

PlasmaSync Plasma Monitor

(Enhanced split screen Model)

PlasmaSync 42XM5

PX-42XM5G

PlasmaSync 50XM6

PX-50XM6G

PlasmaSync 60XM5

PX-60XM5G

User's Manual

Benutzerhandbuch

Manuel d'utilisation

Manual del Usuario

Manuale dell'utente

Руководство пользователя

Bruksanvisning

Kullanım Kılavuzu

Εγχειρίδιο Χρήσης

User's Manual



(Enhanced split screen Model)

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 near an open flame (such as a lighted candle).

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.

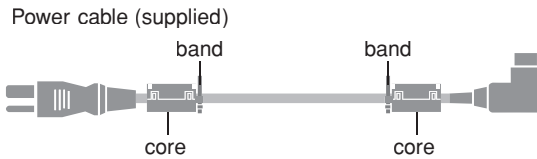
Contact your dealer for other recommended procedures that will best suit your particular application needs.

NOTE:

When you use an RGB cable (not supplied), use an RGB cable including the ferrite core (not supplied) on both ends of the cable. If you do not this, this monitor will not conform to mandatory CE or C-Tick standards.

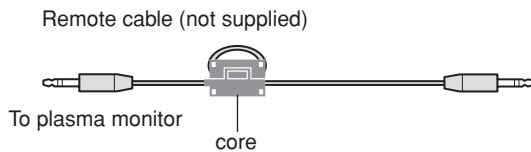
NOTE:

When you use the power cable (supplied), use the supplied ferrite cores. Set the ferrite cores (supplied) on both ends of the power cable (supplied), and then use the bands (supplied) to fasten the ferrite cores (supplied) to the power cable (supplied). If you do not this, this monitor will not conform to mandatory CE or C-Tick standards.



NOTE:

When you use a remote cable (not supplied), use the supplied ferrite core. Wind the remote cable (not supplied) around the ferrite core (supplied) once, and then fasten the catch. If you do not this, this monitor will not conform to mandatory CE or C-Tick standards.



This product complies with the Low Voltage Directive (73/23/EEC, amended by 93/68/EEC), EMC Directives (89/336/EEC, amended by 92/31/EEC and 93/68/EEC).

WARNING

This product equipped with a three-wire grounding (earthed) plug - a plug that has a third (grounding) pin. This plug only fits a grounding-type power outlet. If you are unable to insert the plug into an outlet, contact a licensed electrician to replace the outlet with a properly grounded one. Do not defeat the safety purpose of the grounding plug.

Operating Environment

Operating environment temperature and humidity: 0 °C to +40 °C (+32 °F to +104 °F); less than 80 %RH (cooling vents not blocked)

Do not install this unit in a poorly ventilated area, or in locations exposed to high humidity or direct sunlight (or strong artificial light)



Disposing of your used product

EU-wide legislation as implemented in each Member State requires that used electrical and electronic products carrying the mark (left) must be disposed of separately from normal household waste. This includes plasma monitors and their electrical accessories. When you dispose of such products, please follow the guidance of your local authority and/or ask the shop where you purchased the product.

After collecting the used products, they are reused and recycled in a proper way. This effort will help us reduce the wastes as well as the negative impact to the human health and the environment at the minimum level.

The mark on the electrical and electronic products only applies to the current European Union Member States.

CAUTION

When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country/area.

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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 (Start up Guide and CD-ROM)
- 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.

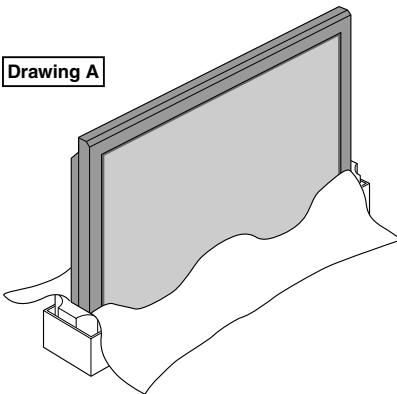
- **This device cannot be installed on its own. Be sure to use a stand or original mounting unit. (Wall mount unit, Stand, etc.)**
 - **For correct installation and mounting it is strongly recommended to use a trained, authorized dealer.**
- Failure to follow correct mounting procedures could result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

CAUTION

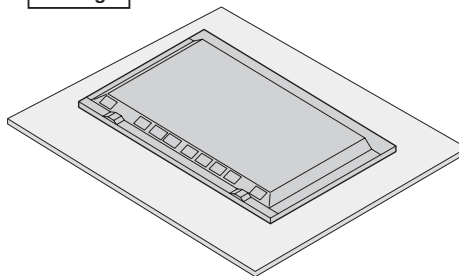
- **Install the device following the installation manual of the optional accessory.**
- **Install the device in a stable and level environment that is strong enough to support the weight.**
- **Use the specified clasps for installing.**
- **After installation, take appropriate measures to prevent the plasma from tipping over or falling.**
- **Make sure to move or install the device with more than one person(s).**

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

Drawing A

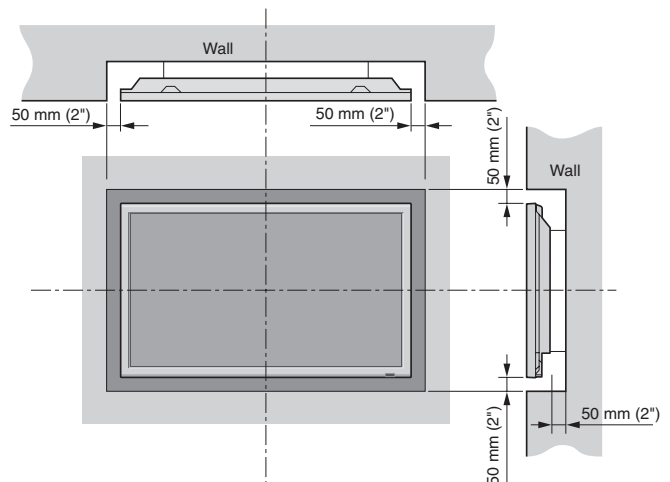


Drawing B



Ventilation Requirements for enclosure mounting

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

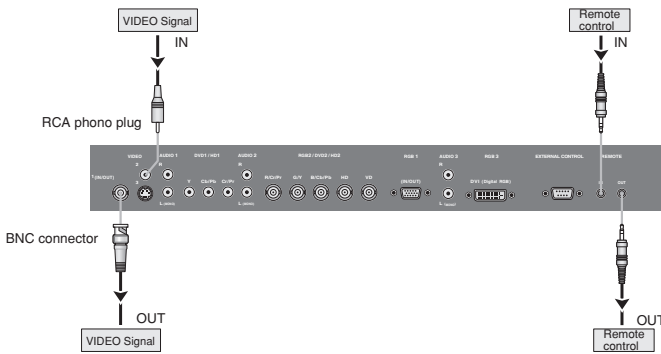


Creating a video wall

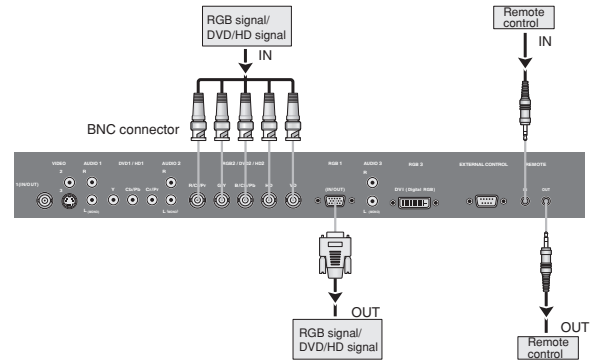
With built-in matrix display capability, you can create a (2×2, 3×3, 4×4, 5×5, 5×1, 1×5) video wall.

- Connect signal cables and remote cables as shown below.

Video signal



RGB/DVD/HD signal



Note:

1. The VIDEO1 and RGB1 terminals can be used for either INPUT or OUTPUT. When LOOP OUT is ON, do not connect an OUTPUT signal from another unit as it may damage the other unit due to an extraordinary load.
2. LOOP OUT can not be turned ON while signals are input to the RGB1 terminal.
3. LOOP OUT can be turned ON while signals are input to the RGB1 terminal if the POWER is switched ON.

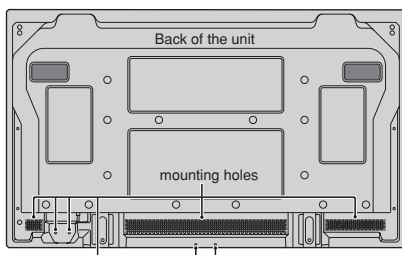
Information

- To loop signals out to another plasma display, set the LOOP OUT to ON.
- To create a video wall, set the VIDEO WALL menu items properly.
- To connect monitors, please use a 1 m to 2 m (3.3 feet to 6.6 feet) BNC cable (any commercially available cable).
- If the image quality is poor, do not use the monitor's out terminal. Use a distribution amplifier (any commercially available distribution amplifier) to connect the split signals to the respective monitor INPUT terminals.
- Being used as a video wall function, maximally 4-screen is rough-standard with lower than 1024×768, 60 Hz signal.
- A distribution amplifier is particularly recommended when creating a 3×3 (or greater) video wall.
- When looping from plasma to plasma, a 1 m to 2 m (3.3 feet to 6.6 feet) 15 pin male D-Sub - 5BNC conversion cable is required.

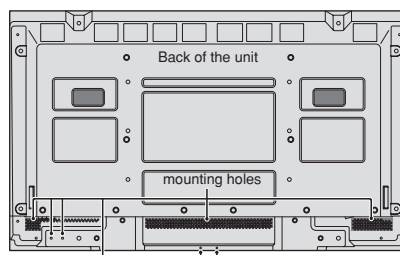
Cable Management

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.

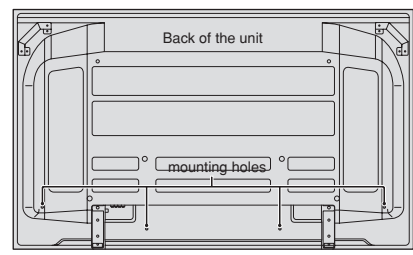
42XM5



50XM6



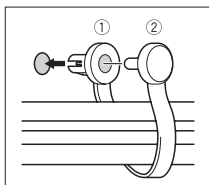
60XM5



To attach

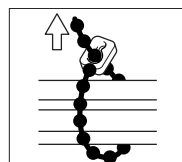
Insert ① into a mounting hole, then snap ② into the back of ① to fix the clammer.

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



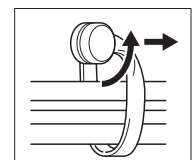
Bunch separated cables together and secure them with the provided beads bands.

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



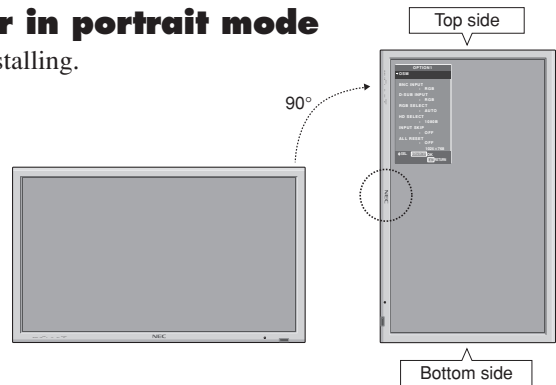
To detach

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



Caution when placing the plasma monitor in portrait mode

- Use the optional mount. Contact your store to purchase before installing.
- Rotate 90° clockwise as seen from the front when installing.
- After installing, make sure the NEC logo is located at the left hand side of the screen when facing the plasma from the front.
- Be sure to set “OSM ANGLE” to “V” when using.
- * Failure to heed the above cautions may lead to malfunction.



Using the remote control

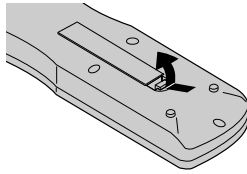
Battery Installation and Replacement

Designated batteries:

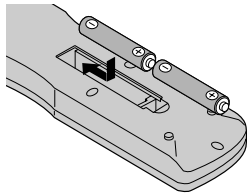
Please use size AAA (R03) or AAA (LR03).

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

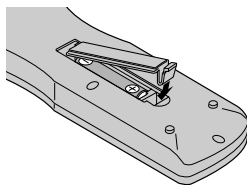
1. Press and open the cover.



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

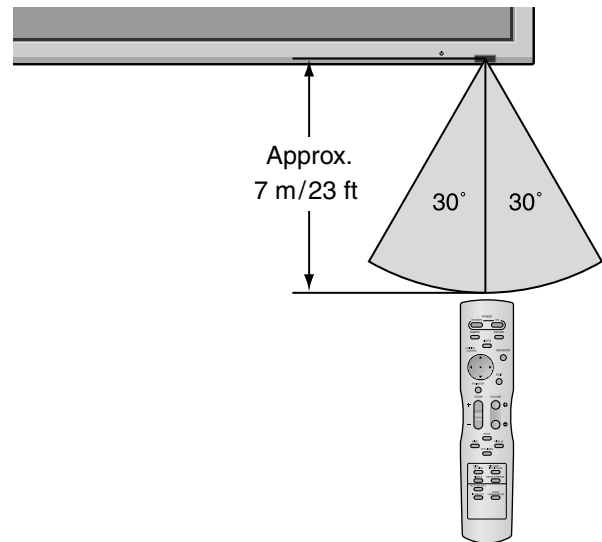


3. Replace the cover.



Operating Range

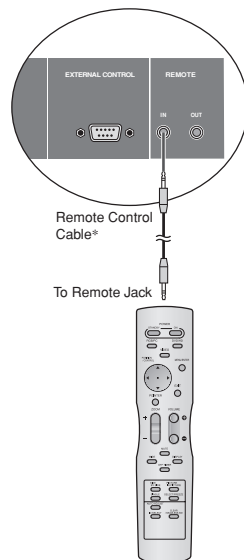
- * Use the remote control within a distance of about 7 m/ 23 ft. from the front of the monitor’s remote control sensor and at horizontal and vertical angles of up to approximately 30°.
- * The remote control operation may not function if the monitor’s remote control sensor is exposed to direct sunlight or strong artificial light, or if there is an obstacle between the sensor and the remote control.



Using the wired remote control mode

Connect the remote cable* to the remote control’s remote jack and the “REMOTE IN” terminal on the monitor.

When the cable is connected, the mode automatically switches to wired remote control. When the wired remote control mode is used, the remote control can be operated even if no batteries are loaded.



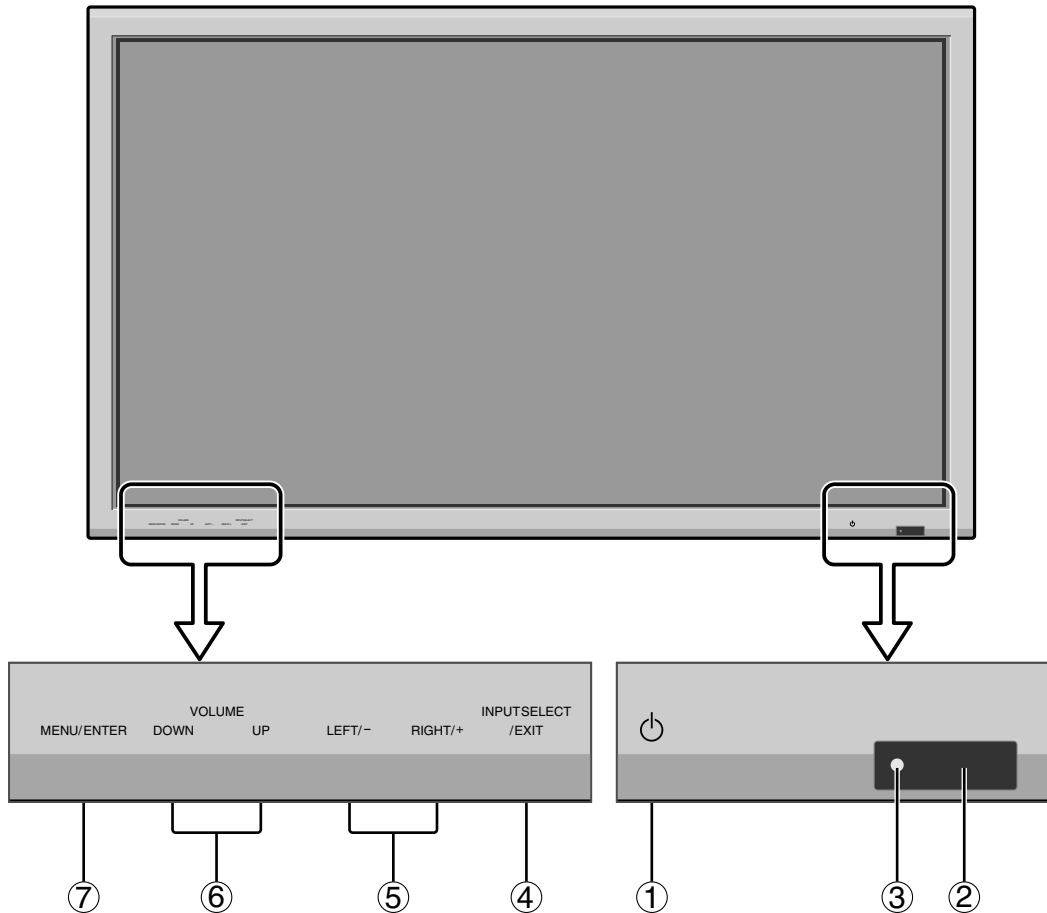
CAUTION

- 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.
- When using the remote control in the wireless condition, be sure to unplug the remote cable from the REMOTE IN terminal on the monitor.

* The 1/8 Stereo Mini cable must be purchased separately. En-7

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 **POWER/STANDBY indicator**
When the power is on Lights green.
When the power is in the standby mode ... Lights red.
- ④ **INPUT SELECT / EXIT**
Switches the input.
Functions as the EXIT buttons in the On-Screen Menu (OSM) mode.
- ⑤ **LEFT/- and RIGHT/+**
Functions as the CURSOR (◀/▶) buttons and used to adjust the picture parameters in the On-Screen Menu (OSM) mode.
- ⑥ **VOLUME DOWN and UP**
Adjusts the volume.
Functions as the CURSOR (▲/▼) buttons in the On-Screen Menu (OSM) mode.
- ⑦ **MENU/ENTER**
Sets the On-Screen Menu (OSM) mode and displays the main menu.

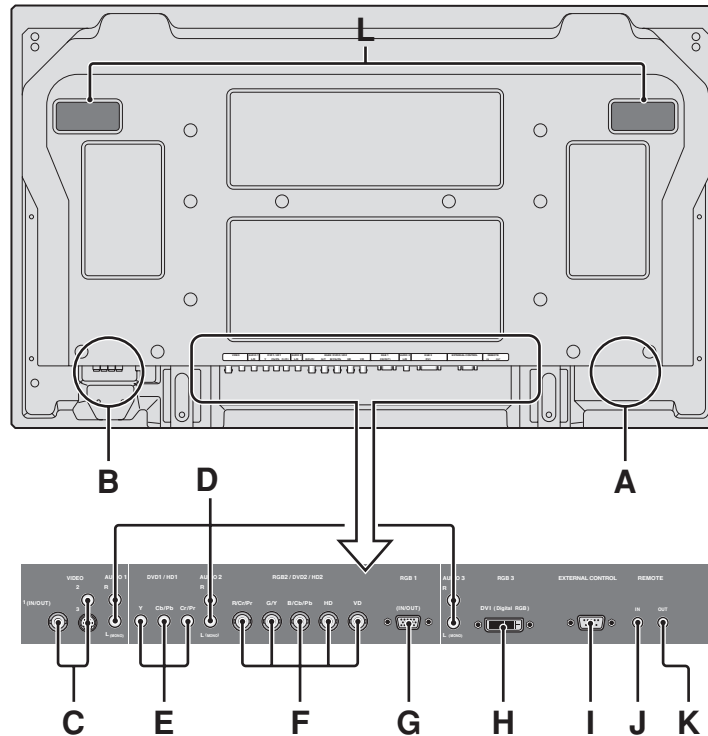
WARNING

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

42XM5



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, 3 (BNC, RCA, S-Video)

Connect VCR's, DVD's or Video Cameras, etc. here. VIDEO1 can be used for Input or Output.

