marantz

Model PD4220 User Guide

Plasma Monitor

ENGLISH

WARRANTY

For warranty information, contact your local Marantz distributor. RETAIN YOUR PURCHASE RECEIPT

Your purchase receipt is your permanent record of a valuable purchase. It should be kept in a safe place to be referred to as necessary for insurance purposes or when corresponding with Marantz.

IMPORTANT

When seeking warranty service, it is the responsibility of the consumer to establish proof and date of purchase. Your purchase receipt or invoice is adequate for such proof.

FOR U.K. ONLY

This undertaking is in addition to a consumer's statutory rights and does not affect those rights in any way.

FRANÇAIS

GARANTIE

Pour des informations sur la garantie, contacter le distributeur local Marantz.

CONSERVER L'ATTESTATION D'ACHAT

L'attestation d'achat est la preuve permanente d'un achat de valeur. La conserver en lieu sur pour s'y reporter aux fins d'obtention d'une couverture d'assurance ou dans le cadre de correspondances avec Marantz.

IMPORTANT

Pour l'obtention d'un service couvert par la garantie, il incombe au client d'établir la preuve de l'achat et d'en corroborer la date. Le reçu ou la facture constituent des preuves suffisantes.

DEUTSCH

GARANTIE

Bei Garantiefragen wenden Sie sich bitte an Ihren Marantz-Händler.

HEBEN SIE IHRE QUITTING GUT AUF

Die Quittung dient Ihnen als bleibende Unterlage für Ihren wertvollen Einkauf Das Aufbewahren der Quittung ist wichtig, da die darin enthaltenen Angaben für Versicherungswecke oder bei Korrespondenz mit Marantz angeführt werden müssen.

WICHTIG!

Bei Garantiefragen muß der Kunde eine Kaufunterlage mit Kaufdatum vorlegen. Ihren Quittung oder Rechnung ist als Unterlage ausreichend.

ESPAÑOL

GARANTIA

Para obtener información acerca de la garantia póngase en contacto con su distribuidor Marantz.

GUARDE SU RECIBO DE COMPRA

Su recibo de compra es su prueba permanente de haber adquirido un aparato de valor, Este recibo deberá guardarlo en un lugar seguro y utilizarlo como referencia cuando tenga que hacer uso del seguro o se ponga en contacto con Marantz.

IMPORTANTE

Cuando solicite el servicio otorgado por la garantia el usuario tiene la responsabilidad de demonstrar cuá¥do efectuó la compra. En este caso, su recibo de compra será la prueba apropiada.

ITALIANO

GARANZIA

L'apparecchio è coperto da una garanzia di buon funzionamento della durata di un anno, o del periodo previsto dalla legge, a partire dalla data di acquisto comprovata da un documento attestante il nominativo del Rivenditore e la data di vendita. La garanzia sarà prestata con la sostituzione o la riparazione gratuita delle parti difettose.

Non sono coperti da garanzia difetti derivanti da uso improprio, errata installazione, manutenzione effettuata da personale non autorizzato o, comunque, da circostanze che non possano riferirsi a difetti di funzionamento dell'apparecchio. Sono inoltre esclusi dalla garanzia gli interventi inerenti l'installazione e l'allacciamento agli impianti di alimentazione.

Gli apparecchi verranno riparati presso i nostri Centri di Assistenza Autorizzati. Le spese ed i rischi di trasporto sono a carico del cliente. La casa costruttrice declina ogni responsabilità per danni diretti o indiretti provocati dalla inosservanza delle prescrizioni di installazione, uso e manutenzione dettagliate nel presente manuale o per guasti dovuti ad uso continuato a fini professionali.

SVENSKA

GARANTI

För information om garantin, kontakta Marantz lokalagent.

SPAR KVITTOT

Kvittot är ett inköpsbevis på en värdefull vara. Det skall förvaras säkert och hänvisas till vid försäkringsfall eller vidkorrespondens mod Marantz.

VIKTIGT

Fö att garantin skall gälla är det kundens sak att framställa bevis och datum om köpet. Kvitto eller faktura är tillräokligt bevis fö detta.

CE MARKING

CE English

The PD4220V is in conformity with the EMC directive and low-voltage directive.

Français

Le PD4220V est conforme à la directive EMC et à la directive sur les basses tensions.

C E Deutsch

Das Modell PD4220V entspricht den EMC-Richtlinien und den Richtlinien für Niederspannungsgeräte.

Españo

El PD4220V está de acuerdo con las normas EMC y las relacionadas con baja tensión.

(E Italiano

Il PD4220V è conforme alle direttive CEE ed a quelle per i bassi voltaggi.

(E Svenska

PD4220V är tillverkad i enlighet med EMC direktiven och direktiven för lågvoltsutrusning.

User Guide

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

ENGLISH

DEUTSCH

FRANÇAIS

ESPAÑOL

ITALIANO

SVENSKA

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 WITHAN EXTENSION CORD RECEPTACLE OR OTHER OUTLETS, UNLESS THE PRONGS CAN BE FULLY INSERTED. REFRAIN FROM OPENING THE CABINET AS THERE ARE HIGH-VOLTAGE COMPONENTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Warnings and Safety Precaution

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

- 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 Marantz 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 Marantz Service Centers.
- 8. Do not insert anything into the equipment through the ventilation holes.
- 9. Do not handle the mains lead with wet hands.
- No naked flame sources, such as lighted candles, should be placed on the equipment.
- 11. When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country or area.

To avoid damage and prolong operating life:

- 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.
- 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:

- 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 Marantz service center for other recommended procedures that will best suit your particular application needs.

