NEC

PlasmaSync 42VP4/42VP4D (42Wide VGA)
PX-42VP4G/42VP4DG

PlasmaSync 42XM2 (42XGA)
PX-42XM2G

PlasmaSync 50XM3 (50XGA)
PX-50XM3G

PlasmaSync Plasma Monitor

User's Manual

Bedienungshandbuch

Manuel de l'utilisateur

Manual del Usuario

Manuale d'uso

Bruksanvisning

User’s Manual

Bedienungshandbuch

Manuel de l’utilisateur

Manual del Usuario

Manuale d’uso

Bruksanvisning

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.

Warning

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

Warnings and Safety Precaution

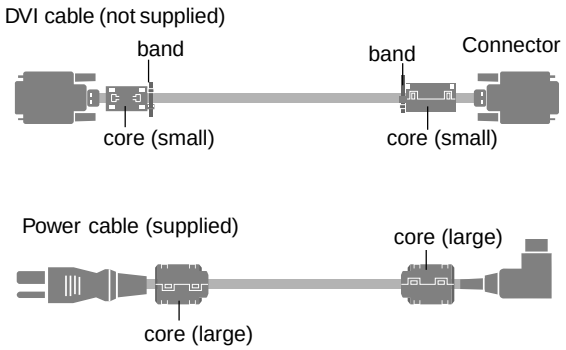
This plasma monitor is designed and manufactured to provide long, trouble-free service. No maintenance other than cleaning is required. Please see the section "Plasma monitor cleaning procedure" on the next page.

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.

NOTE:
When you connect a computer to this monitor, use an RGB cable including the ferrite core on both ends of the cable. And regarding DVI and power cable, attach the supplied ferrite cores. If you do not do this, this monitor will not conform to mandatory FCC standards.
Set the ferrite cores on both ends of the DVI cable (not supplied), and both ends of the power cable (supplied). Close the lid tightly until the clamps click.
Use the band to fasten the ferrite core (supplied) to the DVI cable.



To avoid damage and prolong operating life:

1. Use only with 100-240V 50/60Hz AC power supply. Continued operation at line voltages greater than 100-240 Volts 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.

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 phosphor burn-in:
Like all phosphor-based display devices and all other gas plasma displays, plasma monitors can be susceptible to phosphor burn under certain circumstances. Certain operating conditions, such as the continuous display of a static image over a prolonged period of time, can result in phosphor burn 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 burn:

* 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 phosphor burn:

* 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.

* Note: Burn-in is not covered by the warranty.

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

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Contents

How to Attach Options to the Plasma Monitor

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.

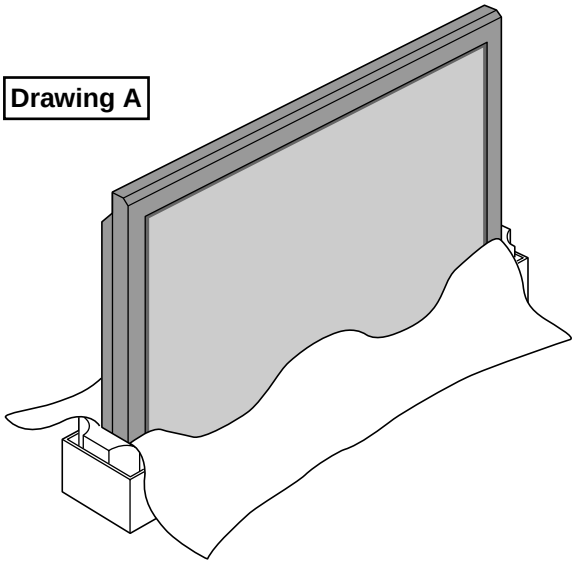
• This device cannot be installed on its own. Be sure to use a stand or original mounting unit. (Wall mount unit, Stand, etc.)
*** See page E-2.**

• For correct installation and mounting it is strongly recommended to use a trained, authorized dealer.

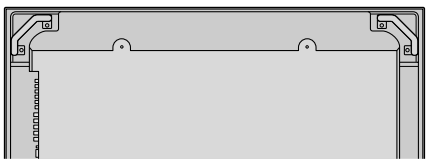
Failure to follow correct mounting procedures could result in damage to the equipment or injury to the installer.

Product warranty does not cover damage caused by improper installation.

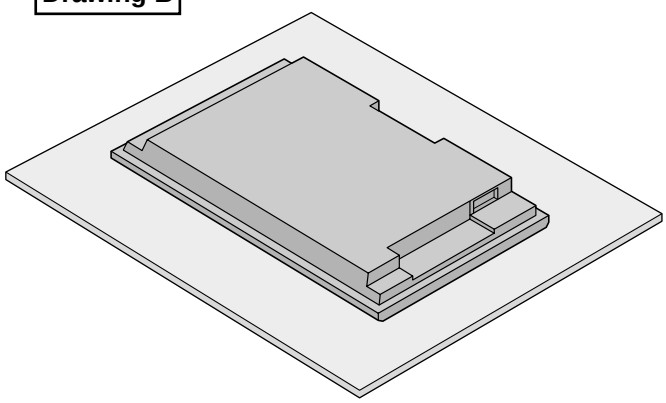
Drawing A



When installing or carrying, use the handles attached to the upper back of the display (50XGA).

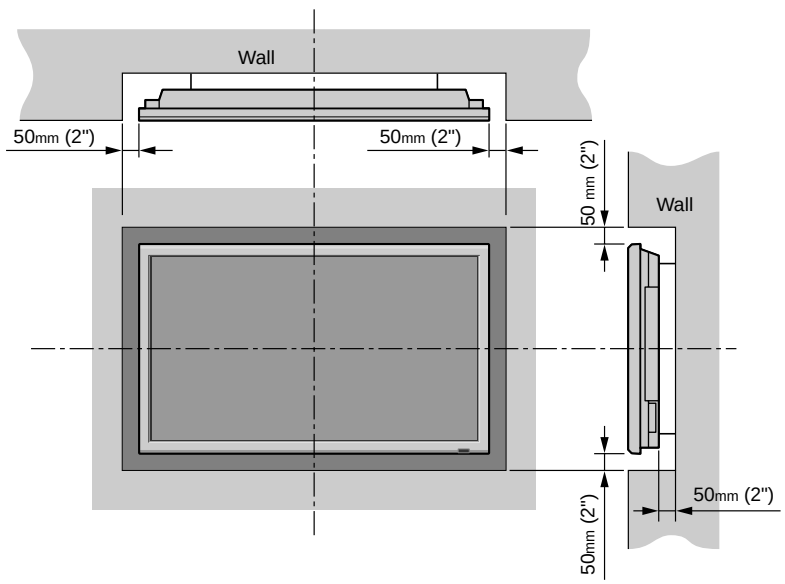


Drawing B



Ventilation Requirements for enclosure mounting

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



Introduction

Introduction to the Plasma Monitor

This plasma monitor is a seamless blend of cutting-edge visual technology and sophisticated design. At 42/50 inches, with a 16:9 aspect ratio, the PlasmaSync™ certainly makes a big impression. However, at a mere 89 mm/96 mm thin, the monitor's sleek techno-art lines blend in well with your environment. Plasma monitor's crisp, vivid image quality will transform data from any graphic medium from PCs to DVD players- into art. We have made sure that a host of multimedia resources can be easily connected and displayed as brilliantly as intended on the plasma monitor.

The features you'll enjoy include:

- 42/50 inch screen
- 16:9 aspect ratio
- Capsulated Color Filter (CCF) and black matrix
- The enhanced display in red uses a two-stage filtering system where Accucrimson is combined with our special CCF.
- 42VP4/42XM2/50XM3: Installed AR (Anti-Reflection) Filter
  42VP4D: Installed AG (Anti-Glare) Filter
- 42VP4: Body color is 2 types, black or silver.
- 42VP4, 42VP4D, 42XM2: 89 mm / 3.5 inch thin
  50XM3: 96 mm / 3.8 inch thin
- 42VP4, 42VP4D: 28.5 kg / 62.8 lbs light
  42XM2: 29.0 kg / 63,9 lbs light
  50XM3: 44.5 kg / 98.0 lbs light
- 42VP4, 42VP4D: 853×480 pixels,
  42XM2: 1024×768 pixels
  50XM3: 1365×768 pixels
- Flicker - and warp - free display provides excellent image geometry even in screen corners
- Not affected by magnetic fields, no color drift or edge distortion.
- VGA, SVGA, XGA, SXGA, UXGA computer signal compatibility
- NTSC, PAL, SECAM, composite and S-Video signal compatibility
- 480P, 1080I, 720P and HDTV signal compatibility
- PCs, VCRs, Laser Disc and DVD player source compatibility
- AccuBlend scan conversion automatically converts VGA*, SVGA, XGA**, SXGA and UXGA signals to the panel's native resolution (*; except for 42VP4/42VP4D, **; except for 42XM2)
- Advanced Mass Area Sampling Progressive Scan method is employed.
- RGB (3*), Video (3), DVD/HD (2*), Audio input (3), External Control input (1)
- AccuColor control system provides user selectable on-screen color temperature settings
- New Drive Technology
- Component video input terminal for DVD, 15.75kHz (Y, C_B, C_R)
- Digital broadcasting source compatibility
- OSM menu-driven on screen control system that makes image adjustments a snap
- Seven languages (English, German, French, Italian, Spanish, Swedish, and Chinese)

* You can set the 5BNC input to be used as an RGB or component input. When the 5BNC input is set for RGB, there are a total of three RGB inputs; when the 5BNC input is set for component there are a total of two DVD/HD inputs (see page E-25).

Contents of the Package

- ☐ Plasma monitor
- ☐ Power cord
- ☐ Remote control with two AAA Batteries
- ☐ User's manual
- ☐ Safety metal fittings*
- ☐ Screws for safety metal fittings*
- ☐ Ferrite core (small×2, large×2), bands
- ☐ Cable clamps

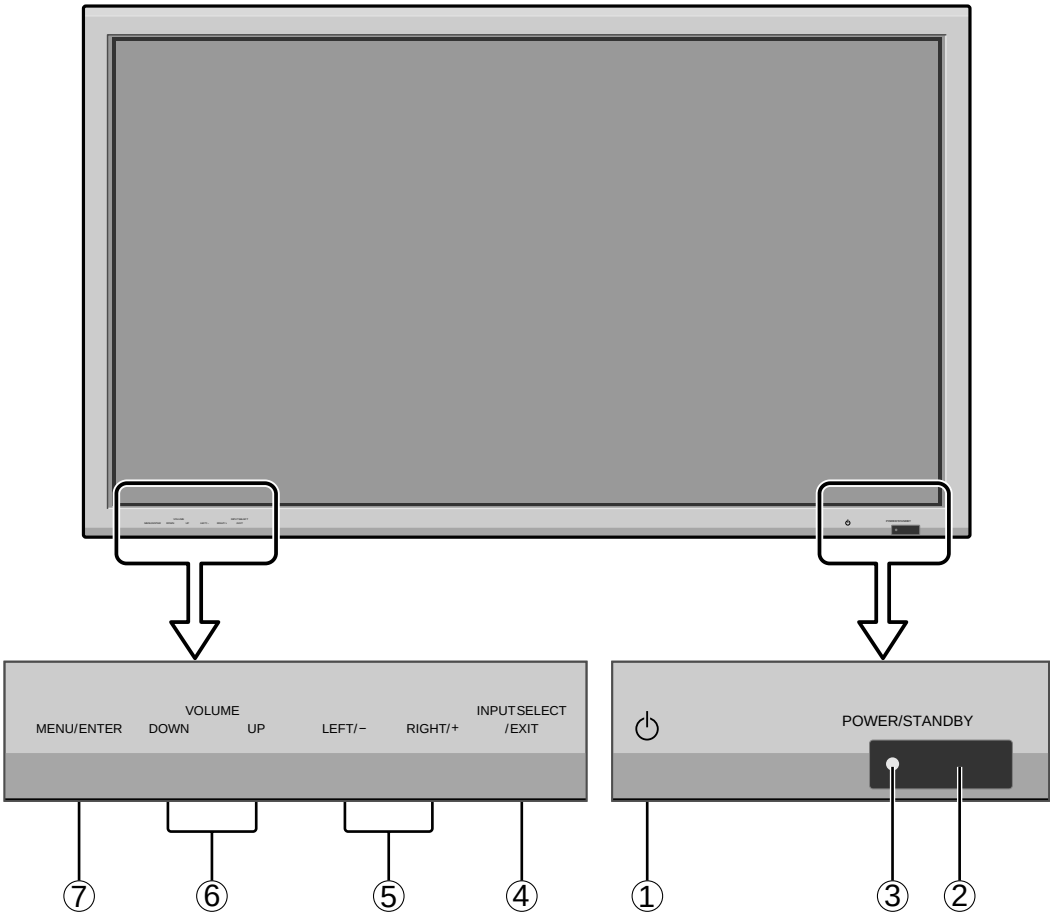
* These are fittings for fastening the unit to a wall to prevent tipping due to external shock when using the stand (optional). Fasten the safety fittings to the holes in the back of the monitor using the safety fitting mount screws.

Options

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

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, in the order as shown in the table below.
The available inputs depend on the settings of "BNC INPUT" and "D-SUB INPUT".
Functions as the EXIT buttons in the On-Screen Menu (OSM) mode.

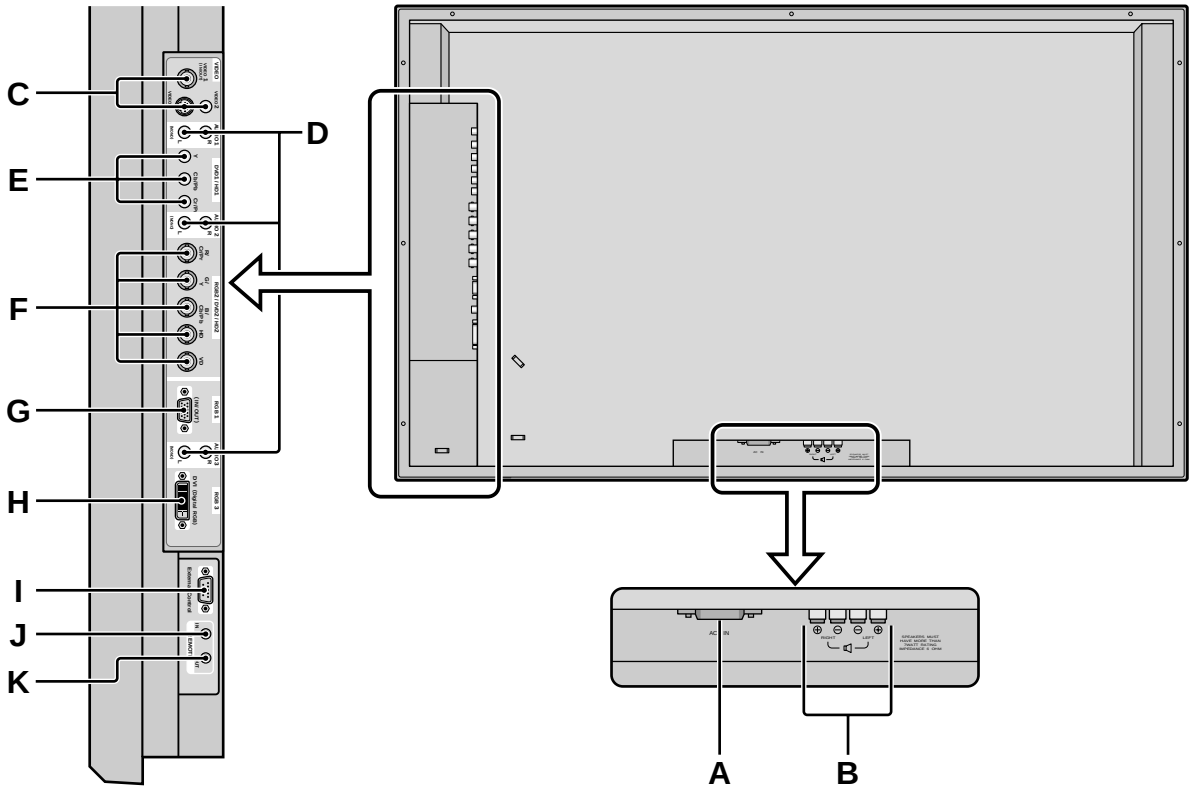
⑤ **LEFT/– and RIGHT/+**
Enlarges or reduces the image. Functions as the CURSOR (◀ / ▶) buttons in the On-Screen Menu (OSM) mode.

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.

BNC INPUT	D-SUB INPUT	Input Source
RGB	RGB	VIDEO1 → VIDEO2 → VIDEO3 → HD/DVD1 → RGB/PC1 → RGB/PC2 → RGB/PC3
	SCART3	VIDEO1 → VIDEO2 → VIDEO3 → HD/DVD1 → DVD3 → RGB/PC2 → RGB/PC3
COMP.	RGB	VIDEO1 → VIDEO2 → VIDEO3 → HD/DVD1 → HD/DVD2 → RGB/PC1 → RGB/PC3
	SCART3	VIDEO1 → VIDEO2 → VIDEO3 → HD/DVD1 → HD/DVD2 → DVD3 → RGB/PC3
SCART1, 2	RGB	VIDEO1 → VIDEO2 → VIDEO3 → HD/DVD1 → DVD2 → RGB/PC1 → RGB/PC3
	SCART3	VIDEO1 → VIDEO2 → VIDEO3 → HD/DVD1 → DVD2 → DVD3 → RGB/PC3

Rear View/ Terminal Board



A AC IN
Connect the included power cord here.

B EXT SPEAKER L and R
Connect speakers (optional) here. Maintain the correct polarity.
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 (see page E-11).

D AUDIO1, AUDIO2, AUDIO3
These are audio input terminals.
The input is selectable. Set which video image to allot them 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 syncronization 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. (see page E-25)

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. (see page E-11)

H RGB3 (DVI 24pin)
Connect a digital signal (TMDS) from a source with a DVI output. (see page E-9)

I EXTERNAL CONTROL
This terminal is used when operating and controlling the monitor externally (by RS-232C).