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 DVD1 / HD1

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

F RGB2/ DVD2/ HD2

RGB2: You can connect an analog RGB signal and the synchronization signal.

DVD2/ HD2: You can connect DVDs, High Definition sources, Laser Discs, etc. here.

This input can be set for use with an RGB or component source.

G RGB1 (mini D-Sub 15pin)

Connect an analog RGB signal from a computer, etc. here. This input can be used for Input or Output.

H RGB3 (DVI 24pin)

Connect a digital signal (TMDS) from a source with a DVI output.

This input can be set for use with an RGB3.

I EXTERNAL CONTROL

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

J REMOTE IN

Connect the remote cable to the remote control's remote jack to obtain wired remote control.

K REMOTE OUT

Connect the remote cable to the REMOTE IN jack of the other display monitor to obtain wired remote control.

L Handles

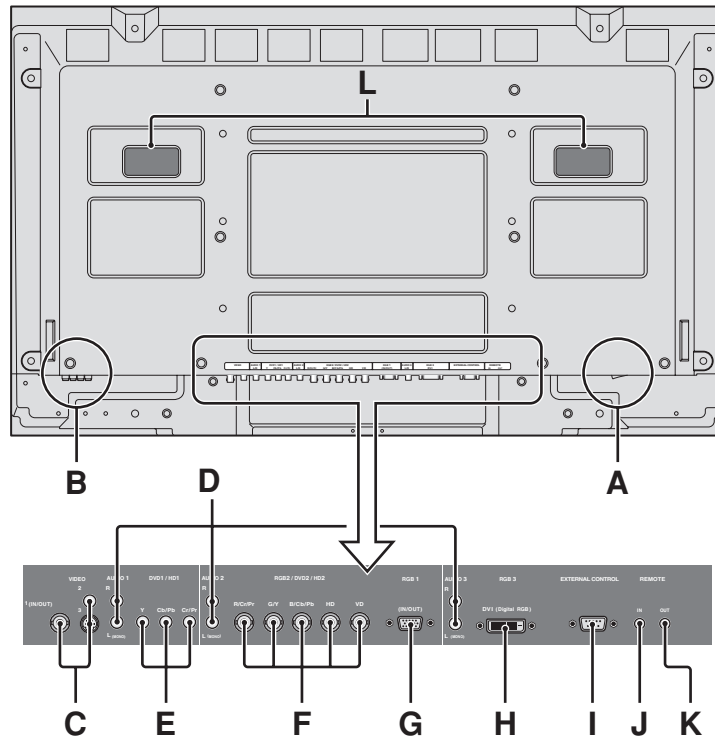
Use when installing or carrying the plasma monitor.

Information

- For Y/Cb/Cr, connect to the DVD1 or DVD2 terminals.
- For SCART, this unit provides three ways to connect:
 - SCART1: Connect R/G/B to the DVD2 terminals and composite sync. to the HD terminal.
 - SCART2: Connect R/G/B to the DVD2 terminals and composite sync. to the VIDEO1 terminal.
 - SCART3: Connect R/G/B + composite sync. to the RGB1 terminal.

Rear View/ Terminal Board

50XM6



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, 3 (BNC, RCA, S-Video)

Connect VCR's, DVD's or Video Cameras, etc. here. VIDEO1 can be used for Input or Output.

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 DVD1 / HD1

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

F RGB2/ DVD2/ HD2

RGB2: You can connect an analog RGB signal and the synchronization signal.

DVD2/ HD2: You can connect DVDs, High Definition sources, Laser Discs, etc. here.

This input can be set for use with an RGB or component source.

G RGB1 (mini D-Sub 15pin)

Connect an analog RGB signal from a computer, etc. here. This input can be used for Input or Output.

H RGB3 (DVI 24pin)

Connect a digital signal (TMDS) from a source with a DVI output.

This input can be set for use with an RGB3.

I EXTERNAL CONTROL

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

J REMOTE IN

Connect the remote cable to the remote control's remote jack to obtain wired remote control.

K REMOTE OUT

Connect the remote cable to the REMOTE IN jack of the other display monitor to obtain wired remote control.

L Handles

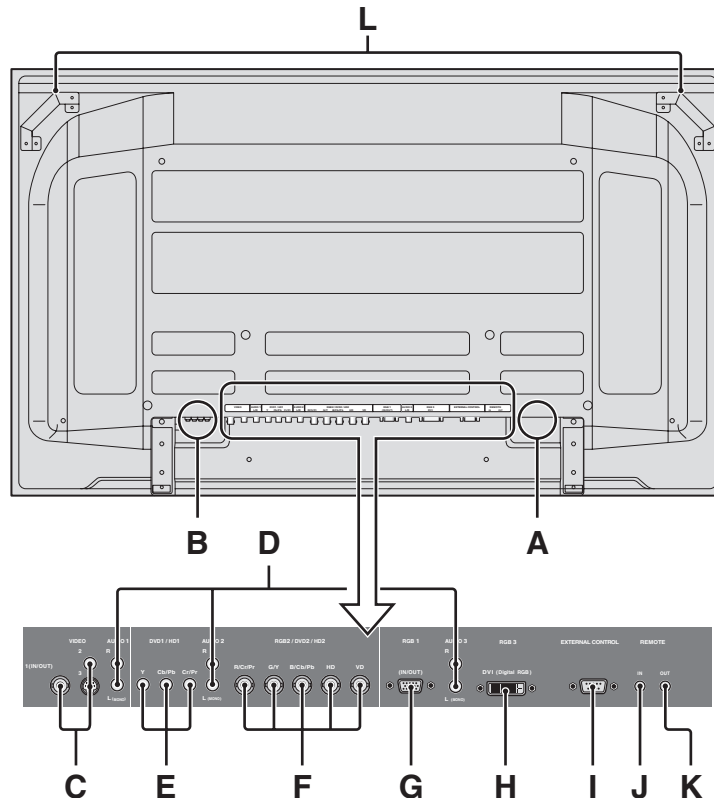
Use when installing or carrying the plasma monitor.

Information

- For Y/Cb/Cr, connect to the DVD1 or DVD2 terminals.
- For SCART, this unit provides three ways to connect:
 - SCART1: Connect R/G/B to the DVD2 terminals and composite sync. to the HD terminal.
 - SCART2: Connect R/G/B to the DVD2 terminals and composite sync. to the VIDEO1 terminal.
 - SCART3: Connect R/G/B + composite sync. to the RGB1 terminal.

Rear View/ Terminal Board

60XM5



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, 3 (BNC, RCA, S-Video)

Connect VCR's, DVD's or Video Cameras, etc. here. VIDEO1 can be used for Input or Output.

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 DVD1 / HD1

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

F RGB2/ DVD2/ HD2

RGB2: You can connect an analog RGB signal and the synchronization signal.

DVD2/ HD2: You can connect DVDs, High Definition sources, Laser Discs, etc. here.

This input can be set for use with an RGB or component source.

G RGB1 (mini D-Sub 15pin)

Connect an analog RGB signal from a computer, etc. here. This input can be used for Input or Output.

H RGB3 (DVI 24pin)

Connect a digital signal (TMDS) from a source with a DVI output.

This input can be set for use with an RGB3.

I EXTERNAL CONTROL

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

J REMOTE IN

Connect the remote cable to the remote control's remote jack to obtain wired remote control.

K REMOTE OUT

Connect the remote cable to the REMOTE IN jack of the other display monitor to obtain wired remote control.

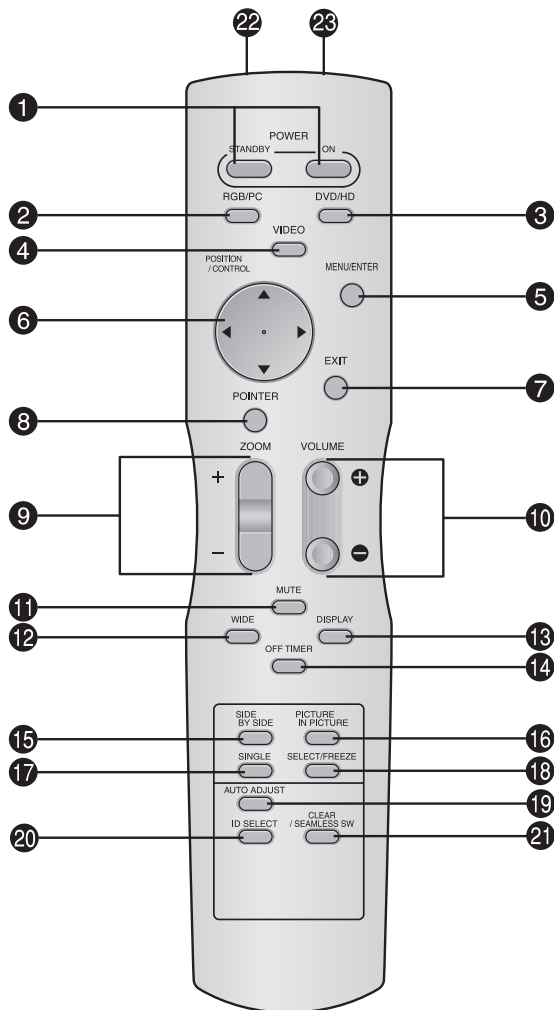
L Handles

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 three ways to connect:
 - SCART1: Connect R/G/B to the DVD2 terminals and composite sync. to the HD terminal.
 - SCART2: Connect R/G/B to the DVD2 terminals and composite sync. to the VIDEO1 terminal.
 - SCART3: Connect R/G/B + composite sync. to the RGB1 terminal.

Remote Control



- 1 POWER ON/STANDBY**
Switches the power on/standby.
(This does not operate when the POWER/STANDBY indicator of the plasma is off.)
- 2 RGB/PC**
Press this button to select RGB/PC as the source.
RGB/PC can also be selected using the INPUT SELECT button on the monitor.
- 3 DVD / HD**
Press this button to select DVD/HD as the source.
DVD/HD can also be selected using the INPUT SELECT button on the monitor.
- 4 VIDEO**
Press this button to select VIDEO as the source.

→ VIDEO1 → VIDEO2 → VIDEO3

VIDEO can also be selected using the INPUT SELECT button on the monitor.
- 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 POINTER**
Press this button to display the pointer.
- 9 ZOOM (+ / -)**
Enlarges or reduces the image.
- 10 VOLUME (+ / -)**
Adjusts the audio volume.
- 11 MUTE**
Mutes the audio.
- 12 WIDE**
Press this button to select and switch the screen sizes.
WIDE button is not active for all signals.
- 13 DISPLAY**
Displays the source settings on the screen.
- 14 OFF TIMER**
Activates the off timer for the unit.
- 15 SIDE BY SIDE**
Press this button to show a couple of pictures in the side-by-side mode.
- 16 PICTURE IN PICTURE**
Press this button to show a couple of pictures in the picture-in-picture mode.
- 17 SINGLE**
Cancels the split screen mode.
- 18 SELECT/FREEZE**
Press this button to select the active picture in a split screen mode.
When the PIC FREEZE function is operating, this button can be used to display still images on the sub screen.
- 19 AUTO ADJUST**
Press this button to adjust Fine Picture, Picture ADJ, Position, and Contrast automatically. Press this button in video mode and the Auto Adjust switches to ZOOM mode automatically when a letter box image is displayed.
- 20 ID SELECT**
Set the ID number in the remote control. The remote control can then be used only for a display with the same ID number. When several displays are used together they can be controlled individually.
- 21 CLEAR/SEAMLESS SW**
Clears the number set by the ID SELECT button. When the SEAMLESS SW function is operating, this button can be used to switch the input source quickly.
- 22 Remote control signal transmitter**
Transmits the remote control signals.
- 23 Remote Jack**
Insert the plug of the remote cable (The 1/8 Stereo Mini cable) here when using the supplied remote control in the wired condition.

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 POWER/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 POWER/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 POWER/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. Press the DISPLAY button to display the display mode.
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 POINTER button to display the pointer. ()

To change the size of the picture:

Press the ZOOM+ button and enlarge the picture.
The pointer will change to resemble a magnifying glass. ()

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 POINTER button to delete the pointer.

AUTO ADJUST

To adjust the size or quality of the picture automatically:

Press the AUTO ADJUST button.

Information

■ AUTO ADJUST ON setting

When RGB (still picture) input is selected:
Fine Picture, Picture ADJ, Position, and Contrast will be adjusted automatically.

When RGB (motion picture), VIDEO, or Y/Pb/Pr (component) input is selected:

The screen size switches to ZOOM mode automatically when a letter box image is displayed.

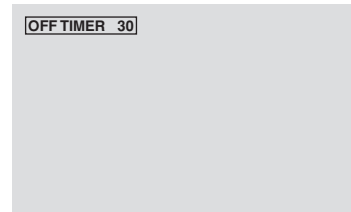
OFF TIMER

To set the off timer:

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

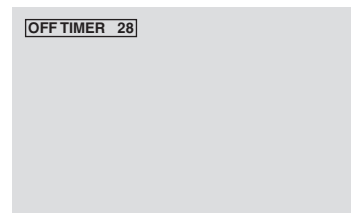
1. Press the OFF TIMER button to start the timer at 30 minutes.
2. Press the OFF TIMER button to the desired time.
3. The timer starts when the menu turns off.

→ 30 → 60 → 90 → 120 → 0



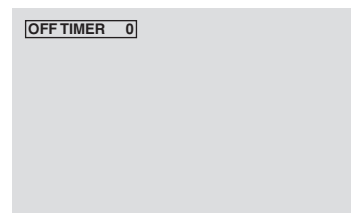
To check the remaining time:

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 → FULL → STADIUM → ZOOM → 2.35:1 → 14:9 → UNDERSCAN

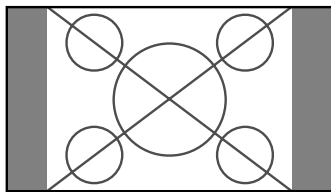
When a 720P or 1080I signal is input:

FULL ↔ 2.35:1

When displaying enhanced split screen:

NORMAL ↔ FULL

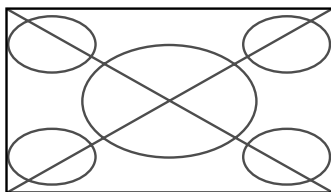
NORMAL size screen (4:3)



The normal size screen is displayed.

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

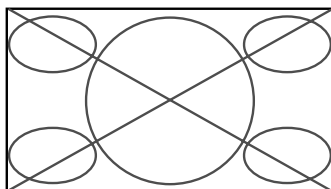
FULL size screen



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.)

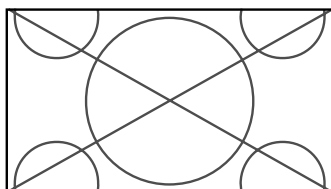
STADIUM size screen



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.

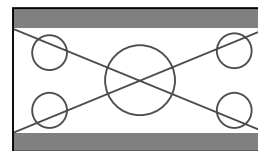
ZOOM size screen



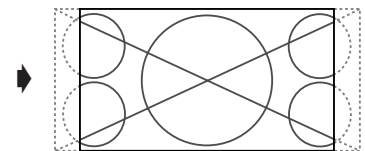
The picture is expanded in the horizontal and vertical direction, maintaining the original proportions.

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

2.35:1 size screen



Original image



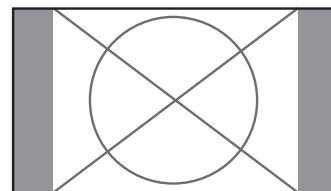
Information is lost on both sides.

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

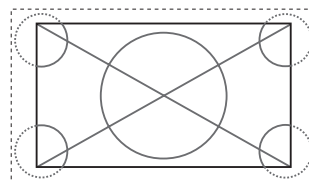


The image is displayed at a 14:9 aspect ratio.

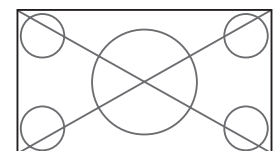
- * This feature is available when the input signal is video, component (480I, 480P, 576I, 576P) or RGB (525P or 625P signal from a scan converter).

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.



Overscan



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.

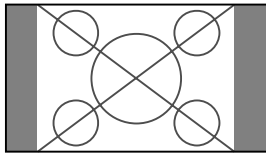
1. Press the WIDE button on the remote control.
2. Within 3 seconds ...

Press the WIDE button again.
The screen size switches as follows:

→ **NORMAL** → **FULL** → **ZOOM**

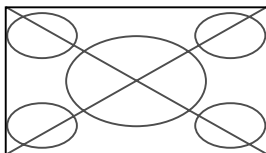
When displaying enhanced split screen:
NORMAL ↔ **FULL**

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



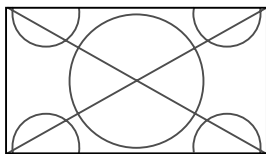
The picture has the same size as the normal computer image.

FULL size screen



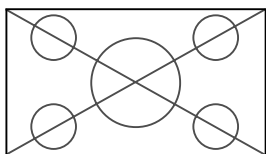
The image is expanded in the horizontal direction.

ZOOM size screen



When wide signals are input.

FULL size screen



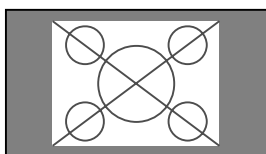
When “PICTURE SIZE” is set to “OFF”

* This cannot be set in some models. “TRUE” size will not be displayed in such cases.

The screen size switches as follows:

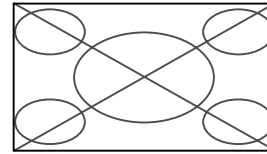
→ **TRUE** → **FULL** → **ZOOM**

TRUE size screen (VGA, SVGA 4:3)



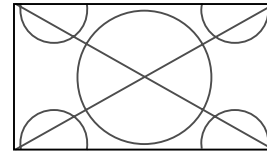
The image is true resolution.

FULL size screen



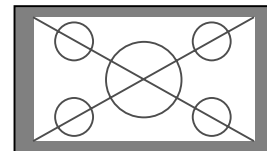
The image is expanded in the horizontal and vertical direction.

ZOOM size screen



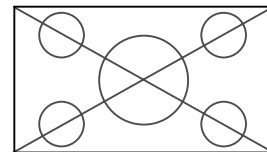
When wide signals are input.

TRUE



The image is true resolution.

FULL



Information

■ Supported resolution

See page En-41 for details on the display output of the various VESA signal standards supported by the monitor.

■ “PICTURE SIZE” setting

When the setting of “PICTURE SIZE” is OFF, the size of RGB-input pictures will be TRUE in place of NORMAL.

■ 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-41.

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

Note:

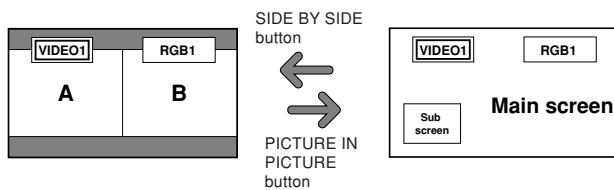
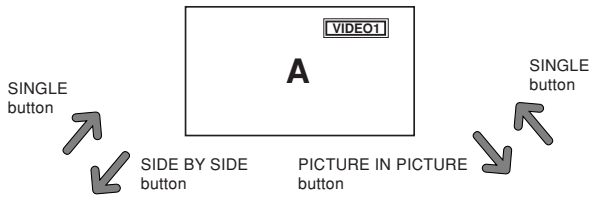
Do not allow 4:3 content to be displayed for extended periods of time without using gray bars. This can cause image retention.

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

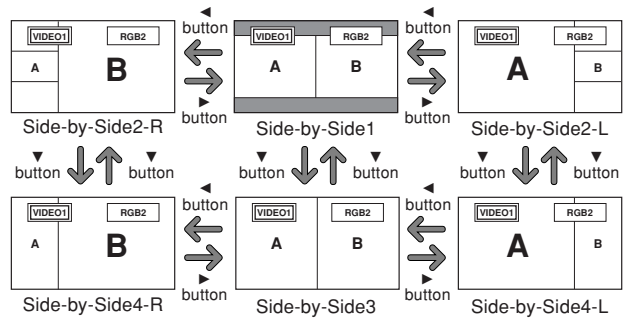
Split screen operations may not function depending on the combination of input signals. In the table below, "○" means Yes, "×" means No.