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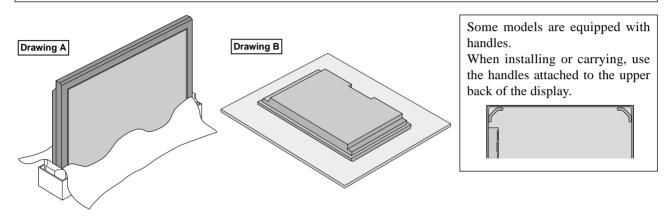
How to Attach Options to the Plasma Monitor

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.

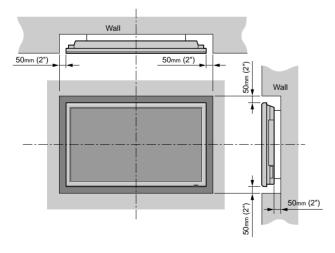
Failure to follow correct mounting procedures could result in damage to the equipment or injury to the installer.

Product warranty does not cover damage caused by improper installation.



Ventilation Requirements for enclosure mounting

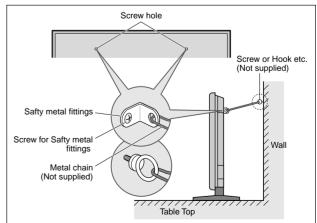
To allow heat to disperse, leave space between surrounding objects as shown on the diagram below when installing.



How to use the safety metal fittings and the screws for safety metal fittings

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.

* Safety metal fittings will differ according to the model.



Introduction

Introduction to the PlasmaSync Plasma Monitor

Marantz's plasma monitor is a seamless blend of cutting-edge visual technology and sophisticated design. At each inch, with a 16:9 aspect ratio, the Plasma monitor certainly makes a big impression. However, the monitor's sleek technoart lines blend in well with your environment. Marantz Plasma monitor's crisp, vivid image quality will transform data from any graphic medium from PCs to DVD playersinto art. Marantz has 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:

- · Color Filter and black matrix
- The enhanced display in red uses a two-stage filtering system.
- 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.
- 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 onscreen color temperature settings
- New Drive Technology
- Component video input terminal for DVD, 15.75kHz (Y, CB, CR)
- 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
☐ Manuals
☐ Safety metal fitting parts*
☐ Ferrite cores, bands
☐ Cable clamps

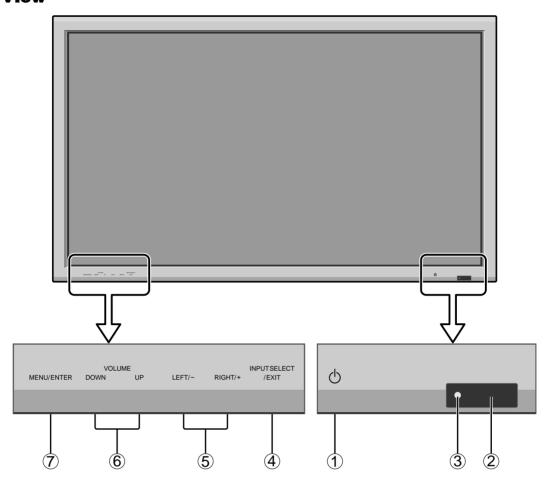
- * Contents will differ according to the model.
- * These are fittings for fastening the unit to a wall to prevent tipping due to external shock when using the stand (optional). Fasten the safety fittings to the holes in the back of the monitor using the safety fitting mount screws (see page E-1).

Options

- Wall mount unit
- Stand

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

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 (\blacktriangleleft / \blacktriangleright) buttons in the On-Screen Menu (OSM) mode.

6 VOLUME DOWN and UP

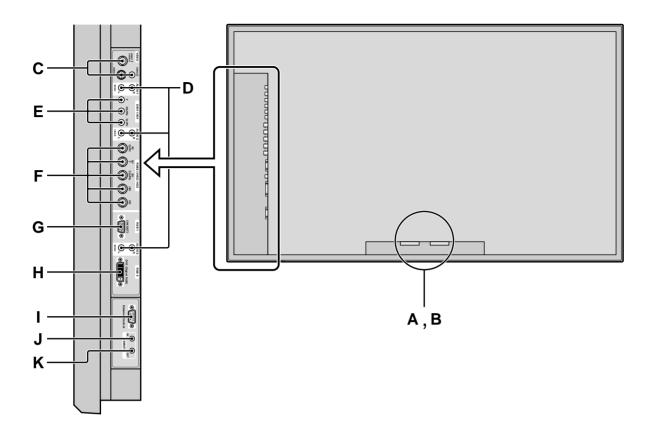
Adjusts the volume. Functions as the CURSOR (▲/▼) buttons in the On-Screen Menu (OSM) mode.

7 MENU/ENTER

Sets the On-Screen Menu (OSM) mode and displays the main menu.

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

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. Connect the \bigoplus (positive) speaker wire to the \bigoplus EXT SPEAKER terminal and the \bigoplus (negative) speaker wire to the \bigoplus EXT SPEAKER terminal on both LEFT and RIGHT channels.

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

C VIDEO1, 2, 3 (BNC, RCA, S-Video)

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

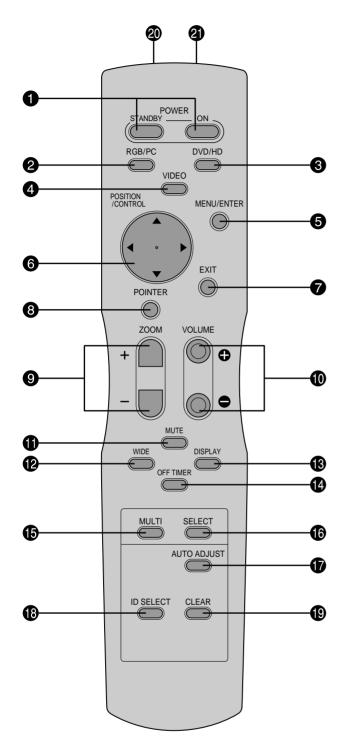
Connect the remote cable* to the remote control's remote jack to obtain wired remote control.