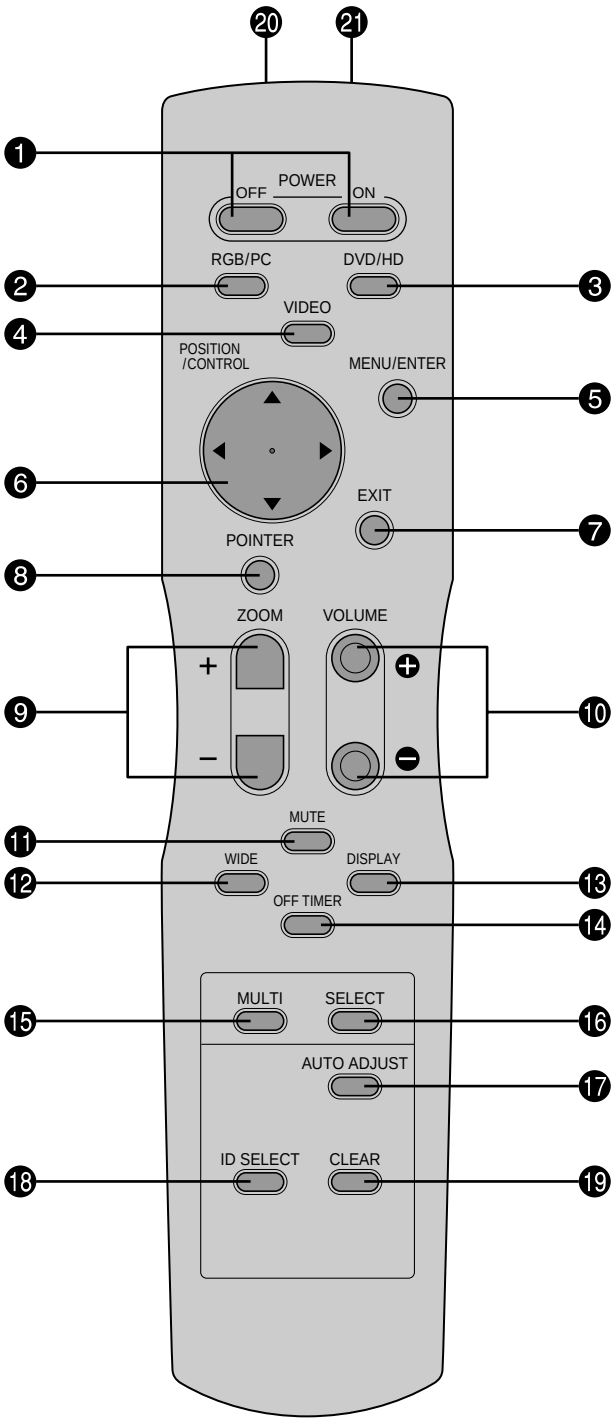
J REMOTE IN
Connect the remote cable* to the remote control's remote jack to obtain wired remote control.

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

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

Note: *This figure represents the 42 inch display. In the 50 inch display, the AC IN terminal and SPEAKER terminal are reversed.*

Remote Control



❶ **POWER ON/OFF**
Switches Power ON/OFF.
(This does not operate when POWER/STANDBY indicator of the main unit is off.)

❷ **RGB/PC**
Press this button to select RGB/PC as the source.
The available sources depend on the settings of "BNC INPUT" and "D-SUB INPUT". See page E-3.
RGB/PC can also be selected using the INPUT SELECT button on the monitor.

❸ **DVD / HD**
Press this button to select DVD/HD as the source.
The available sources depend on the settings of "BNC INPUT" and "D-SUB INPUT". See page E-3.
DVD/HD can also be selected using the INPUT SELECT button on the monitor.

❹ **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.

❺ **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.

❻ **CURSOR (▲ / ▼ / ◀ / ▶)**
Use these buttons to select items or settings and to adjust settings or switch the display patterns.

❼ **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.

❽ **POINTER**
Press this button to display the pointer.

❾ **ZOOM (+ /–)**
Enlarges or reduces the image.

❿ **VOLUME (+ /–)**
Adjusts the audio volume.

⓫ **MUTE**
Mutes the sound.

⓬ **WIDE**
Automatically detects the signal and sets the aspect ratio.
Wide button is not active for all signals.

⓭ **DISPLAY**
Displays the source settings on the screen.

⓮ **OFF TIMER**
Activates the off timer for the unit.

⓯ **MULTI**
Not functional for the models covered in this manual.

⓰ **SELECT**
Not functional for the models covered in this manual.

⓱ **AUTO ADJUST**
Press this button to adjust Fine Picture, Picture ADJ, Position, and Contrast automatically, or to switch the screen size to ZOOM mode automatically with the superimposed caption displayed fully only when the picture contains dark areas above and below the picture.

⓲ **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.

⓳ **CLEAR**
Clears the number set by the ID SELECT button.

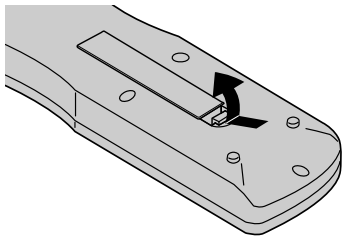
⓴ **Remote control signal transmitter**
Transmits the remote control signals.

㉑ **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.

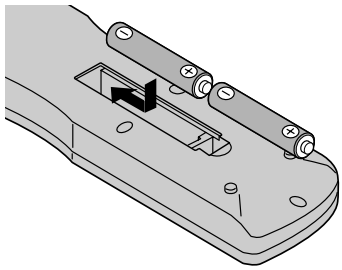
Battery Installation and Replacement

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

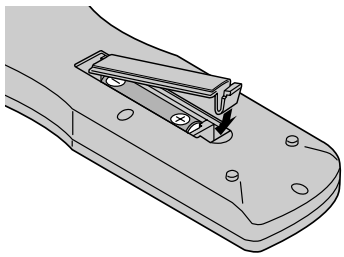
1. Press and open the cover.



2. Align the batteries according to the (+) and (–) indication inside the case.

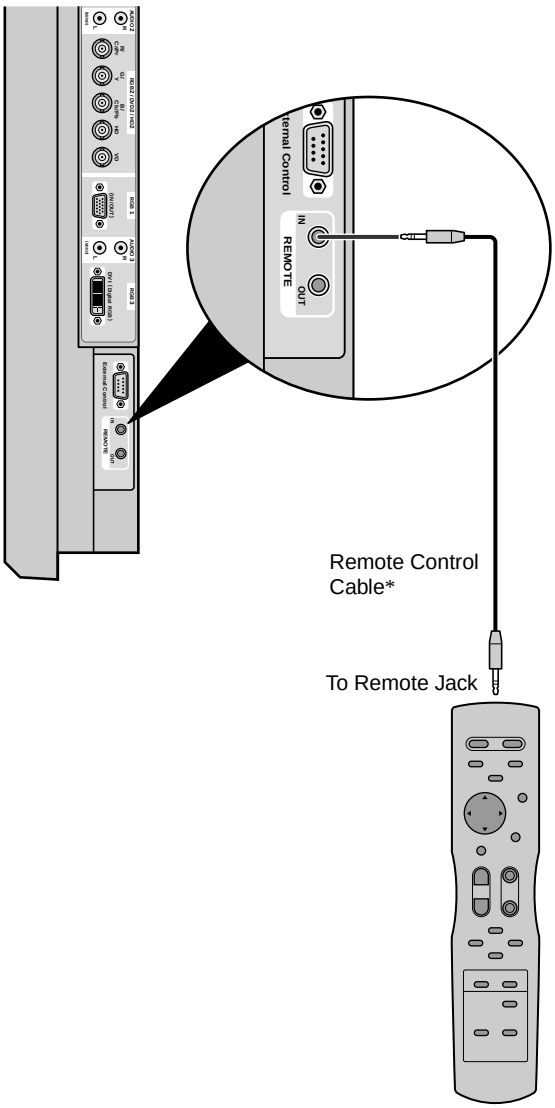


3. Replace the cover.



Using the wired remote control mode

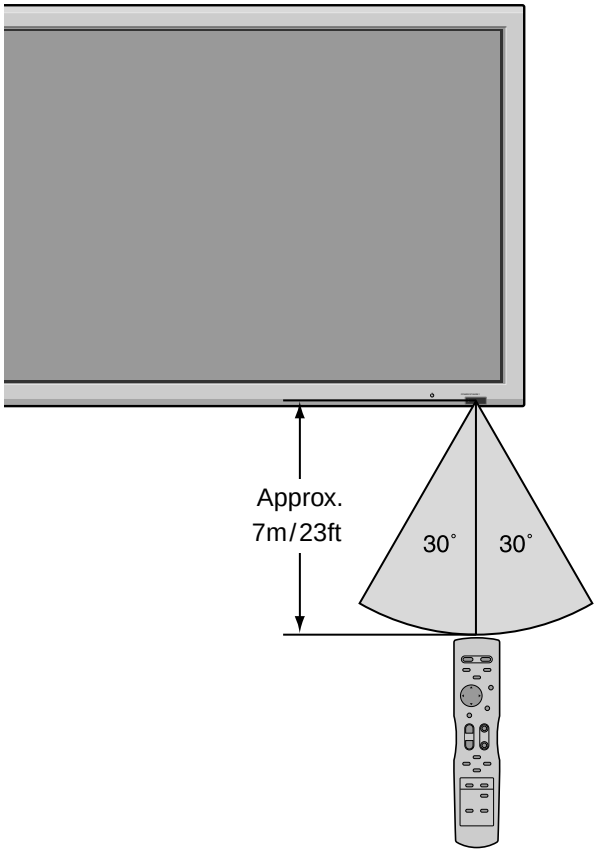
Connect the remote cable* to the remote control's remote jack and the "REMOTE IN" terminal on the monitor.
When the cable is connected, the mode automatically switches to wired remote control. When the wired remote control mode is used, the remote control can be operated even if no batteries are loaded.



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

Operating Range

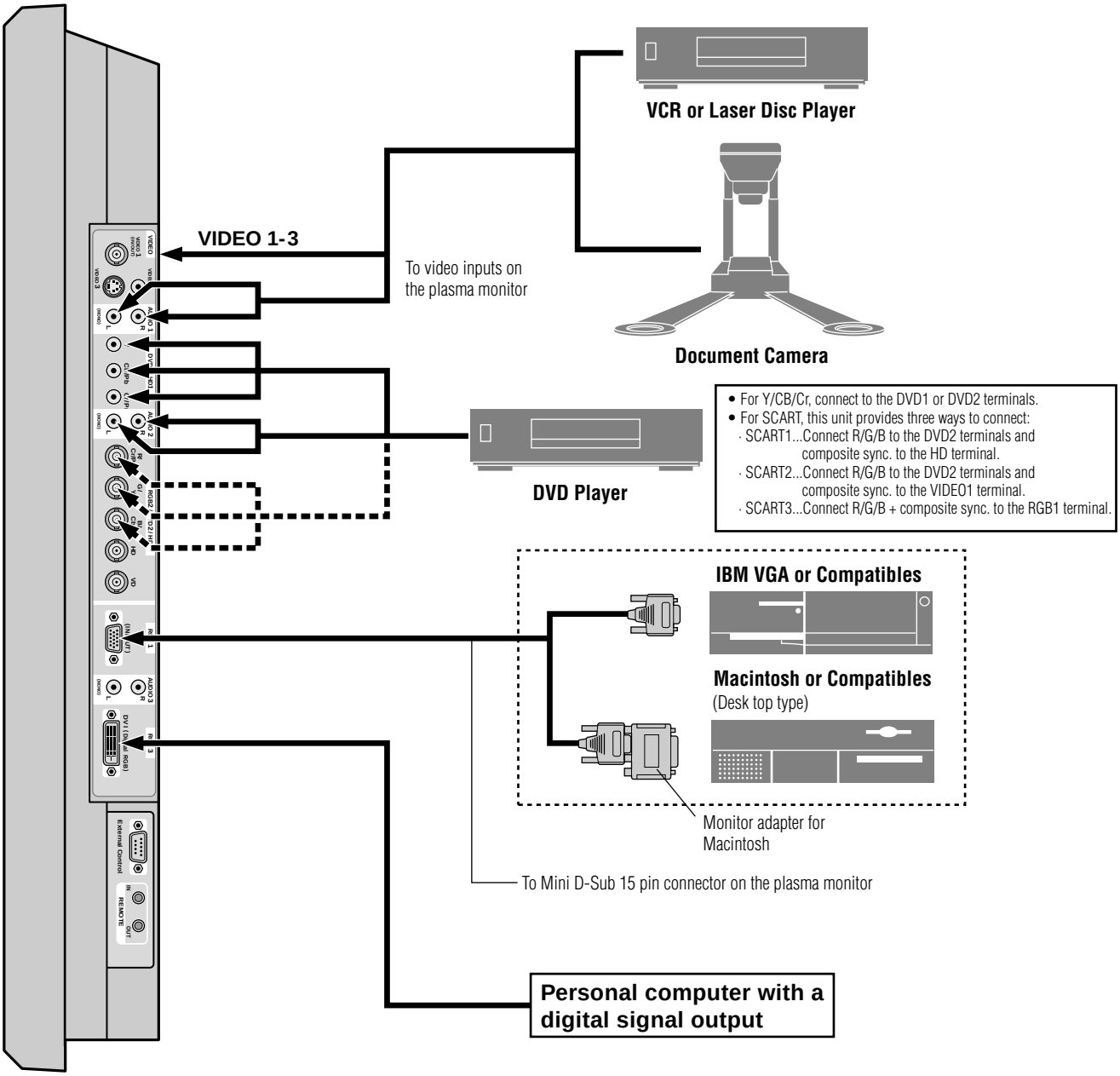
* Use the remote control within a distance of about 7 m/ 23ft. from the front of the monitor's remote control sensor and at horizontal and vertical angles of up to approximately 30°.
* The remote control operation may not function if the monitor's remote control sensor is exposed to direct sunlight or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



Handling the remote control

- 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.

Installation



Note: *This plasma monitor has the capasity 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.
Please refer to page E-25 for selection of the correct mode in the on-screen manager.

Connecting Your PC or Macintosh Computer

Connecting your PC or Macintosh computer to your plasma monitor will enable you to display your computer's screen image for an impressive presentation. The plasma monitor supports the signals described on page E-43.
To connect a PC, Macintosh or compatible graphics adapter, simply:

1. Turn off the power to your plasma monitor and computer.
2. If your PC does not support SXGA/XGA/SVGA/VGA you will need to install an SXGA/XGA/SVGA/VGA graphics board. Consult your computer's owner's manual for your SXGA/XGA/SVGA/VGA configuration. If you need to install a new board, see the manual that comes with your new graphics board for installation instructions.
3. This plasma monitor provides signal compatibility up to VESA 1600×1200 (UXGA). However, it is not recommended to use this resolution due to image readability on the monitor's native pixel resolution panel.
4. Use the signal cable to connect your PC or Macintosh computer to the plasma monitor. For Macintosh, use the monitor adapter to connect to your computer's video port, if necessary.
5. Turn on the plasma monitor and the computer.
6. If the plasma monitor goes blank after a period of inactivity, it may be caused by a screen saver installed on the computer you've connected to the plasma monitor.

When using a Macintosh with the plasma monitor, the following four display standards are supported using the Macintosh adapter :

13" fixed mode
16" fixed mode
19" fixed mode
21" fixed mode

The 13" fixed mode is recommended for your 42Wide VGA, and the 19" fixed mode is recommended for your 42XGA/ 50XGA.

Connections with Equipment that have a Digital Interface

Connections can be made with equipment that is equipped with a digital interface compliant with the DVI (Digital Visual Interface) standard.

* Use a DVI 24-pin signal cable and the ferrite cores (supplied) when making connections to the RGB3 (DVI) connector of the main unit.
  Note that the RGB3 (DVI) terminal does not support analog RGB input source.

Note:

1. *Input TMDS signals conforming to DVI standards. The TMDS input corresponds to 1 link.*
2. *To maintain display quality, use a cable with a quality prescribed by DVI standards that is within 5 meters in length.*

Connecting Your Document Camera

You can connect your plasma monitor to a document camera. To do so, simply:

1. Turn off the power to your plasma monitor and document camera.
2. Use a standard video cable to connect your document camera to the Video input on your plasma monitor.
3. Turn on the plasma monitor and the document camera.

Note: *Refer to your document camera owner's manual for more information about your camera's video output requirements.*

Connecting Your VCR or Laser Disc Player

Use common RCA cables (not provided) to connect your VCR or laser disc player to your plasma monitor. To make these connections, simply:

1. Turn off the power to your plasma monitor and VCR or laser disc player.
2. Connect one end of your RCA cable to the video output connector on the back of your VCR or laser disc player, connect the other end to the Video input on your plasma monitor. Use standard RCA audio patch cords to connect the audio from your VCR or laser disc player to your plasma monitor (if your VCR or laser disc player has this capability). Be careful to keep your right and left channel connections correct for stereo sound.
3. Turn on the plasma monitor and the VCR or laser disc player.

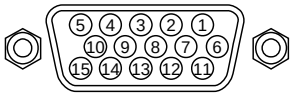
Note: *Refer to your VCR or laser disc player owner's manual for more information about your equipment's video output requirements.*

Connecting Your DVD Player

You can connect your plasma monitor to a DVD player. To do so, simply:

1. Turn off the power to your plasma monitor and DVD player.
2. Use a component video cable to connect your DVD player to the Y, Cb, and Cr inputs on your plasma monitor.
   Or use the DVD-player's S-Video output. Use a standard S-Video cable to connect to the S-Video input on the plasma monitor.
3. Turn on the plasma monitor and the DVD player.

Pin Assignments and Signal Levels for 15 pin RGB (Analog)

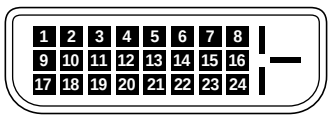


Pin No.	Signal (Analog)
1	Red
2	Green or sync-on-green
3	Blue
4	No connection
5	Ground
6	Red ground
7	Green ground
8	Blue ground
9	No connection
10	Sync signal ground
11	No connection
12	Bi-directional DATA (SDA)
13	Horizontal sync or Composite sync
14	Vertical sync
15	Data clock

Pin Configuration and Signal of the RGB 3 Connector (DVI Connector)

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



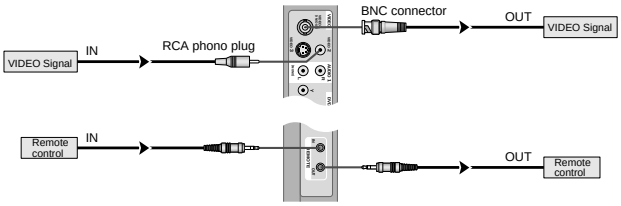
Pin No.	Signal (Digital)
1	T.M.D.S Data 2 -
2	T.M.D.S Data 2 +
3	T.M.D.S Data 2 Shield
4	No connection
5	No connection
6	DDC Clock
7	DDC Data
8	No connection
9	T.M.D.S Data 1 -
10	T.M.D.S Data 1 +
11	T.M.D.S Data 1 Shield
12	No connection
13	No connection
14	+5V Power
15	Ground
16	Hot Plug Detect
17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

Creating a video wall

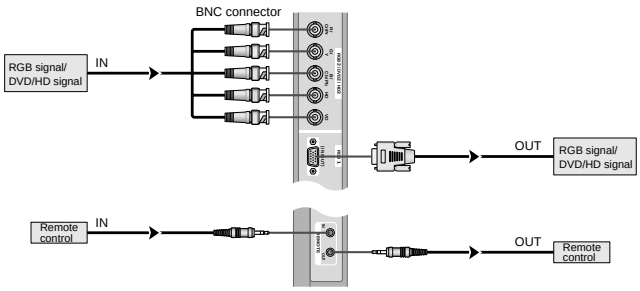
With buit-in matrix display capability, you can create a 2×2 or 3×3 video wall.

• Connect signal cables and remote cables as shown below.