Pictures displayed on the left/sub screen (Select2)	Pictures displayed on the right/main screen (Select1)										
	VIDEO1	VIDEO2	VIDEO3	DVD/HD1	DVD/HD2	SCART1	SCART2	SCART3	RGB1	RGB2	RGB3
VIDEO1	×	×	×	○	○	×	×	×	○	○	○
VIDEO2	×	×	×	○	○	×	×	×	○	○	○
VIDEO3	×	×	×	○	○	×	×	×	○	○	○
DVD/HD1	○	○	○	×	○	○	○	○	○	○	○
DVD/HD2	○	○	○	×	×	×	×	×	○	×	○
SCART1	×	×	×	○	×	×	×	×	○	×	○
SCART2	×	×	×	○	×	×	×	×	○	×	○
SCART3	×	×	×	○	×	×	×	×	○	×	○
RGB1	○	○	○	○	○	○	○	×	×	○	○
RGB2	○	○	○	○	×	×	×	○	○	×	○
RGB3	○	○	○	○	○	○	○	○	○	○	×

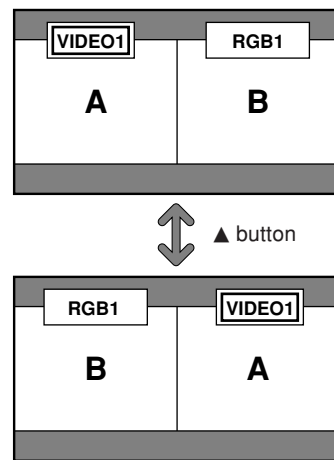
■ Split screen operations may not function depending on the frequency of the RGB signals.

Operations in the Side-by-side mode

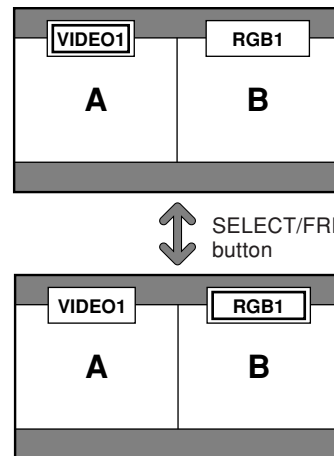
To change the picture size, press the cursor ◀▶ or ▼ button.



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

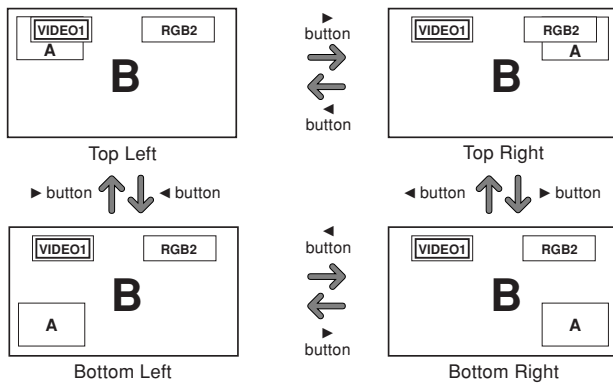


To make the desired picture active, press the SELECT/FREEZE button.

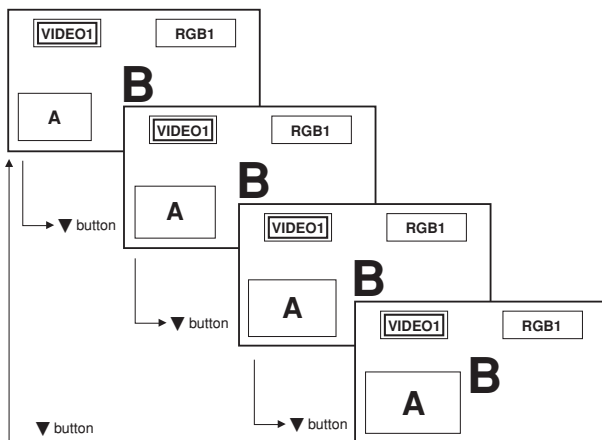


Operations in the Picture-in-picture mode

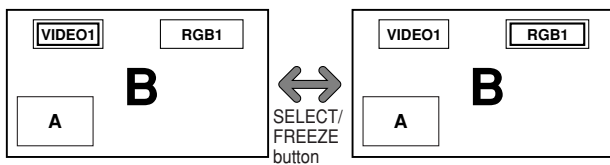
To move the position of the sub screen, press the cursor ◀ or ▶ button.



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



To make the desired picture active, press the SELECT/FREEZE button.



Selecting the input signals to be displayed

1. Press the SELECT/FREEZE button to make the desired picture active.
2. Press the RGB/PC, VIDEO, or DVD/HD button. Each press of the button changes the selection of the input signal. The INPUT SELECT button on the monitor can also be used to change the selection.

Zooming in on a specific input

1. Press the SELECT/FREEZE button to make the desired picture active.
2. Use the POINTER button and the ZOOM +/– button to enlarge the picture. For details, see “DIGITAL ZOOM” on page En-13.

Adjusting the OSM controls

1. Press the SELECT/FREEZE 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-18.

Note:

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

OSM(On Screen Menu) Controls

Menu Operations

The OSM window is displayed with respect to the screen as shown on the diagram.

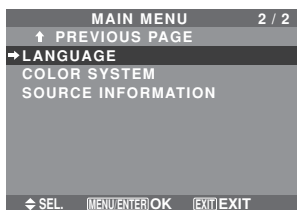
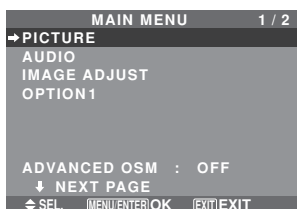
* Depending on the screen's mode, the OSM may be displayed differently.

In the explanation, the OSM section is shown close up.

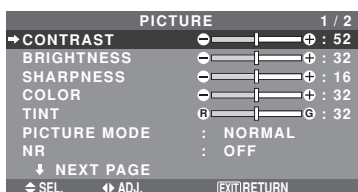


The following describes how to use the menus and the selected items.

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.

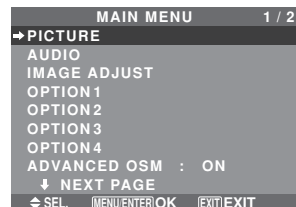
* When adjusting using the bar at the bottom of the screen, press the ◀ or ▶ button within 5 seconds. If not, the current setting is stored and the previous screen appears.

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

Information

■ Advanced menu mode

When “ADVANCED OSM” is set to “ON” in the main menu (1/2), 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	OSM ANGLE "V"	REFERENCE	
PICTURE	CONTRAST	← → + 0 ← 52 → 72			YES	YES	En-21	
	BRIGHTNESS	← → + 0 ← 32 → 64			YES	YES	En-21	
	SHARPNESS	← → + 0 ← 16 → 32			YES	YES	En-21	
	COLOR	← → + 0 ← 32 → 64			YES	YES	En-21	
	TINT	R ← → G 0 ← 32 → 64			YES	YES	En-21	
	PICTURE MODE	BRIGHT/NORMAL/THEAT.1/THEAT.2/DEFAULT			YES	YES	En-21	
	NR	OFF/NR-1/NR-2/NR-3			YES	YES	En-21	
	COLOR TEMP.	LOW/MID LOW/MID/HIGH			YES	YES	En-21	
	WHITE BALANCE	GAIN RED	← → + 0 ← 40 → 70		YES	NO	En-22	
		GAIN GREEN	← → + 0 ← 40 → 70		YES	NO	En-22	
		GAIN BLUE	← → + 0 ← 40 → 70		YES	NO	En-22	
		BIAS RED	← → + 0 ← 40 → 70		YES	NO	En-22	
		BIAS GREEN	← → + 0 ← 40 → 70		YES	NO	En-22	
		BIAS BLUE	← → + 0 ← 40 → 70		YES	NO	En-22	
		RESET	OFF ← → ON		YES	NO	En-22	
		GAMMA	1 ← → 2 ← → 4		YES	NO	En-22	
		LOW TONE *4	MODE1 ← → MODE2		YES	NO	En-22	
		COLOR TUNE	RED	Y ← → M 0 ← 32 → 64	YES	NO	En-22	
			GREEN	C ← → Y 0 ← 32 → 64	YES	NO	En-22	
			BLUE	M ← → C 0 ← 32 → 64	YES	NO	En-22	
			YELLOW	G ← → R 0 ← 32 → 64	YES	NO	En-22	
			MAGENTA	R ← → B 0 ← 32 → 64	YES	NO	En-22	
			CYAN	B ← → G 0 ← 32 → 64	YES	NO	En-22	
			RESET	OFF ← → ON		YES	NO	En-22

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	OSM ANGLE "V"	REFERENCE
AUDIO	BASS	← → + 0 ← 13 → 26			YES	YES	En-23
	TREBLE	← → + 0 ← 13 → 26			YES	YES	En-23
	BALANCE	L ← → R -22 ← 0 → +22			YES	YES	En-23
	AUDIO INPUT1	VIDEO 1-3 / DVD/HD 1-2 / RGB 1-3			YES	YES	En-23
	AUDIO INPUT2	VIDEO 1-3 / DVD/HD 1-2 / RGB 1-3			YES	YES	En-23
	AUDIO INPUT3	VIDEO 1-3 / DVD/HD 1-2 / RGB 1-3			YES	YES	En-23

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	OSM ANGLE "V"	REFERENCE
IMAGE ADJUST	ASPECT MODE	NORMAL/FULL/STADIUM/ZOOM/2.35:1/14:9/UNDERSCAN/TRUE*3			—	YES	En-23
	V-POSITION	← → + -64 ← 0 → +64			YES	YES	En-23
	H-POSITION	← → + -128 ← 0 → +127			YES	YES	En-23
	V-HEIGHT	← → + 0 ← → 64			YES	YES	En-23
	H-WIDTH	← → + 0 ← → 64			YES	YES	En-23
	AUTO PICTURE	OFF ← → ON*2			NO	YES	En-23
	FINE PICTURE*1	← → + *2 0 ← → 64			YES	YES	En-23
	PICTURE ADJ.*1	← → + *2 0 ← → 64			YES	YES	En-23
	UNDERSCAN	OFF ← → ON			YES	NO	En-23

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	OSM ANGLE "V"	REFERENCE
OPTION1	OSM	DISPLAY OSM	OFF ← → ON		YES	YES	En-24
		OSM ADJ.	1 ← → 6		YES	YES	En-24
		OSM ANGLE	H ← → V		YES	YES	En-24
		OSM ORBITER	OFF ← → ON		YES	YES	En-24
		OSM CONTRAST	LOW ← → NORMAL		YES	YES	En-24
		BNC INPUT	RGB ← → COMP. ← → SCART1 ← → SCART2			YES	YES
	D-SUB INPUT	RGB ← → SCART3			—	YES	En-24
	RGB SELECT	AUTO			YES	YES	En-25
	HD SELECT	1080B/1035i/1080A			NO	YES	En-25
	INPUT SKIP	OFF ← → ON			YES	YES	En-25
	ALL RESET	OFF ← → ON			—	YES	En-25

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	OSM ANGLE "V"	REFERENCE	
OPTION2	PWR. MGT.	OFF↔ON			YES	NO	En-26	
	CINEMA MODE	OFF↔ON			YES	NO	En-26	
	LONG LIFE	PLE		AUTO/LOCK 1/LOCK 2/LOCK 3		YES	NO	En-26
		ORBITER		AUTO 1		YES	NO	En-27
				AUTO 2		YES	NO	En-27
				MANUAL	H-DOT/V-LINE/TIME	YES	NO	En-27
				OFF		YES	NO	En-27
		INVERSE	OFF			YES	NO	En-27
			ON		WORKING TIME/WAITING TIME	YES	NO	En-27
			WHITE			YES	NO	En-27
		SCREEN WIPER	OFF			YES	NO	En-28
			ON		WORKING TIME/WAITING TIME/SPEED	YES	NO	En-28
		SOFT FOCUS	OFF/1/2/3/4			YES	NO	En-28
	GRAY LEVEL		0↔3↔15			YES	NO	En-28
	S1/S2		AUTO↔OFF			YES	NO	En-28
	PICTURE SIZE*3		OFF↔ON			YES	NO	En-29
DVI SET UP	PLUG/PLAY		PC↔STB/DVD		NO	NO	En-29	
	BLACK LEVEL		LOW↔HIGH		NO	NO	En-29	
PROTOCOL SET		OFF↔ON			YES	NO	En-29	
Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	OSM ANGLE "V"	REFERENCE	
OPTION3	TIMER	PRESENT TIME	SUMMER TIME	OFF↔ON	NO	NO	En-29	
			DAY/HOUR/MINUTES		NO	NO	En-29	
		TIMER	OFF		YES	NO	En-30	
				PROGRAM	DAY/ON/OFF(HOUR, MINUTES)/INPUT/FUNC.	YES	NO	En-30
				REPEAT	SINGLE/MULTI/VIDEO-W	YES	NO	En-30
	PWR. ON MODE	INPUT		LAST /MULTI/ VIDEO 1-3 / DVD/HD 1-3 / RGB 1-3	YES	NO	En-31	
		VOLUME		LAST↔0↔42	YES	NO	En-31	
	CONTROL LOCK		OFF↔ON		YES	NO	En-31	
	IR REMOTE		OFF↔ON		YES	NO	En-32	
	LOOP OUT		OFF↔ON		YES	NO	En-32	
	REMOTE ID		ALL↔1↔4		NO	NO	En-32	
	ID NUMBER		ALL↔1↔256		YES	NO	En-32	
	VIDEO WALL	DIVIDER		OFF/1/2×2/3×3/4×4/5×5/1/1×5		YES	NO	En-33
		POSITION		No.1↔No.4/No.7↔No.15/No.16↔No.31/No.32↔No.56		—	NO	En-33
		DISP. MODE		SPLIT↔BLANK		YES	NO	En-33
		AUTO ID		OFF↔ON		YES	NO	En-33
		IMAGE ADJUST		ASPECT MODE	NORMAL/FULL/STADIUM/ZOOM/2.35:1/14:9/UNDERSCAN/TRUE*3	—	NO	En-34
				V-POSITION/H-POSITION/V-HEIGHT/H-WIDTH/AUTO PICTURE/ FINE PICTURE*1/PICTURE ADJ.*1/UNDERSCAN				
		P. ON DELAY		OFF/ON/MODE1/MODE2		YES	NO	En-34
		PLE LINK		OFF↔ON		YES	NO	En-34
	Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	OSM ANGLE "V"	REFERENCE
OPTION4	SUB. PICTURE	SUB. P DETECT	OFF↔AUTO		YES	NO	En-35	
		SUB. P RATE	20%↔100%		YES	NO	En-35	
		DISPLAY	FADE↔NORMAL		YES	NO	En-35	
	ZOOM NAV	OFF↔S BY S↔BTM LFT↔BTM RGT↔TOP RGT↔TOP LFT			YES	NO	En-35	
	PIC FREEZE	OFF↔S BY S1↔S BY S2↔BTM LFT↔BTM RGT↔TOP RGT↔TOP LFT			YES	NO	En-35	
	SEAMLESS SW	OFF				YES	NO	En-36
		ON	SELECT1/SELECT2			YES	NO	En-36
	TEXT INSERT	OFF/BOTTOM-1/BOTTOM-2/BOTTOM-3/MID. LOW/MID. HIGH/TOP-3/TOP-2/TOP-1/LEFT/RIGHT				YES	NO	En-36
			INPUT/SUB. P DETECT/PICT. RATE/DISPLAY			YES	NO	En-36
	Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	OSM ANGLE "V"	REFERENCE
ADVANCED OSM		OFF↔ON			YES	NO	En-37	
LANGUAGE		ENGLISH/DEUTSCH/FRANÇAIS/ESPAÑOL/ITALIANO/SVENSKA/РУССКИЙ/ΕΛΛΗΝΙΚΑ/PORTUGUÊS/TÜRKÇE			NO	NO	En-37	
COLOR SYSTEM		AUTO/3.58 NTSC/4.43 NTSC/PAL/PAL 60/PAL-N/PAL-M/SECAM			NO	YES	En-37	
SOURCE INFORMATION		—			—	YES	En-37	

*1 Only when AUTO PICTURE is OFF.

*2 RGB only.

*3 "PICTURE SIZE" and "TRUE" are only for 50 and 60 inch types.

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

Information

Restoring the factory default settings

Select "ALL RESET" under the OPTION1 menu. Note that this also restores other settings to the factory defaults.

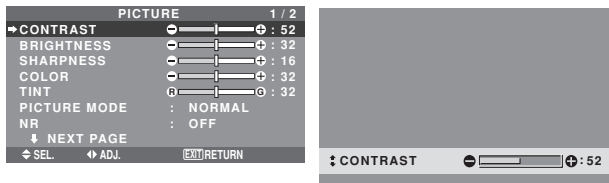
Picture Settings Menu

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

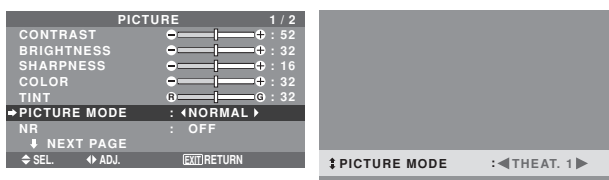
Select "DEFAULT" under the "PICTURE MODE" settings.

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 "THEAT. 1" mode

On "PICTURE MODE" of "PICTURE" menu, select "THEAT. 1".



Information

Types of picture modes

THEAT. 1, 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 THEAT. 2.

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.

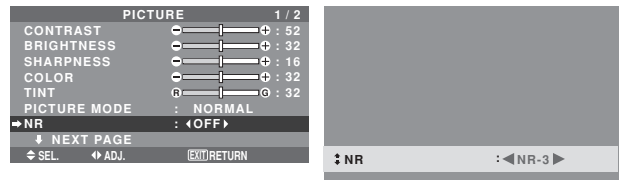
DEFAULT: Use this to reset the picture to the factory default settings.

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).

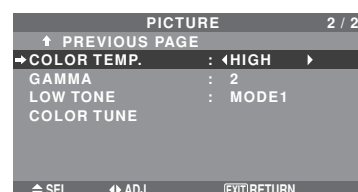
OFF: Turns the noise reduction function off.

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

MID LOW: Slightly red

MID: 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.

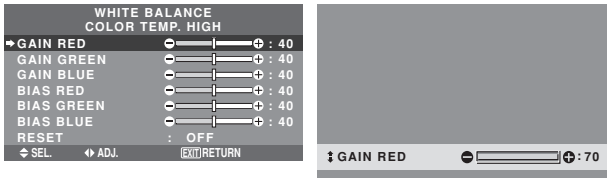
Example: Adjusting the “GAIN RED” of “HIGH” color temperature

Set “ADVANCED OSM” to “ON” in the MAIN MENU.

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.

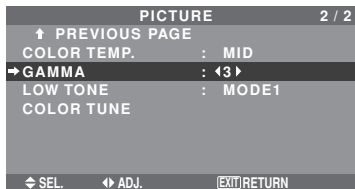
Changing the Gamma Curve

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

Example: Setting “3”

Set “ADVANCED OSM” to “ON” in the MAIN MENU.

On “GAMMA” of “PICTURE” menu, select “3”.



Information

■ GAMMA settings

The picture becomes darker as the number increases (in the sequence of 1, 2, 3, 4).

Making the Low Tone adjustments

You can select the tone reproduction from 2 modes.

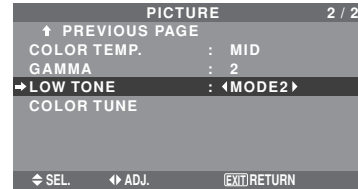
This function is effective especially for dark images.

* This function is available only for 50 inch type.

