the \ominus EXT SPEAKER terminal on both LEFT and RIGHT channels.
Please refer to your speaker's owner's manual.

C VIDEO1, 2 (RCA, S-Video)

Connect VCR's, DVD's or Video Cameras, etc. here.

D AUDIO1, AUDIO2, AUDIO3

These are audio input terminals.
The input is selectable. Set which video image corresponds to the audio input from the audio menu screen.

E DVD/HD1

Connect DVD's, High Definition or Laser Discs, etc. here.

F DVD/HD2

You can connect DVDs, High Definition sources, Laser Discs, etc. here.

G PC/RGB (D-Sub)

Connect an analog RGB signal from a computer, etc. here.

H DVD/HD3, DVD/HD4 (HDMI)

Connect a digital signal from a source with a HDMI output. See "Specifications" on "Model Information".

I EXTERNAL CONTROL (D-Sub)

This terminal is used when operating and controlling the monitor externally with a control system (by RS-232C).

J REMOTE IN

K REMOTE OUT

Use these terminals to control external equipment.

L Handles

Use when installing or carrying the plasma monitor.

Information

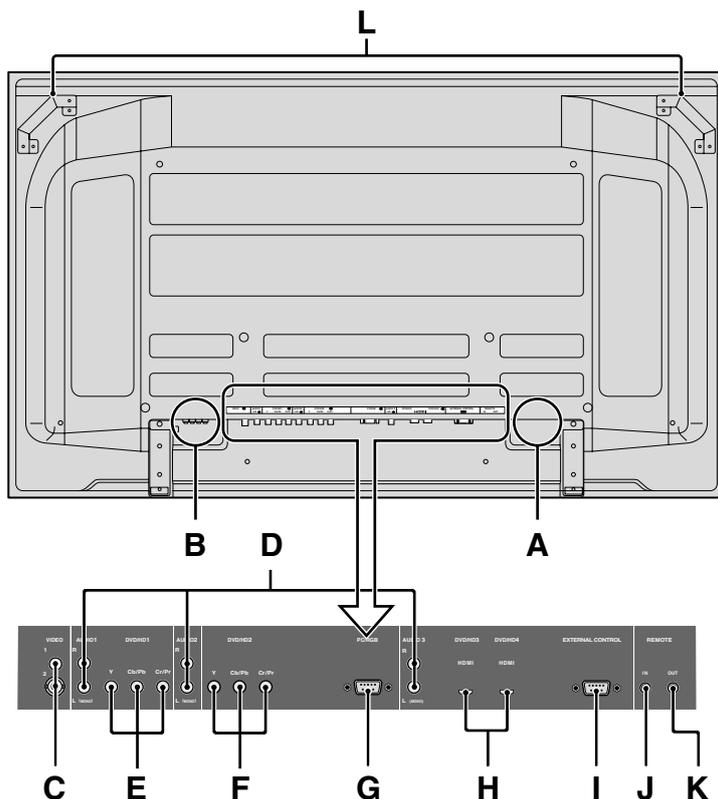
- For Y/Cb/Cr, connect to the DVD1 or DVD2 terminals.
- For SCART, this unit provides two ways to connect:
 - SCART1: Connect R/G/B to the DVD/HD1 terminals and composite sync. to the VIDEO1 terminal.
 - SCART2: Connect R/G/B + composite sync. to the PC/RGB terminal.

HDMITM
HIGH-DEFINITION MULTIMEDIA INTERFACE

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Rear View/ Terminal Board

60XR5



A AC IN

Connect the included power cord here.

B EXT SPEAKER L and R

Connect speakers (optional) here. Maintain the correct polarity. Connect the \oplus (positive) speaker wire to the \oplus EXT SPEAKER terminal and the \ominus (negative) speaker wire to the \ominus EXT SPEAKER terminal on both LEFT and RIGHT channels.

Please refer to your speaker's owner's manual.

C VIDEO1, 2 (RCA, S-Video)

Connect VCR's, DVD's or Video Cameras, etc. here.

D AUDIO1, AUDIO2, AUDIO3

These are audio input terminals.

The input is selectable. Set which video image corresponds to the audio input from the audio menu screen.

E DVD/HD1

Connect DVD's, High Definition or Laser Discs, etc. here.

F DVD/HD2

You can connect DVDs, High Definition sources, Laser Discs, etc. here.

G PC/RGB (D-Sub)

Connect an analog RGB signal from a computer, etc. here.

H DVD/HD3, DVD/HD4 (HDMI)

Connect a digital signal from a source with a HDMI output. See "Specifications" on "Model Information".

I EXTERNAL CONTROL (D-Sub)

This terminal is used when operating and controlling the monitor externally with a control system (by RS-232C).

J REMOTE IN

K REMOTE OUT

Use these terminals to control external equipment.

L Handles

Use when installing or carrying the plasma monitor.

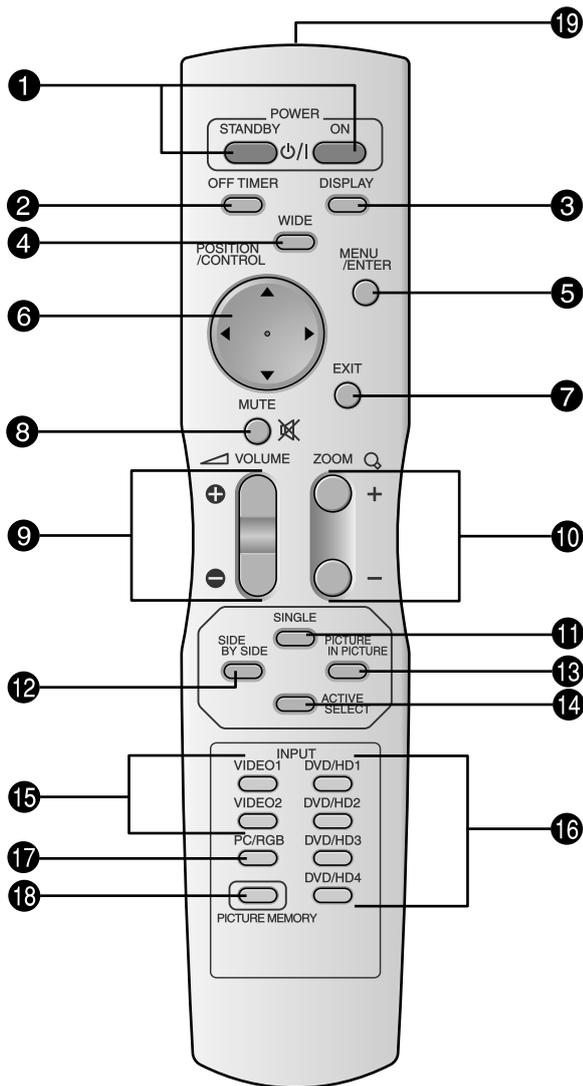
Information

- For Y/Cb/Cr, connect to the DVD1 or DVD2 terminals.
- For SCART, this unit provides two ways to connect:
 - SCART1: Connect R/G/B to the DVD/HD1 terminals and composite sync. to the VIDEO1 terminal.
 - SCART2: Connect R/G/B + composite sync. to the PC/RGB terminal.

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HIGH-DEFINITION MULTIMEDIA INTERFACE

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Remote Control



- 1 POWER ON/STANDBY**
Switches the power on/standby.
(This does not operate when the ON/STANDBY indicator of the plasma is off.)
- 2 OFF TIMER**
Activates the off timer for the unit.
- 3 DISPLAY**
Displays the source settings on the screen.
- 4 WIDE**
Automatically detects the signal and sets the aspect ratio.
WIDE button is not active for all signals.
- 5 MENU/ENTER**
Press this button to access the OSM controls.
Press this button during the display of the main menu to go to the sub menu.
- 6 CURSOR (▲ / ▼ / ◀ / ▶)**
Use these buttons to select items or settings and to adjust settings or switch the display patterns.
- 7 EXIT**
Press this button to exit the OSM controls in the main menu. Press this button during the display of the sub menu to return to the previous menu.

- 8 MUTE**
Mutes the audio.
- 9 VOLUME (+ /-)**
Adjusts the audio volume.
- 10 ZOOM (+ /-)**
Enlarges or reduces the image.
- 11 SINGLE**
Cancels the split screen mode.
- 12 SIDE BY SIDE**
Press this button to show a couple of pictures in the side-by-side mode.
- 13 PICTURE IN PICTURE**
Press this button to show a couple of pictures in the picture-in-picture mode.
- 14 ACTIVE SELECT**
Press this button to make the desired picture activate during split screen mode.
When the PICTURE FREEZE function is operating, this button can be used to display still images on the sub screen.
- 15 VIDEO1, 2**
Press this button to select VIDEO as the source.
VIDEO can also be selected using the INPUT/EXIT button on the monitor.
- 16 DVD/HD1, 2, 3, 4**
Press this button to select DVD/HD as the source.
DVD/HD can also be selected using the INPUT/EXIT button on the monitor.
- 17 PC/RGB**
Press this button to select PC/RGB as the source.
PC/RGB can also be selected using the INPUT/EXIT button on the monitor.
- 18 PICTURE MEMORY**
Switches sequentially between picture memory settings 1 to 6.
- 19 Remote control signal transmitter**
Transmits the remote control signals.

Basic Operations

POWER

To turn the unit ON and OFF:

1. Plug the power cord into an active AC power outlet.
2. Press the Power button (on the unit).
The monitor's ON/STANDBY indicator turns red and the standby mode is set.
3. Press the POWER ON button (on the remote control) to turn on the unit.
The monitor's ON/STANDBY indicator will light up (green) when the unit is on.
4. Press the POWER STANDBY button (on the remote control) or the Power button (on the unit) to turn off the unit.
The monitor's ON/STANDBY indicator turns red and the standby mode is set (only when turning off the unit with the remote control).

VOLUME

To adjust the sound volume:

1. Press and hold the VOLUME ⊕ button (on the remote control or the unit) to increase to the desired level.
2. Press and hold the VOLUME ⊖ button (on the remote control or the unit) to decrease to the desired level.

MUTE

To mute the audio:

Press the MUTE button on the remote control to mute the audio; press again to restore.

DISPLAY

To check the settings:

1. The screen changes each time the DISPLAY button is pressed.
2. If the button is not pressed for approximately three seconds, the menu turns off.

DIGITAL ZOOM

Digital zoom specifies the picture position and enlarges the picture.

1. (Be sure ZOOM NAV is off.)
Press the ZOOM (+ or -) button to display magnifying glass. (🔍)

To change the size of the picture:

Press the ZOOM+ button and enlarge the picture.
A press of the ZOOM- button will reduce the picture and return it to its original size.

To change the picture position:

1. Select the position with the ▲▼◀▶ buttons.
2. Press the EXIT button to delete the pointer.

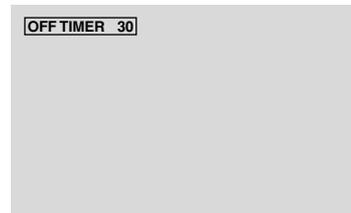
OFF TIMER

To set the off timer:

The off timer can be set to turn the power off after 30, 60, 90 or 120 minutes.

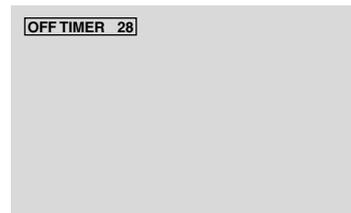
1. Press the OFF TIMER button to start the timer at 30 minutes.
2. Press the OFF TIMER button to the desired time.
3. The timer starts when the menu turns off.

→ 30 → 60 → 90 → 120 → 0



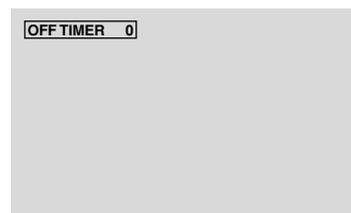
To check the remaining time:

1. Once the off timer has been set, press the OFF TIMER button once.
2. The remaining time is displayed, then turns off after a few seconds.
3. When five minutes remain the remaining time appears until it reaches zero.