Video signal



RGB/DVD/HD signal



Note:

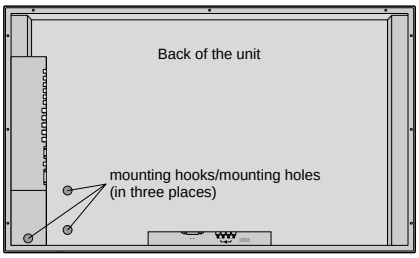
1. *The VIDEO1 and RGB1 terminals can be used for either INPUT or OUTPUT. When LOOP OUT is ON, do not connect an OUTPUT signal from another unit, that will place an extraordinary load on the other unit and may damage it.*
2. *LOOP OUT can not be turned ON while signals are input to RGB1 terminal.*
3. *LOOP OUT can be turned ON while signals are input to 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 1~2m (3.3~6.6 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, maximaly 4-screen is rough-standard with lower than 1024×768, 60Hz signal.
- A distribution amplifier is particularly recommended when using a 9-screen video wall.
- From the second monitor onward, connections require a BNC-RCA conversion cable or connector, a mini D-Sub 15 pin cable-BNC (×5) cable or a conversion connector.

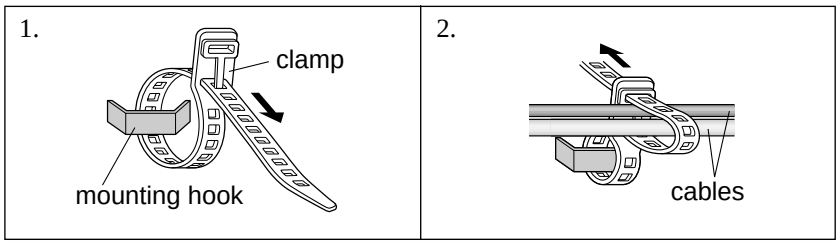
Cable Management

Using the cable-clamps provided with the plasma display, bundle at the back of the unit the signal and audio cables connected to the display.

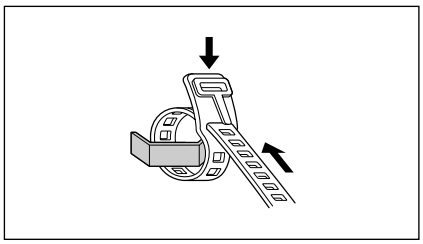


42-Inch Type

To attach

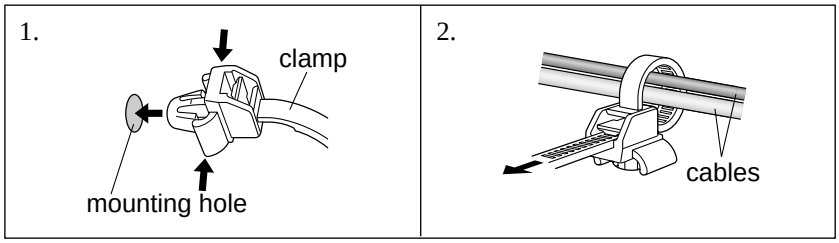


To detach

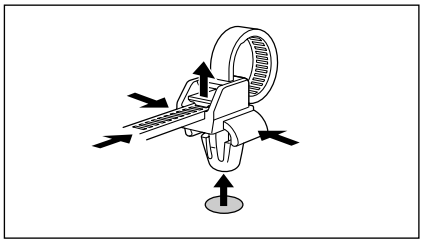


50-Inch Type

To attach



To detach



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 ON button (on the remote control or control panel) to turn on the unit.

   The monitor's POWER/STANDBY indicator will light up (green) when the unit is on.
3. Press the POWER OFF button (on the remote control or control panel) 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 cancel the sound:

Press the MUTE button on the remote control to cancel the sound; press again to restore.

DISPLAY

To check the settings:

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

DIGITAL ZOOM

Digital zoom specifies the picture position and enlarges the picture.

1. 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:
   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 with the superimposed caption displayed fully only when the picture contains dark areas above and below the picture.

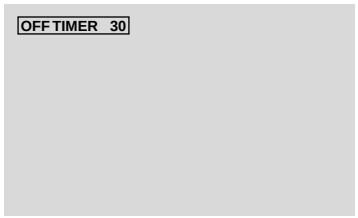
OFF TIMER

To set the off timer:

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

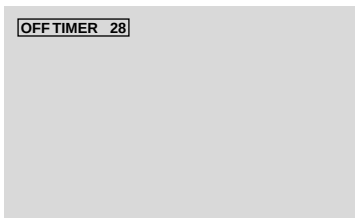
1. Press the OFF TIMER button to start the timer at 30 minutes.
2. Press the OFF TIMER button to the desired time.
3. The timer starts when the menu turns off.

→ **30** → **60** → **90** → **120** → **0**



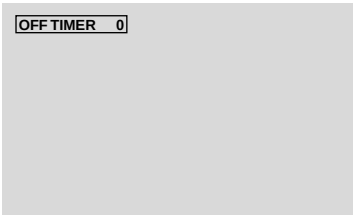
To check the remaining time:

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 of the monitor.

WIDE Operations

Wide Screen Operation (manual)

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

When viewing videos or digital video discs

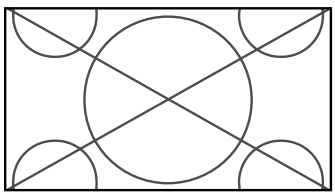
1. Press the WIDE button on the remote control.
2. *Within 3 seconds ...*

   Press the WIDE button again.

   The screen size switches as follows:

   → ZOOM → NORMAL → FULL → STADIUM → 14:9 →

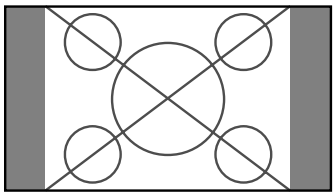
ZOOM size screen



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

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

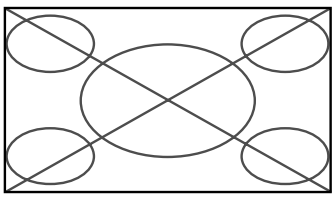
NORMAL size screen (4:3)



The normal size screen is displayed.

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

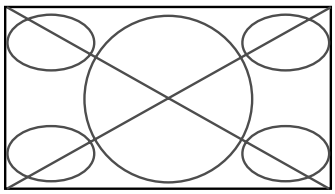
FULL size screen



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.)

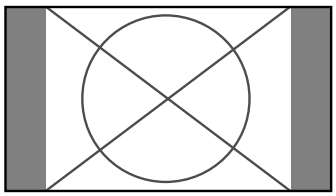
STADIUM size screen



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.

14:9 size screen



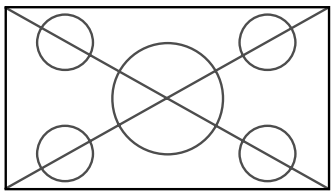
The image is displayed at a 14:9 aspect ratio.

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

When viewing a high definition video source

1. Press the WIDE button on the remote control.

FULL size screen (16 : 9)



The full size screen is displayed.

* The picture has the same size as video pictures (16 : 9).

Wide Screen Operation with Computer Signals

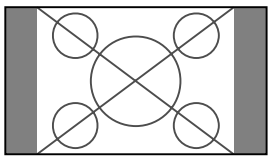
Switch to the wide screen mode to expand the 4 : 3 image to fill the entire screen.

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

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

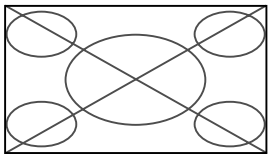
→ **NORMAL** → **FULL** → **ZOOM**

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



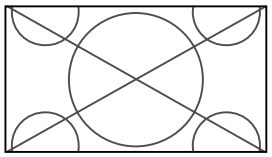
The picture has the same size as the normal computer image.

FULL size screen



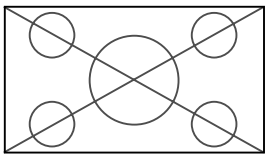
The image is expanded in the horizontal direction.

ZOOM size screen



When wide signals are input.

FULL size screen

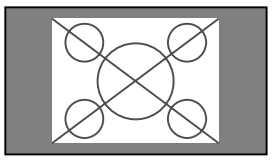


When "PICTURE SIZE" is set to "OFF"

* This function is available only for 50XGA.
The screen size switches as follows:

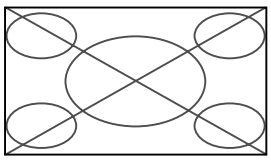
→ **TRUE** → **FULL** → **ZOOM**

TRUE size screen (VGA, SVGA 4:3)



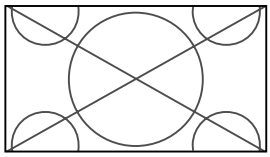
The image is true resolution.

FULL size screen



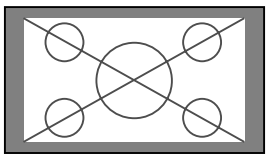
The image is expanded in the horizontal and vertical direction.

ZOOM size screen



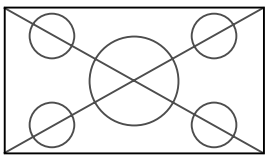
When wide signals are input.

TRUE



The image is true resolution.

FULL



Information

■ Supported resolution

See page E-43 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 E-43.

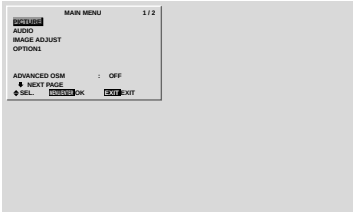
* " IBM PC/AT" and "VGA" are registered trademarks of IBM, Inc. of the United States.

OSM(On Screen Menu) Controls

Menu Operations

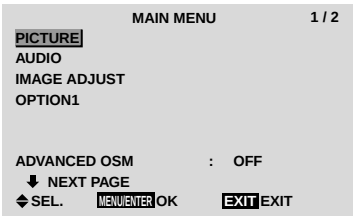
The OSM window is displayed with respect to the screen as shown on the diagram.

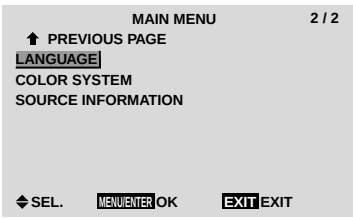
* Depending on the screen's mode, the OSM may be displayed differently.
  In the explanation, the OSM section is shown close up.



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

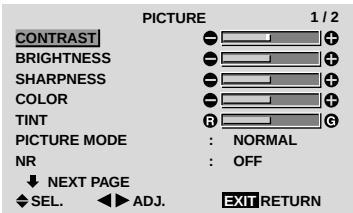
1. Press the MENU/ENTER button on the remote control to display the MAIN MENU.





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 submenu 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 the settings that are stored in memory.
   The change is stored until you change it again.

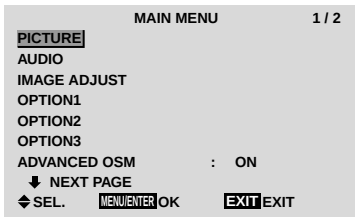
6. Repeat steps 2 – 5 to adjust an additional item, or press the EXIT button on the remote control to return to the main menu.

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.



Main menu	Sub menu		Functions	Default	Reset
PICTURE	CONTRAST		Adjusts the contrast.	Center	Yes
	BRIGHTNESS		Adjusts the brightness.	Center	Yes
	SHARPNESS		Adjusts the sharpness.	Center	Yes
	COLOR		Adjusts the color.	Center	Yes
	TINT		Adjusts the tint.	Center	Yes
	PICTURE MODE		Sets the picture mode according to the VIDEO environment and image software.	NORMAL	Yes
	NR		Reduces noise visible in image.	OFF	Yes
	COLOR TEMP		Adjusts the color temperature and white balance.	Mid	Yes
	WHITE BALANCE	GAIN RED	Adjusts the red content (signal level).	Center	Yes
		GAIN GREEN	Adjusts the green content (signal level).	Center	Yes
		GAIN BLUE	Adjusts the blue content (signal level).	Center	Yes
		BIAS RED	Adjusts the red content (black level).	Center	Yes
		BIAS GREEN	Adjusts the green content (black level).	Center	Yes
		BIAS BLUE	Adjusts the blue content (black level).	Center	Yes
		RESET	Resets WHITE BALANCE settings to the factory default values.	OFF	Yes
	GAMMA		Adjusts the brightness of midtone areas.	2	Yes
	LOW TONE		Enables high-quality dark area reproduction.	AUTO	Yes
	COLOR TUNE	RED	Adjusts hue and color density of red.	Center	Yes
		GREEN	Adjusts hue and color density of green.	Center	Yes
		BLUE	Adjusts hue and color density of blue.	Center	Yes
		YELLOW	Adjusts hue and color density of yellow.	Center	Yes
		MAGENTA	Adjusts hue and color density of magenta.	Center	Yes
		CYAN	Adjusts hue and color density of cyan.	Center	Yes
		RESET	Resets COLOR TUNE settings to the factory default values.	OFF	Yes

Main menu	Sub menu	Functions	Default	Reset
AUDIO	BASS	Sets the bass.	Center	Yes
	TREBLE	Sets the treble.	Center	Yes
	BALANCE	Sets the left/right balance.	Center	Yes
	AUDIO INPUT1~3	Sets the allocation of the audio connectors.	*1	Yes

Main menu	Sub menu	Functions	Default	Reset
IMAGE ADJUST	ASPECT MODE	Selects between the different aspect ratio modes.	—	—
	V-POSITION	Adjusts the vertical position.	Center	Yes
	H-POSITION	Adjusts the horizontal position.	Center	Yes
	V-HEIGHT	Adjusts the vertical size.	Min	Yes
	H-WIDTH	Adjusts the horizontal size.	Min	Yes
	AUTO PICTURE	Turn this on to have the monitor automatically adjust “FINE PICTURE” and “PICTURE ADJ”.	OFF*2	No
	FINE PICTURE	Adjusts for flickering on the computer image.	Min*2	Yes
	PICTURE ADJ.	Adjusts for striped patterns on the computer image.	Center*2	Yes

Main menu	Sub menu		Functions	Default	Reset
OPTION1	OSM	DISPLAY OSM	When set to OFF, the on-screen menu is not displayed.	ON	Yes
		OSM ADJ.	Sets the position of the menu.	1	Yes
		OSM ANGLE	Sets the display format as a horizontal or vertical screen.	H	Yes
		OSM ORBITER	Sets the OSM not to be displayed at the same position.	OFF	Yes
	BNC INPUT		Sets the BNC connectors.	RGB	Yes
	D-SUB INPUT		Sets the RGB1 connector.	RGB	—
	RGB SELECT		Sets the appropriate mode for the computer image. RGB (VGA signals), VIDEO (Moving picture), WIDE (Wide VGA), DTV.	AUTO	Yes
	HD SELECT		Sets the digital broadcasting (1080A,1080B, 1080C) or the High Vision (1035I).	1080B	No
	INPUT SKIP		Skips over signals which are not present.	OFF	Yes
	ALL RESET		Resets all the settings (PICTURE, AUDIO, IMAGE ADJUST, OPTION1~3, etc.) to the factory default values.	—	—

Main menu	Sub menu		Functions	Default	Reset
OPTION2	PWR. MGT.		Sets the monitor for use as an energy-saving display when used with a computer.	OFF	Yes
	CINEMA MODE		Sets the picture to suit the movie.	ON	Yes
	LONG LIFE	PLE	Limits screen brightness to reduce burn-in of the display.	AUTO	Yes
		ORBITER	Moves the picture intermittently.	OFF	Yes
		INVERSE	Displays a negative/positive inverse image or an all-white screen.	OFF	Yes
		SCREEN WIPER	Wipes the screen with a white vertical bar.	OFF	Yes
	GRAY LEVEL		In case of 4 : 3, sets the luminance of both sides.	3	Yes
	PICTURE SIZE*3		Sets the picture size for RGB input.	ON	Yes

Main menu	Sub menu		Functions	Default	Reset
OPTION3	TIMER	PRESENT TIME	Sets the day of the week and the time.	—	No
		PROGRAM	Sets the ON/OFF time for switching on the power and the input mode.	OFF	Yes
	PWR. ON MODE		Sets the input mode at the time the power is switched on.	LAST	Yes
	CONTROL LOCK		Disables the function of the front panel buttons.	OFF	Yes
	IR REMOTE		Disables the transmission of the remote control.	ON	Yes
	LOOP OUT		When set to ON, the received signal will be looped out.	OFF	Yes
	ID NUMBER		Sets ID number for the display.	ALL	Yes
	VIDEO WALL	DIVIDER	Creates a 2×2 or 3×3 video wall.	OFF	Yes
		POSITION	Sets the position.	—	—
		DISP. MODE	Selects the screen mode from between Splitting and Blanking.	SPLIT	Yes
		AUTO ID	Automatically sets the ID number of multiple displays.	OFF	Yes
		IMAGE ADJUST	Adjusts the position of the image, etc.	—	—
		P. ON DELAY	When set to ON, each display turns on after a delay time.	OFF	Yes
		PLE LINK	Sets a uniform brightness for each display.	OFF	Yes
		REPEAT TIMER	Sets two programmable timers.	OFF	Yes

Main menu	Sub menu		Functions	Default	Reset
ADVANCED OSM			Turn this ON to access full menu.	OFF	Yes
LANGUAGE			Sets the language of the menus (English, German, French, Swedish, Italian, Spanish or Chinese).	English	No
COLOR SYSTEM			Sets the VIDEO format (AUTO, PAL, PAL-M, PAL-N, PAL60, SECAM, 4.43 NTSC or 3.58 NTSC).	AUTO	No
SOURCE INFORMATION			Used to check the frequency and synchronizing polarities of the active signal being input.	—	—

* Menu items in a ruled box are available when the ADVANCED OSM is set to ON.
*1 AUDIO INPUT 1: VIDEO1 AUDIO INPUT 2: HD/DVD1 AUDIO INPUT 3: RGB1
*2 RGB/PC only
*3 50XGA only

Picture Settings Menu

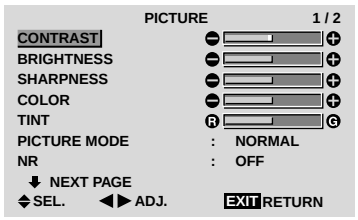
Adjusting the picture

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

Example: Adjusting the contrast

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select “PICTURE”, then press the MENU/ENTER button.
   The “PICTURE” screen appears.
2. Use the ▲ and ▼ buttons to select “CONTRAST”.



3. Use the ◀ and ▶ buttons to adjust the contrast.

* If neither the ◀ or ▶ button is pressed within 5 seconds, the current setting is set and the previous screen reappears.

4. *Once the adjustment is completed ...*
   Press the EXIT button to return to the main menu. To delete the main menu, press the EXIT button once more.

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.

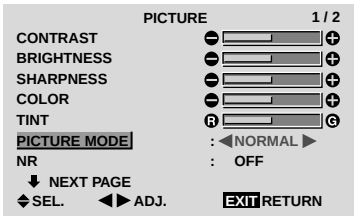
Setting the picture mode according to the brightness of the room

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

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select “PICTURE”, then press the MENU/ENTER button.
   The “PICTURE” screen appears.
2. Use the ▲ and ▼ buttons to select “PICTURE MODE”.