Example: Setting “MODE2”

Set “ADVANCED OSM” to “ON” in the MAIN MENU.

On “LOW TONE” of “PICTURE” menu, select “MODE2”.



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.

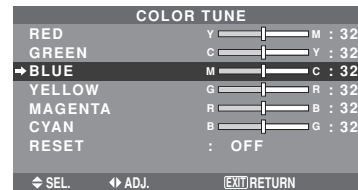
Example: Adjusting the color tune for blue

Set “ADVANCED OSM” to “ON” in the MAIN MENU.

On “COLOR TUNE” 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.

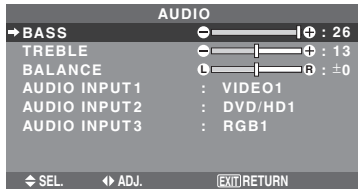
Audio Settings Menu

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.

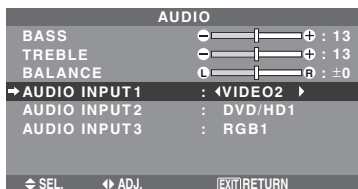
Setting the allocation of the audio connectors

Setting the AUDIO 1, 2, and 3 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

■ AUDIO INPUT

A single audio input cannot be selected as the audio 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

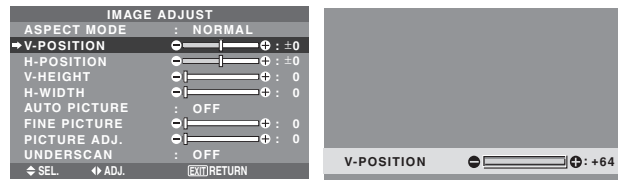
On "V-POSITION" of "IMAGE ADJUST" menu, adjust the position.

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

NORMAL ↔ **FULL**

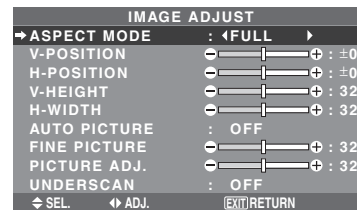
* The mode can also be switched by pressing the WIDE button on the remote control.

* 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 RGB signals.

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

■ Setting the Underscan

Set "ADVANCED OSM" to "ON" in the MAIN MENU.

ON: UNDERSCAN can be selected in ASPECT MODE.

OFF: UNDERSCAN cannot be selected in ASPECT MODE.

* Selectable only when video signal is input.

Option 1 Settings Menu

Setting the on-screen menu

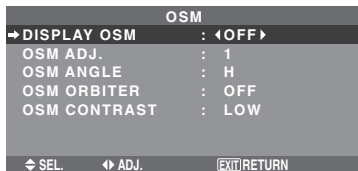
This sets the position of the menu, the display format (horizontal or vertical) etc.

Example: Turning the DISPLAY OSM off

On "OPTION1" menu, select "OSM", then press the MENU/ENTER button.

The "OSM" menu appears.

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



Information

■ DISPLAY OSM settings

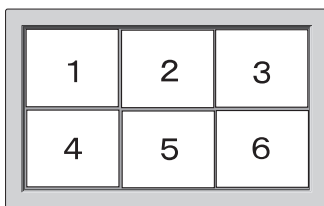
ON: The informations on screen size, volume control, etc. will be shown.

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

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

■ OSM ADJUST settings

Adjusts the position of the menu when it appears on the screen. The position can be set between 1 to 6.



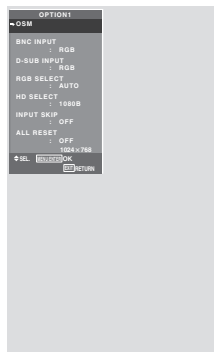
■ OSM ANGLE settings

Sets the display format (landscape "H" or portrait "V"). When the unit is installed vertically set the OSM ANGLE at "V".

"H"



"V"



* The menu language for "V" is English only.

* Some menu items including LONG LIFE mode will not be displayed with "V", but can be performed by setting with "H" (See pages 19 and 20 for the menu items that can be displayed with "V").

■ 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 settings

NORMAL: OSM brightness is set to normal.

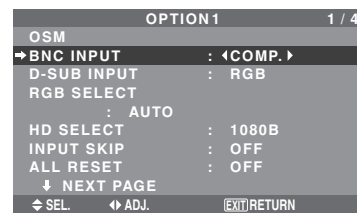
LOW: OSM brightness is set to lower.

Setting the BNC input connector type

Select whether to set the input of the 5 BNC connectors to RGB, Component or SCART1,2.

Example: Set the "BNC INPUT" mode to "COMP."

On "BNC INPUT" of "OPTION1" menu, select "COMP."



Information

■ BNC INPUT Settings

RGB: Use the 5BNC terminals for RGB input.

COMP.: Use the 3BNC terminals for component input.

SCART1: Use the 4BNC terminals for RGB with composite sync. See page En-9.

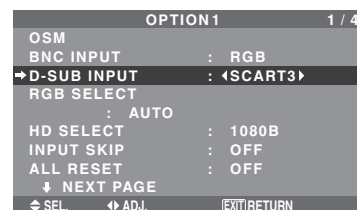
SCART2: Use the 3BNC terminals for RGB and the VIDEO1 terminal for composite sync. See page En-9.

Setting the RGB1 connector

Select one of the signals being transmitted to the RGB1 terminal.

Example: Set the "D-SUB INPUT" mode to "SCART3"

On "D-SUB INPUT" of "OPTION1" menu, select "SCART3".



Information

■ D-SUB INPUT Settings

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

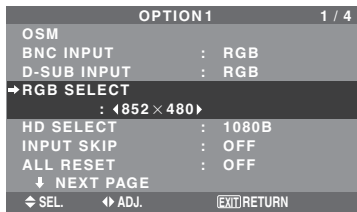
SCART3: Use the D-SUB terminal for RGB signal fed from SCART. See page En-9.

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”

On “RGB SELECT” of “OPTION1” menu, select “852×480”.



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-41.

The others: The available resolutions are shown.

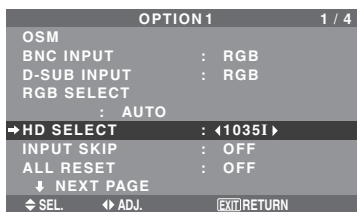
See page En-41 for the details of the above settings.

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 1035 or 1080.

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

On “HD SELECT” of “OPTION1” menu, select “1035I”.



Information

■ HD SELECT modes

These 3 modes are not displayed in correct image automatically.

1080B: Standard digital broadcasts

1035I: Japanese “High Vision” signal format

1080A: Special Digital broadcasts (for example : DTC100)

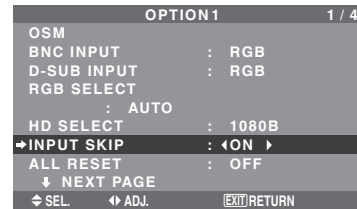
Setting the Input Skip

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 SELECT button on the unit.

Example: Set to “ON”

On “INPUT SKIP” of “OPTION1” menu, select “ON”.



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.

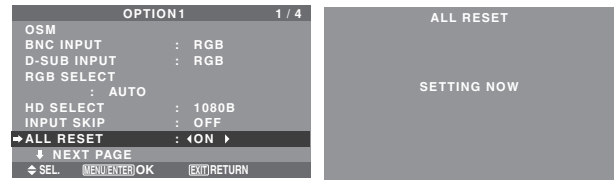
* “SETTING NOW” will appear during the input search.

Resetting to the default values

Use these operations to restore all the settings (PICTURE, AUDIO, IMAGE ADJUST, OPTION1~4, etc.) to the factory default values.

Refer to page En-19 for items to be reset.

On “ALL RESET” of “OPTION1” menu, select “ON”, then press the MENU/ENTER button.



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

Option2 Settings Menu

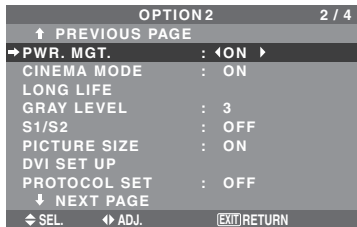
Set "ADVANCED OSM" to "ON" in the MAIN MENU.

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

On "PWR. MGT." of "OPTION2" menu, select "ON".



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 POWER/STANDBY indicator

The POWER/STANDBY indicator indicates the status of the power management function. See below for indicator status and description.

POWER/STANDBY indicator

Power management mode	POWER/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.

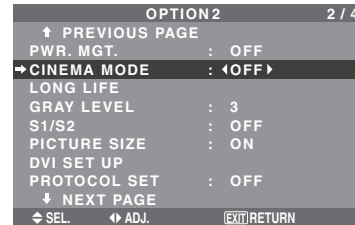
Setting the picture to suit the movie

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 "OPTION2" menu, select "OFF".



Information

■ CINEMA MODE

ON: Automatic discrimination of the image and projection in cinema mode.

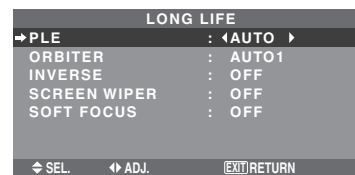
OFF: Cinema mode does not function.

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.

On "OPTION2" menu, select "LONG LIFE", then press the MENU/ENTER button.

The "LONG LIFE" screen appears.

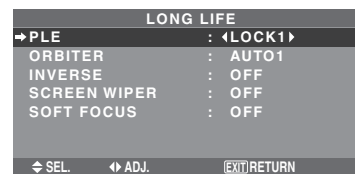


PLE (Peak Luminance Enhancement)

Use this to activate the brightness limiter.

Example: Setting "PLE" to "LOCK1"

On "PLE" of "LONG LIFE" menu, select "LOCK1".



Information

■ PLE settings

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

LOCK1, 2, 3: Sets maximum brightness.

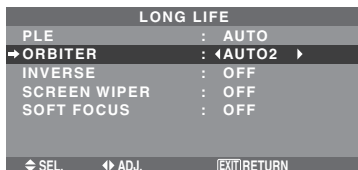
The brightness level decreases in the order of LOCK 1, 2, 3. LOCK 3 provides minimum brightness.

ORBITER

Use this to set the picture shift.

Example: Setting "ORBITER" to "AUTO2"

On "ORBITER" of "LONG LIFE" menu, select "AUTO2".



Information

■ ORBITER settings

OFF: Orbiter mode does not function.

This is the default setting when 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/DTV signal is input. Set to "OFF" when these signals are not used.

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

MANUAL: User can adjust the orbiter function (Horizontal Dot, Vertical Line and Time) manually.

See the following explanation.

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

Adjust the ORBITER function manually

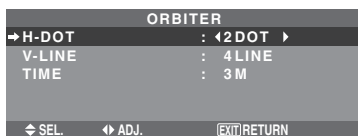
Set the amount of shift and the time between movement.

Example: Setting so that the picture moves 2 dots horizontally and 4 lines vertically every 3 minutes.

On "ORBITER" of "LONG LIFE" menu, select "MANUAL", then press the MENU/ENTER button.

THE "ORBITER" screen appears.

Adjust the items.



Information

■ ORBITER Function settings

H-DOT: Moves from 1 dot to 20 dots in the horizontal direction.

V-LINE: Moves from 1 line to 20 lines in the vertical direction.

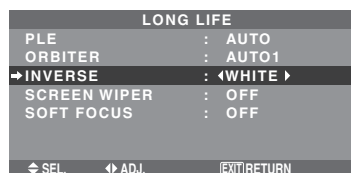
TIME: Interval of 1 minute to 5 minutes (1 horizontal dot or 1 vertical line per interval).

INVERSE

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

Example: Setting "INVERSE" to "WHITE"

On "INVERSE" of "LONG LIFE" menu, select "WHITE".



Information

■ INVERSE Settings

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

You can set the time by pressing the MENU/ENTER button while "ON" is set.

OFF: Inverse mode does not function.

WHITE: The entire screen turns white.

You can set the time by pressing the MENU/ENTER button while "ON" is set.

Setting the time for INVERSE/WHITE

Set a time duration.

Example: Setting to that the INVERSE mode starts in 2 hours and proceeds for one hour and a half.

On "INVERSE" of "LONG LIFE" menu, select "ON", then press the MENU/ENTER button.

THE "INVERSE/WHITE" screen appears.

Adjust the times.



Information

■ Setting the time

WORKING TIME: Set the time duration for "INVERSE/WHITE".

When the WORKING TIME is set to "ON" the mode will stay on.

WAITING TIME: Set the standby time until the "INVERSE/WHITE" mode starts.

* The "WAITING TIME" can not be set when the "WORKING TIME" is ON.

* THE "WORKING TIME" and "WAITING TIME" can be set for up to 12 hours and 45 minutes in units of 3 minutes.

* Ending a WORKING TIME function, the monitor will go to STANDBY.

[Example]

WORKING TIME: 01H30M

WAITING TIME: 02H00M

←----- 2 H -----*----- 1.5 H -----*-----
Start INVERSE/WHITE Start STANDBY

■ To select "ON" for the "WORKING TIME"...

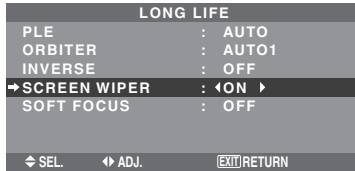
Set the hours of the working time to 0H and the minutes to 0M. "ON" will be displayed.

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 "LONG LIFE" menu, select "ON".



Information

■ SCREEN WIPER

ON: The white vertical bar appears.

You can set the time by pressing the MENU/ENTER button while "ON" is set.

OFF: Screen wiper mode does not function.

Setting the time for SCREEN WIPER

Set a time duration and the speed.

Example: Setting so that the SCREEN WIPER mode starts in 30 minutes and proceeds for one and a half hours.

On "SCREEN WIPER" of "LONG LIFE" menu, select "ON", then press the MENU/ENTER button.

THE "SCREEN WIPER" screen appears.

Adjust the times and speed.



Information

■ Setting the time

WORKING TIME: Set the time duration for "SCREEN WIPER".

When the WORKING TIME is set to "ON" the mode will stay on.

WAITING TIME: Set the standby time until the "SCREEN WIPER" mode starts.

SPEED: Set the moving speed for the "SCREEN WIPER". The speed decreases as the number increases.

* The "WAITING TIME" can not be set when the "WORKING TIME" is ON.

* THE "WORKING TIME" and "WAITING TIME" can be set for up to 12 hours and 45 minutes in units of 3 minutes.

■ To select "ON" for the "WORKING TIME"...

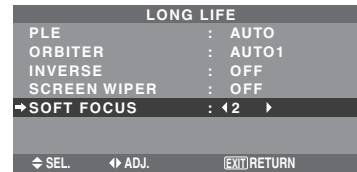
Set the hours of the working time to 0H and the minutes to 0M. "ON" will be displayed.

SOFT FOCUS

Reduces edges and softens the image.

Example: Setting "SOFT FOCUS" to "2"

On "SOFT FOCUS" of "LONG LIFE" menu, select "2".



Information

■ SOFT FOCUS settings

OFF: Turns the SOFT FOCUS function off.

1, 2, 3, 4: Activates the SOFT FOCUS setting. The higher numbers create a softer image.

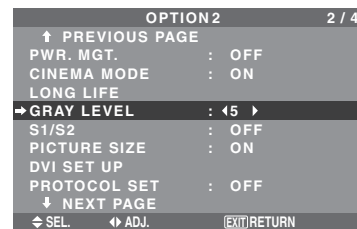
"SHARPNESS" can not be adjusted in the "PICTURE" menu.

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"

On "GRAY LEVEL" of "OPTION2" menu, select "5".



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).

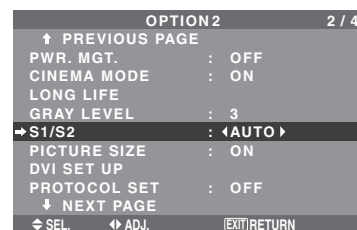
Setting the screen size for S1/S2 video input

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 VIDEO3 terminal.

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

On "S1/S2" of "OPTION2" menu, select "AUTO".



Information

■ S1/S2 settings

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

OFF: Turns the S1/S2 function off.

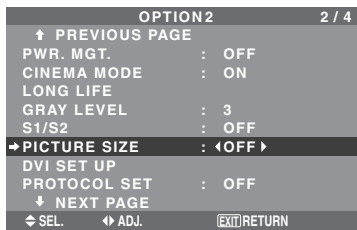
Setting the picture size for RGB input signals

Use this procedure to switch the setting to "ON" or "OFF".

* This function is available only for 50 and 60 inch types.

Example: Setting the "PICTURE SIZE" mode to "OFF"

On "PICTURE SIZE" of "OPTION2" menu, select "OFF".



Setting the signal and black level for DVI signal

Choose the signal for the DVI connector (PC or STB/ DVD) and set the black level.

Example: Setting the "PLUG/PLAY" mode to "STB/ DVD"

On "OPTION2" menu, select "DVI SET UP", then press the MENU/ENTER button.

The "DVI SET UP" screen appears.

On "PLUG/PLAY" of "DVI SET UP" menu, select "STB/ DVD".



Information

■ PLUG/PLAY settings

PC: When connected to the PC signal.

BLACK LEVEL is set to "LOW" automatically.

STB/DVD: When connected to the SET TOP BOX, DVD etc.

BLACK LEVEL is set to "HIGH" automatically.

■ BLACK LEVEL settings

LOW: When connected to the PC signal.

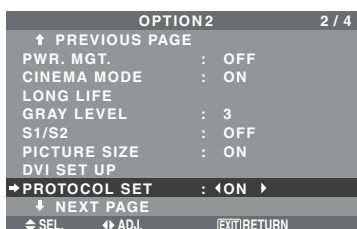
HIGH: When connected to the SET TOP BOX, DVD etc. Change "HIGH" into "LOW" if the black level appears gray.

Setting the Protocol set

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

Example: Setting "ON"

On "PROTOCOL SET" of "OPTION2" menu, select "ON".



Information

■ PROTOCOL SET settings

ON: When special protocol is used.

OFF: When NEC protocol is used (normal).

* Consult your dealer for details of protocol.

Option3 Settings Menu

Set "ADVANCED OSM" to "ON" in the MAIN MENU.

Using the timer

This function sets the day of the week and time. You can also set the program timer which turns on or off the power at the day of the week, time and the input mode you want, or repeat timer which displays two input modes alternately.

On "OPTION3" menu, select "TIMER", then press the MENU/ENTER button.

The "TIMER" screen appears.



PRESENT TIME

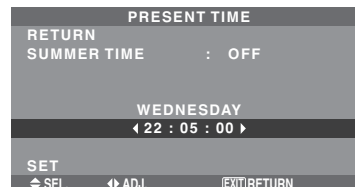
This sets the day of the week and present time.

Example: Setting "WEDNESDAY", "22:05"

On "TIMER" menu, select "PRESENT TIME", then press the MENU/ENTER button.

The "PRESENT TIME" screen appears.

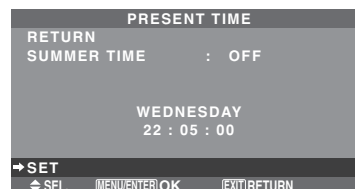
Adjust the items.



Select "SET", then press the MENU/ENTER button.

The adjustments are stored and the TIMER menu reappears.

* If you press the EXIT button instead of the MENU/ENTER button, the settings can not be made.



Information

■ PRESENT TIME settings

SUMMER TIME: Use to set SUMMER TIME.

ON: The present time + 1 hour.

OFF: Cancelled

Day: Set the day of the week (e.g. Sunday).

Hour: Set the hour in the 24-hour format (range 00 to 23).

Minutes: Set the minutes (range 00 to 59).

PROGRAM TIMER

This sets the day and time at which the power will be switched ON/OFF as well as the input mode.

Example 1: Setting so that the power will be switched on at 8:30 A.M., Monday, displaying RGB2 source, and switched off at 10:30 A.M.

On "TIMER" menu, select "PROGRAM", then press the MENU/ENTER button.

The "PROGRAM TIMER" screen appears.

Adjust the items.