To cancel the off timer:

1. Press the OFF TIMER button twice in a row.
2. The off timer is canceled.



Note:

After the power is turned off with the off timer ...
A slight current is still supplied to the monitor. When you are leaving the room or do not plan to use the system for a long period of time, turn off the power to the monitor.

WIDE Operations

Wide Screen Operation (manual)

With this function, you can select one of seven screen sizes.

When viewing videos or digital video discs

1. Press the WIDE button on the remote control.
2. *Within 3 seconds ...*

Press the WIDE button again.

The screen size switches as follows:

NORMAL → ANAMORPHIC → STADIUM → ZOOM → 2.35:1 → 14:9 → UNDERSCAN

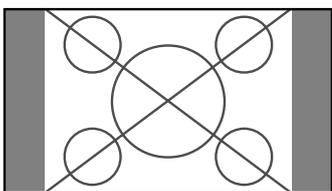
When a 720P or 1080I signal is input:

ANAMORPHIC ↔ 2.35:1

When displaying enhanced split screen:

NORMAL ↔ ANAMORPHIC

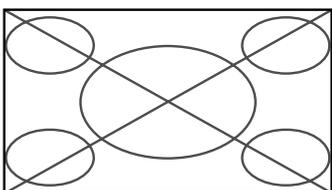
NORMAL size screen (4:3)



The normal size screen is displayed.

- * The picture has the same size as video pictures with a 4 : 3 aspect ratio.

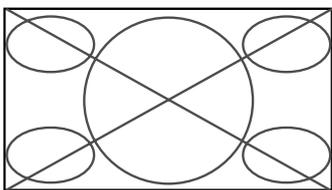
ANAMORPHIC size screen



The image is expanded in the horizontal direction.

- * Images compressed in the horizontal direction ("squeezed images") are expanded in the horizontal direction and displayed on the entire screen with correct linearity. (Normal images are expanded in the horizontal direction.)

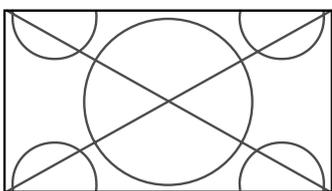
STADIUM size screen



The picture is expanded in the horizontal and vertical directions at different ratios.

- * Use this for watching normal video programs (4:3) with a wide screen.

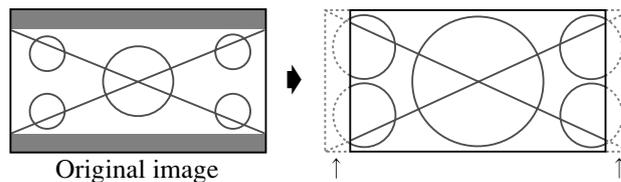
ZOOM size screen



The picture is expanded in the horizontal and vertical direction, maintaining the original proportions.

- * Use this for theater size (wide) movies, etc.

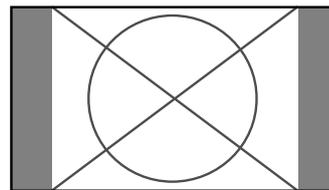
2.35:1 size screen



The squeezed film image is expanded to fulfill the entire screen at a ratio of 2.35:1. Black bands do not appear at the top and bottom but information is lost on the left and right margins.

- * This feature is available when the input signal is video, component (480I, 480P, 576I, 576P, 720P, 1080I) or RGB (525P or 625P signal from a scan converter).
- * If black bands appear on the top and bottom in the full size screen, select the 2.35:1 size screen to fill the screen and avoid image retention.

14:9 size screen

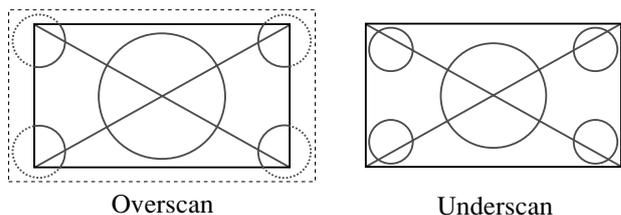


The image is displayed at a 14:9 aspect ratio.

- * This feature is available when the input signal is video, component (480I, 480P, 576I, 576P) or RGB (525P or 625P signal from a scan converter).

UNDERSCAN size screen

Set "UNDERSCAN" to "ON" in the "IMAGE ADJUST". Typical televisions crop the image (i.e., overscan). In order to restore the entire image, select UNDERSCAN.



- * Picture noise or black border may appear near the edge of screen depending on the connected component.
- * The continuous display in this screen size over a prolonged period of time may result in image retention.
- * When Macrovision signal is input, the brightness may change.

Note:

Do not allow 4:3 content to be displayed for extended periods of time without using gray bars. This can cause image retention.

Wide Screen Operation with Computer Signals

Switch to the wide screen mode to expand the 4 : 3 image to fill the entire screen.

1. Press the WIDE button on the remote control.
2. *Within 3 seconds ...*

Press the WIDE button again.

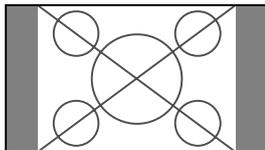
The screen size switches as follows:

→ NORMAL → ANAMORPHIC → ZOOM

When displaying enhanced split screen:

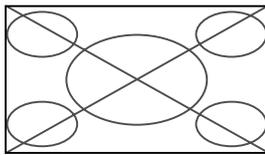
NORMAL ↔ ANAMORPHIC

NORMAL size screen (4:3 or SXGA 5:4)



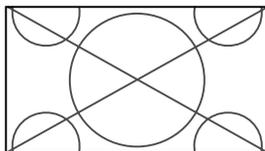
The picture has the same size as the normal computer image.

ANAMORPHIC size screen



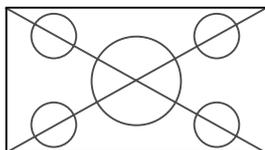
The image is expanded in the horizontal direction.

ZOOM size screen



When wide signals are input.

ANAMORPHIC size screen



Information

■ Supported resolution

See page En-3 of Model Information for details on the display output of the various VESA signal standards supported by the monitor.

■ **When 852 (848) dot × 480 line wide VGA* signals with a vertical frequency of 60 Hz and horizontal frequency of 31.7 (31.0) kHz are input**

Select an appropriate setting for RGB SELECT mode referring to the “Table of Signals Supported” on page En-3 of Model Information.

* “VGA”, “SVGA” and “SXGA” are registered trademarks of IBM, Inc. of the United States.

Note:

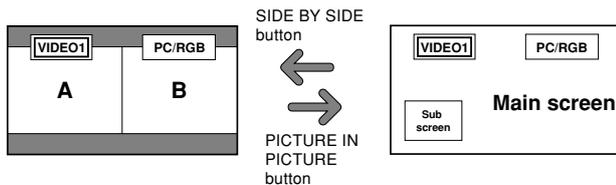
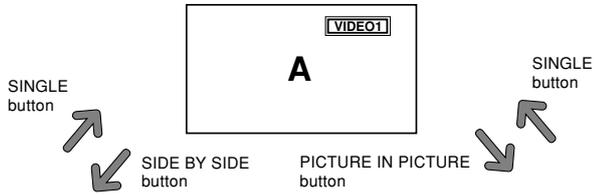
Do not allow 4:3 content to be displayed for extended periods of time without using gray bars. This can cause image retention.

SPLIT SCREEN Operations

Showing a couple of pictures on the screen at the same time

* There may be some RGB-input signals that may not be displayed as not all signals are supported.

1. Press the button to select a screen mode from among single mode, side-by-side, and picture-in-picture.



Note:
Picture A and B on the above screen are not always of the same height.

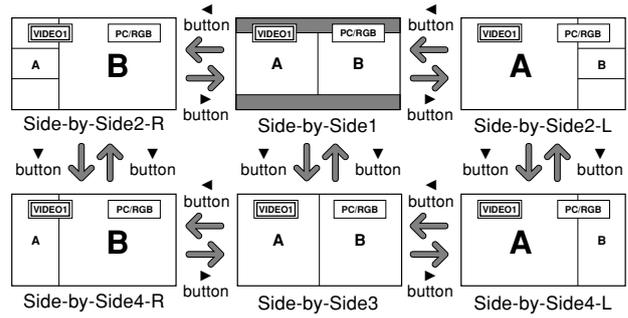
Information
Split screen operations may not function depending on the combination of input signals. In the table below, "○" means Yes, "×" means No.

		Pictures displayed on the right/main screen (Select1)								
		VIDEO1	VIDEO2	DVD/HD1	DVD/HD2	DVD/HD3	DVD/HD4	SCART1	SCART2	PC/RGB
Pictures displayed on the left/sub screen (Select2)	VIDEO1	×	×	○	○	○	○	×	×	○
	VIDEO2	×	×	○	○	○	○	×	×	○
	DVD/HD1	○	○	×	○	○	○	×	○	○
	DVD/HD2	○	○	○	×	○	○	○	○	○
	DVD/HD3	○	○	○	○	×	×	○	○	○
	DVD/HD4	○	○	○	○	×	×	○	○	○
	SCART1	×	×	×	○	○	○	×	×	○
	SCART2	×	×	○	○	○	○	×	×	×
	PC/RGB	○	○	○	○	○	○	○	×	×

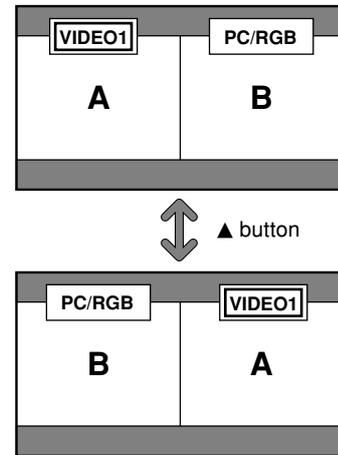
■ Split screen operations may not function depending on the frequency of the RGB signals.

Operations in the Side-by-side mode

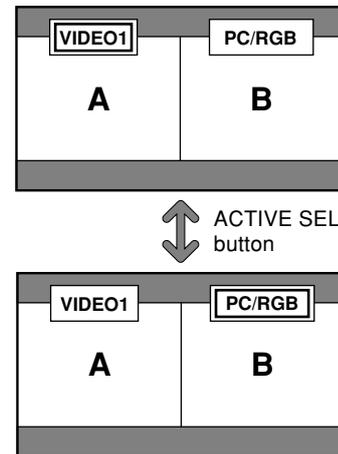
To change the picture size, press the cursor ◀▶ or ▼ button.



To swap the picture on the right and the left, press the cursor ▲ button.

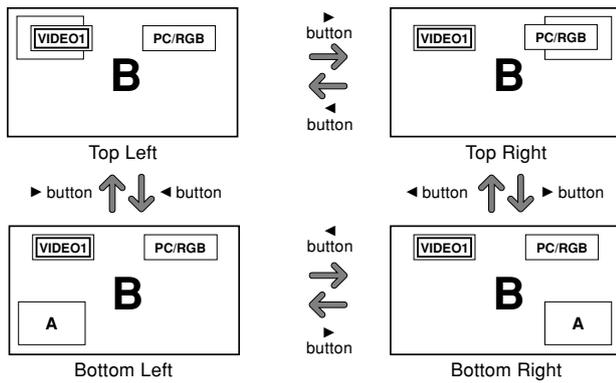


To make the desired picture active, press the ACTIVE SELECT button.