3. *To set to “THEAT. 1” ...*
   Use the ◀ and ▶ buttons to select “THEAT. 1”.
   The mode switches as follows when the ◀ and ▶ buttons are pressed:

→ NORMAL ↔ THEAT. 1 ↔ THEAT. 2 ↔ DEFAULT ←

* If neither the ◀ or ▶ button is pressed within 5 seconds, the current selection is set and the previous screen reappears.

4. *Once the adjustment is completed ...*
   Press the EXIT button to return to the main menu. To delete the main menu, press the EXIT button once more.

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.
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.

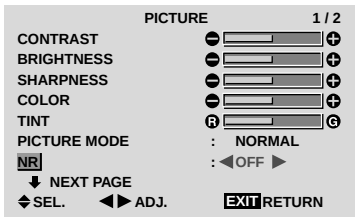
Reducing noise in the picture

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”

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select “PICTURE”, then press the MENU/ENTER button.
   The “PICTURE” screen appears.
2. Use the ▲ and ▼ buttons to select “NR”.



3. Use the ◀ and ▶ buttons to select “NR-3”.
   The mode switches as follows when the ◀ and ▶ buttons are pressed:

→ **OFF** ↔ **NR-1** ↔ **NR-2** ↔ **NR-3** ←

* If neither the ◀ or ▶ button is pressed within 5 seconds, the current selection is set and the previous screen reappears.

4. *Once the setting is completed ...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

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.

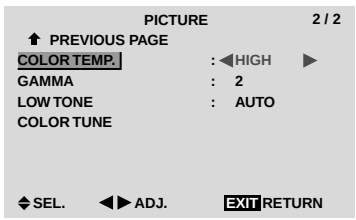
Example: Setting “HIGH”

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select “PICTURE”, then press the MENU/ENTER button.
   The “PICTURE” screen appears.
2. Use the ▲ and ▼ buttons to select “COLOR TEMP.”.
3. Use the ◀ and ▶ buttons to select “HIGH”.
   The mode switches as follows when the ◀ and ▶ buttons are pressed:

→ **LOW** ↔ **MID LOW** ↔ **MID** ↔ **HIGH** ←

* See below to set “WHITE BALANCE”.



* If neither the ◀ or ▶ button is pressed within 5 seconds, the current selection is set and the previous screen reappears.

4. *Once the setting is completed...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

Information

■ Setting the color temperature

LOW ..... Redder
MID LOW ..... Slightly redder
MID ..... Standard (slightly bluer)
HIGH ..... Bluer

■ Restoring the factory default settings

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

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 (1/2), then perform the following operations.

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

Perform Steps 1-3 of COLOR TEMP., then...

4. Press the MENU/ENTER button.
   The “WHITE BALANCE” screen appears.

5. Use the ▲ and ▼ buttons to select “GAIN RED”.

6. Adjust the white balance using the ◀ and ▶ buttons.

* If neither the ◀ or ▶ button is pressed within 5 seconds, the current setting is set and the previous screen reappears.

7. *Once the adjustment is completed...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

Information

■ Adjusting the white balance

GAIN R/G/B ..... White balance adjustment for signal 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.

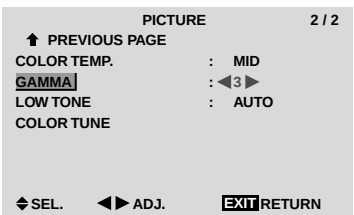
Example: Setting “3”

Set “ADVANCED OSM” to “ON” in the MAIN MENU (1/2), then perform the following operations.

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select “PICTURE”, then press the MENU/ENTER button.
   The “PICTURE” screen appears.
2. Use the ▲ and ▼ buttons to select “GAMMA”.
3. Use the ◀ and ▶ buttons to select “3”.
   The mode switches as follows each time the ◀ or ▶ button is pressed:

   → **1** ↔ **2** ↔ **3** ↔ **4** ←



4. *Once the setting is completed...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

Information

■ GAMMA settings

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

■ Restoring the factory default settings

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

Making the Low Tone adjustments

This feature allows more detailed tone to be reproduced especially in the dark area.

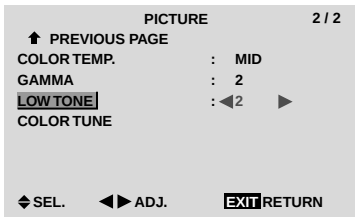
Example: Setting “2”

Set “ADVANCED OSM” to “ON” in the MAIN MENU (1/2), then perform the following operations.

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select “PICTURE”, then press the MENU/ENTER button.
   The “PICTURE” screen appears.
2. Use the ▲ and ▼ buttons to select “LOW TONE”.
3. Use the ◀ and ▶ buttons to select “2”.
   The mode switches as follows each time the ◀ or ▶ button is pressed:

   → **AUTO** ↔ **1** ↔ **2** ↔ **3** ←



4. *Once the setting is completed...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

Information

■ LOW TONE settings

AUTO ..... Will automatically appraise the picture and make adjustments.

1 ..... Will apply the dither method suitable for still pictures.

2 ..... Will apply the dither method suitable for motion pictures.

3 ..... Will apply the error diffusion method.

■ Restoring the factory default settings

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

Adjusting the colors

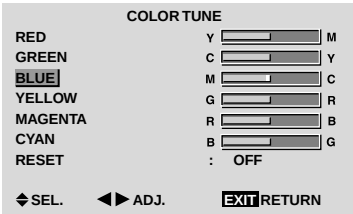
Use this procedure to adjust hue and color density for red, green, blue, yellow, magenta and cyan.
Such adjustments will not affect the other colors.
You can accentuate the green color of trees, the blue of the sky, etc.

Example: Adjusting the color tune for blue

Set "ADVANCED OSM" to "ON" in the MAIN MENU (1/2), then perform the following operations.

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select "PICTURE", then press the MENU/ENTER button.
   The "PICTURE" screen appears.
2. Use the ▲ and ▼ buttons to select "COLOR TUNE", then press the MENU/ENTER button.
   The "COLOR TUNE" screen appears.
3. Use the ▲ and ▼ buttons to select "BLUE".
4. Adjust using the ◀ and ▶ buttons.



* If neither the ◀ or ▶ button is pressed within 5 seconds, the current selection is set and the previous screen reappears.

To continue making other adjustments...
Repeat from step 3.

5. *Once the setting is completed...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

Information

■ COLOR TUNE settings

RED ..... Makes red's adjustment
GREEN ..... Makes green's adjustment
BLUE ..... Makes blue's adjustment
YELLOW ..... Makes yellow's adjustment
MAGENTA ..... Makes magenta's adjustment
CYAN ..... Makes cyan's adjustment
RESET ..... Resets settings to the factory default value. Use ◀ and ▶ buttons to select "ON", then press the MENU/ENTER button.

■ Restoring the factory default settings

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

Audio Settings Menu

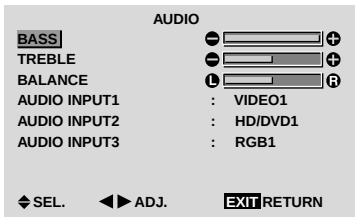
Adjusting the treble, bass and left/right balance and audio input select

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

Example: Adjusting the bass

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select "AUDIO", then press the MENU/ENTER button.
   The "AUDIO" screen appears.
2. *To adjust the bass ...*
   Use the ▲ and ▼ buttons to select "BASS".
3. Adjust the bass using the ◀ and ▶ buttons.



To continue adjusting the audio ...
Repeat from step 2.

4. *Once the adjustment is completed ...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

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.

■ Restoring the factory default settings

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

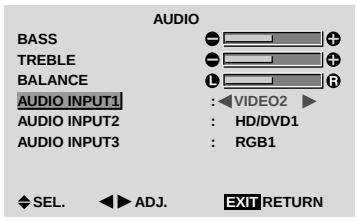
Setting the allocation of the audio connectors

Setting the AUDIO 1, 2, and 3 connectors to the desired input.

Example: Setting “AUDIO INPUT1” to “VIDEO 2”

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select “AUDIO”, then press the MENU/ENTER button.
   The “AUDIO” screen appears.
2. Use the ▲ and ▼ buttons to select “AUDIO INPUT1”.
3. *To set the AUDIO INPUT1 to “VIDEO2”...*
   Use the ◀ and ▶ buttons to select “VIDEO2”.
   The mode switches each time the ◀ or ▶ button is pressed, as shown in the table on page E-3.
   The available sources depend on the settings of “BNC INPUT” and “D-SUB INPUT”.



4. *Once the setting is completed...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

Information

■ AUDIO INPUT

A single audio input cannot be selected as the audio channel for more than one input terminal.

■ Restoring the factory default settings

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

Image Adjust Settings Menu

Adjusting the Position, Size, Fine Picture, Picture Adj

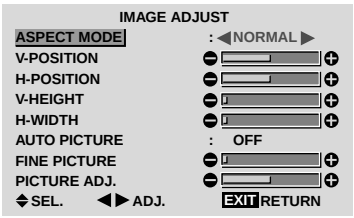
The position of the image can be adjusted and flickering of the image can be corrected.

Example: Adjusting the vertical position in the normal mode

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select “IMAGE ADJUST”, then press the MENU/ENTER button. The “IMAGE ADJUST” menu appears.

   Default settings (when RGB/PC is selected)



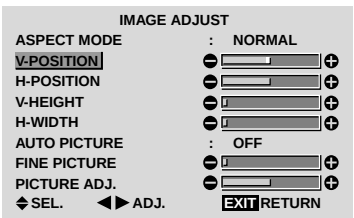
   * The settings on the IMAGE ADJUST menu are not preset at the factory.

   To select a mode ...
   Use the ◀ and ▶ buttons to select a mode.
   The mode switches as follows when the ◀ and ▶ buttons are pressed:

   NORMAL ↔ FULL

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

2. *To adjust the vertical position ...*
   Use the ▲ and ▼ buttons to select “V-POSITION”.



3. Adjust using the ◀ and ▶ buttons.

   * If neither the ◀ or ▶ button is pressed within 5 seconds, the current setting is set and the previous screen reappears.

   To continue making other computer image adjustments ...
   Repeat from step 2.

4. *Once all adjustments are completed ...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

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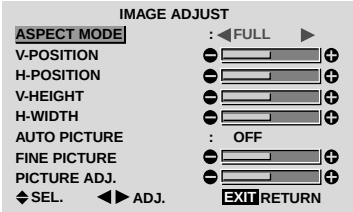
Information

■ 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 won’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. (Except for STADIUM mode)

H-WIDTH ..... Adjusts the horizontal size of the image. (Except for STADIUM mode)

FINE PICTURE* .. Adjusts for flickering.

PICTURE ADJ.* ... Adjusts for striped patterns on the image.

* 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, HD/DVD or RGB.

■ Restoring the factory default settings

Select “ALL RESET” under the OPTION1 menu. Note that this also restores other settings to the factory defaults except for Auto Picture.

Option1 Settings Menu

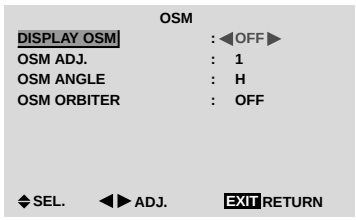
Setting the on-screen menu

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

Example: Turning the DISPLAY OSM off

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select “OPTION1”, then press the MENU/ENTER button. The “OPTION1” menu appears.
2. Use the ▲ and ▼ buttons to select “OSM”, then press the MENU/ENTER button. The “OSM” menu appears.
3. Use the ▲ and ▼ buttons to select “DISPLAY OSM”.
4. *To set the DISPLAY OSM to “OFF”...*
   Use the ◀ and ▶ buttons to select “OFF”.
   The mode switches as follows each time the ◀ or ▶ button is pressed:
   ON ↔ OFF



5. *Once the setting is completed...*
   Press the EXIT button to return to the OPTION1 menu. To return to the main menu, press the EXIT button once more.

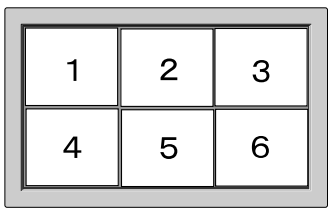
Information

■ DISPLAY OSM settings

ON ..... The on-screen menu appears.
OFF ..... The on-screen menu does not appear.
If you press the DISPLAY button on the remote control for more than 3 seconds the main menu will appear and can be set (although it is not ON).

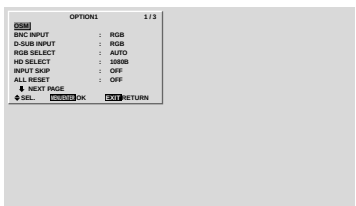
■ OSM ADJUST settings

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

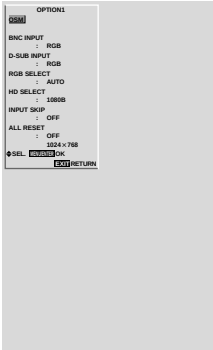


■ OSM ANGLE settings

Sets the display format (landscape “H” or portrait “V”).
“H”



"V"



Only effective when Advanced OSM is OFF.

■ 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.

■ Restoring the factory default settings

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

Setting the BNC connectors

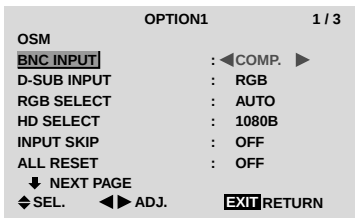
Select whether to set the input of the 5 BNC connectors to RGB, component or SCART1,2.

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

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select "OPTION1", then press the MENU/ENTER button.
   The "OPTION1" screen appears.
2. Use the ▲ and ▼ buttons to select "BNC INPUT".
3. *To set the BNC INPUT mode to "COMP."...*
   Use the ◀ and ▶ buttons to select "COMP.".
   The mode switches as follows each time the ◀ or ▶ button is pressed:

   →RGB ↔ COMP. ↔ SCART1 ↔ SCART2←



4. *Once the setting is completed...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

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 E-8.
SCART2 ..... Use the 3BNC terminals for RGB and the VIDEO1 terminal for composite sync. See page E-8.

■ Restoring the factory default settings

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

Setting the RGB1 connector

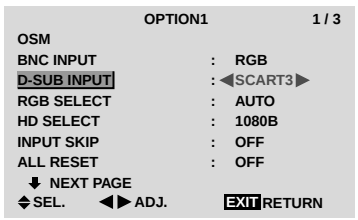
Select one of the signals being transmitted to the RGB1 terminal.

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

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then ...

1. Use the ▲ and ▼ buttons to select "OPTION1", then press the MENU/ENTER button.
   The "OPTION1" screen appears.
2. Use the ▲ and ▼ buttons to select "D-SUB INPUT".
3. *To set the D-SUB INPUT mode to "SCART3"...*
   Use the ◀ and ▶ buttons to select "SCART3".
   The mode switches as follows each time the ◀ or ▶ button is pressed:

   RGB ↔ SCART3



4. *Once the setting is completed...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

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 E-8.

Setting a computer image to the correct RGB select screen

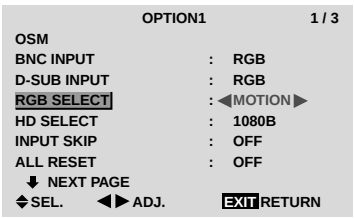
With the computer image, select the RGB Select mode for a moving image such as (video) mode, wide mode or digital broadcast.

Example: Setting the “RGB SELECT” mode to “MOTION ”

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select “OPTION1”, then press the MENU/ENTER button.
   The “OPTION1” screen appears.
2. Use the ▲ and ▼ buttons to select “RGB SELECT”.
3. *To set the RGB select mode to “MOTION” ...*
   Use the ◀ and ▶ buttons to select “MOTION”.
   The mode switches as follows each time the ◀ or ▶ button is pressed:

   → **AUTO** ↔ **STILL** ↔ **MOTION** ↔ **WIDE1** ↔ **WIDE2** ↔ **DTV** ←



4. *Once the setting is completed ...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

Information

■ RGB SELECT modes

One of these 6 modes must be selected in order to display the following signals correctly.

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 E-43.

STILL ..... To display VESA standard signals. (Use this mode for a still image from a computer.)

MOTION ..... The video signal (from a scan converter) will be converted to RGB signals to make the picture more easily viewable. (Use this mode for a motion image from a computer.)

WIDE1 ..... When an 852 dot × 480 line signal with a horizontal frequency of 31.7kHz is input, the image may be compressed horizontally. To prevent this, set RGB SELECT to WIDE1.

WIDE2 ..... When an 848 dot × 480 line signal with a horizontal frequency of 31.0 kHz is input, the image may be compressed horizontally. To prevent this, set RGB SELECT to WIDE2.

DTV ..... Set this mode when watching digital broadcasting (480P).

See page E-43 for the details of the above settings.

■ Restoring the factory default settings

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

Setting high definition images to the suitable screen size

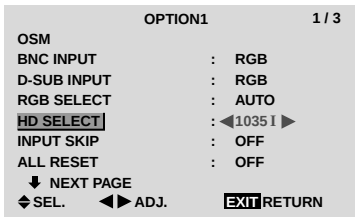
Use this procedure to set whether the number of vertical lines of the input high definition image is 1035 or 1080.

Example: Setting the “1080B” mode to “1035I”

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select “OPTION1”, then press the MENU/ENTER button.
   The “OPTION1” screen appears.
2. Use the ▲ and ▼ buttons to select “HD SELECT”.
3. *To set the HD SELECT mode to “1035I” ...*
   Use the ◀ and ▶ buttons to select “1035I”.
   The mode switches as follows each time the ◀ or ▶ button is pressed:

   → **1080B** ↔ **1035I** ↔ **1080A** ←



4. *Once the setting is completed ...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

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)

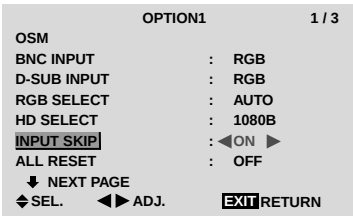
Setting the Input Skip

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”

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select “OPTION1”, then press the MENU/ENTER button.
   The “OPTION1” screen appears.
2. Use the ▲ and ▼ buttons to select “INPUT SKIP”.
3. *To set the INPUT SKIP mode to “ON”...*
   Use the ◀ and ▶ buttons to select “ON”.
   The mode switches as follows each time the ◀ or ▶ button is pressed:
   OFF ↔ ON



4. *Once the setting is completed...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

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.

■ Restoring the factory default settings

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

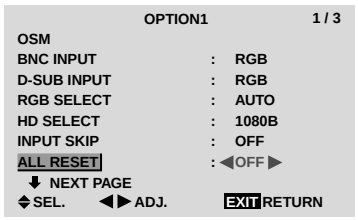
Resetting to the default values

Use these operations to restore all the settings (PICTURE, AUDIO, IMAGE ADJUST, OPTION1~3, etc) to the factory default values.