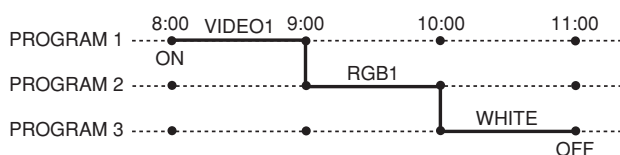
Use the ▲▼ and ◀▶ buttons to move the cursor.

Each mode switches each time the ZOOM +/- button is pressed.

Depending on the selected INPUT or FUNC., press the MENU/ENTER button to make advanced settings.

PROGRAM TIMER				
DAY	ON	OFF	INPUT	FUNC.
1 MON	08 : 30	10 : 30	RGB2	INV.
2	- - : - -	- - : - -	-	-
3	- - : - -	- - : - -	-	-
4	- - : - -	- - : - -	-	-
5	- - : - -	- - : - -	-	-
6	- - : - -	- - : - -	-	-
7	- - : - -	- - : - -	-	-
8	- - : - -	- - : - -	-	-
9	- - : - -	- - : - -	-	-
10	- - : - -	- - : - -	-	-

Example 2: Setting so that the power will be switched on at 8:00 A.M., Monday, displaying the VIDEO1 input, display the RGB1 input at 9:00 A.M., display in WHITE at 10:00 A.M., then switched off at 11:00 A.M.



PROGRAM TIMER				
DAY	ON	OFF	INPUT	FUNC.
1 MON	08 : 00	- - : - -	VIDEO1	-
2 MON	09 : 00	- - : - -	RGB1	-
3 MON	10 : 00	11 : 00	-	WHITE
4	- - : - -	- - : - -	-	-

* To perform a continuous program, set the OFF time only for the last item.

Information

PROGRAM TIMER settings

DAY: Set the day of the week (e.g. Sunday).

ON (hour, minutes): Set the time at which the power will be turned on in the 24-hour format.

OFF (hour, minutes): Set the time at which the power will be turned off in the 24-hour format.

INPUT: Set the input mode that will be displayed when the power is turned on from "VIDEO1~3", "DVD1~2", "RGB1~3" and "MULTI".

FUNC.: Set the function that will be activated after the power is turned on from "ORB.", "INV.", "WHITE", "WIPER" and "REP.1~3".

"REP.1~3" cannot be selected when INPUT is set.

To reset the program

Align the cursor with the DAY field that you wish to reset, then press the CLEAR/SEAMLESS SW button.

To reset the data

Align the cursor with the field (ON/OFF/INPUT/FUNC.) that you wish to reset, then press the CLEAR/SEAMLESS SW button.

Special characters in the PROGRAM TIMER screen

When the setting item includes gray indication, it does not function under the timer's setting.

PROGRAM TIMER				
DAY	ON	OFF	INPUT	FUNC.
1 MON	08 : 30	10 : 30	RGB2	INV.
2 TUE	- - : - -	18 : 15	-	-
3 SAT	08 : 30	12 : 15	VIDEO1	WHITE
4 *FRI	08 : 30	10 : 00	DVD1	-
5	- - : - -	- - : - -	-	-
6 SAT	08 : 30	12 : 15	-	REP.1
7 *	15 : 30	16 : 00	RGB1	-
8	- - : - -	- - : - -	-	-

An asterisk "*" in the DAY field

An asterisk "*" means "every" or "everyday". For example, "*FRI" means "every Friday". If you enter "*" only, it means "everyday".

A hyphen "-" in the ON field or OFF field

You have to set at least the ON field or OFF field to activate the program timer.

A hyphen "-" in the INPUT and FUNC. field

A hyphen "-" in the INPUT field means the last mode. When you set "REP.1~3" in the FUNC. field, the INPUT field is set to "-".

To set MULTI INPUT

Set the INPUT field 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 "SINGLE", "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 "VIDEO1~3", "DVD1~2" and "RGB1~3".

PICTURE IN PICTURE

PROGRAM TIMER	
MULTI SCREEN SETTING	
MULTI MODE	: ◀BOTTOM LEFT▶
INPUT MODE	
MAIN	: RGB1
SUB	: VIDEO1

SIDE BY SIDE

PROGRAM TIMER	
MULTI SCREEN SETTING	
MULTI MODE	: ◀SIDE BY SIDE1▶
INPUT MODE	
LEFT	: RGB1
RIGHT	: VIDEO1

To set "REP.1~3" to the FUNC.

Set the function to "REP.1", "REP.2" or "REP.3", then press the MENU/ENTER button.

The "REPEAT TIMER" screen will appear on the screen.

Use the ◀ and ▶ buttons to choose from "SINGLE", "MULTI" and "VIDEO-W", then adjust the items.

When you set FUNC. to "REP.1", "REP.2" or "REP.3", you can set "SINGLE", "MULTI" and "VIDEO-W". However, only one of these works depending on the settings of AUTO ID and DIVIDER. See "REPEAT TIMER" on page En-30 for details for the above settings.

REPEAT TIMER

This function enables you to display 2 input modes at the set time alternately.

Example: Setting to display "VIDEO1" for 10 minutes and "DVD1" for 15 minutes alternately.

On "TIMER" menu, select "REPEAT", then press the MENU/ENTER button.

The "REPEAT TIMER" screen appears.

Adjust the items.

Use the ◀ and ▶ buttons to select "SINGLE".

Use the ▲ and ▼ buttons to select the item, then press the ◀ and ▶ buttons to set.

REPEAT TIMER	
REPEAT TIMER	: SINGLE
1 WORK TIME	: 00H10M
INPUT MODE	: VIDEO1
→ 2 WORK TIME	: ◀00H15M▶
INPUT MODE	: DVD1
◀ SEL.	▶ ADJ. [EXIT] RETURN

Information

REPEAT TIMER function

- * The two repeat timers run consecutively, i.e., Timer 1-Timer 2-Timer1-Timer2.
- * This becomes effective when the on-screen menu goes out.

SINGLE settings

WORK TIME: Set the time duration of the display. Time range is from 1 minute to 24 hours.

INPUT MODE: Set the signal that will be displayed.
* Set the DIVIDER "OFF" and ID NUMBER "ALL" before the operation.

MULTI settings

MODE: Select the input mode to be displayed from "SINGLE", "S BY S1~3" and "PICTURE IN PICTURE (BTM LFT~TOP LFT)".

WORK TIME: Set the time duration of the display. Time range is from 1 minute to 24 hours.

INPUT MODE: Set the signal that will be displayed. Select "MAIN" or "SUB" for "PICTURE IN PICTURE (BTM LFT~TOP LFT)" and "LEFT" or "RIGHT" for "S BY S1~3".

Only one signal is selected for "SINGLE".

REPEAT TIMER	
REPEAT TIMER	: MULTI
→ 1 MODE	: ◀BTM LFT▶
WORK TIME	: 04H00M
INPUT MODE	
MAIN	: RGB1
SUB	: VIDEO1
2 MODE	: S BY S1
WORK TIME	: 02H30M
INPUT MODE	
LEFT	: RGB3
RIGHT	: DVD1
◀ SEL.	▶ ADJ. [EXIT] RETURN

- * Set the DIVIDER "OFF" and ID NUMBER "ALL" before the operation.

VIDEO WALL settings

DIVIDER: Divide the screens into 1, 2×2 or 3×3 sections.

WORK TIME: Set the time duration of the display.

Time range is from 1 minute to 24 hours.

INPUT MODE: Set the signal that will be displayed.

- * Turn on the AUTO ID and set the DIVIDER (at 1, 2×2 or 3×3) before the operations.

- * In the case of Video Wall, timer No.1 can be used to control all the displays simultaneously.

REPEAT TIMER	
REPEAT TIMER	: VIDEO WALL
1 DIVIDER	: 1
WORK TIME	: 00H03M
INPUT MODE	: VIDEO1
2 DIVIDER	: 2×2
→ WORK TIME	: ◀00H06M▶
INPUT MODE	: RGB1
◀ SEL.	▶ ADJ. [EXIT] RETURN

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"

On "OPTION3" 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	: LAST
◀ 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, 3: VIDEO input mode.

RGB1, 2, 3: RGB input mode.

DVD/HD1, 2: DVD/HD input mode.

DVD/HD2, 3: DVD input mode.

MULTI: Multi screen mode.

Follow the procedure used for PROGRAM TIMER. See page En-30.

PICTURE IN PICTURE

PWR. ON MODE MULTI SCREEN SETTING	
→ MULTI MODE	: ◀BOTTOM LEFT▶
INPUT MODE	
MAIN	: DVD/HD1
SUB	: VIDEO1
◀ SEL.	▶ ADJ. [EXIT] RETURN

SIDE BY SIDE

PWR. ON MODE MULTI SCREEN SETTING	
→ MULTI MODE	: ◀SIDE BY SIDE1▶
INPUT MODE	
LEFT	: DVD/HD1
RIGHT	: VIDEO1
◀ 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.

Enabling/disabling the front panel controls

This function enables/disables the front panel controls.

Example: Setting "ON"

On "CONTROL LOCK" of "OPTION3" menu, select "ON", then press the MENU/ENTER button.

OPTION3		3 / 4
↑ PREVIOUS PAGE		
TIMER		
PWR. ON MODE		
→ CONTROL LOCK	: ◀ON▶	
IR REMOTE	: ON	
LOOP OUT	: OFF	
REMOTE ID	: ALL	
ID NUMBER	: ALL	
VIDEO WALL		
↓ NEXT PAGE		
◀ SEL.	▶ ADJ. [EXIT] RETURN	

Information

CONTROL LOCK settings

ON: Disables the buttons on the front panel.

OFF: Enables the buttons on the front panel.

- * Even when the CONTROL LOCK is set, the POWER switch will not be locked.

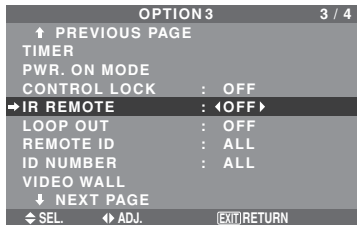
- * This becomes effective when the on-screen menu goes out.

Enabling/disabling remote control wireless transmission

This function enables/disables remote control wireless transmission.

Example: Setting "OFF"

On "IR REMOTE" of "OPTION3" menu, select "OFF", then press the MENU/ENTER button.



Information

■ IR REMOTE settings

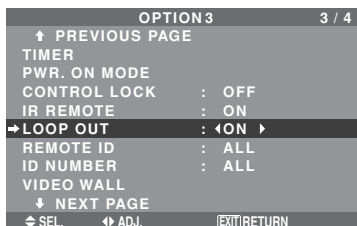
ON: Enables remote control wireless transmission.
 OFF: Disables remote control wireless transmission.
 Set "OFF" to avoid unwanted control from other remote controls.

Loop Out setting

When this feature is set to ON, the received signal will be looped out.

Example: Setting "ON"

On "LOOP OUT" of "OPTION3" menu, select "ON".



Information

■ LOOP OUT settings

ON: The received signal will be looped out via RGB1 terminal or VIDEO1 terminal.
 OFF: The received signal will not loop out.

* Even if LOOP OUT is ON, signals won't be sent out if POWER is being turned off.

■ To connect another display...

See page En-6.

■ If the RGB/PC1 signal is present at the time the power switched on...

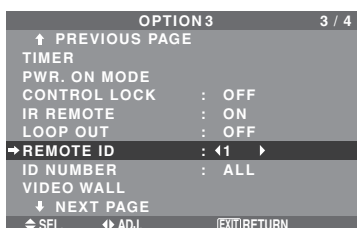
The RGB1 input will be displayed regardless of the setting of LOOP OUT.

REMOTE ID setting

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

Example: Setting to "1"

On the "REMOTE ID" of "OPTION3" menu, select "1".



- 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

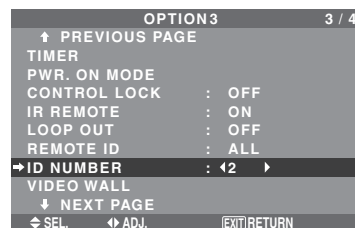
ALL: The remote code is not set.
 1 to 4: The specified remote code is applied.

ID number setting

When using more than one of these displays, this function sets ID numbers so that operation of the remote control does not cause multiple monitors to operate at the same time.

Example: Setting "2"

On "ID NUMBER" of "OPTION3" menu, select "2".



* To reset back to ALL

Press the CLEAR/SEAMLESS SW button

Information

■ ID NUMBER settings

ALL: ID NUMBER will not be set.
 1 to 256: ID NUMBER will be set.

■ When the ID NUMBER have been set

You can also set ID NUMBER for each remote control to operate the plasma display individually. To do so, see the following explanation.

To set the ID number for the remote control

Example: Setting "2"

Press the ID SELECT button on the remote control.

The "ID SELECT" screen appears.

On "ID NUMBER" of "ID SELECT" menu, select "2".



* To reset back to ALL

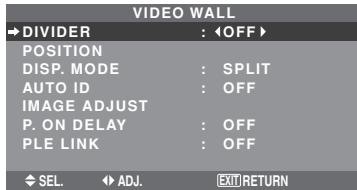
Press the CLEAR/SEAMLESS SW button

Video Wall setting

Use this feature to configure a (2×2, 3×3, 4×4, 5×5, 5×1, 1×5) video wall.

On “OPTION3” menu, select “VIDEO WALL”, then press the MENU/ENTER button.

The “VIDEO WALL” screen appears.



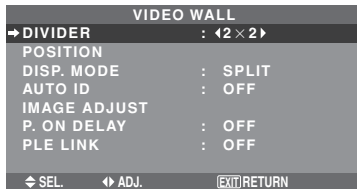
Note: A contingency method of shutting off the electric power should be used in cases of emergency during video wall setup.

DIVIDER

Set the video wall.

Example: Setting “2×2”

On “DIVIDER” of “VIDEO WALL” menu, select “2×2”.



Information

■ DIVIDER settings

OFF, 1: 1 Screen (Matrix display function does not work)

2×2: 4 Screens

3×3: 9 Screens

4×4: 16 Screens

5×5: 25 Screens

5×1: 5 Screens horizontally

1×5: 5 Screens vertically

* When you select 2×2, 3×3, 4×4, 5×5, 5×1, 1×5, set the VIDEO WALL POSITION.

VIDEO WALL POSITION

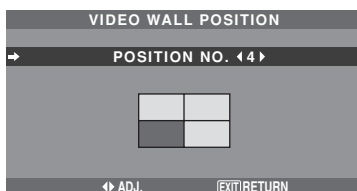
Set the position of each display.

Example: Setting “4”

On “VIDEO WALL” menu, select “POSITION”, then press the MENU/ENTER button.

The “VIDEO WALL POSITION” screen appears.

Select “4” of “POSITION NO.”.



Information

■ VIDEO WALL POSITION settings

1 Screen: There is no need to set POSITION.

2×2 Screens

NO. 1	NO. 2
NO. 4	NO. 3

3×3 Screens

NO. 7	NO. 8	NO. 9
NO. 10	NO. 11	NO. 12
NO. 13	NO. 14	NO. 15

4×4 Screens

NO. 16	NO. 17	NO. 18	NO. 19
NO. 20	NO. 21	NO. 22	NO. 23
NO. 24	NO. 25	NO. 26	NO. 27
NO. 28	NO. 29	NO. 30	NO. 31

5×5 Screens

NO. 32	NO. 33	NO. 34	NO. 35	NO. 36
NO. 37	NO. 38	NO. 39	NO. 40	NO. 41
NO. 42	NO. 43	NO. 44	NO. 45	NO. 46
NO. 47	NO. 48	NO. 49	NO. 50	NO. 51
NO. 52	NO. 53	NO. 54	NO. 55	NO. 56

5×1 Screens

NO. 1	NO. 2	NO. 3	NO. 4	NO. 5
-------	-------	-------	-------	-------

1×5 Screens

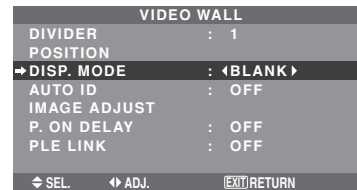
NO. 1
NO. 2
NO. 3
NO. 4
NO. 5

DISP. MODE

Select the screen mode between two choices (Splitting, Blanking).

Example: Setting “BLANK”

On “DISP. MODE” of “VIDEO WALL” menu, select “BLANK”.



Information

■ DISP. MODE settings

SPLIT: Combines enlarged screens and creates multiple screens.

BLANK: Corrects misalignment of combined screen portions and creates multiple screens.

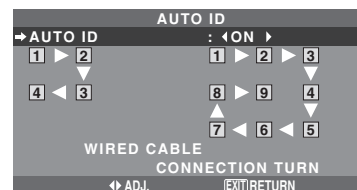
AUTO ID

This feature automatically sets the ID numbers of multiple displays connected to each other.

Example: Setting “ON”

Set the ID number for the No. 1 display on ID NUMBER menu.

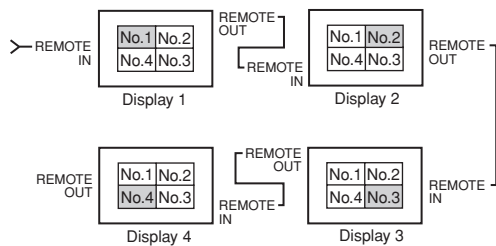
On “AUTO ID” of “VIDEO WALL” menu, select “ON”, then press the MENU/ENTER button.



Information

AUTO ID settings

ON: Enables Auto ID function. In the case shown below, display 1 will be set as ID 1, display 2 as ID2, etc. This can be set only when a 2×2, 3×3, 1×5 or 5×1 is selected.



OFF: Disables Auto ID function.

Note: To use this function, you have to connect the displays with the remote cable (not supplied).

IMAGE ADJUST

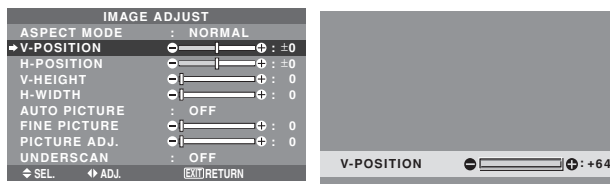
The position of the image can be adjusted and flickering of the image can be corrected.

Example: Adjusting the vertical position

On "VIDEO WALL" menu, select "IMAGE ADJUST", then press the MENU/ENTER button.

The "IMAGE ADJUST" screen appears.

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



Information

IMAGE ADJUST settings

These are the same functions as the IMAGE ADJUST menu on page En-23.

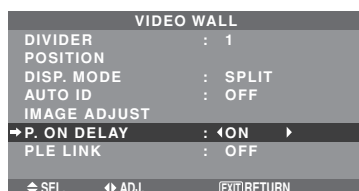
P. ON DELAY (Power on delay)

Use this function to activate power-on delay.

Turn on the AUTO ID before the following operations.

Example: Setting "ON"

On "P. ON DELAY" of "VIDEO WALL" menu, select "ON".



Information

P. ON DELAY settings

(Video wall modes other than 4×4 and 5×5)

ON: Turns on the main power of each display after a delay time.

* Once this function has been set to "ON", POWER ON/OFF button on the remote control does not function except for the No.1 monitor.

By pressing the POWER ON button on the remote

control the No.1 monitor will turn on and the others will be turned on one by one automatically.

* From the second monitor onward, neither the POWER button on the unit nor the POWER ON button on the remote control works. However, by pressing and holding the POWER ON button for more than 3 seconds, the monitor will be turned on.

OFF: Turns on the main power of all displays at the same time.

(Only for 4×4 and 5×5 video wall modes)

MODE1: Turns on the main power of each display delayed.

MODE2: Turns on the main power of each display more delayed.

OFF: Turns on the main power of all displays at the same time.

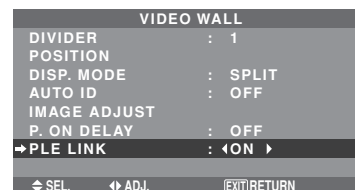
Note: To use this function, you have to connect the displays with the remote cable (not supplied).

PLE LINK

Use this function to set a uniform brightness for each display. Turn on the AUTO ID and set the DIVIDER (at 1, 2×2, 3×3, 1×5 or 5×1) before the following operations.