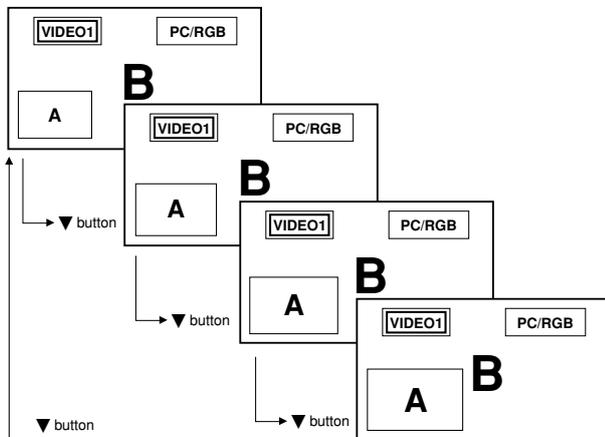


Operations in the Picture-in-picture mode

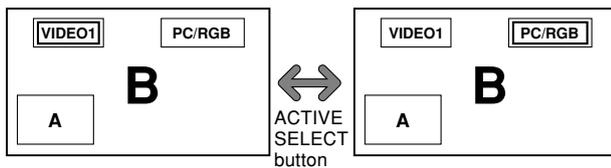
To move the position of the sub screen, press the cursor ◀ or ▶ button.



To change the size of the sub screen, press the ▼ button.



To make the desired picture active, press the ACTIVE SELECT button.



Selecting the input signals to be displayed

1. Press the ACTIVE SELECT button to make the desired picture active.
2. Press the PC/RGB, VIDEO1, 2 or DVD/HD1, 2, 3, 4 button to change the selection of the input signal. The INPUT/EXIT button on the monitor can also be used to change the selection.

Zooming in on a specific input

1. Press the ACTIVE SELECT button to make the desired picture active.
2. Use the ZOOM (+ or -) button to enlarge the picture. For details, see "DIGITAL ZOOM" on page En-11.

Adjusting the OSM controls

1. Press the ACTIVE SELECT button to make the desired picture active.
2. Press the MENU/ENTER button to display the MAIN MENU.
3. Adjust the setting to your preference. For details, see "OSM (On Screen Menu) Controls" on page En-16.

Note:

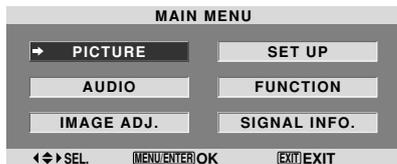
During enhanced split screen, some functions of OSM controls are not available.

OSM (On Screen Menu) Controls

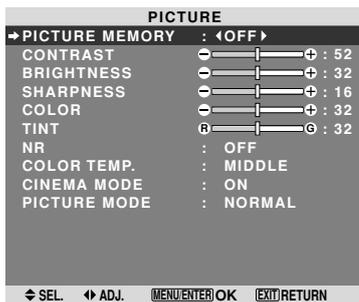
Menu Operations

The following describes how to use the menus and the selected items.

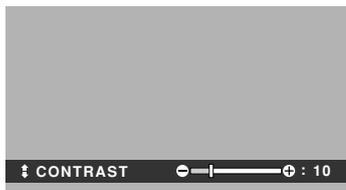
1. Press the MENU/ENTER button on the remote control to display the MAIN MENU.



2. Press the cursor buttons ▲ ▼ on the remote control to highlight the menu you wish to enter.
3. Press the MENU/ENTER button on the remote control to select a sub menu or item.



4. Adjust the level or change the setting of the selected item by using the cursor buttons ◀ ▶ on the remote control.



5. The adjustments or settings are then stored in memory. The change is stored until another change is made.
6. Repeat steps 2 – 5 to adjust an additional item, or press the EXIT button on the remote control to return to the main menu.

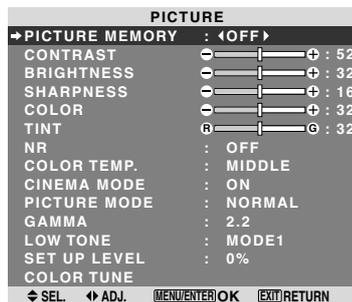
* When adjusting using the bar at the bottom of the screen, press the ◀ or ▶ button within 5 seconds. If not, the current setting is stored and the previous screen appears.

Note: The main menu disappears by pressing the EXIT button.

Information

Advanced menu mode

When “ADVANCED OSM” is set to “ON” in the FUNCTION menu, full menu items will be shown.



* The actual screen may be different from the ones in this manual.

Menu Tree

■ : Shaded areas indicate the default value.

←→+ : Press the ◀ or ▶ button to adjust.

▭ : Menu items in a ruled box are available when the ADVANCED OSM is set to ON.

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE	
PICTURE	PICTURE MEMORY	OFF/MEMORY1-6			YES	En-19	
	CONTRAST	←→+ 0←52→72			YES	En-19	
	BRIGHTNESS	←→+ 0←32→64			YES	En-19	
	SHARPNESS	←→+ 0←16→32			YES	En-19	
	COLOR	←→+ 0←32→64			YES	En-19	
	TINT	R←→G 0←32→64			YES	En-19	
	NR	OFF/NR-1/NR-2/NR-3			YES	En-19	
	COLOR TEMP.	LOW/MIDDLE LOW/MIDDLE/HIGH			YES	En-20	
	WHITE BALANCE	GAIN RED	←→+ 0←40→70			YES	En-20
		GAIN GREEN	←→+ 0←40→70			YES	En-20
		GAIN BLUE	←→+ 0←40→70			YES	En-20
		BIAS RED	←→+ 0←40→70			YES	En-20
		BIAS GREEN	←→+ 0←40→70			YES	En-20
		BIAS BLUE	←→+ 0←40→70			YES	En-20
		RESET	OFF←→ON			YES	En-20
		CINEMA MODE	ON←→OFF			YES	En-20
		PICTURE MODE	DEFAULT/THEATER1/THEATER2/NORMAL/BRIGHT			YES	En-20
		<u>GAMMA</u>	2.1←→2.2←→2.3←→2.4			YES	En-21
	<u>LOW TONE</u> *3	MODE1←→MODE2			YES	En-21	
	<u>SET UP LEVEL</u>	0%←→3.75%←→7.5%			YES	En-21	
	<u>COLOR TUNE</u>	RED	Y←→M 0←32→64			YES	En-21
		GREEN	C←→Y 0←32→64			YES	En-21
		BLUE	M←→C 0←32→64			YES	En-21
		YELLOW	G←→R 0←32→64			YES	En-21
		MAGENTA	R←→B 0←32→64			YES	En-21
		CYAN	B←→G 0←32→64			YES	En-21
		RESET	OFF←→ON			YES	En-21

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
AUDIO	BASS	←→+ 0←13→26			YES	En-22
	TREBLE	←→+ 0←13→26			YES	En-22
	BALANCE	L←→R -22←0→22			YES	En-22
	AUDIO INPUT1	VIDEO 1-2 / DVD/HD 1-4 / PC/RGB			YES	En-22
	AUDIO INPUT2	VIDEO 1-2 / DVD/HD 1-4 / PC/RGB			YES	En-22
	AUDIO INPUT3	VIDEO 1-2 / DVD/HD 1-4 / PC/RGB			YES	En-22
	DVD/HD3 INPUT	INPUT 1-3 / HDMI			YES	En-22
	DVD/HD4 INPUT	INPUT 1-3 / HDMI			YES	En-22

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
IMAGE ADJ.	ASPECT MODE	ZOOM/NORMAL/ANAMORPHIC/STADIUM/14:9/2.35:1/UNDERSCAN			—	En-22
	V-POSITION	←→+ -64←0→64			YES	En-22
	H-POSITION	←→+ -128←0→127			YES	En-22
	V-HEIGHT	←→+ 0←64			YES	En-22
	H-WIDTH	←→+ 0←64			YES	En-22
	AUTO PICTURE	ON←→OFF*2			NO	En-22
	FINE PICTURE*1	←→+ *2 0←64			YES	En-22
	PICTURE ADJ.*1	←→+ *2 0←64			YES	En-22
<u>UNDERSCAN</u>	ON←→OFF			YES	En-22	

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
SET UP	LANGUAGE	ENGLISH/DEUTSCH/FRANÇAIS/ESPAÑOL/ITALIANO/SVENSKA/РУССКИЙ/ΕΛΛΗΝΙΚΑ/PORTUGUÊS/TÜRKÇE			NO	En-23
	<u>DVD/HD1 INPUT</u>	COMPONENT←→SCART1			YES	En-23
	<u>D-SUB INPUT</u>	RGB←→SCART2			YES	En-23
	<u>HD SELECT</u>	1080I/1035I/540P			NO	En-23
	<u>RGB SELECT</u>	AUTO			YES	En-24
	<u>HDMI SET UP</u>	LOW←→HIGH			NO	En-24
	<u>COLOR SYSTEM</u>	AUTO/3.58NTSC/4.43 NTSC/PAL/PAL 60/PAL-N/PAL-M/SECAM			NO	En-24
	<u>BACK GROUND</u>	BLACK/GRAY			YES	En-24
	<u>GRAY LEVEL</u>	0←→3←→15			YES	En-25
	<u>S1/S2</u>	AUTO←→OFF			YES	En-25
	<u>DISPLAY OSM</u>	ON←→OFF			YES	En-25
	<u>OSM ADJ.</u>	TOP LEFT←→TOP CENTER←→TOP RIGHT←→BTM LEFT←→BTM CENTER←→BTM RIGHT			YES	En-25
	<u>REMOTE ID</u>	ALL←→1←→4			YES	En-26
	ALL RESET	ON←→OFF			—	En-26

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE	
FUNCTION	ADVANCED OSM	ON↔OFF			YES	En-26	
	POWER MGT	ON↔OFF			YES	En-26	
	INPUT SKIP	ON↔OFF			YES	En-27	
	SUB. PICTURE	SUB. P DETECT	OFF↔AUTO			YES	En-27
			DISPLAY	FADE↔NORMAL		YES	En-27
	ZOOM NAV	SUB. P RATE	20%↔100%			YES	En-27
			OFF↔S BY S↔BTM LEFT↔BTM RIGHT↔TOP RIGHT↔TOP LEFT			YES	En-27
	PICTURE FREEZE	OFF↔S BY S1↔S BY S2↔BTM LEFT↔BTM RIGHT↔TOP RIGHT↔TOP LEFT			YES	En-28	
	PDP SAVER	MANUAL/AUTO	PEAK BRIGHT	100%/75%/50%/25%		YES	En-28
			ORBITER	OFF/AUTO1/AUTO2		YES	En-29
			INVERSE/WHITE	OFF/INVERSE/WHITE		YES	En-29
			SCREEN WIPER	ON/OFF		YES	En-29
			SOFT FOCUS	OFF/LEVEL1-4		YES	En-29
			OSM ORBITER	ON/OFF		YES	En-29
			OSM CONTRAST	LOW/NORMAL		YES	En-30
			PWR. ON MODE	INPUT	LAST / VIDEO 1-2 / DVD/HD 1-4 / PC/RGB / MULTI		YES	En-30
	PROTOCOL SET	VOLUME	LAST↔0↔42			YES	En-30
			ON↔OFF			YES	En-30
	Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
	SIGNAL INFO.					—	En-30

*1 Only when AUTO PICTURE is OFF.

*2 PC/RGB only

*3 "LOW TONE" is only for 50 inch type.

Information

■ Restoring the factory default settings

Select "ALL RESET" under the SET UP menu. Note that this also restores other settings to the factory defaults.

Picture Settings Menu

Storing picture settings

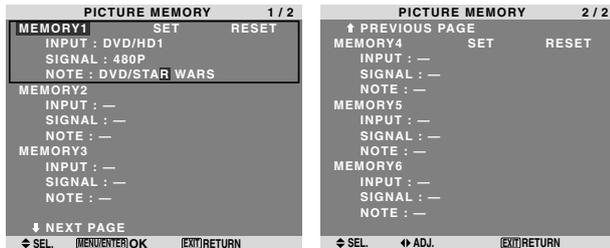
This function allows you to store in memory the current input signal and PICTURE menu settings and to recall these settings when necessary.

There are six picture memories, and notes of up to 15 characters can be added to each.