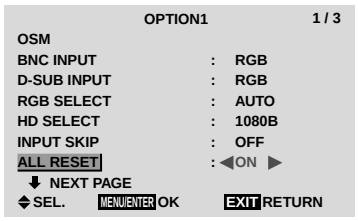
Refer to page E-17 for items to be reset.

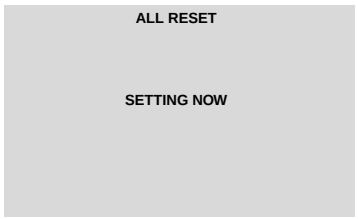
Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select “OPTION1”, then press the MENU/ENTER button.
   The “OPTION1” screen appears.
2. Use the ▲ and ▼ buttons to select “ALL RESET”.



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





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

4. *Once the setting is completed ...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

Option2 Settings Menu

Setting the power management for computer images

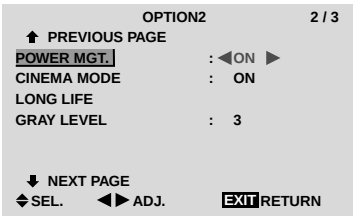
This energy-saving (power management) function automatically reduces the monitor's power consumption if no operation is performed for a certain amount of time.

Example: Turning the power management function on

Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select "OPTION2", then press the MENU/ENTER button.
   The "OPTION2" screen appears.
2. Use the ▲ and ▼ buttons to select "PWR. MGT.".
3. *To turn the power management function on ...*
   Use the ◀ and ▶ buttons to select "ON".
   The mode switches as follows each time the ◀ or ▶ button is pressed:
   ON ↔ OFF



4. *Once the setting is completed ...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

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 page E-28 for indicator status and description.

■ Restoring the factory default settings

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

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

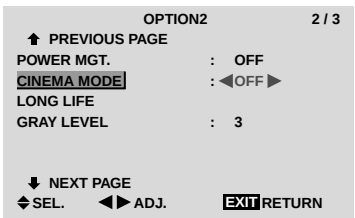
The film image is automatically discriminated and projected in an image mode suited to the picture.
[NTSC, PAL, PAL60, 480I (60Hz), 525I (60Hz), 576I (50Hz), 625I (50Hz), 1035I (60Hz), 1080I (60Hz) only]

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

Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select "OPTION2", then press the MENU/ENTER button.
   The "OPTION2" screen appears.
2. Use the ▲ and ▼ buttons to select "CINEMA MODE".
3. *To set the CINEMA MODE to "OFF" ...*
   Use the ◀ and ▶ buttons to select "OFF".
   The mode switches as follows each time the ◀ or ▶ button is pressed:
   ON ↔ OFF



4. *Once the setting is completed ...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

Information

■ CINEMA MODE

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

■ Restoring the factory default settings

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

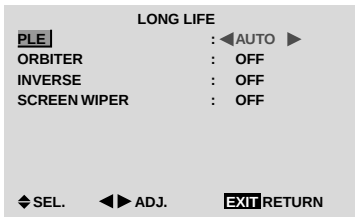
Reducing burn-in of the screen

The brightness of the screen, the position of the picture, positive/negative mode and screen wiper are adjusted to reduce burn-in of the screen.

Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select "OPTION2", then press the MENU/ENTER button.
   The "OPTION2" screen appears.
2. Use the ▲ and ▼ buttons to select "LONG LIFE", then press the MENU/ENTER button.
   The "LONG LIFE" screen appears.



3. Set the LONG LIFE mode using ▲▼◀ and ▶ buttons.
   See page E-29 to set PLE.
   See page E-29 to set ORBITER.
   See page E-30 to set INVERSE.
   See page E-31 to set SCREEN WIPER.
4. *Once the setting is completed...*
   Press the EXIT button to return to the OPTION2 screen.
   To return to the main menu, press the EXIT button once more.

Information

■ Restoring the factory default settings

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

PLE (Peak Luminance Enhancement)

Use this to activate the brightness limiter.

Example: Setting "PLE" to "LOCK1"

Perform Steps 1-2 of LONG LIFE, then...

3. Use the ▲ and ▼ buttons to select "PLE".
4. Use the ◀ and ▶ buttons to select "LOCK1".
   The mode switches as follows each time the ◀ or ▶ button is pressed:

→AUTO ↔ LOCK1 ↔ LOCK2 ↔ LOCK3←

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

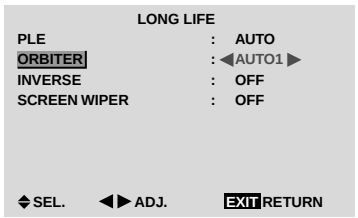
Use this to set the picture shift.

Example: Setting "ORBITER" to "AUTO1"

Perform Steps 1-2 of LONG LIFE, then...

3. Use the ▲ and ▼ buttons to select "ORBITER".
4. Use the ◀ and ▶ buttons to select "AUTO1".
   The mode switches as follows each time the ◀ or ▶ button is pressed:

→OFF ↔ AUTO1 ↔ AUTO2 ↔ MANUAL←



Information

■ ORBITER settings

OFF ..... Orbiter mode does not function.
AUTO1 ..... The picture moves around the screen intermittently, making the picture smaller.
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.

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 3 lines vertically every 3 minutes.

Perform Steps 1-3 of ORBITER, then...

4. Use the ◀ and ▶ buttons to select “MANUAL”, then press the MENU/ENTER button.
   THE “ORBITER” screen appears.
5. Adjust the items using the ▲▼◀ and ▶ buttons.
   The mode switches as follows each time the ◀ or ▶ button is pressed:
   • H-DOT

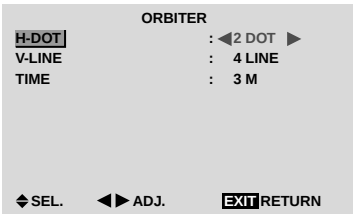
   →1 DOT ↔ 2 DOT ↔ ..... ↔ 19 DOT ↔ 20 DOT←

   • V-LINE

   →1 LINE ↔ 2 LINE ↔ ..... ↔ 19 LINE ↔ 20 LINE←

   • TIME

   →1 M ↔ 2 M ↔ 3 M ↔ 4 M ↔ 5 M←



Information

■ ORBITER Function settings

H-DOT ..... Moves from 1 to 20 dots in the horizontal direction.
V-LINE ..... Moves from 1 to 20 lines in the vertical direction.
TIME ..... Interval of 1~5 minutes.

INVERSE

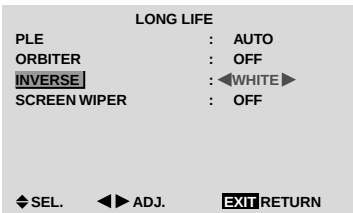
Use this to set the inverse mode or to display a white screen.

Example: Setting “INVERSE” to “WHITE”

Perform Steps 1-2 of LONG LIFE, then...

3. Use the ▲ and ▼ buttons to select “INVERSE”.
4. Use the ◀ and ▶ buttons to select “WHITE”.
   The mode switches as follows each time the ◀ or ▶ button is pressed:

   →OFF ↔ ON ↔ 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.

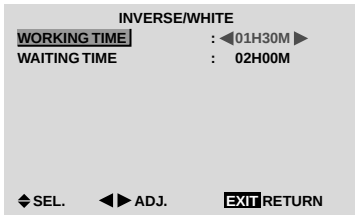
Perform Steps 1-3 of INVERSE, then...

4. Use the ◀ and ▶ buttons to select “ON”, then press the MENU/ENTER button.
   THE “INVERSE/WHITE” screen appears.
5. Adjust the time using the ▲▼◀ and ▶ buttons.
   The mode switches as follows each time the ◀ or ▶ button is pressed:
   • WORKING TIME

   →ON ↔ 00H03M ↔ 00H06M ↔ ..... ↔ 12H42M ↔ 12H45M←

   • WAITING TIME

   →00H03M ↔ 00H06M ↔ 00H09M ↔ ... ↔ 12H42M ↔ 12H45M←



6. *Once the setting is completed...*
   Press the EXIT button to return to the LONG LIFE screen.

Information

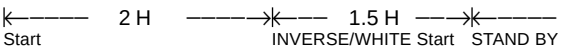
■ Setting the time

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 be STAND BY.

[Example]
WORKING TIME: 01H30M
WAITING TIME: 02H00M



■ 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"

Perform Steps 1-2 of LONG LIFE, then...

3. Use the ▲ and ▼ buttons to select "SCREEN WIPER".
4. Use the ◀ and ▶ buttons to select "ON".
   The mode switches as follows each time the ◀ or ▶ button is pressed:
   OFF ↔ 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.

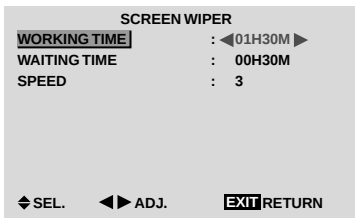
Setting the time for SCREEN WIPER

Set a time duration and the speed.

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

Perform Steps 1-3 of SCREEN WIPER, then...

4. Use the ◀ and ▶ buttons to select "ON", then press the MENU/ENTER button.
   THE "SCREEN WIPER" screen appears.
5. Adjust the time and speed using the ▲▼◀ and ▶ buttons.
   The mode switches as follows each time the ◀ or ▶ button is pressed:
   • WORKING TIME
   →ON ↔ 00H03M ↔ 00H06M ↔ ..... ↔ 12H42M ↔ 12H45M←
   • WAITING TIME
   →00H03M ↔ 00H06M ↔ 00H09M ↔ ... ↔ 12H42M ↔ 12H45M←
   • SPEED
   →1 ↔ 2 ↔ 3 ↔ 4 ↔ 5←



6. *Once the setting is completed...*
   Press the EXIT button to return to the LONG LIFE screen.

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.

Setting the gray level for the sides of the screen

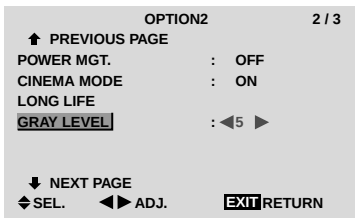
Use this procedure to set the gray level for the parts on the screen on which nothing is displayed when the screen is set to the 4:3 size.

Example: Adjusting the “GRAY LEVEL”

Set “ADVANCED OSM” to “ON” in the main menu (1/2), then perform the following operations.

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select “OPTION2”, then press the MENU/ENTER button.
   The “OPTION2” screen appears.
2. Use the ▲ and ▼ buttons to select “GRAY LEVEL”.
3. *To adjust the “GRAY LEVEL”...*
   Use the ◀ and ▶ buttons to adjust the GRAY LEVEL.



4. *Once the setting is completed ...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

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).

■ Restoring the factory default settings

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

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 50XGA.

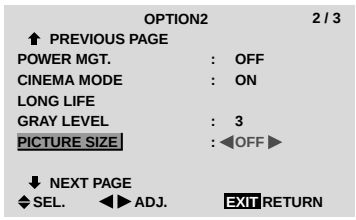
Example: Setting the “PICTURE SIZE” mode to “OFF”

Set “ADVANCED OSM” to “ON” in the main menu (1/2), then perform the following operations.

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select “OPTION2”, then press the MENU/ENTER button.
   The “OPTION2” screen appears.
2. Use the ▲ and ▼ buttons to select “PICTURE SIZE”.
3. *To set PICTURE SIZE mode to “OFF”...*
   Use the ◀ and ▶ buttons to select “OFF”.
   The mode switches as follows when the ◀ or ▶ buttons are pressed:

   ON ↔ OFF



4. *Once the setting is completed ...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

Information

■ Restoring the factory default settings

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

Option3 Settings Menu

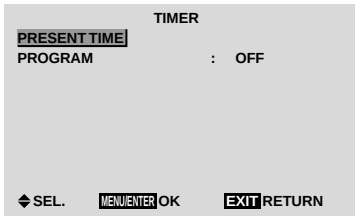
Using the timer

This function sets the monitor to turn ON/OFF automatically at a set time.

Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select "OPTION3", then press the MENU/ENTER button.
   The "OPTION3" screen appears.
2. Use the ▲ and ▼ buttons to select "TIMER", then press the MENU/ENTER button.
   The "TIMER" screen appears.



3. Set the TIMER using ▲▼◀ and ▶ buttons.
   See page E-33 to set PRESENT TIME.
   See page E-34 to set PROGRAM.
4. *Once the setting is completed ...*
   Press the EXIT button to return to the OPTION3 screen.
   To return to the main menu, press the EXIT button once more.

Information

■ Restoring the factory default settings

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

PRESENT TIME

This sets the day of the week and present time.

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

Perform Steps 1-2 of TIMER, then...

3. Use the ▲ and ▼ buttons to select "PRESENT TIME", then press the MENU/ENTER button.
   The "PRESENT TIME" screen appears.

4. Use the ▲ and ▼ buttons to select the item, then adjust using the ◀ and ▶ buttons.

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

- SUMMER TIME

  ON ↔ OFF
- Day

  →**SUNDAY ↔ MONDAY ↔ ..... ↔ FRIDAY ↔ SATURDAY**←
- Hour/Minutes

  →**00:00 ↔ 00:01 ↔ 00:02 ↔ ..... ↔ 23:58 ↔ 23:59**←

5. *Once the setting is completed...*
   Use the ▲ and ▼ buttons to select "SET", then press the MENU/ENTER button.
   The adjustments are stored and return to the TIMER menu.

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).

* If you press the EXIT button instead of the MENU/ENTER button in step 5, the settings can not be mode.

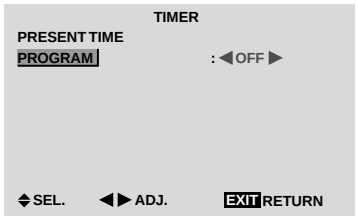
PROGRAM TIMER

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

Example: 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.

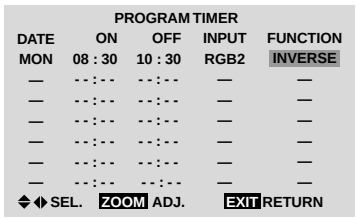
Perform Steps 1-2 of TIMER, then...

3. Use the ▲ and ▼ buttons to select “PROGRAM”.



4. Use the ◀ and ▶ buttons to select “ON”, then press the MENU/ENTER button.
   The “PROGRAM TIMER” screen appears.

5. Adjust using the ▲▼◀ and ▶ buttons and ZOOM + / − button.



   The mode switches as follows each time the ZOOM + / − button is pressed:

   • Date

   → — ↔ SUN ↔ MON ↔ ... ↔ SAT ↔ * ↔ *SUN ↔ *MON ↔ ... ↔ *SAT ←

   • ON/OFF Hour

   → 00 ↔ 01 ↔ 02 ↔ ..... ↔ 21 ↔ 22 ↔ 23 ←

   • Minute

   → 00 ↔ 01 ↔ 02 ↔ ..... ↔ 57 ↔ 58 ↔ 59 ←

   • INPUT

   → — ↔ LAST ↔ VIDEO1 ↔ VIDEO2 ↔ VIDEO3 ↔ HD/DVD1 ←
   → RGB3 ↔ RGB2 ↔ RGB1 ↔ HD/DVD2 ←

   • FUNCTION

   → — ↔ ORBITER ↔ INVERSE ↔ WHITE ↔ WIPER ←

6. *Once the setting is completed...*
   Press the EXIT button.
   The programs are stored, and return to the TIMER screen.

Information

■ PROGRAM TIMER settings

DATE ..... 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 timer is on.
FUNCTION ..... Set the LONG LIFE function.

■ To reset the program

Align the cursor with the DATE field that you wish to reset, then press the CLEAR button.

■ To reset the data

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

■ Special characters in the PROGRAM TIMER screen

• An asterisk “*” in the DATE field
An asterisk “*” means “every”. For example, “*FRI” means every Friday and “*” means everyday.

• A hyphen “-” in the ON field or OFF field
If any hyphen remains in the ON field or OFF field, the FUNCTION can not be set.

• A hyphen “-” in the FUNCTION field
A hyphen “-” means last mode (the mode that was last selected at the time the power was switched off).

Setting the power on mode

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

Example: Setting “VIDEO2”

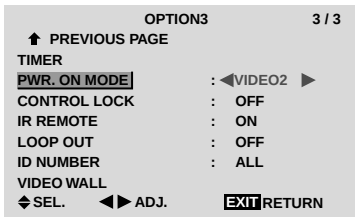
Set “ADVANCED OSM” to “ON” in the main menu (1/2), then perform the following operations.

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then ...

1. Use the ▲ and ▼ buttons to select “OPTION3”, then press the MENU/ENTER button.
   The “OPTION3” screen appears.

2. Use the ▲ and ▼ buttons to select “PWR. ON MODE”.

3. *To set the PWR. ON MODE to “VIDEO2”...*
   Use the ◀ and ▶ buttons to select “VIDEO2”.
   The mode switches to LAST and any one of the sources shown in the table on page E-3 each time the ◀ or ▶ button is pressed.
   The available sources depend on the settings of “BNC INPUT” and “D-SUB INPUT”.



4. *Once the setting is completed...*
   Press the EXIT button return to the main menu.
   To delete the main menu, press the EXIT button once more.

Information

■ PWR. ON MODE settings

LAST ..... Last mode (the mode that was last selected at the time the power was switched off).
VIDEO1, 2, 3 .... VIDEO input mode.
RGB1, 2, 3 ..... RGB input mode.
HD/DVD1, 2 ..... HD/DVD input mode.
DVD2, 3 ..... DVD input mode.

■ Restoring the factory default settings

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

Enabling/disabling the front panel controls

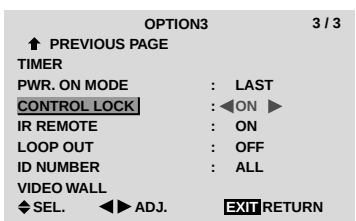
This function enables/disables the front panel controls.

Example: Setting "ON"

Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select "OPTION3", then press the MENU/ENTER button.
   The "OPTION3" screen appears.
2. Use the ▲ and ▼ buttons to select "CONTROL LOCK".
3. *To set the CONTROL LOCK to "ON"...*
   Use the ◀ and ▶ buttons to select "ON", then press the MENU/ENTER button.
   The mode switches as follows each time the ◀ or ▶ button is pressed:
   OFF ↔ ON



4. *Once the setting is completed...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

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.

■ Restoring the factory default settings

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

Enabling/disabling remote control wireless transmission

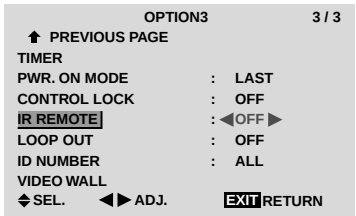
This function enables/disables remote control wireless transmission.

Example: Setting "OFF"

Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select "OPTION3", then press the MENU/ENTER button.
   The "OPTION3" screen appears.
2. Use the ▲ and ▼ buttons to select "IR REMOTE".
3. *To set the IR REMOTE to "OFF"...*
   Use the ◀ and ▶ buttons to select "OFF", then press the MENU/ENTER button.
   The mode switches as follows each time the ◀ or ▶ button is pressed:
   OFF ↔ ON



4. *Once the setting is completed...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

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.