Example: Setting "ON"

On "PLE LINK" of "VIDEO WALL" menu, select "ON", then press the MENU/ENTER button.



Information

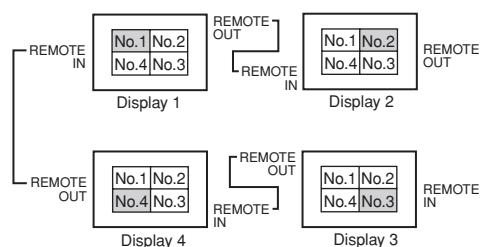
PLE LINK settings

ON: Sets a uniform brightness for each screen in a video wall. This can be set only when a 1, 2×2, 3×3, 1×5 or 5×1 video wall is selected.

OFF: Sets the individual screen brightness for each screen in a video wall.

* When this function is set "ON", connect your plasma displays with the remote cable (optional) in the order of the position numbers for the 2×2 video wall. See the drawing below.

* If there are changes in the DIVIDER or POSITION, the PLE LINK will automatically turn OFF.



* With the 3×3, 1×5 or 5×1 video wall, connect the final display to the first display the same way as with 2×2 video wall.

Note:

* The remote control can be operated unless the IR REMOTE is set to "OFF".

* To use this function, you have to connect the displays with the remote cable (not supplied).

Option4 Settings Menu

Set "ADVANCED OSM" to "ON" in the MAIN MENU.

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

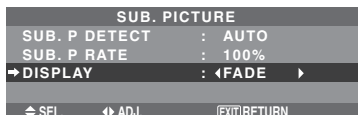
This function automatically removes the black frame of the sub screen when there is no sub screen input signal. This feature is available only when the picture-in-picture mode is selected.

Example: Setting "DISPLAY" to "FADE"

On "SUB. PICTURE" of "OPTION4" menu, press the MENU/ENTER button.

The "SUB. PICTURE" screen appears.

Adjust the items.



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, PIC FREEZE, and SEAMLESS SW functions will not work. The WIDE button will not function either.

■ SUB. P DETECT setting

AUTO: Black frame with no signal input disappears 3 seconds after the input signal is lost.

OFF: Black frame with no signal input is displayed consistently.

■ SUB. P RATE setting

Set the transparency of the sub screen.

■ DISPLAY setting

NORMAL: The sub screen is displayed consistently.

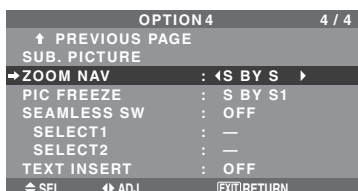
FADE: The sub screen fades in.

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"

On "ZOOM NAV" of "OPTION4" menu, select "S BY S".



Information

■ ZOOM NAV Function

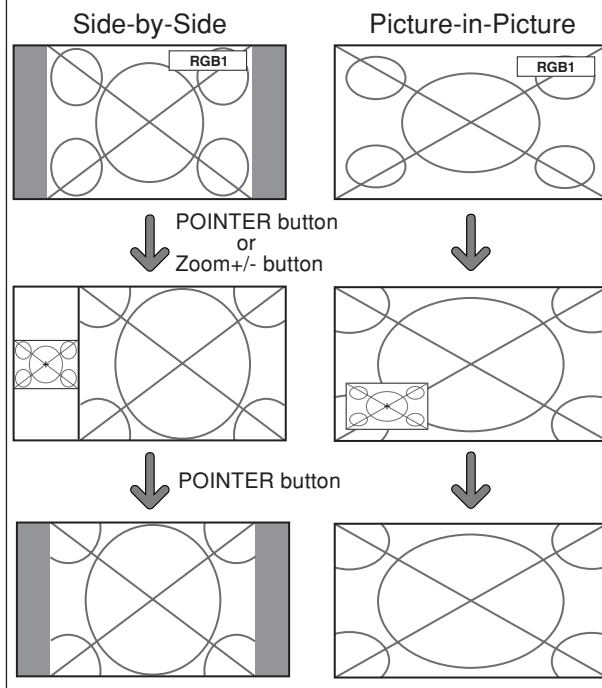
- * This feature does not function during split screen mode.
- * This feature does not function while PIC FREEZE is operating.
- * Providing a 2-screen display will cancel this function.

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

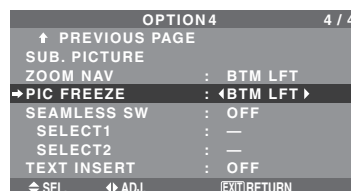


Displaying still images in the sub screen

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

Example: Setting "PIC FREEZE" to "BTM LFT"

On "PIC FREEZE" of "OPTION4" menu, select "BTM LFT".



Information

■ PIC FREEZE Function

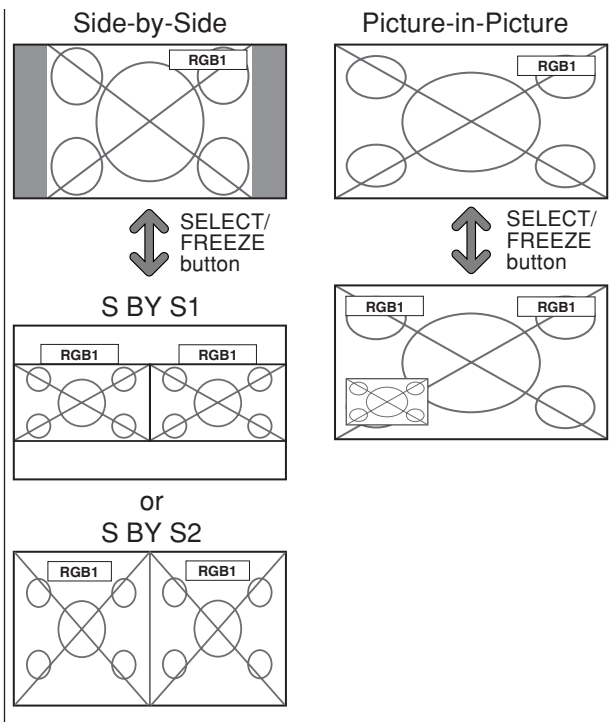
- * This feature does not function during split screen mode.
- * Digital zoom is not available while this function is operating.
- * A further press of the SELECT/FREEZE button while this function is operating will cancel this function.
- * Providing a 2-screen display will cancel this function.

■ PIC FREEZE settings

OFF: Will not show the still image.

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

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

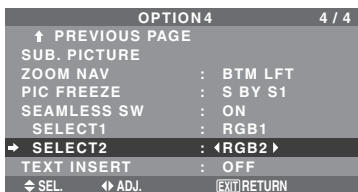


Switching the input source quickly

This feature enables quick input selection. After setting ON, press the CLEAR/SEAMLESS SW button for quick switching between the two selected input signals.

Example: Set to switch quickly between RGB1 and RGB2.

On "SEAMLESS SW" of "OPTION4" menu, select "ON". Select "RGB1" and "RGB2".



* The available sources depend on the settings of input.

Information

SEAMLESS SW Function

- * This feature will not function for certain input combinations. See the table on page En-16.
- * After switching to the selected input, please operate this function.
- * This feature will not function during split screen mode.
- * When SEAMLESS SW is first turned on, or when signals being transmitted are changed, there may be a slight delay due to signal analysis.

SEAMLESS SW settings

OFF: Turns off the SEAMLESS SW function.
 ON: When the CLEAR/SEAMLESS SW button is pressed, input signals will switch quickly according to the setting of SELECT1 and SELECT2.

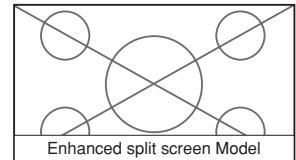
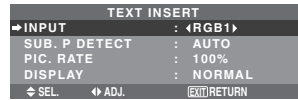
Displaying the information as a text

Example: Setting "TEXT INSERT" to "BOTTOM-3", "INPUT" to "RGB1", "SUB. P DETECT" to "AUTO", "PIC. RATE" to "100%" and "DISPLAY" to "NORMAL"

On "TEXT INSERT" of "OPTION4" menu, select "BOTTOM-3", then press the MENU/ENTER button.

The "TEXT INSERT" screen appears.

Adjust the items.



Information

TEXT INSERT setting

OFF: Displays no text.
 BOTTOM-1/BOTTOM-2/BOTTOM-3/MID.LOW/MID.HIGH/TOP-3/TOP-2/TOP-1/LEFT/RIGHT: Displays a text at the specified location, where the subscriptions -1, -2 and -3 indicate the height of the text area.

INPUT setting

Sets the input of the text to the RGB1 to 3.

SUB. P DETECT setting

AUTO: Black frame with no signal input disappears 3 seconds after the input signal is lost.
 OFF: Black frame with no signal input is displayed consistently.

PIC. RATE setting

Sets the transparency of the text.

DISPLAY setting

NORMAL: The sub screen is displayed consistently.
 FADE: The sub screen fades in.

Advanced OSM Settings Menu

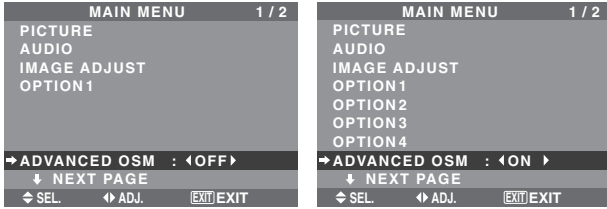
Setting the menu mode

This allows you to access the complete menu.

When P. ON DELAY or PLE LINK is ON, this won't be turned OFF.

Example: Setting "ON"

On "ADVANCED OSM" of "MAIN MENU", select "ON".



Information

■ ADVANCED OSM settings

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

OFF: Some of the main menu items are not available (e.g. OPTION2, OPTION3 and OPTION4).

Language Settings Menu

Setting the language for the menus

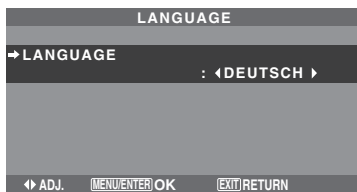
The menu display can be set to one of 10 languages.

Example: Setting the menu display to "DEUTSCH"

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

The "LANGUAGE" screen appears.

On "LANGUAGE", select " DEUTSCH", then press the MENU/ENTER button.



The "LANGUAGE" is set to "DEUTSCH" and return to the main menu.

Information

■ Language settings

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

Color System Settings Menu

Setting the video signal format

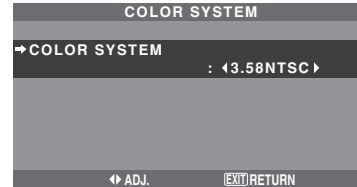
Use these operations to set the color systems of composite video signals or Y/C input signals.

Example: Setting the color system to "3.58 NTSC"

On the MAIN MENU, select "COLOR SYSTEM", then press the MENU/ENTER button.

The "COLOR SYSTEM" screen appears.

On "COLOR SYSTEM", select " 3.58NTSC ".



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.

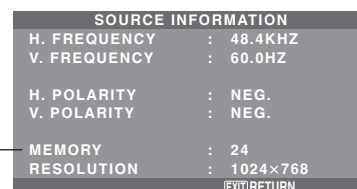
Source Information Menu

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 "SOURCE INFORMATION", then press the MENU/ENTER button.

The "SOURCE INFORMATION" is displayed.



PC: MEMORY will be displayed.
 Others: MODE will be displayed.

External Control

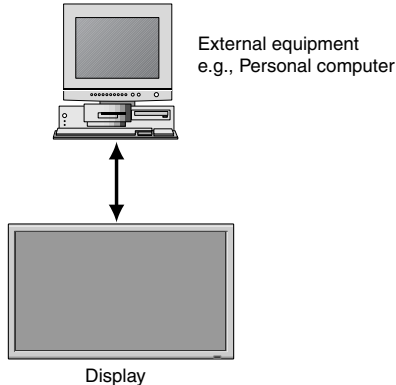
Pin Assignments

Application

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

Connections

Connections are made as described below.

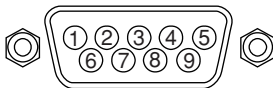


Connector on the plasma monitor side: EXTERNAL CONTROL connector.

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 |

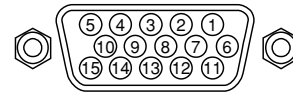
External Control Codes (Reference)

FUNCTION		CODE DATA								
Power ON		9FH	80H	60H	4EH	00H	CDH			
OFF		9FH	80H	60H	4FH	00H	CEH			
Input Switch	Video1 (BNC)	DFH	80H	60H	47H	01H	01H	08H		
	Video2 (RCA)	DFH	80H	60H	47H	01H	02H	09H		
	Video3 (S-Video)	DFH	80H	60H	47H	01H	03H	0AH		
	DVD1/HD1 (RCA)	DFH	80H	60H	47H	01H	05H	0CH		
	DVD2/HD2 (BNC)	DFH	80H	60H	47H	01H	06H	0DH		
	RGB1 (mini D-Sub 15-Pin)	DFH	80H	60H	47H	01H	07H	0EH		
	RGB2 (5BNC)	DFH	80H	60H	47H	01H	08H	0FH		
RGB3 (DVI)	DFH	80H	60H	47H	01H	0CH	13H			
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		
	THEAT. 1	DFH	80H	60H	0AH	01H	02H	CCH		
	THEAT. 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		
	FULL	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)

RGB 1



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

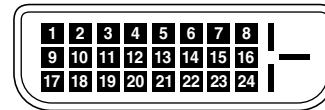
DVI-D 24-pin connector (Digital)

The unit is equipped with a type of connector commonly used for digital.

(This cannot be used for an analog input.)

(TMDS can be used for one link only.)

RGB 3

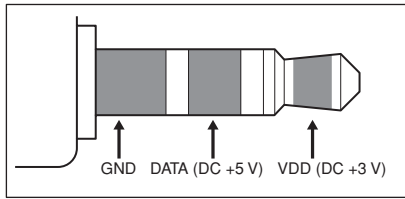


Pin No.	Signal (Digital)
1	T.M.D.S Data 2 -
2	T.M.D.S Data 2 +
3	T.M.D.S Data 2 Shield
4	No connection
5	No connection
6	DDC Clock
7	DDC Data
8	No connection
9	T.M.D.S Data 1 -
10	T.M.D.S Data 1 +
11	T.M.D.S Data 1 Shield
12	No connection
13	No connection
14	+5 V Power
15	Ground
16	Hot Plug Detect
17	T.M.D.S Data 0 -
18	T.M.D.S Data 0 +
19	T.M.D.S Data 0 Shield
20	No connection
21	No connection
22	T.M.D.S Clock Shield
23	T.M.D.S Clock +
24	T.M.D.S Clock -

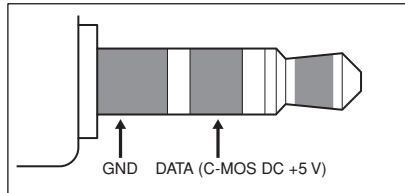
Connection with STB

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

Plasma monitor REMOTE IN



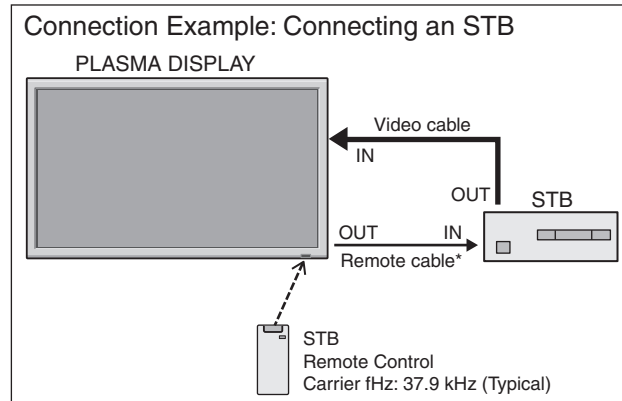
Plasma monitor REMOTE OUT



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-39).
- 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.	<ul style="list-style-type: none"> • Are the image and sound normal? 	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • Is a connected component set directly in front or at the side of the display? 	<ul style="list-style-type: none"> • Leave some space between the display and the connected components.
The remote control does not work.	<ul style="list-style-type: none"> • Are the remote control's batteries worn out? • Is IR REMOTE set to ON? • Has an ID number been set for the main unit? 	<ul style="list-style-type: none"> • Replace both batteries with new ones. • Set IR REMOTE OFF on OPTION3 menu. • Set an ID number with the ID SELECT button, or set the ID number to ALL.
Monitor's power does not turn on when the remote control's power button is pressed.	<ul style="list-style-type: none"> • Is the monitor's power cord plugged into a power outlet? • Are all the monitor's indicators off? • Are the remote control's batteries worn out? • Is IR REMOTE set to OFF? • Has an ID number been set for the main unit? 	<ul style="list-style-type: none"> • Plug the monitor's power cord into a power outlet. • Press the power button on the monitor to turn on the power. • Replace both batteries with new ones. • Set IR REMOTE ON. • Set an ID number with the ID SELECT button, or set the ID number to ALL.
Monitor does not operate when the remote control's buttons are pressed.	<ul style="list-style-type: none"> • Is the remote control pointed at the monitor, or is there an obstacle between the remote control and the monitor? • Is direct sunlight or strong artificial light shining on the monitor's remote control sensor? • Are the remote control's batteries worn out? • The remote cable is plugged into the REMOTE IN terminal (Wired). 	<ul style="list-style-type: none"> • Point the remote control at the monitor's remote control sensor when pressing buttons, or remove the obstacle. • Eliminate the light by closing curtains, pointing the light in a different direction, etc. • Replace both batteries with new ones. • Unplug the remote cable from the monitor.
The front panel buttons of the main unit do not function.	<ul style="list-style-type: none"> • The front panel buttons do not function during Control Lock. 	<ul style="list-style-type: none"> • Set the Control Lock to OFF.
No sound or picture is produced.	<ul style="list-style-type: none"> • Is the monitor's power cord plugged into a power outlet? 	<ul style="list-style-type: none"> • Plug the monitor's power cord into a power outlet.
Picture appears but no sound is produced.	<ul style="list-style-type: none"> • Is the volume set at the minimum? • Is the mute mode set? • Are the speakers properly connected? • Is AUDIO INPUT set correctly? 	<ul style="list-style-type: none"> • Increase the volume. • Press the remote control's MUTE button. • Connect the speakers properly. • Set AUDIO INPUT on the AUDIO menu correctly.
Poor picture with VIDEO signal input.	<ul style="list-style-type: none"> • Improper control setting. • Local interference. • Cable interconnections. • Input impedance is not correct level. 	<ul style="list-style-type: none"> • Adjust picture control as needed. • Try another location for the monitor. • Be sure all connections are secure.
Poor picture with RGB signal input.	<ul style="list-style-type: none"> • Improper control setting. • Incorrect 15 PIN connector pin connections. 	<ul style="list-style-type: none"> • Adjust picture controls as needed. • Check pin assignments and connections.
Tint is poor or colors are weak.	<ul style="list-style-type: none"> • Are the tint and colors properly adjusted? 	<ul style="list-style-type: none"> • Adjust the tint and color (under PICTURE).
Nothing appears on screen.	<ul style="list-style-type: none"> • Is the computer's power turned on? • Is a source connected? • Is the power management function in the standby or off mode? • Is LOOP OUT set to ON? 	<ul style="list-style-type: none"> • Turn on the computer's power. • Connect source to the monitor. • Operate the computer (move the mouse, etc.). • Set LOOP OUT OFF.
Part of picture is cut off or picture is not centered.	<ul style="list-style-type: none"> • Is the position adjustment appropriate? 	<ul style="list-style-type: none"> • Adjust the IMAGE ADJUST properly.
Image is too large or too small.	<ul style="list-style-type: none"> • Is the screen size adjustment appropriate? 	<ul style="list-style-type: none"> • Press the WIDE button on the remote control and adjust properly.
Picture is unstable.	<ul style="list-style-type: none"> • Is the computer's resolution setting appropriate? 	<ul style="list-style-type: none"> • Set to the proper resolution.
POWER/STANDBY indicator is lighted in red.	<ul style="list-style-type: none"> • Horizontal and / or vertical sync signal is not present when the Intelligent Power Manager control is on. 	<ul style="list-style-type: none"> • Check the input signal.
POWER/STANDBY indicator is blinking in red.	<ul style="list-style-type: none"> • The temperature inside the main unit has become too high and has activated the protector. 	<ul style="list-style-type: none"> • Promptly switch off the power of the main unit and wait until the internal temperature drops. See*1.
POWER/STANDBY indicator is blinking in green and red, or green.	<ul style="list-style-type: none"> • _____ 	<ul style="list-style-type: none"> • 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 POWER/STANDBY indicator blinks. It indicates that the power supply circuit, plasma display panel, temperature sensor, or one or more fans have been damaged.