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.

Remote Control



1 POWER ON/STANDBY

Switches the power on/standby. (This does not operate when POWER/STANDBY indicator of the main unit is off.)

2 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.

3 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.

4 VIDEO

Press this button to select VIDEO as the source.

$$\stackrel{\longrightarrow}{\longrightarrow} \mathsf{VIDEO1} \to \mathsf{VIDEO2} \to \mathsf{VIDEO3} \to \mathsf{VIDEO3$$

VIDEO can also be selected using the INPUT SELECT button on the monitor.

6 MENU/ENTER

Press this button to access the OSM controls. Press this button during the display of the main menu to go to the sub menu.

6 CURSOR (**△** / **▼** / **⊲** / **▶**)

Use these buttons to select items or settings and to adjust settings or switch the display patterns.

6 EXIT

Press this button to exit the OSM controls in the main menu. Press this button during the display of the sub menu to return to the previous menu.

8 POINTER

Press this button to display the pointer.

9 ZOOM (+ /-)

Enlarges or reduces the image.

1 VOLUME (+ /-)

Adjusts the audio volume.

1 MUTE

Mutes the sound.

WIDE

Automatically detects the signal and sets the aspect ratio.

Wide button is not active for all signals.

B DISPLAY

Displays the source settings on the screen.

1 OFF TIMER

Activates the off timer for the unit.

6 MULTI

Not functional for the models covered in this manual.

6 SELECT

Not functional for the models covered in this manual.

1 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.

1 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.

© CLEAR

Clears the number set by the ID SELECT button.

@ Remote control signal transmitter

Transmits the remote control signals.

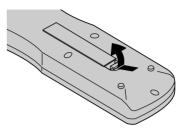
Remote Jack

Insert the plug of the remote cable (The 1/8 Stereo Mini cable) here when using the supplied remote control in the wired condition.

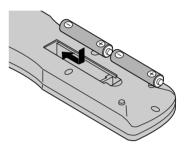
Battery Installation and Replacement

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

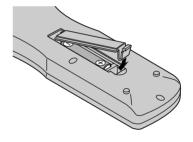
1. Press and open the cover.



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



3.Replace the cover.

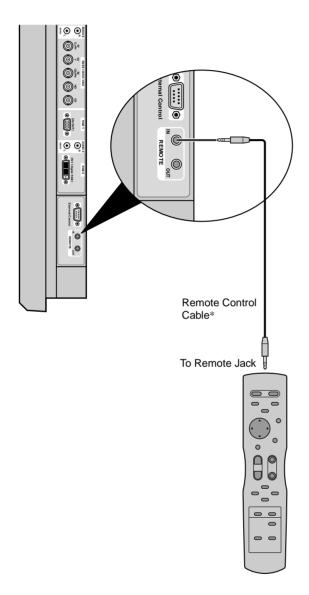


Using the wired remote control mode

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

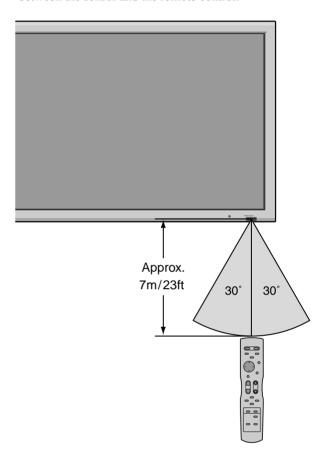
When the cable is connected, the mode automatically switches to wired remote control. When the wired remote control mode is used, the remote control can be operated even if no batteries are loaded.



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

Operating Range

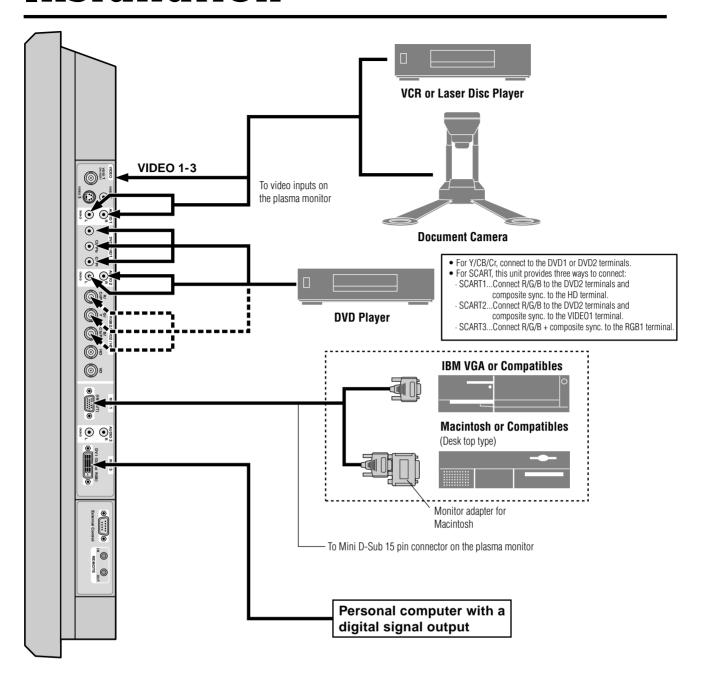
- * Use the remote control within a distance of about 7 m/23ft. from the front of the monitor's remote control sensor and at horizontal and vertical angles of up to approximately 30°
- * The remote control operation may not function if the monitor's remote control sensor is exposed to direct sunlight 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-3 of Model Information.

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.
- 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 19" fixed mode is recommended for your monitor.

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:

- 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.

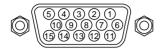
Note: Refer to your VCR or laser disc player owner's manual for more information about your equipment's video output requirements.