■ Restoring the factory default settings

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

Loop Out setting

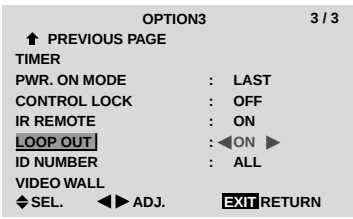
When this feature is set to ON, the received signal will be looped out.

Example: Setting “ON”

Set “ADVANCED OSM” to “ON” in the main menu (1/2), then perform the following operations.

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select “OPTION3”, then press the MENU/ENTER button.
   The “OPTION3” screen appears.
2. Use the ▲ and ▼ buttons to select “LOOP OUT”.
3. *To set the LOOP OUT to “ON”...*
   Use the ◀ and ▶ buttons to select “ON”.
   The mode switches as follows each time the ◀ or ▶ button is pressed:
   OFF ↔ ON



4. *Once the setting is completed...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

Information

■ LOOP OUT settings

ON ..... The received signal will be looped out via PC1 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 E-11.

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

The RGB/PC1 input will be displayed regardless of the setting of LOOP OUT.

■ Restoring the factory default settings

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

ID number setting

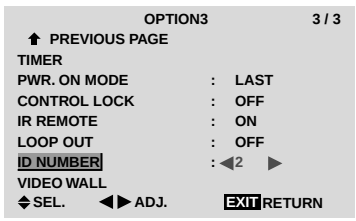
When using more than one of these displays, this function sets ID numbers so that operation of the remote control does not cause multiple monitors to operate at the same time.

Example: Setting “2”

Set “ADVANCED OSM” to “ON” in the main menu (1/2), then perform the following operations.

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select “OPTION3”, then press the MENU/ENTER button.
   The “OPTION3” screen appears.
2. Use the ▲ and ▼ buttons to select “ID NUMBER”.
3. *To set the ID NUMBER to “2”...*
   Use the ◀ and ▶ buttons to select “2”.
   The mode switches as follows each time the ◀ or ▶ button is pressed:
   →ALL ↔ 1 ↔ 2 ↔ ..... ↔ 255 ↔ 256←



* **To reset back to ALL**
Press the CLEAR button

4. *Once the setting is completed...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

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 below.

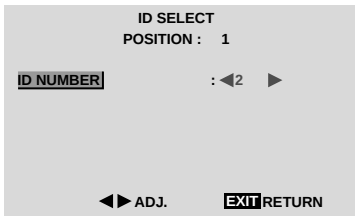
■ Restoring the factory default settings

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

To set the ID number for the remote control

Example: Setting “2”

1. Press the ID SELECT button on the remote control.
   The “ID SELECT” screen appears.
2. Use the ▲ and ▼ buttons to select “ID NUMBER”.
3. *To set the ID NUMBER to “2”...*
   Use the ◀ and ▶ buttons to select “2”.
   The mode switches as follows each time the ◀ or ▶ button is pressed:
   →ALL ↔ 1 ↔ 2 ↔ ..... ↔ 255 ↔ 256←



* **To reset back to ALL**
Press the CLEAR button

4. *Once the setting is completed...*
   Press the EXIT button to delete the ID SELECT screen.

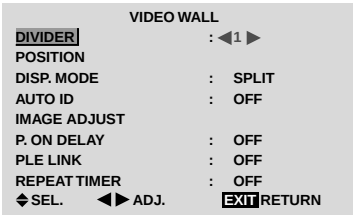
Video Wall setting

Use this feature to configure a 2×2 or 3×3 video wall.

Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select "OPTION3", then press the MENU/ENTER button.
   The "OPTION3" screen appears.
2. Use the ▲ and ▼ buttons to select "VIDEO WALL", then press the MENU/ENTER button.
   The "VIDEO WALL" screen appears.



3. Set the VIDEO WALL using ▲▼ ◀ and ▶ buttons.
   See page E-37 to set DIVIDER.
   See page E-37 to set POSITION.
   See page E-38 to set DISP. MODE.
   See page E-38 to set AUTO ID.
   See page E-38 to set IMAGINE ADJUST.
   See page E-39 to set P. ON DELAY.
   See page E-39 to set PLE LINK.
   See page E-40 to set REPEAT TIMER.
4. *Once the setting is completed...*
   Press the EXIT button to return to the OPTION3 menu.
5. Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

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

Information

■ Restoring the factory default settings

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

DIVIDER

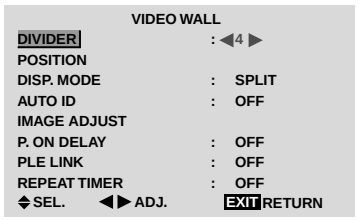
Set the 2×2 or 3×3 video wall.

Example: Setting "4"

Perform Steps 1-2 of VIDEO WALL, then...

3. Use the ▲ and ▼ buttons to select "DIVIDER".
4. Use the ◀ and ▶ buttons to select "4".
   The mode switches as follows each time the ◀ or ▶ button is pressed:

   → OFF ↔ 1 ↔ 4 ↔ 9 ←



Information

■ DIVIDER settings

OFF, 1 ..... 1 Screen (Matrix display function does not work)
4 ..... 4 Screens (2×2 video wall)
9 ..... 9 Screens (3×3 video wall)

* When you select "4" or "9", set the VIDEO WALL POSITION.

VIDEO WALL POSITION

Set the position of each display.

Example: Setting "4"

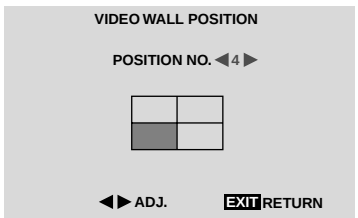
Perform Steps 1-2 of VIDEO WALL, then...

3. Use the ▲ and ▼ buttons to select "POSITION", then press the MENU/ENTER button.
   The "VIDEO WALL POSITION" screen appears.
4. Use the ◀ and ▶ buttons to select "NO. 4".
   The mode switches as follows each time the ◀ or ▶ button is pressed:
   • 4 Screens

   → NO. 1 ↔ NO. 2 ↔ NO. 3 ↔ NO. 4 ←

   • 9 Screens

   → NO. 7 ↔ NO. 8 ↔ ..... ↔ NO. 14 ↔ NO. 15 ←



5. Press the EXIT button to return to the VIDEO WALL screen.

Information

■ VIDEO WALL POSITION settings

1 Screen ..... There is no need to set POSITION.

4 Screens

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

9 Screens

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

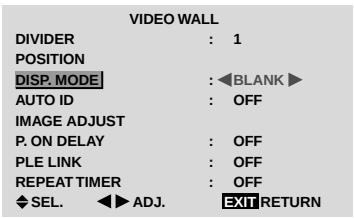
DISP. MODE

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

Example: Setting “BLANK”

Perform Steps 1-2 of VIDEO WALL, then...

3. Use the ▲ and ▼ buttons to select “DISP. MODE”.
4. Use the ◀ and ▶ buttons to select “BLANK”.
   The mode switches as follows each time the ◀ or ▶ button is pressed:
   SPLIT ↔ 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

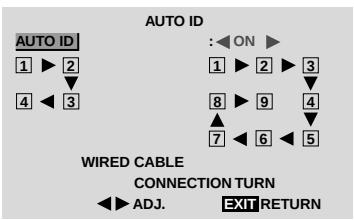
This feature automatically sets the ID numbers of multiple displays connected to each other.

Example: Setting “ON”

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

Perform Steps 1-2 of VIDEO WALL, then...

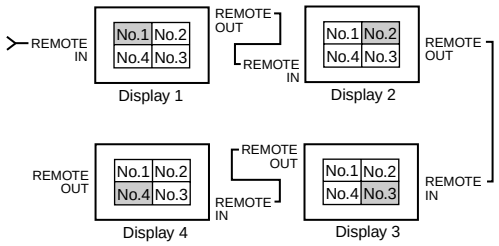
3. Use the ▲ and ▼ buttons to select “AUTO ID”.
4. Use the ◀ and ▶ buttons to select “ON”, then press the MENU/ENTER button.
   The mode switches as follows each time the ◀ or ▶ button is pressed:
   OFF ↔ ON



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.



OFF .... Disables Auto ID function.

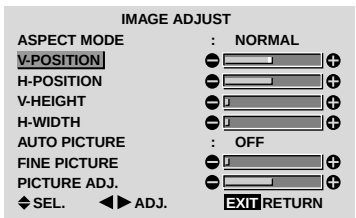
IMAGE ADJUST

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

Example: Adjusting the vertical position

Perform Steps 1-2 of VIDEO WALL, then...

3. Use the ▲ and ▼ buttons to select “IMAGE ADJUST”, then press the MENU/ENTER button.
   The “IMAGE ADJUST” screen appears.
4. Use the ▲ and ▼ buttons to select “V-POSITION”.



5. Adust using the ◀ and ▶ buttons.

* If neither the ◀ or ▶ button is pressed within 5 seconds, the current setting is set and the previous screen reappears.

6. *Once the setting is completed...*
   Press the EXIT button to return to the VIDEO WALL screen.

Information

■ IMAGE ADJUST settings

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

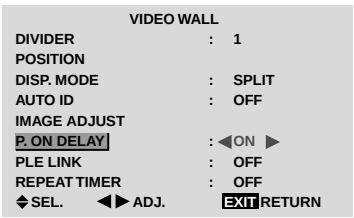
P. ON DELAY (Power on delay)

Use this function to activate power-on delay.
Turn on the AUTO ID before the following operations.

Example: Setting “ON”

Perform Steps 1-2 of VIDEO WALL, then...

3. Use the ▲ and ▼ buttons to select “P. ON DELAY”.
4. Use the ◀ and ▶ buttons to select “ON”.
   The mode switches as follows each time the ◀ or ▶ button is pressed:
   OFF ↔ ON



Information

■ P. ON DELAY settings

ON ..... Turns on the main power of each display after a delay time.
OFF .... Turns on the main power of all displays at the same 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 does function. However, by pressing and holding the POWER ON button for more than 3 seconds, the monitor will be turned on.

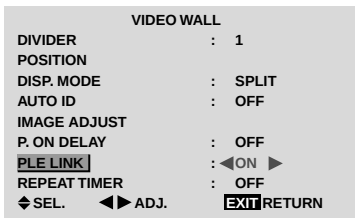
PLE LINK

Use this function to set a uniform brightness for each display.
Turn on the AUTO ID before the following operations.

Example: Setting “ON”

Perform Steps 1-2 of VIDEO WALL, then...

3. Use the ▲ and ▼ buttons to select “PLE LINK”.
4. Use the ◀ and ▶ buttons to select “ON”, then press the MENU/ENTER button.
   The mode switches as follows each time the ◀ or ▶ button is pressed:
   OFF ↔ ON

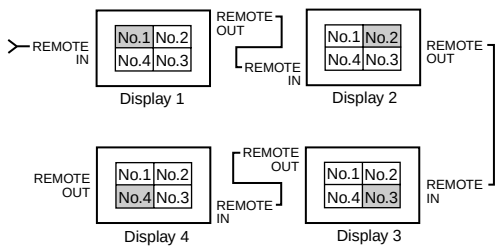


Information

■ PLE LINK settings

ON ..... Sets a uniform brightness for each screen in a 2×2 video wall.
OFF .... Sets the individual screen brightness for each screen in a 2×2 video wall.

* Set “OFF” in a 3×3 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.



Note: *The remote control can be operated unless the IR REMOTE is set to “OFF”.*

REPEAT TIMER

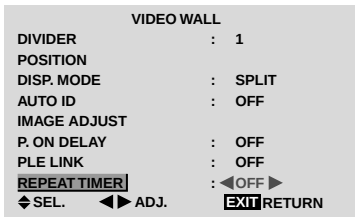
Use this to set two timers. Each timer can use the DIVIDER, SOURCE and WORK TIME.
Turn on the AUTO ID before the following operations.

Example:

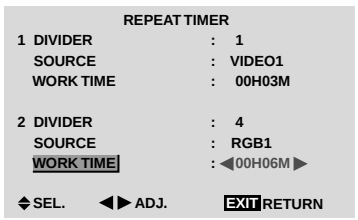
TIMER1...VIDEO1 will be displayed for 3 minutes.
TIMER2...RGB1 will be displayed for 6 minutes in a 2×2 video wall.

Perform Steps 1-2 of VIDEO WALL, then...

3. Use the ▲ and ▼ buttons to select "REPEAT TIMER".



4. Use the ◀ and ▶ buttons to select "ON", then press the MENU/ENTER button.
   The "REPEAT TIMER" screen appears.
5. Adust using the ▲▼ ◀ and ▶ buttons.
   The mode switches as follows each time the ◀ or ▶ button is pressed:



• DIVIDER

1 ↔ 4 ↔ 9

• SOURCE
The available sources depend on the setting of "BNC INPUT" and "D-SUB INPUT". See page E-3.

VIDEO1 ↔ VIDEO2 ↔ VIDEO3 ↔ HD/DVD1
RGB3 ↔ RGB2 ↔ RGB1 ↔ HD/DVD2

• WORK TIME

00H01M ↔ 00H02M ↔ 00H03M ↔ ..... ↔ 04H14M ↔ 04H15M

6. *Once the setting is completed...*
   Press the EXIT button to return to the VIDEO WALL screen.

Information

■ REPEAT TIMER settings

If you set both timers, Timer 1 and Timer 2 run consecutively.
In the case of the Video wall, timer No.1 can be used to control all the displays simultaneously.

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

Advanced OSM Settings Menu

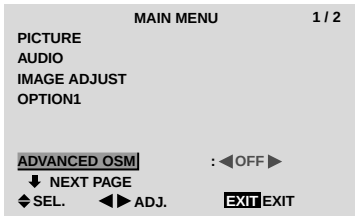
Setting the menu mode

This allows you to access full menu items.
When P. ON DELAY or PLE LINK is ON, this won't be turned OFF.

Example: Setting "ON"

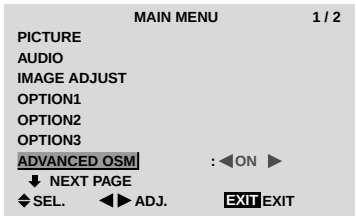
Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then ...

1. Use the ▲ and ▼ buttons to select "ADVANCED OSM".



2. *To set the ADVANCED OSM to "ON"...*
   Use the ◀ and ▶ buttons to select "ON".
   The mode switches as follows each time the ◀ or ▶ button is pressed:

OFF ↔ ON



3. *Once the setting is completed...*
   Press the Exit button to delete the main menu.

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).

■ Restoring the factory default settings

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

Language Settings Menu

Setting the language for the menus

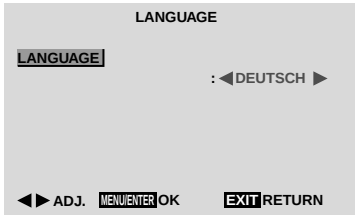
The menu display can be set to one of seven languages: English, German, French, Swedish, Italian, Spanish or Chinese.

Example: Setting the menu display to "DEUTSCH"

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select "LANGUAGE", then press the MENU/ENTER button.
   The "LANGUAGE" screen appears.
2. *To select "DEUTSCH" ...*
   Use the ◀ and ▶ buttons to select " DEUTSCH".
   The mode switches as follows when the ◀ and ▶ buttons are pressed:

→ ENGLISH ↔ DEUTSCH ↔ FRANÇAIS ←
→ 中文 ↔ SVENSKA ↔ ITALIANO ↔ ESPAÑOL ←



3. *Once the setting is completed ...*
   Press the MENU/ENTER button to store the setting and return to the main menu.
   To delete the main menu, press the EXIT button.

Information

■ Language settings

ENGLISH ..... English
DEUTSCH ..... German
FRANÇAIS ..... French
ESPAÑOL ..... Spanish
ITALIANO ..... Italian
SVENSKA ..... Swedish
中文 ..... Chinese

Color System Settings Menu

Setting the video signal format

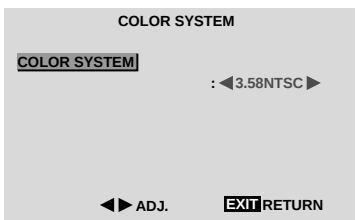
Use these operations to set the color systems of composite video signals or Y/C input signals.

Example: Setting the color system to “3.58 NTSC”

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select “COLOR SYSTEM”, then press the MENU/ENTER button.
   The “COLOR SYSTEM” screen appears.
2. *To select “ 3.58NTSC ” ...*
   Use the ◀ and ▶ buttons to select “ 3.58NTSC ”.
   The mode switches as follows when the ◀ and ▶ buttons are pressed:

→ AUTO ↔ 3.58NTSC ↔ 4.43NTSC ←
→ SECAM ↔ PAL-M ↔ PAL-N ↔ PAL60 ↔ PAL ←



3. *Once the setting is completed ...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

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.

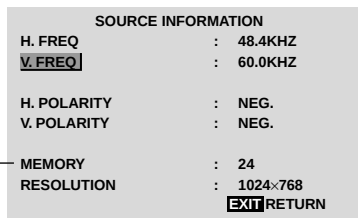
Source Information Menu

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.

Press the MENU/ENTER button on the remote control to display the MAIN MENU on the screen, then...

1. Use the ▲ and ▼ buttons to select “SOURCE INFORMATION”, then press the MENU/ENTER button.
2. The “SOURCE INFORMATION” is displayed.



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

3. *Once you have checked the frequency ...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

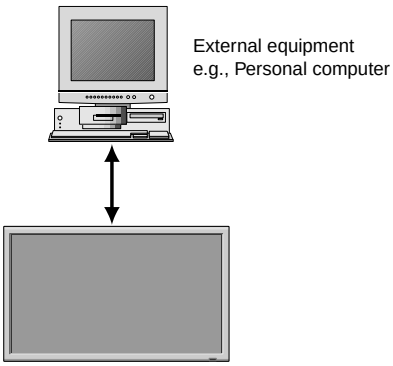
External Control

Application

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

Connections

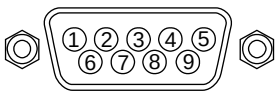
Connections are made as described below.