Example: Storing picture settings at MEMORY1

On "PICTURE MEMORY" of "PICTURE" menu, select "MEMORY1", then press the MENU/ENTER button.

The "PICTURE MEMORY" screen appears.



Information

■ PICTURE MEMORY Settings

OFF: Picture memory not used.

MEMORY1 to 6: Picture memory with the specified number used. Maximum memories are 6, not depending on inputs.

■ Setting the memory

- Use the ▲ and ▼ button to select the desired memory place, MEMORY1 to MEMORY6.
- Use the ◀ and ▶ buttons to select "SET", then press the MENU/ENTER button.
- If necessary, input a note.

■ Resetting the memory

Use the ▲ and ▼ button to select the desired memory place, MEMORY1 to MEMORY6, then use the ◀ and ▶ buttons to select "RESET", and finally press the MENU/ENTER button.

The memory is cleared, and "—" is displayed in the "INPUT", "SIGNAL" and "NOTE" columns.

■ Inputting notes

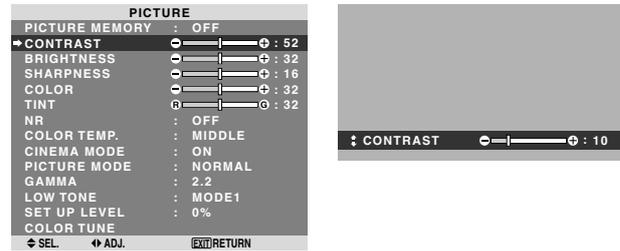
- Use the ◀ and ▶ buttons to select "NOTE", then press the MENU/ENTER button.
- Input the note.
 - Use the ▲ and ▼ button to select the character.
 - Use the ◀ and ▶ buttons to move the cursor.
 - Use the EXIT button to delete the character at the cursor position.
- When you have finished inputting the note, press the MENU/ENTER button.

Adjusting the picture

The contrast, brightness, sharpness, color and tint can be adjusted as desired.

Example: Adjusting the contrast

On "CONTRAST" of "PICTURE" menu, adjust the contrast.



Note: If "CAN NOT ADJUST" appears ...

When trying to enter the PICTURE submenu, make sure PICTURE MODE is not set to DEFAULT.

Information

■ Picture adjustment screen

CONTRAST: Changes the picture's white level.

BRIGHTNESS: Changes the picture's black level.

SHARPNESS: Changes the picture's sharpness. Adjusts picture detail of VIDEO display.

COLOR: Changes the color density.

TINT: Changes the picture's tint. Adjust for natural colored skin, background, etc.

■ Adjusting the computer image

Only the contrast and brightness can be adjusted when a computer signal is connected.

■ Restoring the factory default settings

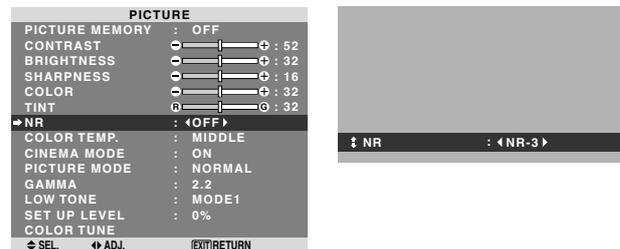
Select "DEFAULT" under the "PICTURE MODE" settings.

Reducing noise in the picture

Use these settings if the picture has noise due to poor reception or when playing video tapes on which the picture quality is poor.

Example: Setting "NR-3"

On "NR" of "PICTURE" menu, select "NR-3".



Information

■ NR

* "NR" stands for Noise Reduction.

* This function reduces noise in the picture.

■ Types of noise reduction

There are three types of noise reduction. Each has a different level of noise reduction.

The effect becomes stronger as the number increases (in the order NR-1 → NR-2 → NR-3).

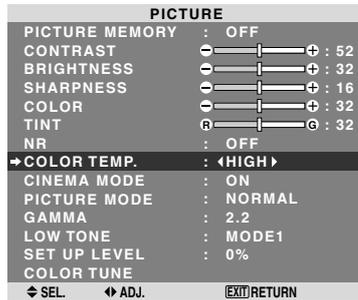
OFF: Turns the noise reduction function off.

Setting the color temperature

Use this procedure to set color tone produced by the plasma display.

Example: Setting "HIGH"

On "COLOR TEMP." of "PICTURE" menu, select "HIGH".



Information

■ Setting the color temperature

LOW: More red
MIDDLE LOW: Slightly red
MIDDLE: Standard (slightly bluer)
HIGH: More blue

Adjusting the color to the desired level

Use this procedure to adjust the white balance for each color temperature to achieve the desired color quality.

Example: Adjusting the "GAIN RED" of "HIGH" color temperature

On "COLOR TEMP." of "PICTURE" menu, select "HIGH", then press the MENU/ENTER button.

The "WHITE BALANCE" screen appears.

On "GAIN RED", adjust the white balance.



Information

■ Adjusting the white balance

GAIN R/G/B: White balance adjustment for white level
BIAS R/G/B: White balance adjustment for black level
RESET: Resets settings to the factory default values.
Use ◀ and ▶ buttons to select "ON", then press the MENU/ENTER button.

■ Restoring the factory default settings

Select "RESET" under the WHITE BALANCE menu.

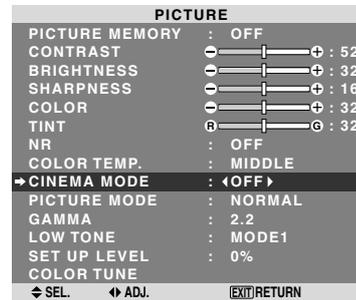
Setting the picture to suit the movie

The film image is automatically discriminated and projected in an image mode suited to the picture.

[NTSC, PAL, PAL60, 480I (60 Hz), 525I (60 Hz), 576I (50 Hz), 625I (50 Hz), 1035I (60 Hz), 1080I (60 Hz) only]

Example: Setting the "CINEMA MODE" to "OFF"

On "CINEMA MODE" of "PICTURE" menu, select "OFF".



Information

■ CINEMA MODE

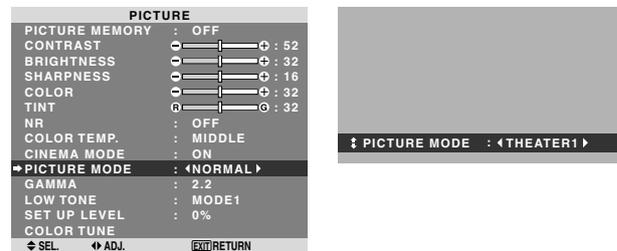
ON: Automatic discrimination of the image and projection in cinema mode.
OFF: Cinema mode does not function.

Setting the picture mode according to the brightness of the room

There are four picture modes that can be used effectively according to the environment in which you are viewing the display.

Example: Setting the "THEATER1" mode

On "PICTURE MODE" of "PICTURE" menu, select "THEATER1".



Information

■ Types of picture modes

THEATER1, 2: Set this mode when watching video in a dark room.

This mode provides darker, finer pictures, like the screen in movie theaters.

For a darker image, select THEATER2.

NORMAL: Set this mode when watching video in a bright room.

BRIGHT: This mode provides brighter pictures than NORMAL.

This mode provides dynamic pictures with distinct differences between light and dark sections.

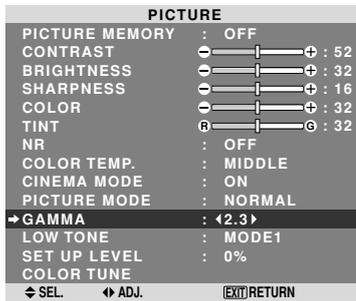
DEFAULT: Use this to reset the picture to the factory default settings.

Changing the Gamma Curve

This feature adjusts the brightness of the midtone areas while keeping shadows and highlights unchanged.

Example: Setting "2.3"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.
On "GAMMA" of "PICTURE" menu, select "2.3".



Information

■ GAMMA settings

The picture becomes darker as the number increases (in the sequence of 2.1, 2.2, 2.3, 2.4).

* These values are approximate.

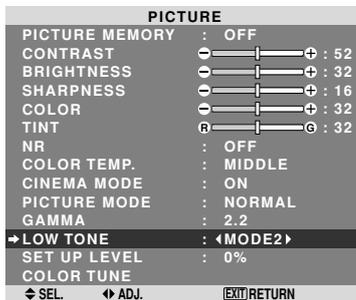
Making the Low Tone adjustments

You can select the tone reproduction from 2 modes.
This function is effective especially for dark images.

* This function is available only for 50 inch type.

Example: Setting "MODE2"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.
On "LOW TONE" of "PICTURE" menu, select "MODE2".

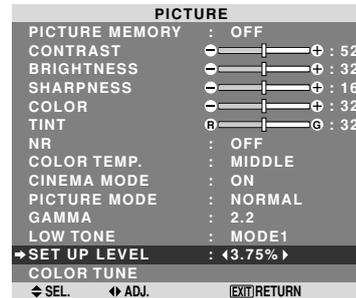


Adjusting the pedestal level (black level)

This feature adjusts the video black level in a video image.

Example: Setting "3.75%"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.
On "SET UP LEVEL" of "PICTURE" menu, select "3.75%".



Information

■ SET UP LEVEL settings

0%: Normal status

3.75%: 3.75 % lower than normal

7.5%: 7.5 % lower than normal

Adjusting the colors

Use this procedure to adjust hue and color density for red, green, blue, yellow, magenta and cyan without changing the white point.

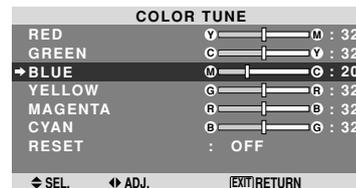
You can accentuate the green color of trees, the blue of the sky, etc.

Example: Adjusting the color tune for blue

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.
On "PICTURE" menu, select "COLOR TUNE", then press the MENU/ENTER button.

The "COLOR TUNE" screen appears.

On "BLUE" of "COLOR TUNE", adjust the color tune.



Information

■ COLOR TUNE settings

RED: Adjusts hue of Red

GREEN: Adjusts hue of Green

BLUE: Adjusts hue of Blue

YELLOW: Adjusts hue of Yellow

MAGENTA: Adjusts hue of Magenta

CYAN: Adjusts hue of Cyan

RESET: Resets settings to the factory default value.

Use ◀ and ▶ buttons to select "ON", then press the MENU/ENTER button.

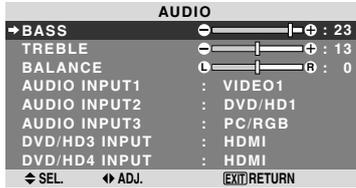
Audio Settings Menu

Adjusting the treble, bass and left/right balance and audio input select

The treble, bass and left/right balance can be adjusted to suit your tastes.

Example: Adjusting the bass

On "BASS" of "AUDIO" menu, adjust the bass.



Note : If "CAN NOT ADJUST" appears...
Set "AUDIO INPUT" on the AUDIO menu correctly.

Information

■ Audio settings menu

BASS: Controls the level of low frequency sound.
TREBLE: Controls the level of high frequency sound.
BALANCE: Controls the balance of the left and right channels.

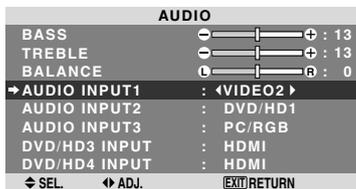
Setting the allocation of the audio and DVD/HD connectors

Setting the AUDIO1-3 and DVD/HD3-4 connectors to the desired input.

Example: Setting "AUDIO INPUT1" to "VIDEO2"

On "AUDIO INPUT1" of "AUDIO" menu, select "VIDEO2".

The available sources depend on the settings of input.



Information

An input cannot be selected as the channel for more than one input terminal.

Image Adjust Settings Menu

Adjusting the Position, Size, Fine Picture, Picture Adj and Underscan

The position of the image can be adjusted and flickering of the image can be corrected.