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.
- 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



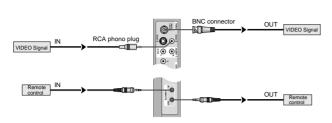
Pin No.	Signal (Digital)
1	T.M.D.S Data 2 -
2	T.M.D.S Data 2 +
3	T.M.D.S Data 2 Shield
4	No connection
5	No connection
6	DDC Clock
7	DDC Data
8	No connection
9	T.M.D.S Data 1 -
10	T.M.D.S Data 1 +
11	T.M.D.S Data 1 Shield
12	No connection
13	No connection
14	+5V Power
15	Ground
16	Hot Plug Detect
17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

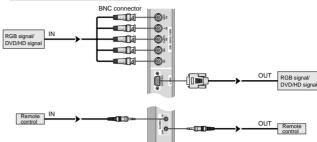
With buit-in matrix display capability, you can create a 2×2 or 3×3 video wall.

• Connect signal cables and remote cables as shown below.

Video signal







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.

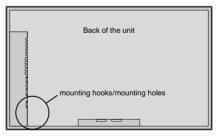
Information

- 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.

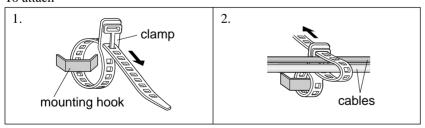
Cable Management

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.

* The cable clamp will differ according to the model.



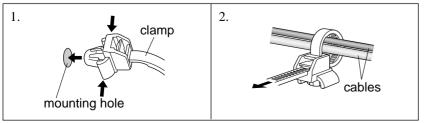
To attach



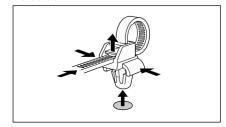
To detach



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.
- Press the Power button (on the unit).
 The monitor's POWER/STANDBY indicator turns red and the standby mode is set.
- 3. Press the POWER ON button (on the remote control) to turn on the unit.
 - The monitor's POWER/STANDBY indicator will light up (green) when the unit is on.
- 4. Press the POWER STANDBY button (on the remote control) or the Power button (on the unit) to turn off the unit.

The monitor's POWER/STANDBY indicator turns red and the standby mode is set (only when turning off the unit with the remote control).

VOLUME

To adjust the sound volume:

- 1. Press and hold the VOLUME

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

MUTE

To 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. ($\mathbb Q$)

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 $\triangle \nabla \blacktriangleleft \triangleright$ 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

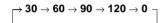
areas above and below the picture.

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.





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 six 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.

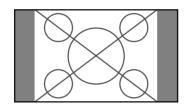
The screen size switches as follows:

 $\stackrel{\textstyle \rightarrow}{\longrightarrow} \text{NORMAL} \rightarrow \text{FULL} \rightarrow \text{STADIUM} \rightarrow \text{ZOOM} \rightarrow 2.35:1 \rightarrow 14:9 -$

When a 720P or 1080I signal is input:

 $FULL \leftrightarrow 2.35:1$

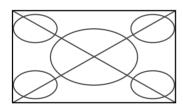
NORMAL size screen (4:3)



The normal size screen is displayed.

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

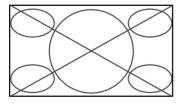
FULL size screen



The image is expanded in the horizontal direction.

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

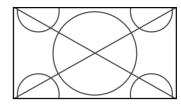
STADIUM size screen



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

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

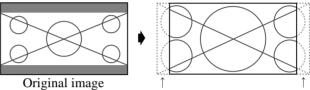
ZOOM size screen



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

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

2.35:1 size screen

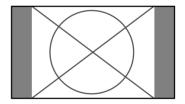


Information is lost on both sides.

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

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

14:9 size screen



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

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

Note:

Do not allow the displayed in 4:3 mode for an extended period. This can cause a phosphor burn-in.

Wide Screen Operation with Computer Signals

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

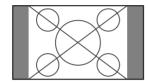
- 1. Press the WIDE button on the remote control.
- 2. Within 3 seconds ...

Press the WIDE button again.

The screen size switches as follows:

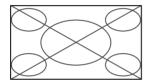
ightarrow NORMAL ightarrow FULL ightarrow ZOOM -

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



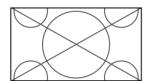
The picture has the same size as the normal computer image.

FULL size screen



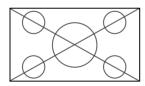
The image is expanded in the horizontal direction.

ZOOM size screen



When wide signals are input.

FULL size screen



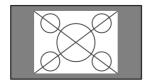
When "PICTURE SIZE" is set to "OFF"

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

The screen size switches as follows:

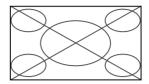
 $\xrightarrow{} \mathsf{TRUE} \to \mathsf{FULL} \to \mathsf{ZOOM} -$

TRUE size screen (VGA, SVGA 4:3)



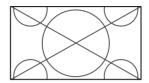
The image is true resolution.

FULL size screen



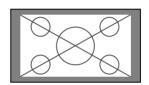
The image is expanded in the horizontal and vertical direction.

ZOOM size screen



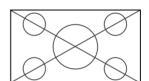
When wide signals are input.

TRUE



The image is true resolution.

FULL



Information

■ Supported resolution

See page E-3 of Model Information 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 \times 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-3 of Model Information.

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

Note:

Do not allow the displayed in 4:3 mode for an extended period. This can cause a phosphor burn-in.

OSM(On Screen Menu) Controls

Menu Operations

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

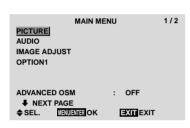
* Depending on the screen's mode, the OSM may be displayed differently.

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



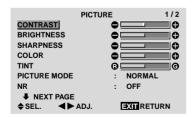
The following describes how to use the menus and the selected items.

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





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



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

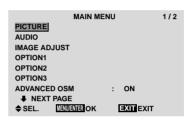
- 5. The adjustments or the settings that are stored in memory.
 - The change is stored until you change it again.
- 6. Repeat steps 2 5 to adjust an additional item, or press the EXIT button on the remote control to return to the main menu.