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



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	OAH	01H	01H	CBH		
	THEAT. 1	DFH	80H	60H	OAH	01H	02H	CCH		
	THEAT. 2	DFH	80H	60H	OAH	01H	03H	CDH		
	DEFAULT	DFH	80H	60H	OAH	01H	04H	CEH		
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		
	14 : 9	DFH	80H	60H	51H	01H	09H	1AH		
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.*

Table of Signals Supported

■ 42Wide VGA/42XGA

Supported resolution

- When the screen mode is NORMAL, each signal is converted to a 640 dots × 480 lines signal (42Wide VGA) or 768 dots × 768 lines signal (42XGA). (Except for *2, *5)
- When the screen mode is FULL, each signal is converted to a 853 dots × 480 lines signal (42Wide VGA) or 1024 dots × 768 lines signal (42XGA). (Except for *3)

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*6	DVI	Memory
				Horizontal	Vertical	Horizontal	Vertical	NORMAL (4:3)	FULL (16:9)			
	640×400	70.1	31.5	NEG	NEG	YES	YES	YES*2*3	YES	– –	NO	4
*IBM PC/AT compatible computers	640×480	59.9	31.5	NEG	NEG	YES	YES	YES*3	YES	STILL	YES	5
		72.8	37.9	NEG	NEG	YES	YES	YES*3	YES	– –	YES	7
		75.0	37.5	NEG	NEG	YES	YES	YES*3	YES	STILL	YES	8
		85.0	43.3	NEG	NEG	YES	YES	YES*3	YES	– –	YES	9
		100.4	51.1	NEG	NEG	YES	YES	YES*3	YES	– –	YES	41
		120.4	61.3	NEG	NEG	YES	YES	YES*3	YES	– –	YES	42
	848×480	60.0	31.0	POS	POS	YES	YES	– –	YES*3	WIDE2	YES	19
	852×480*1	60.0	31.7	NEG	NEG	YES	YES	– –	YES*3	WIDE1	YES	17
	800×600	56.3	35.2	POS	POS	YES	YES	YES	YES	STILL	YES	11
		60.3	37.9	POS	POS	YES	YES	YES	YES	STILL	YES	12
		72.2	48.1	POS	POS	YES	YES	YES	YES	– –	YES	13
		75.0	46.9	POS	POS	YES	YES	YES	YES	– –	YES	14
		85.1	53.7	POS	POS	YES	YES	YES	YES	– –	YES	15
		99.8	63.0	POS	POS	YES	YES	YES	YES	– –	YES	43
		120.0	75.7	POS	POS	YES	YES	YES	YES	– –	YES	44
	1024×768	60.0	48.4	NEG	NEG	YES	YES	YES	YES*4	STILL	YES	24
		70.1	56.5	NEG	NEG	YES	YES	YES	YES*4	– –	YES	25
		75.0	60.0	POS	POS	YES	YES	YES	YES*4	STILL	YES	26
		85.0	68.7	POS	POS	YES	YES	YES	YES*4	– –	YES	27
		100.6	80.5	NEG	NEG	YES	YES	YES	YES*4	– –	NO	45
	1152×864	75.0	67.5	POS	POS	YES	YES	YES	YES	STILL	YES	51
	1280×768	56.2	45.1	POS	POS	YES	YES	– –	YES	WIDE1	NO	52
		59.8	48.0	POS	NEG	YES	YES	– –	YES	WIDE3	YES	80
	1360×765	60.0	47.7	POS	POS	YES	YES	– –	YES	WIDE1	NO	22
	1360×768	60.0	47.7	POS	POS	YES	YES	– –	YES	WIDE1	YES	22
	1376×768	59.9	48.3	NEG	POS	YES	YES	– –	YES	WIDE2	YES	53
	1280×1024	60.0	64.0	POS	POS	YES	YES	YES*5	YES	STILL	YES	29
		75.0	80.0	POS	POS	YES	YES	YES*5	YES	– –	NO	30
		85.0	91.1	POS	POS	YES	YES	YES*5	YES	– –	NO	40
		100.1	108.5	POS	POS	YES	YES	YES*5	YES	– –	NO	47
	1600×1200	60.0	75.0	POS	POS	YES	YES	YES	YES	– –	NO	54
		65.0	81.3	POS	POS	YES	YES	YES	YES	– –	NO	55
		70.0	87.5	POS	POS	YES	YES	YES	YES	– –	NO	56
		75.0	93.8	POS	POS	YES	YES	YES	YES	– –	NO	57
		85.0	106.3	POS	POS	YES	YES	YES	YES	– –	NO	58
*Apple Macintosh*7	640×480	66.7	35.0	Sync on G	Sync on G	– –	– –	YES*3	YES	– –	NO	6
	832×624	74.6	49.7	Sync on G	Sync on G	– –	– –	YES	YES	– –	NO	16
	1024×768	74.9	60.2	Sync on G	Sync on G	– –	– –	YES	YES*4	WIDE1	NO	28
	1152×870	75.1	68.7	Sync on G	Sync on G	– –	– –	YES	YES	WIDE1	NO	39
Work Station (EWS4800)	1280×1024	60.0	64.6	NEG	NEG	YES	YES	YES*5	YES	– –	YES	29
		71.2	75.1	NEG	NEG	YES	YES	YES*5	YES	– –	NO	48
Work Station (HP)	1280×1024	72.0	78.1	– –	– –	– –	– –	YES*5	YES	– –	NO	59
Work Station (SUN)	1152×900	66.0	61.8	C Sync	C Sync	– –	– –	YES	YES	– –	NO	60
		76.0	71.7	C Sync	C Sync	– –	– –	YES	YES	– –	NO	61
	1280×1024	76.1	81.1	C Sync	C Sync	– –	– –	YES*5	YES	– –	NO	30
Work Station (SGI)	1024×768	60.0	49.7	– –	– –	– –	– –	YES	YES*4	– –	YES	62
	1280×1024	60.0	63.9	– –	– –	– –	– –	YES*5	YES	– –	YES	29
IDC-3000G												
PAL625P	768×576	50.0	31.4	NEG	NEG	YES	YES	YES*8	YES*8	– –	NO	31
NTSC525P	640×480	59.9	31.5	NEG	NEG	YES	YES	YES*8	YES*8	MOTION	NO	32

*1 Only when using a graphic accelerator board that is capable of displaying 852×480.
*2 Display only 400 lines (42Wide VGA), 640 lines (42XGA) with the screen center of the vertical orientation located at the center.
*3 42Wide VGA: The picture is displayed in the original resolution. The picture will be compressed for other signals.
*4 42XGA: The picture is displayed in the original resolution. The picture will be compressed for other signals.
*5 Aspect ratio is 5:4. This signal is converted to the following signal (42Wide VGA: 600 dots×480 lines, 42XGA: 720 dots×768 lines).
*6 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.
*7 To connect the monitor to Macintosh computer, use the monitor adapter (D-Sub 15-pin) to your computer's video port. If your computer has a mini D-Sub 15-pin connector, you may have to use the supplied RGB cable.
*8 Other screen modes (ZOOM and STADIUM) are available as well.

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 853 dots×480 lines or 1024 dots×*768 lines. *It is recommended that the input signal be VGA, wide VGA or equivalent for 42Wide VGA, XGA or equivalent for 42XGA.*
- *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.*

* “IBM PC/AT”, “VGA” 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.

■ 50XGA

Supported resolution

- When the screen mode is NORMAL, each signal is converted to a 1024 dots × 768 lines signal. (Except for *2, 3, 4)
- 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 *3)

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*5	DVI	Memory
				Horizontal	Vertical	Horizontal	Vertical	NORMAL (4:3)	TRUE	FULL (16:9)			
	640×400	70.1	31.5	NEG	NEG	YES	YES	YES*2	YES	YES	– –	NO	4
*IBM PC/AT compatible computers	640×480	59.9	31.5	NEG	NEG	YES	YES	YES	YES	YES	STILL	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	STILL	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
	848×480	60.0	31.0	POS	POS	YES	YES	– –	YES	YES	WIDE2	YES	19
	852×480*1	60.0	31.7	NEG	NEG	YES	YES	– –	YES	YES	WIDE1	YES	17
	800×600	56.3	35.2	POS	POS	YES	YES	YES	YES	YES	STILL	YES	11
		60.3	37.9	POS	POS	YES	YES	YES	YES	YES	STILL	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*3	– –	YES	STILL	YES	24
		70.1	56.5	NEG	NEG	YES	YES	YES*3	– –	YES	– –	YES	25
		75.0	60.0	POS	POS	YES	YES	YES*3	– –	YES	STILL	YES	26
		85.0	68.7	POS	POS	YES	YES	YES*3	– –	YES	– –	YES	27
		100.6	80.5	NEG	NEG	YES	YES	YES*3	– –	YES	– –	NO	45
	1152×864	75.0	67.5	POS	POS	YES	YES	YES	– –	YES	STILL	YES	51
	1280×768	56.2	45.1	POS	POS	YES	YES	– –	– –	YES	WIDE1	NO	52
		59.8	48.0	POS	NEG	YES	YES	– –	– –	YES	WIDE3	YES	80
	1360×765	60.0	47.7	POS	POS	YES	YES	– –	– –	YES*3	WIDE1	NO	22
	1360×768	60.0	47.7	POS	POS	YES	YES	– –	– –	YES*3	WIDE1	YES	22
	1376×768	59.9	48.3	NEG	POS	YES	YES	– –	– –	YES	WIDE2	YES	53
	1280×1024	60.0	64.0	POS	POS	YES	YES	YES*4	– –	YES	STILL	YES	29
		75.0	80.0	POS	POS	YES	YES	YES*4	– –	YES	– –	NO	30
		85.0	91.1	POS	POS	YES	YES	YES*4	– –	YES	– –	NO	40
		100.1	108.5	POS	POS	YES	YES	YES*4	– –	YES	– –	NO	47
	1600×1200	60.0	75.0	POS	POS	YES	YES	YES	– –	YES	– –	NO	54
		65.0	81.3	POS	POS	YES	YES	YES	– –	YES	– –	NO	55
		70.0	87.5	POS	POS	YES	YES	YES	– –	YES	– –	NO	56
		75.0	93.8	POS	POS	YES	YES	YES	– –	YES	– –	NO	57
		85.0	106.3	POS	POS	YES	YES	YES	– –	YES	– –	NO	58
*Apple Macintosh*6	640×480	66.7	35.0	Sync on G	Sync on G	– –	– –	YES	YES	YES	– –	NO	6
	832×624	74.6	49.7	Sync on G	Sync on G	– –	– –	YES	YES	YES	– –	NO	16
	1024×768	74.9	60.2	Sync on G	Sync on G	– –	– –	YES*3	– –	YES	WIDE1	NO	28
	1152×870	75.1	68.7	Sync on G	Sync on G	– –	– –	YES	– –	YES	WIDE1	NO	39
Work Station (EWS4800)	1280×1024	60.0	64.6	NEG	NEG	YES	YES	YES*4	– –	YES	– –	YES	29
		71.2	75.1	NEG	NEG	YES	YES	YES*4	– –	YES	– –	NO	48
Work Station(HP)	1280×1024	72.0	78.1	– –	– –	– –	– –	YES*4	– –	YES	– –	NO	59
Work Station (SUN)	1152×900	66.0	61.8	C Sync	C Sync	– –	– –	YES	– –	YES	– –	NO	60
		76.0	71.7	C Sync	C Sync	– –	– –	YES	– –	YES	– –	NO	61
	1280×1024	76.1	81.1	C Sync	C Sync	– –	– –	YES*4	– –	YES	– –	NO	30
Work Station (SGI)	1024×768	60.0	49.7	– –	– –	– –	– –	YES*3	– –	YES	– –	YES	62
	1280×1024	60.0	63.9	– –	– –	– –	– –	YES*4	– –	YES	– –	YES	29
IDC-3000G													
PAL625P	768×576	50.0	31.4	NEG	NEG	YES	YES	YES*7	– –	YES*7	– –	NO	31
NTSC525P	640×480	59.9	31.5	NEG	NEG	YES	YES	YES*7	– –	YES*7	MOTION	NO	32

*1 Only when using a graphic accelerator board that is capable of displaying 852×480.
*2 This signal is converted to a 1024 dots × 640 lines signal.
*3 The picture is displayed in the original resolution.
*4 The aspect ratio is 5:4. This signal is converted to a 960 dots×768 lines signal.
*5 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.
*6 To connect the monitor to Macintosh computer, use the monitor adapter (D-Sub 15-pin) to your computer's video port. If your computer has a mini D-Sub 15-pin connector, you may have to use the supplied RGB cable.
*7 Other screen modes (ZOOM and STADIUM) are available as well.

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.*

* “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.

Troubleshooting

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

Symptom	Checks	Remedy
Mechanical sound is heard.	• Maybe the sound from the cooling fans used to prevent over heating.	
Picture is disturbed. Sound is noisy. Remote control operates erroneously.	• Is a connected component set directly in front or at the side of the display?	• Leave some space between the display and the connected components.
The remote control does not work.	• Are the remote control's batteries worn out?	• Replace both batteries with new ones.
	• Is IR REMOTE set to ON?	• Set IR REMOTE OFF on OPTION3 menu.
	• Has an ID number been set for the main unit?	• 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.	• Is the monitor's power cord plugged into a power outlet?	• Plug the monitor's power cord into a power outlet.
	• Are all the monitor's indicators off?	• Press the power button on the monitor to turn on the power.
	• Are the remote control's batteries worn out?	• Replace both batteries with new ones.
	• Is IR REMOTE set to ON?	• Set IR REMOTE OFF.
	• Has an ID number been set for the main unit?	• 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.	• Is the remote control pointed at the monitor, or is there an obstacle between the remote control and the monitor?	• Point the remote control at the monitor's remote control sensor when pressing buttons, or remove the obstacle.
	• Is direct sunlight or strong artificial light shining on the monitor's remote control sensor?	• Eliminate the light by closing curtains, pointing the light in a different direction, etc.
	• Are the remote control's batteries worn out?	• Replace both batteries with new ones.
	• The remote cable is plugged into the REMOTE IN terminal (Wired).	• Unplug the remote cable from the monitor.
The front panel buttons of the main unit do not function.	• The front panel buttons do not function during Control Lock.	• Set the Control Lock to OFF.
No sound or picture is produced.	• Is the monitor's power cord plugged into a power outlet?	• Plug the monitor's power cord into a power outlet.
Picture appears but no sound is produced.	• Is the volume set at the minimum?	• Increase the volume.
	• Is the mute mode set?	• Press the remote control's MUTE button.
	• Are the speakers properly connected?	• Connect the speakers properly.
	• Is AUDIO INPUT set correctly?	• Set AUDIO INPUT on the AUDIO menu correctly.
Poor picture with VIDEO signal input.	• Improper control setting. Local interference. Cable interconnections. Input impedance is not correct level.	• Adjust picture control as needed. Try another location for the monitor. Be sure all connections are secure.
Poor picture with RGB signal input.	• Improper control setting. Incorrect 15 PIN connector pin connections.	• Adjust picture controls as needed. Check pin assignments and connections.
Tint is poor or colors are weak.	• Are the tint and colors properly adjusted?	• Adjust the tint and color (under PICTURE).
Nothing appears on screen.	• Is the computer's power turned on?	• Turn on the computer's power.
	• Is a source connected?	• Connect source to the monitor.
	• Is the power management function in the standby or off mode?	• Operate the computer (move the mouse, etc.).
	• Is LOOP OUT set to ON?	• Set LOOP OUT OFF.
Part of picture is cut off or picture is not centered.	• Is the position adjustment appropriate?	• Adjust the IMAGE ADJUST properly.
Image is too large or too small.	• Is the screen size adjustment appropriate?	• Press the WIDE button on the remote control and adjust properly.
Picture is unstable.	• Is the computer's resolution setting appropriate?	• Set to the proper resolution.
POWER/STANDBY indicator is lighted in red.	• Horizontal and / or vertical sync signal is not present when the Intelligent Power Manager control is on.	• Check the input signal.
POWER/STANDBY indicator is blinking in red.	• The temperature inside the main unit has become too high and has activated the protector.	• Promptly switch off the power of the main unit and wait until the internal temperature drops. See*1.
POWER/STANDBY indicator is blinking in green and red, or green.	———	• Prompty switch off the power of the main unit. See *2.

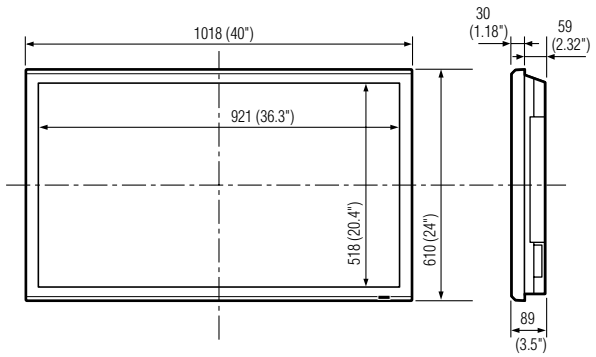
*1 Overheat protector
If the monitor becomes too hot, the overheat protector will be activated and the monitor will be turned off. If this happens, turn off the power to the monitor and unplug the power cord. If the room where the monitor is installed is particularly hot, move the monitor to a cooler 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.

Specifications

■ 42Wide VGA

Screen Size	921(H)×518(V) mm 36.3"(H)×20.4"(V) inches diagonal 42" 42VP4: Installed AR (Anti-Reflection) Filter 42VP4D: Installed AG (Anti-Glare) Filter
Aspect Ratio	16 : 9
Resolution	853(H)×480(V) pixels
Pixel Pitch	1.08(H)×1.08(V) mm 0.04"(H)×0.04"(V) inches
Color Reproduction	256 levels, 16,770,000 colors
Signals	
Synchronization Range	Horizontal : 15.5 to 110 kHz (automatic : step scan) Vertical : 50.0 to 120 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, H/CS, V)×1*2
Visual 3 (Digital)	DVI-I 24-pin×1*3 (Not compatible with analog input)
Video	
Visual 1	BNC×1
Visual 2	RCA-pin×1
Visual 3	S-Video: DIN 4-pin×1
DVD/HD/DTV	
Visual 1	RCA-pin (Y, PB[CB], PR[CR])×1*1
Visual 2	BNC (Y, PB[CB], PR[CR])×1*1, *2
Audio	Stereo RCA×3(Selectable)
External Control	D-sub 9-pin×1(RS-232C)
Sound output	8W+8W at 6 ohm
Power Supply	AC100-240V 50/60Hz
Current Rating	4.5A (maximum)
Power Consumption	270W (typical)
Dimensions	1018 (W)×610 (H)×89(D) mm 40 (W)×24 (H)×3.5 (D) inches
Weight	28.5 kg / 62.8 lbs (without stand)
Environmental Considerations	
Operating Temperature	0°C to 40°C / 32°F to 104°F
Humidity	20 to 80% (no condensation)
Altitude	0 to 2800 m / 0 to 9180 feet
Storage Temperature	-10°C to 50°C / 14°F to 122°F
Humidity	10 to 90% (no condensation)
Altitude	0 to 3000 m / 0 to 9840 feet
Front Panel User Controls	Power on/off, Input source select, Volume up/down, OSM control
Remote Control Functions	Power on/off, Input source select, OSM control,Volume up/down, Cursor (UP, DOWN,LEFT, RIGHT), Pointer, Zoom up/down, Off timer, Wireless/ Wired remote control
OSM Functions	Picture (Contrast/Brightness/Sharpness/ Color/Tint/Picture mode/Noise reduction/ Color temperature/White balance/Gamma/ Low tone/Color tune), Audio (Bass/Treble/ Balance/Audio input), Image Adjust (Aspect mode/V-Position /H-Position/V-Height /H-Width/Auto Picture/Fine picture/Picture adjustment), Option1 (OSM/BNC Input/D-Sub Input/RGB Select/HD Select/Input Skip/ All Reset), Option2 (Power management/ Cinema mode/Long life [PLE, Orbiter, Inverse, White, Screen wiper]/Gray level), Option3 (Timer/Power on mode/Control lock/IR Remote/Loop out/ID number/Video wall [Divider, Position, Disp. mode, Auto ID, Image adjust, Power on delay, PLE link, Timer]), Advanced OSM, Language*, Color system, Source information *English, German, French, Italian, Spanish, Swedish, Chinese
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), 2-2 pull down Converter (PAL, 576I, 625I, NTSC, 480I, 525I), Digital Zoom Function (100-900% Selectable), Video Wall 2×2/3×3 multi screen, Self Diagnosis, Anti Image Burn (PLE LOCK1~3, INVERSE, WHITE, ORBITER (Auto1,2/Manual), SCREEN WIPER), Color Temperature select (high/ mid/mid low/low, user has 4 memories), Control lock (Except power SW), Auto Picture, Input Skip, Color Tune, Low Tone (3 mode), Auto ID, Programmable Timer, Gamma Correction (4 mode), Loop through interface, Plug and play (DDC1, DDC2b, RGB3: DDC2b only)
Accessories	Remote control with two AAA batteries, Power cord, User's Manual, Safety metal fittings, Screw for Safety metal fittings, Ferrite cores, Bands, Cable clamps
Regulations	Meets class A requirements (EN55022, EN61000-3-2, EN61000-3-3, EN55024) Meets Low Voltage Directive (EN60950, SEMKO Approved) Meets AS/NZS 3548 Class A



Body color is 2 types, black or silver.