Example: Adjusting the vertical position in the normal mode

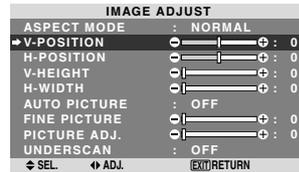
On "V-POSITION" of "IMAGE ADJUST" menu, adjust the position.

The mode switches as follows each time the ◀ or ▶ button is pressed:

NORMAL ↔ **ANAMORPHIC**

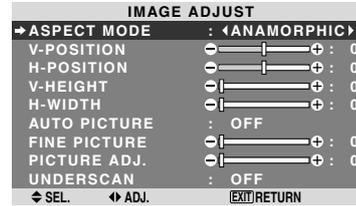
* The mode can also be switched by pressing the WIDE button on the remote control.

* The settings on the IMAGE ADJUST menu are not preset at the factory.



Information

■ When "AUTO PICTURE" is "OFF"



When Auto Picture is off, the Fine Picture and the Picture ADJ. items are displayed so that you can adjust them.

■ Adjusting the Auto Picture

ON: The Picture ADJ., Fine Picture and Position adjustments are made automatically.

Not available for digital ZOOM.

OFF: The Picture ADJ., Fine Picture and Position adjustments are made manually.

* If FINE PICTURE can't be adjusted, set Auto Picture to OFF and adjust manually.

■ Adjusting the position of the image

V-POSITION: Adjusts the vertical position of the image.

H-POSITION: Adjusts the horizontal position of the image.

V-HEIGHT: Adjusts the vertical size of the image. (Not available for STADIUM mode)

H-WIDTH: Adjusts the horizontal size of the image. (Not available for STADIUM mode)

FINE PICTURE*: Adjusts for flickering.

PICTURE ADJ.*: Adjusts for striped patterns on the image (i.e. vertical banding).

* The Picture ADJ. and Fine Picture features are available only when the "Auto Picture" is off.

* The AUTO PICTURE, FINE PICTURE and PICTURE ADJ. are available only for PC/RGB signals.

But, these features are not available for moving pictures on VIDEO, DVD/HD or PC/RGB.

■ Setting the Underscan

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

ON: UNDERSCAN can be selected in ASPECT MODE.

OFF: UNDERSCAN cannot be selected in ASPECT MODE.

* Selectable only when video signal is input.

SET UP Settings Menu

Setting the language for the menus

The menu display can be set to one of 10 languages.

Example: Setting the menu display to “DEUTSCH”

On “LANGUAGE” of “SET UP” menu, select “DEUTSCH”.

SET UP	
→ LANGUAGE	: <DEUTSCH>
DVD/HD1 INPUT	: COMPONENT
D-SUB INPUT	: RGB
HD SELECT	: 1080I
RGB SELECT	: AUTO
HDMI SET UP	: HIGH
COLOR SYSTEM	: AUTO
BACK GROUND	: GRAY
GRAY LEVEL	: 3
S1/S2	: OFF
DISPLAY OSM	: ON
OSM ADJ.	: TOP LEFT
REMOTE ID	: ALL
ALL RESET	: OFF
◀ SEL.	▶ ADJ. [EXIT] RETURN

Information

■ Language settings

ENGLISH	.....	English
DEUTSCH	.....	German
FRANÇAIS	.....	French
ESPAÑOL	.....	Spanish
ITALIANO	.....	Italian
SVENSKA	.....	Swedish
РУССКИЙ	.....	Russian
TÜRKÇE	.....	Turkish
ΕΛΛΗΝΙΚΑ	.....	Greek
PORTUGUÊS	.....	Portuguese

Setting the DVD/HD1 connectors

Select whether to set the input of the DVD/HD1 connectors to component or SCART1.

Example: Set the DVD/HD1 INPUT mode to “SCART1”

Set “ADVANCED OSM” to “ON” in the FUNCTION menu.

On “DVD/HD1 INPUT” of “SET UP” menu, select “SCART1”.

SET UP	
LANGUAGE	: ENGLISH
→ DVD/HD1 INPUT	: <SCART1>
D-SUB INPUT	: RGB
HD SELECT	: 1080I
RGB SELECT	: AUTO
HDMI SET UP	: HIGH
COLOR SYSTEM	: AUTO
BACK GROUND	: GRAY
GRAY LEVEL	: 3
S1/S2	: OFF
DISPLAY OSM	: ON
OSM ADJ.	: TOP LEFT
REMOTE ID	: ALL
ALL RESET	: OFF
◀ SEL.	▶ ADJ. [EXIT] RETURN

Information

■ DVD/HD1 INPUT Settings

COMPONENT: Use the DVD/HD1 terminals for component input.

SCART1: Use the DVD/HD1 terminals for RGB and the VIDEO1 terminal for composite sync. See page En-7.

Setting the PC/RGB connector

Select one of the signals being transmitted to the PC/RGB terminal.

Example: Set the D-SUB INPUT mode to “SCART2”

Set “ADVANCED OSM” to “ON” in the FUNCTION menu.

On “D-SUB INPUT” of “SET UP” menu, select “SCART2”.

SET UP	
LANGUAGE	: ENGLISH
DVD/HD1 INPUT	: COMPONENT
→ D-SUB INPUT	: <SCART2>
HD SELECT	: 1080I
RGB SELECT	: AUTO
HDMI SET UP	: HIGH
COLOR SYSTEM	: AUTO
BACK GROUND	: GRAY
GRAY LEVEL	: 3
S1/S2	: OFF
DISPLAY OSM	: ON
OSM ADJ.	: TOP LEFT
REMOTE ID	: ALL
ALL RESET	: OFF
◀ SEL.	▶ ADJ. [EXIT] RETURN

Information

■ D-SUB INPUT Settings

RGB: Use the D-SUB terminal for RGB input.

SCART2: Use the D-SUB terminal for RGB signal fed from SCART. See page En-7.

Setting high definition images to the suitable screen size

Use this procedure to set whether the number of vertical lines of the input high definition image is 1080I or 1035I or 540P.

Example: Setting the “HD SELECT” mode to “1035I”

Set “ADVANCED OSM” to “ON” in the FUNCTION menu.

On “HD SELECT” of “SET UP” menu, select “1035I”.

SET UP	
LANGUAGE	: ENGLISH
DVD/HD1 INPUT	: COMPONENT
D-SUB INPUT	: RGB
→ HD SELECT	: <1035I>
RGB SELECT	: AUTO
HDMI SET UP	: HIGH
COLOR SYSTEM	: AUTO
BACK GROUND	: GRAY
GRAY LEVEL	: 3
S1/S2	: OFF
DISPLAY OSM	: ON
OSM ADJ.	: TOP LEFT
REMOTE ID	: ALL
ALL RESET	: OFF
◀ SEL.	▶ ADJ. [EXIT] RETURN

Information

■ HD SELECT modes

These 3 modes are not displayed in correct image automatically.

1080I: Standard digital broadcasts

1035I: Japanese “High Vision” signal format

540P: Special Digital broadcasts (for example : DTC100)

Setting a computer image to the correct RGB select screen

With the computer image, select the RGB Select mode for a moving image such as (video) mode, wide mode or digital broadcast.

Example: Setting the “RGB SELECT” mode to “852 × 480”

Set “ADVANCED OSM” to “ON” in the FUNCTION menu.

On “RGB SELECT” of “SET UP” menu, select “852 × 480”.

SET UP	
LANGUAGE	: ENGLISH
DVD/HD1 INPUT	: COMPONENT
D-SUB INPUT	: RGB
HD SELECT	: 1080I
→RGB SELECT	: 852 × 480
HDMI SET UP	: HIGH
COLOR SYSTEM	: AUTO
BACK GROUND	: GRAY
GRAY LEVEL	: 3
S1/S2	: OFF
DISPLAY OSM	: ON
OSM ADJ.	: TOP LEFT
REMOTE ID	: ALL
ALL RESET	: OFF
◀SEL	▶ADJ. EXIT/RETURN

Information

■ RGB SELECT modes

AUTO: Select the suitable mode for the specifications of input signals as listed in the table “Computer input signals supported by this system” on page En-3 of Model Information.

The others: The available resolutions are shown.

See page En-3 of Model Information for the details of the above settings.

Setting the black level for HDMI signal

Set the black level.

Example: Setting the “HDMI SET UP” mode to “LOW”

Set “ADVANCED OSM” to “ON” in the FUNCTION menu.

On “HDMI SET UP” of “SET UP” menu, select “LOW”.

SET UP	
LANGUAGE	: ENGLISH
DVD/HD1 INPUT	: COMPONENT
D-SUB INPUT	: RGB
HD SELECT	: 1080I
RGB SELECT	: AUTO
→HDMI SET UP	: LOW
COLOR SYSTEM	: AUTO
BACK GROUND	: GRAY
GRAY LEVEL	: 3
S1/S2	: OFF
DISPLAY OSM	: ON
OSM ADJ.	: TOP LEFT
REMOTE ID	: ALL
ALL RESET	: OFF
◀SEL	▶ADJ. EXIT/RETURN

Information

■ HDMI SET UP settings

LOW: When connected to the PC signal.

HIGH: When connected to the SET TOP BOX, DVD etc. Change “HIGH” into “LOW” if the black level appears gray.

Setting the video signal format

Use these operations to set the color systems of composite video signals or Y/C input signals.

Example: Setting the color system to “3.58 NTSC”

Set “ADVANCED OSM” to “ON” in the FUNCTION menu.

On “COLOR SYSTEM” of “SET UP” menu, select “3.58NTSC”.

SET UP	
LANGUAGE	: ENGLISH
DVD/HD1 INPUT	: COMPONENT
D-SUB INPUT	: RGB
HD SELECT	: 1080I
RGB SELECT	: AUTO
HDMI SET UP	: HIGH
→COLOR SYSTEM	: 3.58NTSC
BACK GROUND	: GRAY
GRAY LEVEL	: 3
S1/S2	: OFF
DISPLAY OSM	: ON
OSM ADJ.	: TOP LEFT
REMOTE ID	: ALL
ALL RESET	: OFF
◀SEL	▶ADJ. EXIT/RETURN

Information

■ Video signal formats

Different countries use different formats for video signals. Set to the color system used in your current country.

AUTO: The color systems are automatically identified and the format is set accordingly.

PAL: This is the standard format used mainly in the United Kingdom and Germany.

SECAM: This is the standard format used mainly in France and Russia.

4.43 NTSC, PAL60: This format is used for videos in countries using PAL and SECAM video signals.

3.58 NTSC: This is the standard format used mainly in the United States and Japan.

PAL-M: This is the standard format used mainly in Brazil.

PAL-N: This is the standard format used mainly in Argentina.

Setting the background color when no signal is being input

The color displayed on the background when there is no signal can be set to gray.

Example: Setting “BACK GROUND” to “BLACK”

Set “ADVANCED OSM” to “ON” in the FUNCTION menu.

On “BACK GROUND” of “SET UP” menu, select “BLACK”.

SET UP	
LANGUAGE	: ENGLISH
DVD/HD1 INPUT	: COMPONENT
D-SUB INPUT	: RGB
HD SELECT	: 1080I
RGB SELECT	: AUTO
HDMI SET UP	: HIGH
COLOR SYSTEM	: AUTO
→BACK GROUND	: BLACK
GRAY LEVEL	: 3
S1/S2	: OFF
DISPLAY OSM	: ON
OSM ADJ.	: TOP LEFT
REMOTE ID	: ALL
ALL RESET	: OFF
◀SEL	▶ADJ. EXIT/RETURN

Information

■ BACK GROUND Settings

BLACK: Sets the background color to black.

GRAY: Sets the background color to gray.

Setting this makes it easier to see that there is no signal.

Setting the gray level for the sides of the screen

Use this procedure to set the gray level for the parts on the screen on which nothing is displayed when the screen is set to the 4:3 size.

Example: Setting "GRAY LEVEL" to "5"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

On "GRAY LEVEL" of "SET UP" menu, select "5".