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.



Menu Tree

- :Shaded areas indicate the default value.
- $-\longleftrightarrow +:$ Press the \blacktriangleleft or \blacktriangleright button to adjust. The default value is at the center.
- :Menu items in a ruled box are available when the ADVANCED OSM is set to ON.

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
PICTURE	CONTRAST	$-\leftarrow\rightarrow+$			YES	E-19
	BRIGHTNESS	$-\!\leftarrow\!\!\rightarrow\!+$			YES	E-19
	SHARPNESS	$-\!\leftarrow\!\!\rightarrow\!+$			YES	E-19
	COLOR	$-\!\leftarrow\!\!\rightarrow\!+$			YES	E-19
	TINT	$-\!\leftarrow\!\!\rightarrow\!+$			YES	E-19
	PICTURE MODE	BRIGHT/NORM/	AL/THEAT.1/THEAT.2	2/DEFAULT	YES	E-19
	NR	OFF/NR-1/NR-2	/NR-3		YES	E-20
	COLOR TEMP	LOW/MID LOW/	MID/HIGH		YES	E-20
	WHITE BALANCE	GAIN RED	$-\leftarrow\rightarrow+$		YES	E-20
		GAIN GREEN	$-\leftarrow\rightarrow+$		YES	E-20
		GAIN BLUE	$-\leftarrow\rightarrow+$		YES	E-20
		BIAS RED	$-\leftarrow\rightarrow+$		YES	E-20
		BIAS GREEN	$-\leftarrow\rightarrow+$		YES	E-20
		BIAS BLUE	$-\leftarrow\rightarrow+$		YES	E-20
		RESET	$OFF \leftarrow \rightarrow ON$		YES	E-20
	GAMMA	1←→2←⋯→4			YES	E-21
	LOW TONE	AUTO←→1←·			YES	E-21
	COLOR TUNE	RED	Y←→M		YES	E-22
	00201110112	GREEN	C←→Y		YES	E-22
		BLUE	M←→C		YES	E-22
		YELLOW	G←→R		YES	E-22
		MAGENTA	R←→B		YES	E-22
		CYAN	B←→G		YES	E-22
		RESET	OFF←→ON		YES	E-22
		TILOLI	011 (120	L 22
Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
AUDIO	BASS	$-\leftarrow\rightarrow+$			YES	E-22
	TREBLE	$-\longleftrightarrow+$			YES	E-22
	BALANCE	L←→R			YES	E-22
	AUDIO INPUT1		DVD 1-2 / RGB 1-3		YES	E-23
	AUDIO INPUT2		DVD 1-2 / RGB 1-3		YES	E-23
	AUDIO INPUT3		DVD 1-2 / RGB 1-3		YES	E-23
					120	
Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
Main menu IMAGE ADJUST	Sub menu ASPECT MODE		Sub menu 3 STADIUM/ZOOM/2.			REFERENCE E-23
					RESET	
	ASPECT MODE	NORMAL/FULL/			RESET	E-23
	ASPECT MODE V-POSITION	NORMAL/FULL/ -←→+			RESET — YES	E-23 E-23
	ASPECT MODE V-POSITION H-POSITION	NORMAL/FULL/ $-\longleftrightarrow +$ $-\longleftrightarrow +$			RESET YES YES	E-23 E-23 E-23
	ASPECT MODE V-POSITION H-POSITION V-HEIGHT	NORMAL/FULL/ $-\leftarrow\rightarrow+$ $-\leftarrow\rightarrow+$ $-\leftarrow\rightarrow+$			RESET YES YES YES YES	E-23 E-23 E-23 E-23
	ASPECT MODE V-POSITION H-POSITION V-HEIGHT H-WIDTH	NORMAL/FULL/ $-\longleftrightarrow +$ $-\longleftrightarrow +$ $-\longleftrightarrow +$ $-\longleftrightarrow +$			RESET YES YES YES YES YES YES	E-23 E-23 E-23 E-23 E-23
	ASPECT MODE V-POSITION H-POSITION V-HEIGHT H-WIDTH AUTO PICTURE	NORMAL/FULL/ $-\longleftrightarrow+$ $-\longleftrightarrow+$ $-\longleftrightarrow+$ $-\longleftrightarrow+$ $-\longleftrightarrow+$ OFF \longleftrightarrow ON*2			RESET YES YES YES YES YES NO	E-23 E-23 E-23 E-23 E-23 E-23
IMAGE ADJUST	ASPECT MODE V-POSITION H-POSITION V-HEIGHT H-WIDTH AUTO PICTURE FINE PICTURE*1 PICTURE ADJ.*1	NORMAL/FULL/ $-\longleftrightarrow +$ $-\longleftrightarrow +$ $-\longleftrightarrow +$ $-\longleftrightarrow +$ $OFF \longleftrightarrow ON^{*2}$ $-\longleftrightarrow + *^{2}$ $-\longleftrightarrow + *^{2}$	STADIUM/ZOOM/2.	35:1/14:9	RESET YES YES YES YES NO YES YES YES	E-23 E-23 E-23 E-23 E-23 E-23 E-23
IMAGE ADJUST	ASPECT MODE V-POSITION H-POSITION V-HEIGHT H-WIDTH AUTO PICTURE FINE PICTURE*1 PICTURE ADJ.*1 Sub menu	NORMAL/FULL/ $-\longleftrightarrow+$ $-\longleftrightarrow+$ $-\longleftrightarrow+$ $-\longleftrightarrow+$ $-\longleftrightarrow+$ $OFF\longleftrightarrowON^{*2}$ $-\longleftrightarrow+^{*2}$ $-\longleftrightarrow+^{*2}$ Sub menu 2	STADIUM/ZOOM/2. Sub menu 3		RESET YES YES YES YES NO YES YES RESET	E-23 E-23 E-23 E-23 E-23 E-23 E-23 E-23
IMAGE ADJUST	ASPECT MODE V-POSITION H-POSITION V-HEIGHT H-WIDTH AUTO PICTURE FINE PICTURE*1 PICTURE ADJ.*1	NORMAL/FULL/ $-\longleftrightarrow+$ $-\longleftrightarrow+$ $-\longleftrightarrow+$ $-\longleftrightarrow+$ $OFF\longleftrightarrowON^{*2}$ $-\longleftrightarrow+^{*2}$ $-\longleftrightarrow+^{*2}$ Sub menu 2 DISPLAY OSM	STADIUM/ZOOM/2. Sub menu 3 OFF←→ON	35:1/14:9	RESET YES YES YES YES NO YES YES RESET YES	E-23 E-23 E-23 E-23 E-23 E-23 E-23 E-23
IMAGE ADJUST	ASPECT MODE V-POSITION H-POSITION V-HEIGHT H-WIDTH AUTO PICTURE FINE PICTURE*1 PICTURE ADJ.*1 Sub menu	NORMAL/FULL/ $-\leftarrow\rightarrow+$ $-\leftarrow\rightarrow+$ $-\leftarrow\rightarrow+$ OFF $\leftarrow\rightarrow$ ON*2 $-\leftarrow\rightarrow+$ *2 $-\leftarrow\rightarrow+$ *2 Sub menu 2 DISPLAY OSM OSM ADJ.	STADIUM/Z00M/2. Sub menu 3 $0FF \leftarrow \rightarrow 0N$ $1 \leftarrow \cdots \rightarrow 6$	35:1/14:9	RESET YES YES YES YES NO YES YES RESET YES	E-23 E-23 E-23 E-23 E-23 E-23 E-23 E-23