Table of Signals Supported

Supported resolution (42XM5)

- When the screen mode is NORMAL, each signal is converted to a 768 dots × 768 lines signal. (Except for *3)
- When the screen mode is FULL, each signal is converted to a 1024 dots × 768 lines signal.

Computer input signals supported by this system

Model	Dots × lines	Vertical frequency (Hz)	Horizontal frequency (kHz)	Sync Polarity		Presence		Screen mode		RGB select*4	DVI	TEXT INSERT	Memory
				Horizontal	Vertical	Horizontal	Vertical	NORMAL (4:3)	FULL (16:9)				
NEC PC-9800	640 × 400	70.1	31.5	NEG	NEG	YES	YES	--	YES	--	NO	YES	4
	720 × 400	70.1	31.5	NEG	NEG	YES	YES	--	YES	720 × 400	YES	YES	82
IBM PC/AT compatible computers	640 × 480	59.9	31.5	NEG	NEG	YES	YES	YES	YES	640 × 480	YES	YES	5
		72.8	37.9	NEG	NEG	YES	YES	YES	YES	--	YES	YES	7
		75.0	37.5	NEG	NEG	YES	YES	YES	YES	--	YES	YES	8
		85.0	43.3	NEG	NEG	YES	YES	YES	YES	--	YES	YES	9
		100.4	51.1	NEG	NEG	YES	YES	YES	YES	--	YES	YES	41
		120.4	61.3	NEG	NEG	YES	YES	YES	YES	--	YES	YES	42
	720 × 400	85.1	37.9	NEG	POS	YES	YES	--	YES	--	YES	YES	73
	848 × 480	60.0	31.0	POS	POS	YES	YES	--	YES	848 × 480	YES	YES	19
	852 × 480*1	60.0	31.7	NEG	NEG	YES	YES	--	YES	852 × 480	YES	YES	17
	800 × 600	56.3	35.2	POS	POS	YES	YES	YES	YES	800 × 600	YES	YES	11
		60.3	37.9	POS	POS	YES	YES	YES	YES	--	YES	YES	12
		72.2	48.1	POS	POS	YES	YES	YES	YES	--	YES	YES	13
		75.0	46.9	POS	POS	YES	YES	YES	YES	--	YES	YES	14
		85.1	53.7	POS	POS	YES	YES	YES	YES	--	YES	YES	15
		99.8	63.0	POS	POS	YES	YES	YES	YES	--	YES	YES	43
	120.0	75.7	POS	POS	YES	YES	YES	YES	--	YES	YES	44	
	1024 × 768	60.0	48.4	NEG	NEG	YES	YES	YES	YES*2	1024 × 768	YES	YES	24
		70.1	56.5	NEG	NEG	YES	YES	YES	YES*2	1024 × 768	YES	YES	25
		75.0	60.0	POS	POS	YES	YES	YES	YES*2	1024 × 768	YES	YES	26
		85.0	68.7	POS	POS	YES	YES	YES	YES*2	--	YES	YES	27
		100.6	80.5	NEG	NEG	YES	YES	YES	YES*2	--	YES	YES*9	45
		119.4	95.5	NEG	NEG	YES	YES	YES	YES*2	--	YES	YES*9	46
	1152 × 864	75.0	67.5	POS	POS	YES	YES	YES	YES	1152 × 864	YES	YES	51
		60.0	53.7	POS	NEG	YES	YES	YES	YES	1152 × 864	YES	YES	84
		72.0	64.9	POS	NEG	YES	YES	YES	YES	--	YES	YES	85
	1280 × 768	56.2	45.1	POS	POS	YES	YES	--	YES	1280 × 768	NO	YES	52
		59.8	48.0	POS	NEG	YES	YES	--	YES	1280 × 768	YES	YES	80
		69.8	56.0	NEG	POS	YES	YES	--	YES	1280 × 768	YES	YES	66
	1280 × 800*7	59.8	49.7	NEG	POS	YES	YES	--	YES	1280 × 800	YES	YES	21
	1280 × 854	60.0	53.1	NEG	NEG	YES	YES	--	YES	1280 × 854	YES	YES	37
		60.0	60.0	POS	POS	YES	YES	YES	YES	--	YES	YES	63
	1280 × 960	85.0	85.9	POS	POS	YES	YES	YES	YES	--	YES	YES*9	64
		60.0	47.7	POS	POS	YES	YES	--	YES	1360 × 765	NO	YES	22
	1360 × 768	60.0	47.7	POS	POS	YES	YES	--	YES	1360 × 768	YES	YES	22
	1376 × 768	59.9	48.3	NEG	POS	YES	YES	--	YES	1376 × 768	YES	YES	53
	1280 × 1024	60.0	64.0	POS	POS	YES	YES	YES*3	YES	1280 × 1024	YES	YES	29
		75.0	80.0	POS	POS	YES	YES	YES*3	YES	--	YES	YES*9	30
		85.0	91.1	POS	POS	YES	YES	YES*3	YES	--	YES	YES*9	40
		100.1	108.5	POS	POS	YES	YES	YES*3	YES	--	NO	YES*9	47
	1400 × 1050*7	60.0	65.3	NEG	POS	YES	YES	YES	YES	1400 × 1050	YES	YES*9	131
		74.9	82.3	NEG	POS	YES	YES	YES	YES	--	YES	YES*9	71
		85.0	93.9	NEG	POS	YES	YES	YES	YES	--	NO	YES*9	72
1680 × 1050*7	60.0	65.3	NEG	POS	YES	YES	--	YES	1680 × 1050	YES	YES*9	38	
1600 × 1200	60.0	75.0	POS	POS	YES	YES	YES	YES	1600 × 1200	YES	YES*9	54	
	65.0	81.3	POS	POS	YES	YES	YES	YES	--	NO	YES*9	55	
	70.0	87.5	POS	POS	YES	YES	YES	YES	--	NO	YES*9	56	
	75.0	93.8	POS	POS	YES	YES	YES	YES	--	NO	YES*9	57	
	85.0	106.3	POS	POS	YES	YES	YES	YES	--	NO	YES*9	58	
1920 × 1080*8	50.0	56.2	POS	POS	YES	YES	--	YES	1920 × 1080	YES	YES*9	111	
	60.0	67.5	POS	POS	YES	YES	--	YES	1920 × 1080	YES	YES*9	110	
1920 × 1200*7	59.9	74.6	NEG	POS	YES	YES	--	YES	1920 × 1200	--	YES*9	81	
1920 × 1200RB*7	60.0	74.0	NEG	POS	YES	YES	--	YES	1920 × 1200RB	YES	YES*9	88	
Apple Macintosh*5	640 × 480	66.7	35.0	Sync on G	Sync on G	--	--	YES	YES	--	NO	YES	6
	832 × 624	74.6	49.7	Sync on G	Sync on G	--	--	YES	YES	--	NO	YES	16
	1024 × 768	74.9	60.2	Sync on G	Sync on G	--	--	YES	YES*2	--	NO	YES	28
	1152 × 870	75.1	68.7	Sync on G	Sync on G	--	--	YES	YES	--	NO	YES	39
	1440 × 900*7	59.9	55.9	NEG	POS	YES	YES	--	YES	--	YES	YES	89

Model Signal Type	Dots × lines	Vertical frequency (Hz)	Horizontal frequency (kHz)	Sync Polarity		Presence		Screen mode		RGB select**4	DVI	TEXT INSERT	Memory
				Horizontal	Vertical	Horizontal	Vertical	NORMAL (4:3)	FULL (16:9)				
Work Station (EWS4800)	1280 × 1024	60.0	64.6	NEG	NEG	YES	YES	YES*3	YES	1280 × 1024	YES	YES*9	29
		71.2	75.1	NEG	NEG	YES	YES	YES*3	YES	--	YES	YES*9	48
Work Station (HP)	1280 × 1024	72.0	78.1	--	--	--	--	YES*3	YES	--	YES	YES*9	59
Work Station (SUN)	1152 × 900	66.0	61.8	C Sync	C Sync	--	--	YES	YES	--	YES	YES	60
		76.0	71.7	C Sync	C Sync	--	--	YES	YES	--	YES	YES	61
	1280 × 1024	76.1	81.1	C Sync	C Sync	--	--	YES*3	YES	--	YES	YES*9	30
Work Station (SGI)	1024 × 768	60.0	49.7	--	--	--	--	YES	YES*2	1024 × 768	YES	YES*9	62
	1280 × 1024	60.0	63.9	--	--	--	--	YES*3	YES	1280 × 1024	YES	YES*9	29
IDC-3000G													
PAL625P	768 × 576	50.0	31.4	NEG	NEG	YES	YES	YES*6	YES*6	--	NO	YES*9	31
NTSC525P	640 × 480	59.9	31.5	NEG	NEG	YES	YES	YES*6	YES*6	525P	NO	YES*9	32

*1 Only when using a graphic accelerator board that is capable of displaying 852 × 480.

*2 The picture is displayed in the original resolution. The picture will be compressed for other signals.

*3 Aspect ratio is 5:4. This signal is converted to a 720 dots × 768 lines signal.

*4 Normally the RGB select mode suite for the input signals is set automatically. If the picture is not displayed properly, set the RGB mode prepared for the input signals listed in the table above.

*5 To connect the monitor to Macintosh computer, use the monitor adapter (D-Sub 15-pin) to your computer's video port.

*6 Other screen modes (ZOOM and STADIUM) are available as well.

*7 CVT standard compliant.

*8 Analog signal is not available.

*9 The text cannot be displayed at the "RIGHT" and "LEFT" location.

NOTE:

- While the input signals comply with the resolution listed in the table above, you may have to adjust the position and size of the picture or the fine picture because of errors in synchronization of your computer.
- This monitor has a resolution of 1024 dots × 768 lines. It is recommended that the input signal should be XGA, wide XGA, or equivalent.
- With digital input some signals are not accepted.
- The sync may be disturbed when a nonstandard signal other than the aforementioned is input.
- If you are connecting a composite sync signal, use the HD terminal.

What is HDCP/HDCP technology?

HDCP is an acronym for High-bandwidth Digital Content Protection. High bandwidth Digital Content Protection (HDCP) is a system for preventing illegal copying of video data sent over a Digital Visual Interface (DVI).

If you are unable to view material via the DVI input, this does not necessarily mean the PDP is not functioning properly. With the implementation of HDCP, there may be cases in which certain content is protected with HDCP and might not be displayed due to the decision/intention of the HDCP community (Digital Content Protection, LLC).

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Supported resolution (50XM6/60XM5)

- When the screen mode is NORMAL, each signal is converted to a 1024 dots×768 lines signal. (Except for *2,3)
- When the screen mode is TRUE, the picture is displayed in the original resolution.
- When the screen mode is FULL, each signal is converted to a 1365 dots×768 lines signal. (Except for *2)

Computer input signals supported by this system

Model Signal Type	Dots × lines	Vertical frequency (Hz)	Horizontal frequency (kHz)	Sync Polarity		Presence		Screen mode			RGB select*4	DVI	TEXT INSERT	Memory	
				Horizontal	Vertical	Horizontal	Vertical	NORMAL (4:3)	TRUE	FULL (16:9)					
NEC PC-9800	640×400	70.1	31.5	NEG	NEG	YES	YES	--	YES	YES	--	NO	YES	4	
	720×400	70.1	31.5	NEG	NEG	YES	YES	--	YES	YES	720×400	YES	YES	82	
IBM PC/AT compatible computers	640×480	59.9	31.5	NEG	NEG	YES	YES	YES	YES	YES	640×480	YES	YES	5	
		72.8	37.9	NEG	NEG	YES	YES	YES	YES	YES	--	YES	YES	7	
		75.0	37.5	NEG	NEG	YES	YES	YES	YES	YES	YES	--	YES	YES	8
		85.0	43.3	NEG	NEG	YES	YES	YES	YES	YES	YES	--	YES	YES	9
		100.4	51.1	NEG	NEG	YES	YES	YES	YES	YES	YES	--	YES	YES	41
		120.4	61.3	NEG	NEG	YES	YES	YES	YES	YES	YES	--	YES	YES	42
	720×400	85.1	37.9	NEG	POS	YES	YES	--	YES	YES	--	YES	YES	73	
	848×480	60.0	31.0	POS	POS	YES	YES	--	YES	YES	848×480	YES	YES	19	
	852×480*1	60.0	31.7	NEG	NEG	YES	YES	--	YES	YES	852×480	YES	YES	17	
	800×600	56.3	35.2	POS	POS	YES	YES	YES	YES	YES	YES	800×600	YES	YES	11
		60.3	37.9	POS	POS	YES	YES	YES	YES	YES	YES	--	YES	YES	12
		72.2	48.1	POS	POS	YES	YES	YES	YES	YES	YES	--	YES	YES	13
		75.0	46.9	POS	POS	YES	YES	YES	YES	YES	YES	--	YES	YES	14
		85.1	53.7	POS	POS	YES	YES	YES	YES	YES	YES	--	YES	YES	15
		99.8	63.0	POS	POS	YES	YES	YES	YES	YES	YES	--	YES	YES	43
	1024×768	120.0	75.7	POS	POS	YES	YES	YES	YES	YES	YES	--	YES	YES	44
		60.0	48.4	NEG	NEG	YES	YES	YES*2	--	YES	YES	1024×768	YES	YES	24
		70.1	56.5	NEG	NEG	YES	YES	YES*2	--	YES	YES	1024×768	YES	YES	25
		75.0	60.0	POS	POS	YES	YES	YES*2	--	YES	YES	1024×768	YES	YES	26
		85.0	68.7	POS	POS	YES	YES	YES*2	--	YES	YES	--	YES	YES	27
		100.6	80.5	NEG	NEG	YES	YES	YES*2	--	YES	YES	--	YES	YES*9	45
	1152×864	119.4	95.5	NEG	NEG	YES	YES	YES*2	--	YES	YES	--	YES	YES*9	46
		75.0	67.5	POS	POS	YES	YES	YES	--	YES	YES	1152×864	YES	YES	51
		60.0	53.7	POS	NEG	YES	YES	YES	--	YES	YES	1152×864	YES	YES	84
	1280×768	72.0	64.9	POS	NEG	YES	YES	YES	--	YES	YES	--	YES	YES	85
		56.2	45.1	POS	POS	YES	YES	--	--	YES	YES	1280×768	NO	YES	52
		59.8	48.0	POS	NEG	YES	YES	--	--	YES	YES	1280×768	YES	YES	80
	1280×800*7	69.8	56.0	NEG	POS	YES	YES	--	--	YES	YES	1280×768	YES	YES	66
		59.8	49.7	NEG	POS	YES	YES	--	--	YES	YES	1280×800	YES	YES	21
	1280×854	60.0	53.1	NEG	NEG	YES	YES	--	--	YES	YES	1280×854	YES	YES	37
	1280×960	60.0	60.0	POS	POS	YES	YES	YES	--	YES	--	--	YES	YES	63
		85.0	85.9	POS	POS	YES	YES	YES	--	YES	--	--	YES	YES*9	64
	1360×765	60.0	47.7	POS	POS	YES	YES	--	--	YES*2	YES	1360×765	NO	YES	22
	1360×768	60.0	47.7	POS	POS	YES	YES	--	--	YES*2	YES	1360×768	YES	YES	22
	1376×768	59.9	48.3	NEG	POS	YES	YES	--	--	YES	YES	1376×768	YES	YES	53
	1280×1024	60.0	64.0	POS	POS	YES	YES	YES*3	--	YES	YES	1280×1024	YES	YES	29
		75.0	80.0	POS	POS	YES	YES	YES*3	--	YES	--	--	YES	YES*9	30
		85.0	91.1	POS	POS	YES	YES	YES*3	--	YES	--	--	YES	YES*9	40
		100.1	108.5	POS	POS	YES	YES	YES*3	--	YES	--	--	NO	YES*9	47
	1400×1050*7	60.0	65.3	NEG	POS	YES	YES	YES	--	YES	YES	1400×1050	YES	YES*9	131
		74.9	82.3	NEG	POS	YES	YES	YES	--	YES	--	--	YES	YES*9	71
		85.0	93.9	NEG	POS	YES	YES	YES	--	YES	--	--	NO	YES*9	72
1680×1050*7	60.0	65.3	NEG	POS	YES	YES	--	--	YES	YES	1680×1050	YES	YES*9	38	
1600×1200	60.0	75.0	POS	POS	YES	YES	YES	--	YES	YES	1600×1200	YES	YES*9	54	
	65.0	81.3	POS	POS	YES	YES	YES	--	YES	--	--	NO	YES*9	55	
	70.0	87.5	POS	POS	YES	YES	YES	--	YES	--	--	NO	YES*9	56	
	75.0	93.8	POS	POS	YES	YES	YES	--	YES	--	--	NO	YES*9	57	
	85.0	106.3	POS	POS	YES	YES	YES	--	YES	--	--	NO	YES*9	58	
1920×1080*8	50.0	56.2	POS	POS	YES	YES	--	--	YES	YES	1920×1080	YES	YES*9	111	
	60.0	67.5	POS	POS	YES	YES	--	--	YES	YES	1920×1080	YES	YES*9	110	
1920×1200*7	59.9	74.6	NEG	POS	YES	YES	--	--	YES	YES	1920×1200	--	YES*9	81	
1920×1200RB*7	60.0	74.0	NEG	POS	YES	YES	--	--	YES	YES	1920×1200RB	YES	YES*9	88	
Apple Macintosh*5	640×480	66.7	35.0	Sync on G	Sync on G	--	--	YES	YES	YES	--	NO	YES	6	
	832×624	74.6	49.7	Sync on G	Sync on G	--	--	YES	YES	YES	--	NO	YES	16	
	1024×768	74.9	60.2	Sync on G	Sync on G	--	--	YES*2	--	YES	--	NO	YES	28	
	1152×870	75.1	68.7	Sync on G	Sync on G	--	--	YES	--	YES	--	NO	YES	39	
	1440×900*7	59.9	55.9	NEG	POS	YES	YES	--	--	YES	--	YES	YES	89	

Model Signal Type	Dots × lines	Vertical frequency (Hz)	Horizontal frequency (kHz)	Sync Polarity		Presence		Screen mode			RGB select*4	DVI	TEXT INSERT	Memory
				Horizontal	Vertical	Horizontal	Vertical	NORMAL (4:3)	TRUE	FULL (16:9)				
Work Station (EWS4800)	1280 × 1024	60.0	64.6	NEG	NEG	YES	YES	YES*3	--	YES	1280 × 1024	YES	YES*9	29
		71.2	75.1	NEG	NEG	YES	YES	YES*3	--	YES	--	YES	YES*9	48
Work Station (HP)	1280 × 1024	72.0	78.1	--	--	--	--	YES*3	--	YES	--	YES	YES*9	59
Work Station (SUN)	1152 × 900	66.0	61.8	C Sync	C Sync	--	--	YES	--	YES	--	YES	YES	60
		76.0	71.7	C Sync	C Sync	--	--	YES	--	YES	--	YES	YES	61
	1280 × 1024	76.1	81.1	C Sync	C Sync	--	--	YES*3	--	YES	--	YES	YES*9	30
Work Station (SGI)	1024 × 768	60.0	49.7	--	--	--	--	YES*2	--	YES	1024 × 768	YES	YES*9	62
	1280 × 1024	60.0	63.9	--	--	--	--	YES*3	--	YES	1280 × 1024	YES	YES*9	29
IDC-3000G														
PAL625P	768 × 576	50.0	31.4	NEG	NEG	YES	YES	YES*6	--	YES*6	--	NO	YES*9	31
NTSC525P	640 × 480	59.9	31.5	NEG	NEG	YES	YES	YES*6	--	YES*6	525P	NO	YES*9	32

*1 Only when using a graphic accelerator board that is capable of displaying 852 × 480.