SET UP	
LANGUAGE	: ENGLISH
DVD/HD1 INPUT	: COMPONENT
D-SUB INPUT	: RGB
HD SELECT	: 1080I
RGB SELECT	: AUTO
HDMI SET UP	: HIGH
COLOR SYSTEM	: AUTO
BACK GROUND	: GRAY
→ GRAY LEVEL	: <5>
S1/S2	: OFF
DISPLAY OSM	: ON
OSM ADJ.	: TOP LEFT
REMOTE ID	: ALL
ALL RESET	: OFF
◀ SEL	▶ ADJ. [EXIT] RETURN

Information

■ GRAY LEVEL settings

This adjusts the brightness of the black (the gray level) for the sides of the screen.

The standard is 0 (black). The level can be adjusted from 0 to 15. The factory setting is 3 (dark gray).

Setting the screen size for S1/S2 video input

If the S-video signal contains screen size information, the image will be automatically adjusted to fit the screen when this S1/S2 is set to AUTO.

This feature is available only when an S-video signal is input via the VIDEO2 terminal.

Example: Setting "S1/S2" to "AUTO"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

On "S1/S2" of "SET UP" menu, select "AUTO".

SET UP	
LANGUAGE	: ENGLISH
DVD/HD1 INPUT	: COMPONENT
D-SUB INPUT	: RGB
HD SELECT	: 1080I
RGB SELECT	: AUTO
HDMI SET UP	: HIGH
COLOR SYSTEM	: AUTO
BACK GROUND	: GRAY
GRAY LEVEL	: 3
→ S1/S2	: <AUTO>
DISPLAY OSM	: ON
OSM ADJ.	: TOP LEFT
REMOTE ID	: ALL
ALL RESET	: OFF
◀ SEL	▶ ADJ. [EXIT] RETURN

Information

■ S1/S2 settings

AUTO: Adjusts the screen size automatically according to the S1/S2 video signal.

OFF: Turns the S1/S2 function off.

Turning on/off the menu display

When this is set to OFF, the menu will not displayed even if you press the MENU/ENTER button.

Example: Turning the DISPLAY OSM off

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

On "DISPLAY OSM" of "SET UP" menu, select "OFF".

SET UP	
LANGUAGE	: ENGLISH
DVD/HD1 INPUT	: COMPONENT
D-SUB INPUT	: RGB
HD SELECT	: 1080I
RGB SELECT	: AUTO
HDMI SET UP	: HIGH
COLOR SYSTEM	: AUTO
BACK GROUND	: GRAY
GRAY LEVEL	: 3
S1/S2	: OFF
→ DISPLAY OSM	: <OFF>
OSM ADJ.	: TOP LEFT
REMOTE ID	: ALL
ALL RESET	: OFF
◀ SEL	▶ ADJ. [EXIT] RETURN

Information

■ DISPLAY OSM settings

ON: The informations on screen size, volume control, etc. will be shown.

OFF: The informations on screen size, volume control, etc. will not be shown.

The DISPLAY button on the remote control will not function either.

Setting the position of the menu

Adjusts the position of the menu when it appears on the screen.

Example: Set the position to "TOP CENTER"

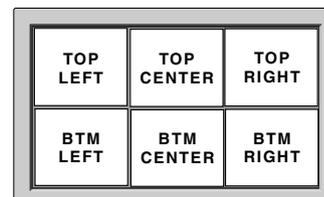
Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

On "OSM ADJ." of "SET UP" menu, select "TOP CENTER".

SET UP	
LANGUAGE	: ENGLISH
DVD/HD1 INPUT	: COMPONENT
D-SUB INPUT	: RGB
HD SELECT	: 1080I
RGB SELECT	: AUTO
HDMI SET UP	: HIGH
COLOR SYSTEM	: AUTO
BACK GROUND	: GRAY
GRAY LEVEL	: 3
S1/S2	: OFF
DISPLAY OSM	: ON
→ OSM ADJ.	: <TOP CENTER>
REMOTE ID	: ALL
ALL RESET	: OFF
◀ SEL	▶ ADJ. [EXIT] RETURN

Information

■ OSM ADJ. settings



Remote ID setting

Set the remote code to adapt the plasma monitor to the remote control.

Example: Setting to "1"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

On "REMOTE ID" of "SET UP" menu, select "1".

SET UP	
LANGUAGE	: ENGLISH
DVD/HD1 INPUT	: COMPONENT
D-SUB INPUT	: RGB
HD SELECT	: 1080I
RGB SELECT	: AUTO
HDMI SET UP	: HIGH
COLOR SYSTEM	: AUTO
BACK GROUND	: GRAY
GRAY LEVEL	: 3
S1/S2	: OFF
DISPLAY OSM	: ON
OSM ADJ.	: TOP LEFT
▶ REMOTE ID	: ◀ 1 ▶
ALL RESET	: OFF
◀ SEL.	▶ ADJ. [EXIT] RETURN

- Press and hold the POWER ON button, and release the button when the indication saying that the code is set is displayed. Or, press and hold the POWER STANDBY button, and release the button when the power is turned off.

Information

■ REMOTE ID setting

ALL: The remote code is not set.

1 to 4: The specified remote code is applied.

Resetting to the default values

Use these operations to restore all the settings (PICTURE, AUDIO, IMAGE ADJUST, SET UP, etc.) to the factory default values.

Refer to page En-17 for items to be reset.

On "ALL RESET" of "SET UP" menu, select "ON", then press the MENU/ENTER button.

SET UP		ALL RESET	
LANGUAGE	: ENGLISH	SETTING NOW	
DVD/HD1 INPUT	: COMPONENT		
D-SUB INPUT	: RGB		
HD SELECT	: 1080I		
RGB SELECT	: AUTO		
HDMI SET UP	: HIGH		
COLOR SYSTEM	: AUTO		
BACK GROUND	: GRAY		
GRAY LEVEL	: 3		
S1/S2	: OFF		
DISPLAY OSM	: ON		
OSM ADJ.	: TOP LEFT		
REMOTE ID	: ALL		
▶ ALL RESET	: ◀ ON ▶		
◀ SEL.	▶ ADJ. [EXIT] RETURN		

When the "SETTING NOW" screen disappears, then all the settings are restored to the default values.

Function Settings Menu

Setting the menu mode

This allows you to access the complete menu.

Example: Setting "ON"

On "ADVANCED OSM" of "FUNCTION" menu, select "ON".

FUNCTION	
▶ ADVANCED OSM	: ◀ ON ▶
POWER MGT.	: OFF
INPUT SKIP	: OFF
SUB. PICTURE	
ZOOM NAV	: BTM LEFT
PICTURE FREEZE	: S BY S1
PDP SAVER	: MANUAL
PWR. ON MODE	
PROTOCOL SET	: OFF
◀ SEL.	▶ ADJ. [EXIT] RETURN

Information

■ ADVANCED OSM settings

ON: All of the menu items are available for advanced users.

OFF: Some of the menu items are not available (e.g. FUNCTION).

Setting the power management for computer images

This energy-saving (power management) function automatically reduces the monitor's power consumption if no operation is performed for a certain amount of time.

Example: Turning the power management function on

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

On "POWER MGT." of "FUNCTION" menu, select "ON".

FUNCTION	
ADVANCED OSM	: OFF
▶ POWER MGT.	: ◀ ON ▶
INPUT SKIP	: OFF
SUB. PICTURE	
ZOOM NAV	: BTM LEFT
PICTURE FREEZE	: S BY S1
PDP SAVER	: MANUAL
PWR. ON MODE	
PROTOCOL SET	: OFF
◀ SEL.	▶ ADJ. [EXIT] RETURN

Information

■ Power management function

* The power management function automatically reduces the monitor's power consumption if the computer's keyboard or mouse is not operated for a certain amount of time. This function can be used when using the monitor with a computer.

* If the computer's power is not turned on or if the computer and selector tuner are not properly connected, the system is set to the off state.

* For instructions on using the computer's power management function, refer to the computer's operating instructions.

■ Power management settings

ON: In this mode the power management function is turned on.

OFF: In this mode the power management function is turned off.

■ Power management function and ON/STANDBY indicator

The ON/STANDBY indicator indicates the status of the power management function. See En-27 for indicator status and description.

ON/STANDBY indicator

Power management mode	ON/STANDBY indicator	Power management operating status	Description	Turning the picture back on
On	Green	Not activated.	Horizontal and vertical synchronizing signals are present from the computer.	Picture already on.
Off	Red	Activated.	Horizontal and/or vertical synchronizing signals are not sent from the computer.	Operate the keyboard or mouse. The picture reappears.

Setting the Input Skip

When this is ON, signals which are not present will be skipped over and only pictures whose signals are being transmitted will be displayed.

This setting is valid only for the INPUT/EXIT button on the unit.

Example: Set to "ON"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

On "INPUT SKIP" of "FUNCTION" menu, select "ON".

FUNCTION	
ADVANCED OSM	: OFF
POWER MGT.	: OFF
→ INPUT SKIP	: <ON>
SUB. PICTURE	
ZOOM NAV	: BTM LEFT
PICTURE FREEZE	: S BY S1
PDP SAVER	: MANUAL
PWR. ON MODE	
PROTOCOL SET	: OFF
←SEL	↔ADJ. [EXIT]RETURN

Information

■ INPUT SKIP settings

OFF: Regardless of the presence of the signal, scan and display all signals.

ON: If no input signal is present, skip that signal.

* "SETTING NOW" will appear during the input search.

Removing the sub screen area when there is no input signal detected for the sub screen

This function automatically removes the black frame of the sub screen when there is no sub screen input signal. This feature is available only when the picture-in-picture mode is selected.

Example: Setting "DISPLAY" to "FADE"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

On "SUB. PICTURE" of "FUNCTION" menu, press the MENU/ENTER button.

The "SUB. PICTURE" screen appears.

Adjust the items.

SUB. PICTURE	
SUB. P DETECT	: AUTO
→ DISPLAY	: <FADE>
SUB. P RATE	: 100%
←SEL	↔ADJ. [EXIT]RETURN

Information

■ SUB. PICTURE Function

* Loss of the input signal means a condition in which the video signal and the sync signal are not present.

* Under conditions in which the sub screen has disappeared, the ZOOM NAV and PICTURE FREEZE functions will not work. The WIDE button will not function either.

■ SUB. P DETECT setting

AUTO: The black frame disappears 3 seconds after the input signal is lost.

OFF: Turns off the SUB. PICTURE function.

■ DISPLAY setting

NORMAL: The sub screen is displayed consistently.

FADE: The sub screen fades in.

■ SUB. P RATE setting

Set the transparency of the sub screen.

Displaying the entire image during DIGITAL ZOOM operations

Use this function to display the entire image within the sub screen together with an enlarged image on the main screen.

Example: Setting "ZOOM NAV" to "S BY S"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

On "ZOOM NAV" of "FUNCTION" menu, select "S BY S".

FUNCTION	
ADVANCED OSM	: OFF
POWER MGT.	: OFF
INPUT SKIP	: OFF
SUB. PICTURE	
→ ZOOM NAV	: <S BY S>
PICTURE FREEZE	: S BY S1
PDP SAVER	: MANUAL
PWR. ON MODE	
PROTOCOL SET	: OFF
←SEL	↔ADJ. [EXIT]RETURN

Information

■ ZOOM NAV Function

* This feature does not function during multi screen mode.

* This feature does not function while PICTURE FREEZE is operating.