IMAGE ADJUST	ASPECT MODE V-POSITION H-POSITION V-HEIGHT H-WIDTH AUTO PICTURE FINE PICTURE*1 PICTURE ADJ.*1 Sub menu	NORMAL/FULL/ $-\leftarrow\rightarrow+$ $-\leftarrow\rightarrow+$ $-\leftarrow\rightarrow+$ OFF $\leftarrow\rightarrow$ ON*2 $-\leftarrow\rightarrow+$ *2 $-\leftarrow\rightarrow+$ *2 Sub menu 2 DISPLAY OSM OSM ADJ. OSM ANGLE	STADIUM/Z00M/2. Sub menu 3 $0FF \leftarrow \rightarrow 0N$ $1 \leftarrow \cdots \rightarrow 6$ $H \leftarrow \rightarrow V$	35:1/14:9	RESET YES YES YES YES NO YES YES YES YES YES YES YES	E-23 E-23 E-23 E-23 E-23 E-23 E-23 E-23
IMAGE ADJUST	ASPECT MODE V-POSITION H-POSITION V-HEIGHT H-WIDTH AUTO PICTURE FINE PICTURE*1 PICTURE ADJ.*1 Sub menu OSM	NORMAL/FULL/ $-\leftarrow \rightarrow +$ $-\leftarrow \rightarrow +$ $-\leftarrow \rightarrow +$ $-\leftarrow \rightarrow +$ OFF $\leftarrow \rightarrow$ ON*2 $-\leftarrow \rightarrow + *2$ $-\leftarrow \rightarrow + *2$ Sub menu 2 DISPLAY OSM OSM ADJ. OSM ANGLE OSM ORBITER	STADIUM/ZOOM/2. Sub menu 3 OFF \longleftrightarrow ON $1 \longleftrightarrow \longleftrightarrow$ O OFF \longleftrightarrow ON	35:1/14:9 Sub menu 4	RESET YES YES YES YES NO YES	E-23 E-23 E-23 E-23 E-23 E-23 E-23 E-23
IMAGE ADJUST	ASPECT MODE V-POSITION H-POSITION V-HEIGHT H-WIDTH AUTO PICTURE FINE PICTURE*1 PICTURE ADJ.*1 Sub menu OSM BNC INPUT	NORMAL/FULL/ $-\leftarrow \rightarrow +$ $-\leftarrow \rightarrow +$ $-\leftarrow \rightarrow +$ $-\leftarrow \rightarrow +$ OFF $\leftarrow \rightarrow$ ON* ² $-\leftarrow \rightarrow +$ * ² $-\leftarrow \rightarrow +$ * ² Sub menu 2 DISPLAY OSM OSM ADJ. OSM ANGLE OSM ORBITER RGB $\leftarrow \rightarrow$ COMP.	STADIUM/ZOOM/2. Sub menu 3 OFF \longleftrightarrow ON $1 \longleftrightarrow \longleftrightarrow$ OFF \longleftrightarrow ON \longleftrightarrow SCART1 \longleftrightarrow S	35:1/14:9 Sub menu 4	RESET YES YES YES YES NO YES	E-23 E-23 E-23 E-23 E-23 E-23 E-23 E-23
IMAGE ADJUST	ASPECT MODE V-POSITION H-POSITION V-HEIGHT H-WIDTH AUTO PICTURE FINE PICTURE*1 PICTURE ADJ.*1 Sub menu OSM BNC INPUT D-SUB INPUT	NORMAL/FULL/ $-\leftarrow \rightarrow +$ $-\leftarrow \rightarrow +$ $-\leftarrow \rightarrow +$ $-\leftarrow \rightarrow +$ OFF $\leftarrow \rightarrow$ ON*2 $-\leftarrow \rightarrow +$ *2 $-\leftarrow \rightarrow +$ *2 Sub menu 2 DISPLAY OSM OSM ADJ. OSM ANGLE OSM ORBITER RGB $\leftarrow \rightarrow$ COMP. RGB $\leftarrow \rightarrow$ SCART	STADIUM/ZOOM/2. Sub menu 3 OFF \longleftrightarrow ON $1 \longleftarrow \longleftrightarrow$ OFF \longleftrightarrow ON \longleftrightarrow SCART1 \longleftrightarrow ST3	Sub menu 4 SCART2	RESET YES YES YES YES NO YES	E-23 E-23 E-23 E-23 E-23 E-23 E-23 E-24 E-24 E-24 E-24 E-24 E-24 E-25 E-25
IMAGE ADJUST	ASPECT MODE V-POSITION H-POSITION V-HEIGHT H-WIDTH AUTO PICTURE FINE PICTURE*1 PICTURE ADJ.*1 Sub menu OSM BNC INPUT D-SUB INPUT RGB SELECT	NORMAL/FULL/ $-\leftarrow \rightarrow +$ $-\leftarrow \rightarrow +$ $-\leftarrow \rightarrow +$ $-\leftarrow \rightarrow +$ OFF $\leftarrow \rightarrow$ ON*2 $-\leftarrow \rightarrow +$ *2 $-\leftarrow \rightarrow +$ *2 Sub menu 2 DISPLAY OSM OSM ADJ. OSM ANGLE OSM ORBITER RGB $\leftarrow \rightarrow$ COMP. RGB $\leftarrow \rightarrow$ SCART AUTO/STILL/MO	STADIUM/ZOOM/2. Sub menu 3 OFF \longleftrightarrow ON $1 \longleftrightarrow \longleftrightarrow$ OFF \longleftrightarrow ON \longleftrightarrow SCART1 \longleftrightarrow S T3 OTION/WIDE1/WIDE	Sub menu 4 SCART2	RESET YES YES YES YES NO YES	E-23 E-23 E-23 E-23 E-23 E-23 E-23 E-24 E-24 E-24 E-24 E-24 E-24 E-25 E-25 E-25
IMAGE ADJUST	ASPECT MODE V-POSITION H-POSITION V-HEIGHT H-WIDTH AUTO PICTURE FINE PICTURE*1 PICTURE ADJ.*1 Sub menu OSM BNC INPUT D-SUB INPUT RGB SELECT HD SELECT	NORMAL/FULL/ $-\leftarrow\rightarrow+$ $-\leftarrow\rightarrow+$ $-\leftarrow\rightarrow+$ $-\leftarrow\rightarrow+$ OFF $\leftarrow\rightarrow$ ON*2 $-\leftarrow\rightarrow+$ *2 $-\leftarrow\rightarrow+$ *2 Sub menu 2 DISPLAY OSM OSM ADJ. OSM ANGLE OSM ORBITER RGB $\leftarrow\rightarrow$ COMP. RGB $\leftarrow\rightarrow$ SCART AUTO/STILL/MC 1080B/10351/10	STADIUM/ZOOM/2. Sub menu 3 OFF \longleftrightarrow ON $1 \longleftrightarrow \longleftrightarrow$ OFF \longleftrightarrow ON \longleftrightarrow SCART1 \longleftrightarrow S T3 OTION/WIDE1/WIDE	Sub menu 4 SCART2	RESET YES YES YES YES NO YES	E-23 E-23 E-23 E-23 E-23 E-23 E-23 E-24 E-24 E-24 E-24 E-24 E-25 E-25 E-25 E-25
IMAGE ADJUST	ASPECT MODE V-POSITION H-POSITION V-HEIGHT H-WIDTH AUTO PICTURE FINE PICTURE*1 PICTURE ADJ.*1 Sub menu OSM BNC INPUT D-SUB INPUT RGB SELECT	NORMAL/FULL/ $-\leftarrow \rightarrow +$ $-\leftarrow \rightarrow +$ $-\leftarrow \rightarrow +$ $-\leftarrow \rightarrow +$ OFF $\leftarrow \rightarrow$ ON*2 $-\leftarrow \rightarrow +$ *2 $-\leftarrow \rightarrow +$ *2 Sub menu 2 DISPLAY OSM OSM ADJ. OSM ANGLE OSM ORBITER RGB $\leftarrow \rightarrow$ COMP. RGB $\leftarrow \rightarrow$ SCART AUTO/STILL/MO	STADIUM/ZOOM/2. Sub menu 3 OFF \longleftrightarrow ON $1 \longleftrightarrow \longleftrightarrow$ OFF \longleftrightarrow ON \longleftrightarrow SCART1 \longleftrightarrow S T3 OTION/WIDE1/WIDE	Sub menu 4 SCART2	RESET YES YES YES YES NO YES	E-23 E-23 E-23 E-23 E-23 E-23 E-23 E-24 E-24 E-24 E-24 E-24 E-24 E-25 E-25 E-25