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)	1035I (60 Hz)
1080I (50 Hz)	1080I (60 Hz)

***2 The 5-BNC connectors are used as RGB/PC2 and HD/DVD2 input. Select one of them under "BNC INPUT".**

***3 Not compatable with HDCP.**

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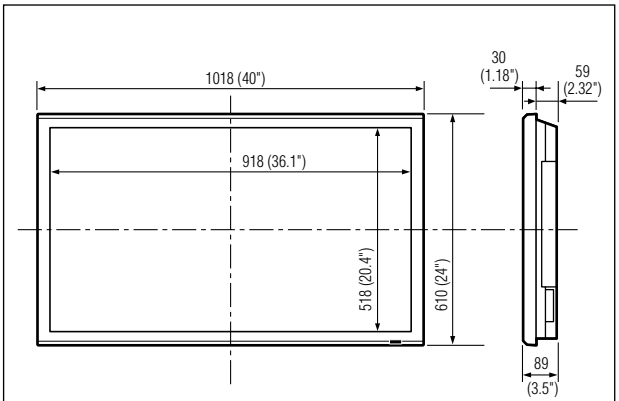
■ 42XGA

Screen Size	918(H)×518(V) mm 36.1"(H)×20.4"(V) inches diagonal 42" Installed AR (Anti-Reflection) Filter
Aspect Ratio	16 : 9
Resolution	1024(H)×768(V) pixels
Pixel Pitch	0.897(H)×0.675(V) mm 0.036"(H)×0.027"(V) inches
Color Reproduction	256 levels, 16,770,000 colors
Signals	
Synchronization Range	Horizontal : 15.5 to 110 kHz (automatic : step scan) Vertical : 50.0 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, H/CS, V)×1*2
Visual 3 (Digital)	DVI-I 24-pin×1*3 (Not compatible with analog input)
Video	
Visual 1	BNC×1
Visual 2	RCA-pin×1
Visual 3	S-Video: DIN 4-pin×1
DVD/HD/DTV	
Visual 1	RCA-pin (Y, PB[CB], PR[CR])×1*1
Visual 2	BNC (Y, PB[CB], PR[CR])×1*1, *2
Audio	Stereo RCA×3(Selectable)
External Control	D-sub 9-pin×1(RS-232C)
Sound output	8W+8W at 6 ohm
Power Supply	AC100-240V 50/60Hz
Current Rating	5.6A (maximum)
Power Consumption	350W (typical)
Dimensions	1018 (W)×610 (H)×89(D) mm 40 (W)×24 (H)×3.5 (D) inches
Weight	29.0 kg / 63.9 lbs (without stand)
Environmental Considerations	
Operating Temperature	0°C to 40°C / 32°F to 104°F
Humidity	20 to 80% (no condensation)
Altitude	0 to 2800 m / 0 to 9180 feet
Storage Temperature	-10°C to 50°C / 14°F to 122°F
Humidity	10 to 90% (no condensation)
Altitude	0 to 3000 m / 0 to 9840 feet
Front Panel User Controls	Power on/off, Input source select, Volume up/down, OSM control
Remote Control Functions	Power on/off, Input source select, OSM control,Volume up/down, Cursor (UP, DOWN,LEFT, RIGHT), Pointer, Zoom up/down, Off timer, Wireless/ Wired remote control
OSM Functions	Picture (Contrast/Brightness/Sharpness/ Color/Tint/Picture mode/Noise reduction/ Color temperature/White balance/Gamma/ Low tone/Color tune), Audio (Bass/Treble/ Balance/Audio input), Image Adjust (Aspect mode/V-Position /H-Position/V-Height /H-Width/Auto Picture/Fine picture/Picture adjustment), Option1 (OSM/BNC Input/D-Sub Input/RGB Select/HD Select/Input Skip/ All Reset), Option2 (Power management/ Cinema mode/Long life [PLE, Orbiter, Inverse, White, Screen wiper]/Gray level), Option3 (Timer/Power on mode/Control lock/IR Remote/Loop out/ID number/Video wall [Divider, Position, Disp. mode, Auto ID, Image adjust, Power on delay, PLE link, Timer]), Advanced OSM, Language*, Color system, Source information *English, German, French, Italian, Spanish, Swedish, Chinese
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), 2-2 pull down Converter (PAL, 576I, 625I, NTSC, 480I, 525I), Digital Zoom Function (100-900% Selectable), Video Wall 2×2/3×3 multi screen, Self Diagnosis, Anti Image Burn (PLE LOCK1~3, INVERSE, WHITE, ORBITER (Auto1,2/Manual), SCREEN WIPER), Color Temperature select (high/ mid/mid low/low, user has 4 memories), Control lock (Except power SW), Auto Picture, Input Skip, Color Tune, Low Tone (3 mode), Auto ID, Programmable Timer, Gamma Correction (4 mode), Loop through interface, Plug and play (DDC1, DDC2b, RGB3: DDC2b only)
Accessories	Remote control with two AAA batteries, Power cord, User's Manual, Safety metal fittings, Screw for Safety metal fittings, Ferrite cores, Bands, Cable clamps
Regulations	Meets class A requirements (EN55022, EN61000-3-2, EN61000-3-3, EN55024) Meets Low Voltage Directive (EN60950, SEMKO Approved) Meets AS/NZS 3548 Class A



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**

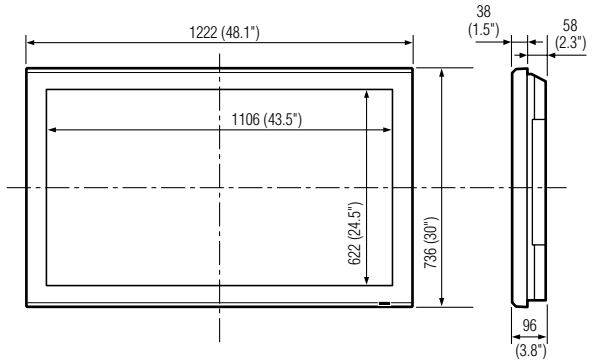
480P (60 Hz)	480I (60 Hz)
525P (60 Hz)	525I (60 Hz)
576P (50 Hz)	576I (50 Hz)
625P (50 Hz)	625I (50 Hz)
720P (60 Hz)	1035I (60 Hz)
1080I (50 Hz)	1080I (60 Hz)

***2 The 5-BNC connectors are used as RGB/PC2 and HD/DVD2 input. Select one of them under "BNC INPUT".**

***3 Not compatable with HDCP.**

■ 50XGA

Screen Size	1106(H)×622(V) mm 43.5"(H)×24.5"(V) inches diagonal 50" Installed AR (Anti-Reflection) Filter
Aspect Ratio	16 : 9
Resolution	1365(H)×768(V) pixels
Pixel Pitch	0.81(H)×0.81(V) mm 0.032"(H)×0.032"(V) inches
Color Reproduction	256 levels, 16,770,000 colors
Signals	
Synchronization Range	Horizontal : 15.5 to 110 kHz (automatic : step scan) Vertical : 50.0 to 120 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, H/CS, V)×1*2
Visual 3 (Digital)	DVI-I 24-pin×1*3 (Not compatible with analog input)
Video	
Visual 1	BNC×1
Visual 2	RCA-pin×1
Visual 3	S-Video: DIN 4-pin×1
DVD/HD/DTV	
Visual 1	RCA-pin (Y, PB[CB], PR[CR])×1*1
Visual 2	BNC (Y, PB[CB], PR[CR])×1*1, *2
Audio	Stereo RCA×3 (Selectable)
External Control	D-sub 9-pin×1 (RS-232C)
Sound output	9W+9W at 6 ohm
Power Supply	AC100-240V 50/60Hz
Current Rating	8 A (maximum)
Power Consumption	480W (typical)
Dimensions	1222 (W)×736 (H)×96(D) mm 48.1 (W)×30 (H)×3.8 (D) inches
Weight	44.5 kg / 98.0 lbs (without stand)
Environmental Considerations	
Operating Temperature	0°C to 40°C / 32°F to 104°F
Humidity	20 to 80% (no condensation)
Altitude	0 to 2800 m / 0 to 9180 feet
Storage Temperature	-10°C to 50°C / 14°F to 122°F
Humidity	10 to 90% (no condensation)
Altitude	0 to 3000 m / 0 to 9840 feet
Front Panel User Controls	Power on/off, Input source select, Volume up/down/ OSM control
Remote Control Functions	Power on/off, Input source select, OSM control,Volume up/down, Cursor (UP, DOWN,LEFT, RIGHT), Pointer, Zoom up/down, Off timer, Wireless/ Wired remote control
OSM Functions	Picture (Contrast/Brightness/Sharpness/ Color/Tint/Picture mode/Noise reduction/ Color temperature/White balance/Gamma/ Low tone/Color tune), Audio (Bass/Treble/ Balance/Audio input), Image Adjust (Aspect mode/V-Position /H-Position/V-Height /H-Width/Auto Picture/Fine picture/Picture adjustment), Option1 (OSM/BNC Input/D-Sub Input/RGB Select/HD Select/Input Skip/ All Reset), Option2 (Power management/ Cinema mode/Long life [PLE, Orbiter, Inverse, White, Screen wiper]/Gray level/ Picture size), Option3 (Timer Power on mode/Control lock/IR Remote/Loop out/ID number/Video wall [Divider, Position, Disp. mode, Auto ID, Image adjust, Power on delay, PLE link, Timer]), Advanced OSM, Language*, Color system, Source information *English, German, French, Italian, Spanish, Swedish, Chinese
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), 2-2 pull down Converter (PAL, 576I, 625I, NTSC, 480I, 525I), Digital Zoom Function (100-900% Selectable), Video Wall 2×2/3×3 multi screen, Self Diagnosis, Anti Image Burn (PLE LOCK1~3, INVERSE, WHITE, ORBITER (Auto1,2/Manual), SCREEN WIPER), Color Temperature select (high/ mid/mid low/low, user has 4 memories), Control lock (Except power SW), Auto Picture, Input Skip, Color Tune, Low Tone (3 mode), Auto ID, Programmable Timer, Gamma Correction (4 mode), Loop through interface, Plug and play (DDC1, DDC2b, RGB3: DDC2b only)
Accessories	Remote control with two AAA batteries, Power cord, User's Manual, Safety metal fittings, Screws for safety metal fittings, Ferrite cores, Bands, Cable clamps
Regulations	Meets class A requirements (EN55022, EN61000-3-2, EN61000-3-3, EN55024) Meets Low Voltage Directive (EN60950, SEMKO Approved) Meets AS/NZS 3548 Class A



Units are in mm (inch)

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

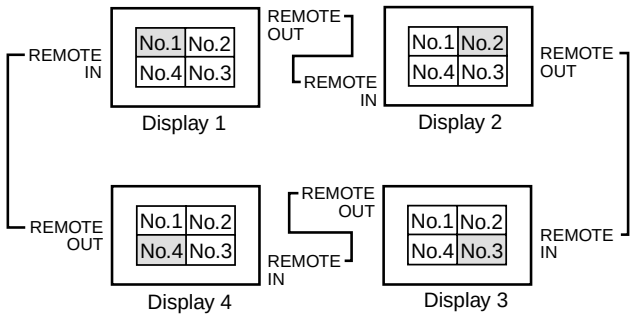
***1 HD/DVD/DTV input signals supported on this system**

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)	1035I (60 Hz)
1080I (50 Hz)	1080I (60 Hz)

***2 The 5-BNC connectors are used as RGB/PC2 and HD/DVD2 input. Select one of them under "BNC INPUT".**

***3 Not compatable with HDCP.**

PlasmaSync™ 42VP4/42VP4D Supplement Sheet

Page	Correction
(Introduction) Contents of the Package	The cable clamps come attached to the back of the monitor.
Page 24 (Information) OSM ANGLE settings	The portrait display format can be set irrespective of the ON or OFF of Advanced OSM.
Page 37 (Information) PLE LINK settings	The PLE LINK can be set in a 3×3 video wall also.  * Connect the remote control cable between Display 1 and Display 4. * With the 3×3 video wall, connect the final display to the first display the same way as with 2×2 video wall.

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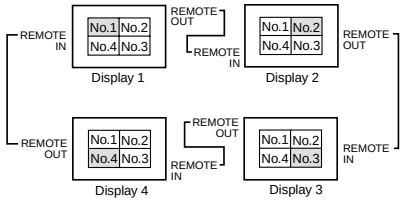
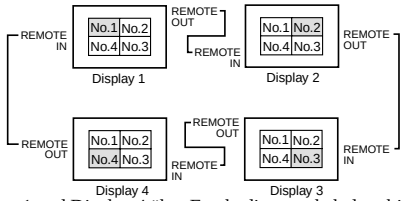
PlasmaSync 42VP4/42VP4D Supplement Sheet

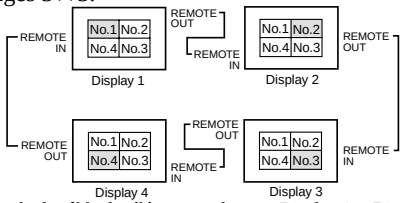
ENGLISH

Page	Correction
E-2 Contents of the Package	The cable clamps come attached to the back of the monitor.
E-24 OSM ANGLE settings	The portrait display format can be set irrespective of the ON or OFF of Advanced OSM.
E-39 PLE LINK settings	The PLE LINK can be set in a 3×3 video wall also.  * Connect the remote control cable between Display 1 and Display 4. * With the 3×3 video wall, connect the final display to the first display the same way as with 2×2 video wall.

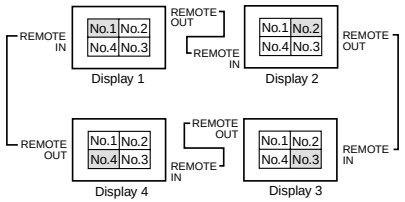
DEUTSCH

Seite	Korrektur
G-2 Inhalt der Verpackung	Die Kabelklemmen sind an der Rückwand vorgesehen.
G-25 OSM WINKEL-Einstellungen	Das Portrait- bzw. Vertikalformat (V) bleibt von der Einstellung der erweiterten OSM-Funktion unbeeinflusst.
G-41 PLE LINK-Einstellungen	PLE LINK kann auch als 3×3-Video-Wand eingestellt werden.  * Display 1 und Display 4 über Fernbedienungskabel verbinden. * Im Falle einer 3×3-Video-Wand den letzten Monitor wie bei einer 2×2-Video-Wand mit dem ersten Monitor verbinden.

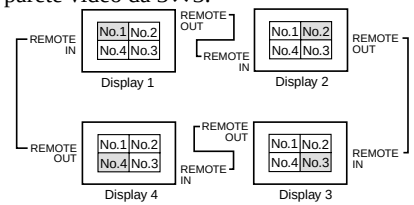
FRANÇAIS

Page	Correction
F-2 Contenu du colis	Les colliers de câble sont fixés au dos du moniteur.
F-25 Réglages de ANGLE OSM	Le format d'affichage en portrait peut être activé que la fonction OSM Avancé soit active (ON) ou non (OFF).
F-41 Réglage de PLE LINK	La liaison PLE LINK est également utilisable en mur d'images 3×3.  * Raccorder le câble de télécommande entre Display 1 et Display 4. * Pour les murs d'image 3×3, raccorder le dernier affichage au premier de la même manière que pour un mur d'images 2×2.

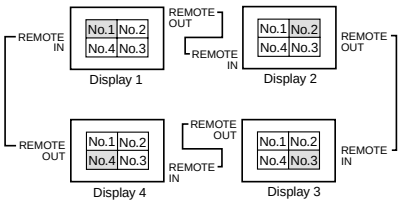
ESPAÑOL

Página	Corrección
S-2 Contenido del embalaje	Las abrazaderas de cables están colocadas en la parte trasera del monitor.
S-25 Ajustes de ANGULO OSM	El formato de visualización vertical se puede establecer independientemente del encendido o apagado de OSM avanzado.
S-41 Ajustes de PLE LINK	PLE LINK puede colocarse también en una video wall de 3×3.  * Conecte el cable del mando a distancia entre la pantalla 1 y la pantalla 4. * Con la video wall de 3×3, conecte la pantalla final a la primera pantalla de igual forma que con la video wall de 2×2.

ITALIANO

Pagina	Correzione
I-2 Contenuto dell'imballo	I morsetti per cavo vengono forniti fissati sul lato posteriore del monitor.
I-25 Impostazioni dell'opzione OSM ANGOLO	Il formato di visualizzazione verticale può essere impostato a prescindere dall'impostazione ON od OFF delle funzioni OSM Avanzate.
I-41 Impostazioni della funzione PLE LINK	La funzione PLE LINK può altresì essere impostata nella parete video da 3×3.  * Collegate il cavo del telecomando tra Display 1 e Display 4. * Nella parete video da 3×3, collegate il monitor finale al primo monitor seguendo la stessa modalità adottata per la parete video da 2×2.

SVENSKA

Sida	Korrigering
W-2 Förpackningens innehåll	Kabelklämmorna medföljer fastsatta på baksidan av skärmen.
W-25 Inställningar för MENYASPEKT	Visningsformatet på höjden kan väljas avsett om UTÖKAD MENY är PÅ (ON) eller AV (OFF).
W-40 Inställningar för PLE LINK	PLE LINK kan också ställas in för en 3×3 plasmavägg.  * Anslut fjärrkontrollkabeln mellan Display 1 och Display 4. * För en 3×3 plasmavägg skall du ansluta den sista displayen till den första displayen på samma sätt som för en 2×2 plasmavägg.

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