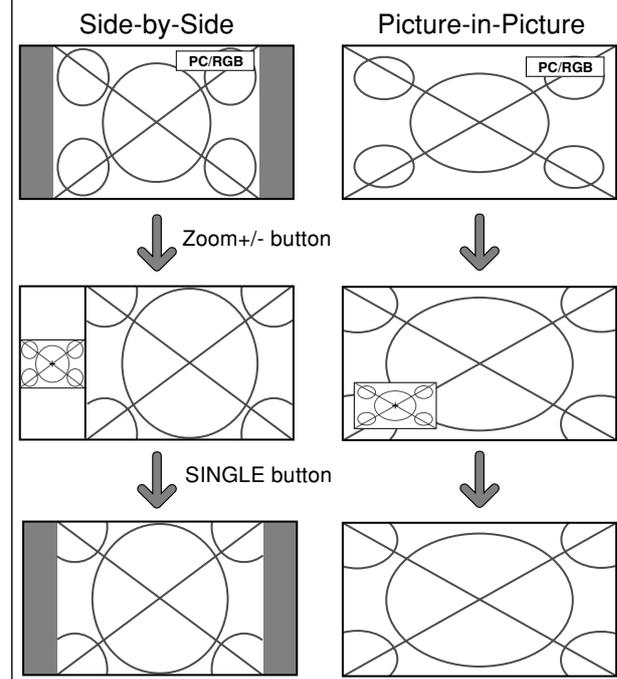
* Providing a 2-screen display will cancel this function.

■ ZOOM NAV settings

OFF: Will not show the entire image on the sub screen.

S BY S: Will show the entire image on the sub screen of side-by-side mode.

BTM LEFT~TOP LEFT: Will show the entire image on the sub screen of picture-in-picture mode.



Displaying still images in the sub screen

This feature enables display in the sub screen of still images captured by pressing the ACTIVE SELECT button.

Example: Setting "PICTURE FREEZE" to "BTM LEFT"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu. On "PICTURE FREEZE" of "FUNCTION" menu, select "BTM LEFT".

FUNCTION	
ADVANCED OSM	: OFF
POWER MGT.	: OFF
INPUT SKIP	: OFF
SUB. PICTURE	
ZOOM NAV	: BTM LEFT
→ PICTURE FREEZE	: ◀ BTM LEFT ▶
PDP SAVER	: MANUAL
PWR. ON MODE	
PROTOCOL SET	: OFF
◀ SEL.	▶ ADJ. [EXIT] RETURN

Information

■ PICTURE FREEZE Function

- * This feature does not function during multi screen mode.
- * Digital zoom is not available while this function is operating.
- * A further press of the ACTIVE SELECT button while this function is operating will cancel this function.
- * Providing a 2-screen display will cancel this function.

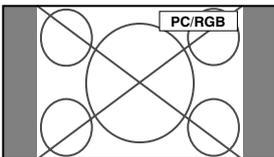
■ PICTURE FREEZE settings

OFF: Will not show the still image.

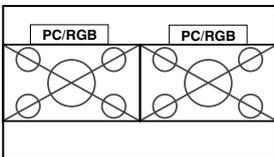
S BY S1, 2: The still images captured by pressing the ACTIVE SELECT button will be shown on the sub screen of side-by-side mode.

BTM LEFT~TOP LEFT: The still images captured by pressing the ACTIVE SELECT button will be shown on the sub screen of picture-in-picture mode.

Side-by-Side

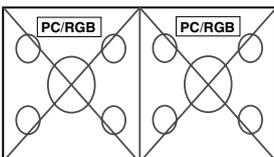


S BY S1

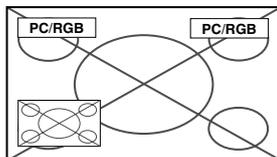
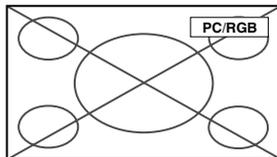


or

S BY S2



Picture-in-Picture



Reducing image retention

The brightness of the screen, the position of the picture, positive/negative mode and screen wiper are adjusted to reduce image retention.

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

On "PDP SAVER" of "FUNCTION" menu, select "MANUAL", then press the MENU/ENTER button.

The "PDP SAVER" screen appears.

PDP SAVER	
→ PEAK BRIGHT	: ◀ 100% ▶
ORBITER	: AUTO1
INVERSE/WHITE	: OFF
SCREEN WIPER	: OFF
SOFT FOCUS	: OFF
OSM ORBITER	: ON
OSM CONTRAST	: LOW
◀ SEL.	▶ ADJ. [EXIT] RETURN

Information

■ When set to AUTO

Set automatically, as described below.

PEAK BRIGHT: 100%

ORBITER: AUTO1 or AUTO2

INVERSE/WHITE: OFF

SCREEN WIPER: OFF

SOFT FOCUS: OFF

OSM ORBITER: ON

OSM CONTRAST: LOW

PEAK BRIGHT

Use this to activate the brightness limiter.

Example: Setting "PEAK BRIGHT" to "75%"

On "PEAK BRIGHT" of "PDP SAVER" menu, select "75%".

PDP SAVER	
→ PEAK BRIGHT	: ◀ 75% ▶
ORBITER	: AUTO1
INVERSE/WHITE	: OFF
SCREEN WIPER	: OFF
SOFT FOCUS	: OFF
OSM ORBITER	: ON
OSM CONTRAST	: LOW
◀ SEL.	▶ ADJ. [EXIT] RETURN

Information

■ PEAK BRIGHT settings

100%: The brightness of the screen is adjusted automatically to suit the picture quality.

75%, 50%, 25%: Sets maximum brightness.

The brightness level decreases in the order of 75%, 50%, 25%. 25% provides minimum brightness.

* These values are approximate.

ORBITER

Use this to set the picture shift.

Example: Setting "ORBITER" to "AUTO2"

On "ORBITER" of "PDP SAVER" menu, select "AUTO2".

PDP SAVER	
PEAK BRIGHT	: 100%
→ORBITER	: <AUTO2>
INVERSE/WHITE	: OFF
SCREEN WIPER	: OFF
SOFT FOCUS	: OFF
OSM ORBITER	: ON
OSM CONTRAST	: LOW
◀SEL	▶ADJ. [EXIT]RETURN

Information

■ ORBITER settings

OFF: Orbiter mode does not function.

This is the default setting when PC/RGB is input.

AUTO1: The picture moves around the screen intermittently, making the picture smaller. This is the default setting when a Video or a DVD/HD signal is input. Set to "OFF" when these signals are not used.

AUTO2: The picture moves around the screen intermittently, making the picture bigger.

* When a Video or a DVD/HD signal is input, the AUTO1 and 2 functions will affect only the moving picture and will not make the screen smaller or bigger.

INVERSE/WHITE

Use this to set the inverse mode or to display a white screen.

Example: Setting "INVERSE/WHITE" to "WHITE"

On "INVERSE/WHITE" of "PDP SAVER" menu, select "WHITE".

PDP SAVER	
PEAK BRIGHT	: 100%
ORBITER	: AUTO1
→INVERSE/WHITE	: <WHITE>
SCREEN WIPER	: OFF
SOFT FOCUS	: OFF
OSM ORBITER	: ON
OSM CONTRAST	: LOW
◀SEL	▶ADJ. [EXIT]RETURN

Information

■ INVERSE/WHITE Settings

OFF: Inverse/white mode does not function.

INVERSE: The picture is displayed alternately between positive image and negative image.

WHITE: The entire screen turns white.

SCREEN WIPER

When this is set to ON, a white vertical bar moves repeatedly from the left and of the screen to the right end at a constant speed.

Example: Setting "SCREEN WIPER" to "ON"

On "SCREEN WIPER" of "PDP SAVER" menu, select "ON".

PDP SAVER	
PEAK BRIGHT	: 100%
ORBITER	: AUTO1
INVERSE/WHITE	: OFF
→SCREEN WIPER	: <ON>
SOFT FOCUS	: OFF
OSM ORBITER	: ON
OSM CONTRAST	: LOW
◀SEL	▶ADJ. [EXIT]RETURN

Information

■ SCREEN WIPER

ON: The white vertical bar appears.

OFF: Screen wiper mode does not function.

SOFT FOCUS

Reduces edges and softens the image.

Example: Setting "SOFT FOCUS" to "LEVEL2"

On "SOFT FOCUS" of "PDP SAVER" menu, select "LEVEL2".

PDP SAVER	
PEAK BRIGHT	: 100%
ORBITER	: AUTO1
INVERSE/WHITE	: OFF
SCREEN WIPER	: OFF
→SOFT FOCUS	: <LEVEL2>
OSM ORBITER	: ON
OSM CONTRAST	: LOW
◀SEL	▶ADJ. [EXIT]RETURN

Information

■ SOFT FOCUS settings

OFF: Turns the SOFT FOCUS function off.

LEVEL1, 2, 3, 4: Activates the SOFT FOCUS setting.

The higher numbers create a softer image.

"SHARPNESS" can not be adjusted on the "PICTURE" menu.

OSM ORBITER

Use this to set OSM menu shift.

Example: Setting "OSM ORBITER" to "OFF"

On "OSM ORBITER" of "PDP SAVER" menu, select "OFF".

PDP SAVER	
PEAK BRIGHT	: 100%
ORBITER	: AUTO1
INVERSE/WHITE	: OFF
SCREEN WIPER	: OFF
SOFT FOCUS	: OFF
→OSM ORBITER	: <OFF>
OSM CONTRAST	: LOW
◀SEL	▶ADJ. [EXIT]RETURN

Information

■ OSM ORBITER settings

ON: The position of the menu will be shifted by eight dots each time OSM is displayed.

OFF: OSM will be displayed at the same position.

OSM CONTRAST

Use this to reduce the brightness of OSM menu.

Example: Setting "OSM CONTRAST" to "NORMAL"

On "OSM CONTRAST" of "PDP SAVER" menu, select "NORMAL".

PDP SAVER	
PEAK BRIGHT	: 100%
ORBITER	: AUTO1
INVERSE/WHITE	: OFF
SCREEN WIPER	: OFF
SOFT FOCUS	: OFF
OSM ORBITER	: ON
→OSM CONTRAST	: <NORMAL>
←SEL	↔ADJ. EXIT/RETURN

Information

■ OSM CONTRAST settings

NORMAL: OSM brightness is set to normal.

LOW: OSM brightness is set to lower.

Setting the power on mode

This function sets the input mode and the sound volume at the time the power is switched on.

Example: Setting the input mode to "VIDEO2"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

On "FUNCTION" menu, select "PWR.ON MODE", then press the MENU/ENTER button.

The "PWR.ON MODE" screen appears.

On "INPUT" of "PWR.ON MODE" menu, select "VIDEO2".

The available inputs depend on the setting of input.

PWR. ON MODE	
→INPUT	: <VIDEO2>
VOLUME	: 22
←SEL	↔ADJ. EXIT/RETURN

Information

■ INPUT settings

LAST: Last mode (the input that was last selected at the time the power was switched off).

VIDEO1, 2: VIDEO input mode.

DVD/HD1~4: DVD/HD input mode.

PC/RGB: PC/RGB input mode.

MULTI: Multi screen mode.

■ To set MULTI INPUT

- Set the INPUT button to "MULTI", then press the MENU/ENTER button.

The "MULTI SCREEN SETTING" will appear on the screen.

- Use the ▲ and ▼ buttons to select "MULTI MODE", then use the ◀ and ▶ buttons to choose from "SIDE BY SIDE1~3" and "PICTURE IN PICTURE (BOTTOM LEFT~TOP LEFT)".

- Use the ▲ and ▼ buttons to select "MAIN"/"SUB" and "LEFT"/"RIGHT", then use the ◀ and ▶ buttons to choose from "VIDEO1~2", "DVD/HD1~4" and "PC/RGB".

PICTURE IN PICTURE

PWR. ON MODE MULTI SCREEN SETTING	
→MULTI MODE	: <BOTTOM RIGHT>
INPUT MODE	
MAIN	: VIDEO1
SUB	: DVD/HD1
←SEL	↔ADJ. EXIT/RETURN

SIDE BY SIDE

PWR. ON MODE MULTI SCREEN SETTING	
→MULTI MODE	: <SIDE BY SIDE1>
INPUT MODE	
LEFT	: VIDEO1
RIGHT	: DVD/HD1
←SEL	↔ADJ. EXIT/RETURN

■ VOLUME settings

LAST: Last mode (the volume that was last selected at the time the power was switched off).