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
OPTION2	PWR. MGT.	OFF←→ON			YES	E-28
	CINEMA MODE	OFF←→ON			YES	E-28
	LONG LIFE	PLE	AUTO/LOCK 1/LO	CK 2/LOCK 3	YES	E-29
		ORBITER	AUTO 1		YES	E-29
			AUTO 2		YES	E-29
			MANUAL	H-DOT/V-LINE/TIME	YES	E-29
			OFF		YES	E-29
		INVERSE	OFF		YES	E-30
			ON	WORKING TIME/WAITING TIME	YES	E-30
			WHITE	World Time, William Time	YES	E-30
		SCREEN WIPER	OFF		YES	E-31
		OUNCEIN WII EIT	ON	WORKING TIME/WAITING TIME/SPEED	YES	E-31
		SOFT FOCUS	OFF/1/2/3/4	WORKING TIME/WAITING TIME/SPEED	YES	E-32
	CDAV LEVEL				YES	E-32
	GRAY LEVEL	0←⋯→3←⋯→	•15			
	S1/S2	AUTO←→OFF			YES	E-33
	PICTURE SIZE*3	OFF←→ON			YES	E-33
Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
OPTION3	TIMER	PRESENT TIME	SUMMER TIME	OFF←→ON	NO	E-34
			DAY/HOUR/MINU	TES	NO	E-34
		PROGRAM	OFF		YES	E-34
			ON	DATE/ON/OFF(HOUR, MINUTE)/INPUT/FUNCTION	YES	E-34
	PWR. ON MODE	LAST / VIDEO 1-3	3 / HD/DVD 1-2 / RG	,	YES	E-35
	CONTROL LOCK	OFF←→ON	7/11D/D VD 1 2/110	D 1 0	YES	E-36
					YES	
	IR REMOTE	OFF←→ON			YES	E-36
	LOOP OUT	OFF←→ON	050			E-37
	ID NUMBER	ALL←→1←···→			YES	E-37
	VIDEO WALL	DIVIDER	OFF/1/4/9		YES	E-38
		POSITION		No.7←···→No.15	_	E-38
		DISP. MODE	SPLIT←→BLANK	(YES	E-39
		AUTO ID	$OFF \leftarrow \rightarrow ON$		YES	E-39
		IMAGE ADJUST	ASPECT MODE	NORMAL/FULL/STADIUM/ZOOM/2.35:1/14:9	_	E-39
			V-POSITION	$- \longleftrightarrow +$	YES	E-39
			H-POSITION	$- \longleftrightarrow +$	YES	E-39
			V-HEIGHT	$- \longleftrightarrow +$	YES	E-39
			H-WIDTH	$-\leftarrow\rightarrow+$	YES	E-39
			AUTO PICTURE	OFF←→0N* ²	NO	E-39
			FINE PICTURE*1	- ← → + *2	YES	E-39
			PICTURE ADJ.*1	- ←→ + *2	YES	E-39
		P. ON DELAY	OFF←→ON	V / I	YES	E-40
		PLE LINK	OFF←→ON		YES	E-40
					YES	E-41
		REPEAT TIMER	OFF ON	DIVIDER/SOURCE/WORK TIME	YES	E-41
Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
ADVANCED OSM					YES	E-41
LANGUAGE		I/FRANÇAIS/ESPAÑOI			NO	E-41
001.00.00/07514	ALITO/2 FONTCC/A	43 NTSC/PAL/PAL 60/	DAL MI/DAL MI/CEC/	VV	NO	E-42
COLOR SYSTEM	AUTU/3.36NT30/4.4	43 N130/PAL/PAL 00/	FAL-IN/FAL-IVI/SLU	1IVI	NO	L 72