*2 The picture is displayed in the original resolution.

*3 The aspect ratio is 5:4. This signal is converted to a 960 dots × 768 lines signal.

*4 Normally the RGB select mode suite for the input signals is set automatically. If the picture is not displayed properly, set the RGB mode prepared for the input signals listed in the table above.

*5 To connect the monitor to Macintosh computer, use the monitor adapter (D-Sub 15-pin) to your computer's video port.

*6 Other screen modes (ZOOM and STADIUM) are available as well.

*7 CVT standard compliant.

*8 Analog signal is not available.

*9 The text cannot be displayed at the "RIGHT" and "LEFT" location.

NOTE:

- While the input signals comply with the resolution listed in the table above, you may have to adjust the position and size of the picture or the fine picture because of errors in synchronization of your computer.
- When a 1280 dots × 1024 lines signal or 1600 dots × 1200 lines signal is input to the monitor, the picture will be compressed.
- This monitor has a resolution of 1365 dots × 768 lines. It is recommended that the input signal should be XGA, wide XGA, or equivalent.
- With digital input some signals are not accepted.
- The sync may be disturbed when a nonstandard signal other than the aforementioned is input.
- If you are connecting a composite sync signal, use the HD terminal.

What is HDCP/HDCP technology?

HDCP is an acronym for High-bandwidth Digital Content Protection. High bandwidth Digital Content Protection (HDCP) is a system for preventing illegal copying of video data sent over a Digital Visual Interface (DVI).

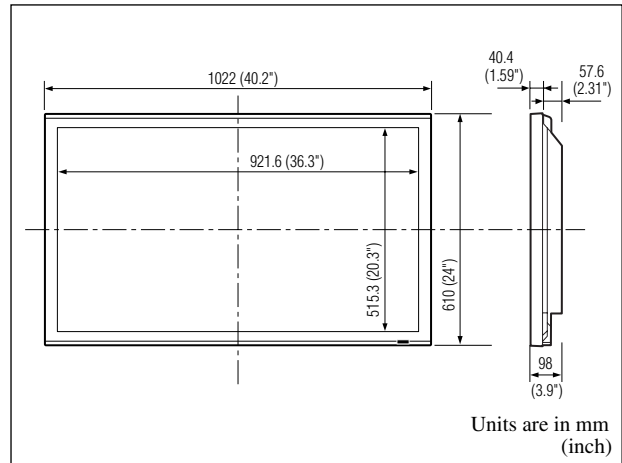
If you are unable to view material via the DVI input, this does not necessarily mean the PDP is not functioning properly. With the implementation of HDCP, there may be cases in which certain content is protected with HDCP and might not be displayed due to the decision/intention of the HDCP community (Digital Content Protection, LLC).

- "IBM PC/AT" and "XGA" are registered trademarks of International Business Machines, Inc. of the United States.
- "Apple Macintosh" is a registered trademark of Apple Computer, Inc. of the United States.

Specifications

■ 42XM5

Screen Size	921.6 mm(H) × 515.3 mm(V) 36.3 inches(H) × 20.3 inches(V) diagonal 42 inches
Aspect Ratio	16 : 9
Resolution	1024 pixels(H) × 768 pixels(V)
Pixel Pitch	0.9 mm(H) × 0.671 mm(V) 0.036 inches(H) × 0.027 inches(V)
Signals	
Synchronization Range	Horizontal : 15.5 kHz to 110.0 kHz (automatic : step scan) Vertical : 50.0 Hz to 120.0 Hz (automatic : step scan)
Input Signals	RGB, NTSC (3.58/4.43), PAL (B,G,M,N), PAL60, SECAM, HD* ¹ , DVD* ¹ , DTV* ¹
Input Terminals (VIDEO1 and RGB1 can also be used as OUTPUT terminals)	
RGB	
Visual 1 (Analog)	mini D-sub 15-pin × 1
Visual 2 (Analog)	BNC (R, G, B, HD, DV) × 1* ²
Visual 3 (Digital)	DVI-D 24-pin × 1* ³
Video	
Visual 1	BNC × 1
Visual 2	RCA-pin × 1
Visual 3	S-Video: DIN 4-pin × 1
DVD/HD	
Visual 1	RCA-pin (Y, Cb/Pb, Cr/Pr) × 1* ¹
Visual 2	BNC (Y, Cb/Pb, Cr/Pr) × 1* ^{1,2}
Visual 3	DVI-D 24-pin × 1* ³
Audio	Stereo RCA × 3(Selectable)
External Control	D-sub 9-pin × 1(RS-232C)
Remote In	Mini jack × 1
Remote Out	Mini jack × 1
Sound output	8 W+8 W at 6 ohm
Power Supply	AC100 V to 240 V 50 Hz/60 Hz
Current Rating	4.5 A (maximum)
Power Consumption	285 W (typical)
Dimensions	1022 mm(W) × 610 mm(H) × 98 mm(D) 40.2 inches(W) × 24 inches(H) × 3.9 inches(D)
Weight	30 kg / 66.1 lbs (without stand)
Environmental Considerations	
Operating Temperature	0 °C to 40 °C / 32 °F to 104 °F
Humidity	20 % to 80 % (no condensation)
Storage Temperature	-10 °C to 50 °C / 14 °F to 122 °F
Humidity	10 % to 90 % (no condensation)
Other Features	Motion compensated 3D Scan Converter (NTSC, PAL, 480I, 576I, 525I, 625I, 1035I, 1080I), 2-3 pull down Converter (NTSC, 480I, 525I, 1035I, 1080I (60 Hz)), 2-2 pull down Converter (PAL, 576I, 625I, NTSC, 480I, 525I), Digital Zooming (100 % to 900 % Selectable), Video Wall 4-25 multi screens, Self Diagnosis via RS232C, Long Life Mode (PEAK BRIGHT, ORBITER, INVERSE, WHITE, SCREEN WIPER, SOFT FOCUS, etc.), Control Lock (Except power SW), Input Skip, Color Tune, Programmable Timer, Loop Throughout Interface, Plug and play (DDC1, DDC2b, RGB3: DDC2b only), Enhanced Split Screen, Protocol Set, etc.
Accessories	Power cord (×1), Remote control (×1), AAA batteries (×2), Manuals (Start up Guide and CD-ROM), Ferrite cores for power cord (×2), bands for power cord (×2), Cable clampers (×3), beads bands (×3), Ferrite core for remote cable (×2).
Regulations	IEC60950-1, EN60950-1, EN55022 class B, EN55024, EN61000-3-2, EN61000-3-3, AS/NZS CISPR22 class B



The features and specifications may be subject to change without notice.

*¹ HD/DVD/DTV input signals supported on this system.

480P (60 Hz)	480I (60 Hz)	525P (60 Hz)
525I (60 Hz)	576P (50 Hz)	576I (50 Hz)
625P (50 Hz)	625I (50 Hz)	720P (60 Hz)
720P (50 Hz)	1035I (60 Hz)	1080I (50 Hz)
1080I (60 Hz)	1080P (50 Hz)	1080P (60 Hz)

*² The 5-BNC connectors are used as RGB2 and DVD/HD2 input. Select one of them under "BNC INPUT".

*³ Compatible with HDCP.

Supported Signals

- 640 × 480P @ 59.94/60 Hz
- 720 × 480P @ 59.94/60 Hz
- 720 × 576P @ 50 Hz
- 1280 × 720P @ 59.94/60 Hz
- 1280 × 720P @ 50 Hz
- 1920 × 1080P @ 59.94/60 Hz
- 1920 × 1080P @ 50 Hz
- 1440 (720) × 480I @ 59.94/60 Hz
- 1440 (720) × 576I @ 50 Hz
- 1920 × 1080I @ 59.94/60 Hz
- 1920 × 1080I @ 50 Hz

Note: In some cases a signal on the plasma monitor may not be displayed properly. The problem may be an inconsistency with standards from the source equipment (DVD, Set-top box, etc.). If you do experience such a problem please contact your dealer and also the manufacturer of the source equipment.

Specifications

■ 50XM6

Screen Size	1104 mm(H) × 621 mm(V) 43.4 inches(H) × 24.4 inches(V) diagonal 50 inches
Aspect Ratio	16 : 9
Resolution	1365 pixels(H) × 768 pixels(V)
Pixel Pitch	0.81 mm(H) × 0.81 mm(V) 0.032 inches(H) × 0.032 inches(V)
Signals	
Synchronization Range	Horizontal : 15.5 kHz to 110.0 kHz (automatic : step scan) Vertical : 50.0 Hz to 120.0 Hz (automatic : step scan)
Input Signals	RGB, NTSC (3.58/4.43), PAL (B,G,M,N), PAL60, SECAM, HD*1, DVD*1, DTV*1

Input Terminals (VIDEO1 and RGB1 can also be used as OUTPUT terminals)

RGB

Visual 1 (Analog)	mini D-sub 15-pin × 1
Visual 2 (Analog)	BNC (R, G, B, HD, VD) × 1*2
Visual 3 (Digital)	DVI-D 24-pin × 1*3

Video

Visual 1	BNC × 1
Visual 2	RCA-pin × 1
Visual 3	S-Video: DIN 4-pin × 1

DVD/HD

Visual 1	RCA-pin (Y, Cb/Pb, Cr/Pr) × 1*1
Visual 2	BNC (Y, Cb/Pb, Cr/Pr) × 1*1.*2
Visual 3	DVI-D 24-pin × 1*3

Audio

Stereo RCA × 3 (Selectable)

External Control

D-sub 9-pin × 1 (RS-232C)

Remote In

Mini jack × 1

Remote Out

Mini jack × 1

Sound output	9 W+9 W at 6 ohm
Power Supply	AC100 V to 240 V 50 Hz/60 Hz
Current Rating	5.0 A (maximum)
Power Consumption	340 W (typical)
Dimensions	1222 mm(W) × 736 mm(H) × 99 mm(D) 48.1 inches(W) × 29.0 inches(H) × 3.9 inches(D)
Weight	41.5 kg / 91.4 lbs (without stand)

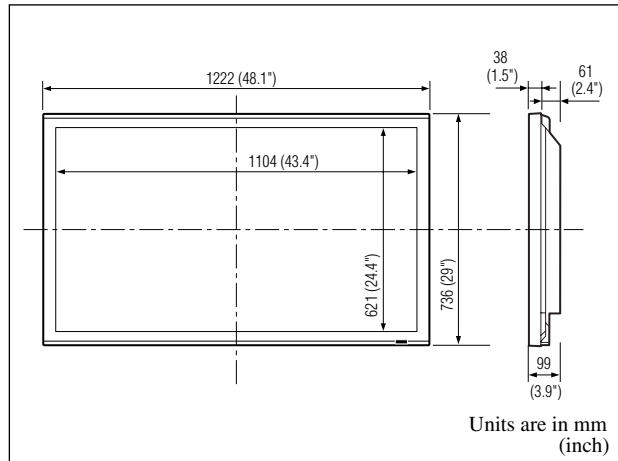
Environmental Considerations

Operating Temperature	0 °C to 40 °C / 32 °F to 104 °F
Humidity	20 % to 80 % (no condensation)
Storage Temperature	-10 °C to 50 °C / 14 °F to 122 °F
Humidity	10 % to 90 % (no condensation)

Other Features Motion compensated 3D Scan Converter (NTSC, PAL, 480I, 576I, 525I, 625I, 1035I, 1080I), 2-3 pull down Converter (NTSC, 480I, 525I, 1035I, 1080I (60 Hz)), 2-2 pull down Converter (PAL, 576I, 625I, NTSC, 480I, 525I), Digital Zooming (100 % to 900 % Selectable), Video Wall 4-25 multi screens, Self Diagnosis via RS232C, Long Life Mode (PEAK BRIGHT, ORBITER, INVERSE, WHITE, SCREEN WIPER, SOFT FOCUS, etc.), Control Lock (Except power SW), Input Skip, Color Tune, Programmable Timer, Loop Throughout Interface, Plug and play (DDC1, DDC2b, RGB3: DDC2b only), Enhanced Split Screen, Protocol Set, etc.

Accessories Power cord (×1), Remote control (×1), AAA batteries (×2), Manuals (Start up Guide and CD-ROM), Ferrite cores for power cord (×2), bands for power cord (×2), Cable clampers (×3), beads bands (×3), Ferrite core for remote cable (×2).

Regulations IEC60950-1, EN60950-1, EN55022 class B, EN55024, EN61000-3-2, EN61000-3-3, AS/NZS CISPR22 class B



Units are in mm (inch)

The features and specifications may be subject to change without notice.

*1 HD/DVD/DTV input signals supported on this system.

480P (60 Hz)	480I (60 Hz)	525P (60 Hz)
525I (60 Hz)	576P (50 Hz)	576I (50 Hz)
625P (50 Hz)	625I (50 Hz)	720P (60 Hz)
720P (50 Hz)	1035I (60 Hz)	1080I (50 Hz)
1080I (60 Hz)	1080P (50 Hz)	1080P (60 Hz)

*2 The 5-BNC connectors are used as RGB2 and DVD/HD2 input. Select one of them under "BNC INPUT".

*3 Compatible with HDCP.

Supported Signals

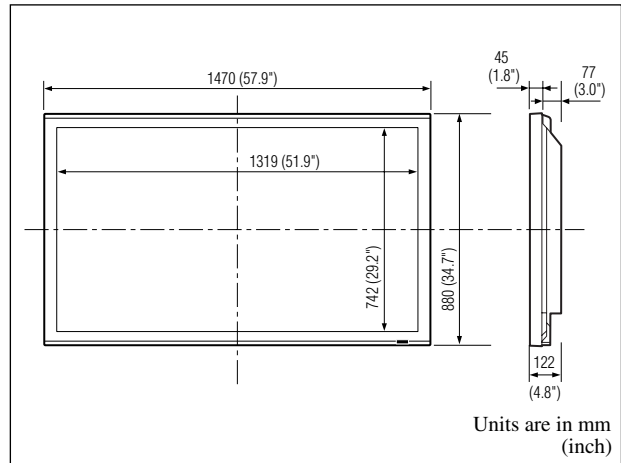
• 640 × 480P @ 59.94/60 Hz	• 1440 (720) × 480I @ 59.94/60 Hz
• 720 × 480P @ 59.94/60 Hz	• 1440 (720) × 576I @ 50 Hz
• 720 × 576P @ 50 Hz	• 1920 × 1080I @ 59.94/60 Hz
• 1280 × 720P @ 59.94/60 Hz	• 1920 × 1080I @ 50 Hz
• 1280 × 720P @ 50 Hz	
• 1920 × 1080P @ 59.94/60 Hz	
• 1920 × 1080P @ 50 Hz	

Note: In some cases a signal on the plasma monitor may not be displayed properly. The problem may be an inconsistency with standards from the source equipment (DVD, Set-top box, etc.). If you do experience such a problem please contact your dealer and also the manufacturer of the source equipment.

Specifications

■ 60XM5

Screen Size	1319 mm(H) × 742 mm(V) 51.9 inches(H) × 29.2 inches(V) diagonal 60 inches
Aspect Ratio	16 : 9
Resolution	1365 pixels(H) × 768 pixels(V)
Pixel Pitch	0.97 mm(H) × 0.97 mm(V) 0.038 inches(H) × 0.038 inches(V)
Signals	
Synchronization Range	Horizontal : 15.5 kHz to 110.0 kHz (automatic : step scan) Vertical : 50.0 Hz to 120.0 Hz (automatic : step scan)
Input Signals	RGB, NTSC (3.58/4.43), PAL (B,G,M,N), PAL60, SECAM, HD* ¹ , DVD* ¹ , DTV* ¹
Input Terminals (VIDEO1 and RGB1 can also be used as OUTPUT terminals)	
RGB	
Visual 1 (Analog)	mini D-sub 15-pin × 1
Visual 2 (Analog)	BNC (R, G, B, HD, VD) × 1* ²
Visual 3 (Digital)	DVI-D 24-pin × 1* ³
Video	
Visual 1	BNC × 1
Visual 2	RCA-pin × 1
Visual 3	S-Video: DIN 4-pin × 1
DVD/HD	
Visual 1	RCA-pin (Y, Cb/Pb, Cr/Pr) × 1* ¹
Visual 2	BNC (Y, Cb/Pb, Cr/Pr) × 1* ^{1,*2}
Visual 3	DVI-D 24-pin × 1* ³
Audio	Stereo RCA × 3 (Selectable)
External Control	D-sub 9-pin × 1 (RS-232C)
Remote In	Mini jack × 1
Remote Out	Mini jack × 1
Sound output	9 W+9 W at 6 ohm
Power Supply	AC100 V to 240 V 50 Hz/60 Hz
Current Rating	7.0 A (maximum)
Power Consumption	440 W (typical)
Dimensions	1470 mm(W) × 880 mm(H) × 122 mm(D) 57.9 inches(W) × 34.7 inches(H) × 4.8 inches(D)
Weight	61.5 kg / 135.6 lbs (without stand)
Environmental Considerations	
Operating Temperature	0 °C to 40 °C / 32 °F to 104 °F
Humidity	20 % to 80 % (no condensation)
Storage Temperature	-10 °C to 50 °C / 14 °F to 122 °F
Humidity	10 % to 90 % (no condensation)
Other Features	Motion compensated 3D Scan Converter (NTSC, PAL, 480I, 576I, 525I, 625I, 1035I, 1080I), 2-3 pull down Converter (NTSC, 480I, 525I, 1035I, 1080I (60 Hz)), 2-2 pull down Converter (PAL, 576I, 625I, NTSC, 480I, 525I), Digital Zooming (100 % to 900 % Selectable), Video Wall 4-25 multi screens, Self Diagnosis via RS232C, Long Life Mode (PEAK BRIGHT, ORBITER, INVERSE, WHITE, SCREEN WIPER, SOFT FOCUS, etc.), Control Lock (Except power SW), Input Skip, Color Tune, Programmable Timer, Loop Throughout Interface, Plug and play (DDC1, DDC2b, RGB3: DDC2b only), Enhanced Split Screen, Protocol Set, etc.
Accessories	Power cord (×1), Remote control (×1), AAA batteries (×2), Manuals (Start up Guide and CD-ROM), Ferrite cores for power cord (×2), bands for power cord (×2), Cable clampers (×3), beads bands (×3), Ferrite core for remote cable (×2).
Regulations	IEC60950-1, EN60950-1, EN55022 class B, EN55024, EN61000-3-2, EN61000-3-3, AS/NZS CISPR22 class B



The features and specifications may be subject to change without notice.

*¹HD/DVD/DTV input signals supported on this system.

480P (60 Hz)	480I (60 Hz)	525P (60 Hz)
525I (60 Hz)	576P (50 Hz)	576I (50 Hz)
625P (50 Hz)	625I (50 Hz)	720P (60 Hz)
720P (50 Hz)	1035I (60 Hz)	1080I (50 Hz)
1080I (60 Hz)	1080P (50 Hz)	1080P (60 Hz)

*²The 5-BNC connectors are used as RGB2 and DVD/HD2 input. Select one of them under "BNC INPUT".

*³Compatible with HDCP.

Supported Signals

- 640 × 480P @ 59.94/60 Hz
- 720 × 480P @ 59.94/60 Hz
- 720 × 576P @ 50 Hz
- 1280 × 720P @ 59.94/60 Hz
- 1280 × 720P @ 50 Hz
- 1920 × 1080P @ 59.94/60 Hz
- 1920 × 1080P @ 50 Hz
- 1440 (720) × 480I @ 59.94/60 Hz
- 1440 (720) × 576I @ 50 Hz
- 1920 × 1080I @ 59.94/60 Hz
- 1920 × 1080I @ 50 Hz

Note: In some cases a signal on the plasma monitor may not be displayed properly. The problem may be an inconsistency with standards from the source equipment (DVD, Set-top box, etc.). If you do experience such a problem please contact your dealer and also the manufacturer of the source equipment.