0 to 42: The level of sound volume.

Setting the Protocol set

Use this setting when connecting a device which uses special protocol for RS-232C communication.

Example: Setting "ON"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

On "PROTOCOL SET" of "FUNCTION" menu, select "ON".

FUNCTION	
ADVANCED OSM	: OFF
POWER MGT.	: OFF
INPUT SKIP	: OFF
SUB. PICTURE	
ZOOM NAV	: BTM LEFT
PICTURE FREEZE	: S BY S1
PDP SAVER	: MANUAL
PWR. ON MODE	
→PROTOCOL SET	: <ON>
←SEL	↔ADJ. EXIT/RETURN

Information

■ PROTOCOL SET settings

ON: When special protocol is used.

OFF: When NEC protocol is used (normal).

* Consult your dealer for details of protocol.

Signal Information Menu

Checking the frequencies, polarities of input signals, and resolution

Use this function to check the frequencies and polarities of the signals currently being input from a computer, etc.

On "MAIN MENU", select "SIGNAL INFO.", then press the MENU/ENTER button.

The "SIGNAL INFORMATION" is displayed.

SIGNAL INFORMATION	
H. FREQUENCY	: 48.4KHz
V. FREQUENCY	: 60.0Hz
H. POLARITY	: NEGATIVE
V. POLARITY	: NEGATIVE
MEMORY	: 24
RESOLUTION	: 1024×768
EXIT/RETURN	

PC: MEMORY will be displayed.

Others: MODE will be displayed.

External Control

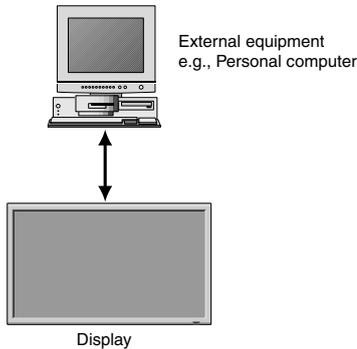
Pin Assignments

Application

These specifications cover the communications control of the plasma monitor by external equipment.

Connections

Connections are made as described below.

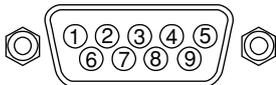


Connector on the plasma monitor side: EXTERNAL CONTROL connector.

Use a crossed (reverse) cable.

Type of connector: D-Sub 9-pin male

Pin No.	Pin Name	Pin No.	Pin Name
1	No Connection	6	DSR (DCE side ready)
2	RXD (Receive data)	7	RTS (Ready to send)
3	TXD (Transmit data)	8	CTS (Clear to send)
4	DTR (DTE side ready)	9	No connection
5	GND		



Communication Parameters

- | | |
|--------------------------|--------------|
| (1) Communication system | Asynchronous |
| (2) Interface | RS-232C |
| (3) Baud rate | 9600 bps |
| (4) Data length | 8 bits |
| (5) Parity | Odd |
| (6) Stop bit | 1 bit |
| (7) Communication code | Hex |

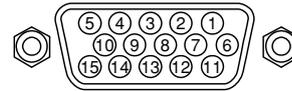
External Control Codes (Reference)

FUNCTION	CODE DATA
Power ON	9FH 80H 60H 4EH 00H CDH
OFF	9FH 80H 60H 4FH 00H CEH
Input Switch	
Video1 (RCA)	DFH 80H 60H 47H 01H 01H 08H
Video2 (S-Video)	DFH 80H 60H 47H 01H 02H 09H
DVD/HD1 (RCA)	DFH 80H 60H 47H 01H 05H 0CH
DVD/HD2 (RCA)	DFH 80H 60H 47H 01H 06H 0DH
DVD/HD3 (HDMI)	DFH 80H 60H 47H 01H 0EH 15H
PC/RGB (mini D-sub 15-pin)	DFH 80H 60H 47H 01H 07H 0EH
DVD/HD4 (HDMI)	DFH 80H 60H 47H 01H 1AH 21H
Audio Mute	
ON	9FH 80H 60H 3EH 00H BDH
OFF	9FH 80H 60H 3FH 00H BEH
Picture Mode	
NORMAL	DFH 80H 60H 0AH 01H 01H CBH
THEATER 1	DFH 80H 60H 0AH 01H 02H CCH
THEATER 2	DFH 80H 60H 0AH 01H 03H CDH
DEFAULT	DFH 80H 60H 0AH 01H 04H CEH
BRIGHT	DFH 80H 60H 0AH 01H 05H CFH
Screen Mode	
STADIUM	DFH 80H 60H 51H 01H 02H 13H
ZOOM	DFH 80H 60H 51H 01H 03H 14H
NORMAL	DFH 80H 60H 51H 01H 04H 15H
ANAMORPHIC	DFH 80H 60H 51H 01H 05H 16H
UNDERSCAN	DFH 80H 60H 51H 01H 08H 19H
14 : 9	DFH 80H 60H 51H 01H 09H 1AH
2.35 : 1	DFH 80H 60H 51H 01H 0AH 1BH
Auto Picture	
ON	DFH 80H 60H 7FH 03H 03H 09H 00H 4DH
OFF	DFH 80H 60H 7FH 03H 03H 09H 01H 4EH
Cinema Mode	
ON	DFH 80H 60H C1H 01H 01H 82H
OFF	DFH 80H 60H C1H 01H 02H 83H

Note: Contact your local dealer for a full list of the External Control Codes if needed.

mini D-Sub 15-pin connector (Analog)

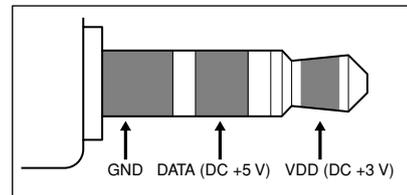
PC/RGB



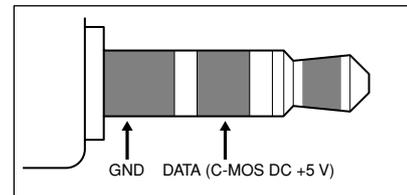
Pin No.	Signal (Analog)
1	Red
2	Green or sync-on-green
3	Blue
4	No connection
5	Ground
6	Red ground
7	Green ground
8	Blue ground
9	No connection
10	Sync signal ground
11	No connection
12	Bi-directional DATA (SDA)
13	Horizontal sync or Composite sync
14	Vertical sync
15	Data clock

1/8 Stereo Mini Jack (not supplied) for REMOTE IN/OUT

Plasma monitor REMOTE IN



Plasma monitor REMOTE OUT

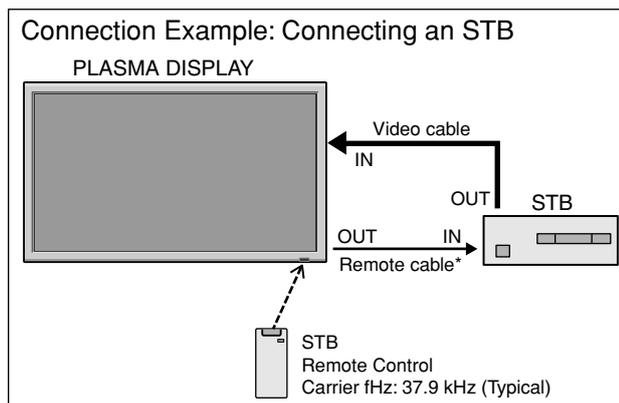


Connection with STB

Following is the connection example of STB (Set-top Box) using the REMOTE IN/OUT connectors of the plasma monitor. Consult your dealer about the actual connection and operation.

* Connection Example

- STB has the REMOTE IN connector.
- The pin assignment of the REMOTE IN connector of STB is same as that of 1/8 stereo mini cable connected to the REMOTE OUT connector (En-31).
- The transmit frequency of the remote control of STB is 37.9 kHz (Typical).



* The 1/8 Stereo Mini cable must be purchased separately.

Troubleshooting

If the picture quality is poor or there is some other problem, check the adjustments, operations, etc., before requesting service.

Symptom	Checks	Remedy
The unit emits a crackling sound.	• Are the image and sound normal?	• If there are no abnormalities in the image and sound, the noise is caused by the cabinet reacting to changes in temperature. This will not affect performance.
Picture is disturbed. Sound is noisy. Remote control operates erroneously.	• Is a connected component set directly in front or at the side of the display?	• Leave some space between the display and the connected components.
The remote control does not work.	• Are the remote control's batteries worn out?	• Replace both batteries with new ones.
Monitor's power does not turn on when the remote control's power button is pressed.	• Is the monitor's power cord plugged into a power outlet?	• Plug the monitor's power cord into a power outlet.
	• Are all the monitor's indicators off?	• Press the power button on the monitor to turn on the power.
	• Are the remote control's batteries worn out?	• Replace both batteries with new ones.
Monitor does not operate when the remote control's buttons are pressed.	• Is the remote control pointed at the monitor, or is there an obstacle between the remote control and the monitor?	• Point the remote control at the monitor's remote control sensor when pressing buttons, or remove the obstacle.
	• Is direct sunlight or strong artificial light shining on the monitor's remote control sensor?	• Eliminate the light by closing curtains, pointing the light in a different direction, etc.
	• Are the remote control's batteries worn out?	• Replace both batteries with new ones.
No sound or picture is produced.	• Is the monitor's power cord plugged into a power outlet?	• Plug the monitor's power cord into a power outlet.
Picture appears but no sound is produced.	• Is the volume set at the minimum?	• Increase the volume.
	• Is the mute mode set?	• Press the remote control's MUTE button.
	• Are the speakers properly connected?	• Connect the speakers properly.
	• Is AUDIO INPUT set correctly?	• Set AUDIO INPUT on the AUDIO menu correctly.
Poor picture with VIDEO signal input.	• Improper control setting. Local interference. Cable interconnections. Input impedance is not correct level.	• Adjust picture control as needed. Try another location for the monitor. Be sure all connections are secure.
Poor picture with RGB signal input.	• Improper control setting. Incorrect 15 PIN connector pin connections.	• Adjust picture controls as needed. Check pin assignments and connections.
Tint is poor or colors are weak.	• Are the tint and colors properly adjusted?	• Adjust the tint and color (under PICTURE).
Nothing appears on screen.	• Is the computer's power turned on?	• Turn on the computer's power.
	• Is a source connected?	• Connect source to the monitor.
	• Is the power management function in the standby or off mode?	• Operate the computer (move the mouse, etc.).
Part of picture is cut off or picture is not centered.	• Is the position adjustment appropriate?	• Adjust the IMAGE ADJUST properly.
Image is too large or too small.	• Is the screen size adjustment appropriate?	• Press the WIDE button on the remote control and adjust properly.
Picture is unstable.	• Is the computer's resolution setting appropriate?	• Set to the proper resolution.
ON/STANDBY indicator is lighted in red.	• Horizontal and / or vertical sync signal is not present when the Intelligent Power Manager control is on.	• Check the input signal.
ON/STANDBY indicator is blinking in red.	• The temperature inside the main unit has become too high and has activated the protector.	• Promptly switch off the power of the main unit and wait until the internal temperature drops. See*1.
ON/STANDBY indicator is blinking in green and red, or green.	_____	• Promptly switch off the power of the main unit. See *2.

***1 Overheat protector**

If the monitor becomes too hot, the overheat protector will be activated and the monitor will be turned off. If this happens, turn off the power to the monitor and unplug the power cord. If the room where the monitor is installed is particularly hot, move the monitor to a cooler location and wait for the monitor to cool for 60 minutes. If the problem persists, contact your dealer.

***2 In the following case, power off the monitor immediately and contact your dealer or authorized Service Center.**

The monitor turns off 5 seconds after powering on and then the ON/STANDBY indicator blinks. It indicates that the power supply circuit, plasma display panel, temperature sensor, or one or more fans have been damaged.