^{*1} Only when AUTO PICTURE is OFF *2 RGB/PC only

^{*3} Cannot be set in some models.

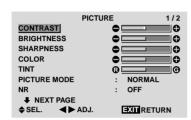
Picture Settings Menu

Adjusting the picture

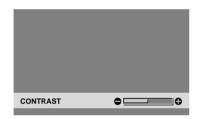
The contrast, brightness, sharpness, color and tint can be adjusted as desired.

Example: Adjusting the contrast

- On the MAIN MENU, select "PICTURE", then press the MENU/ENTER button. The "PICTURE" screen appears.
- 2. Use the \triangle and ∇ buttons to select "CONTRAST".



3. Use the \triangleleft and \triangleright 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.

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

 $\label{lem:contract} \textbf{CONTRAST} \ \ Changes \ the \ picture's \ white \ level.$

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

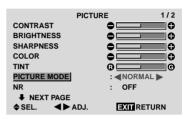
Select "DEFAULT" under the "PICTURE MODE" settings.

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

- 1. On the MAIN MENU, 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 each time the ◀ or ▶ button is pressed:

ightarrow Bright \leftrightarrow Normal \leftrightarrow Theat. 1 \leftrightarrow Theat. 2 \leftrightarrow Default \leftarrow



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

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.

BRIGHT This mode provides brighter pictures than NORMAL.

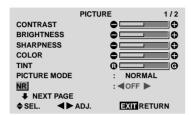
DEFAULT....... Use this to reset the picture to the factory default settings.

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.

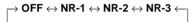
Example: Setting "NR-3"

- 1. On the MAIN MENU, select "PICTURE", then press the MENU/ENTER button.
 The "PICTURE" screen appears.
- 2. Use the \triangle and ∇ buttons to select "NR".



3. Use the ◀ and ▶ buttons to select "NR-3".

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





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

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 \rightarrow NR-2 \rightarrow NR-3).

OFFTurns the noise reduction function off.

Setting the color temperature

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

Example: Setting "HIGH"

- On the MAIN MENU, select "PICTURE", then press the MENU/ENTER button. The "PICTURE" screen appears.
- 2. Use the ▲ and ▼ buttons to select "COLOR TEMP.".
- Use the

 and

 buttons to select "HIGH".

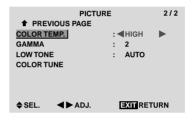
 The mode switches as follows each time the

 or

 button is pressed:

$$\hspace{1cm} \longmapsto \mathsf{LOW} \leftrightarrow \mathsf{MID} \; \mathsf{LOW} \leftrightarrow \mathsf{MID} \leftrightarrow \mathsf{HIGH} \leftarrow \hspace{1cm}$$

* 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.

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

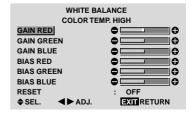
Use this procedure to adjust the white balance for each color temperature to achieve the desired color quality.

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.

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 \triangleleft and \triangleright buttons.



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

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.

- On the MAIN MENU, select "PICTURE", then press the MENU/ENTER button.
 The "PICTURE" screen appears.
- 2. Use the ▲ and ▼ buttons to select "GAMMA".
- Use the

 and

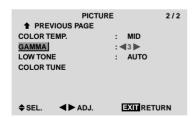
 buttons to select "3".

 The mode switches as follows each time the

 or

 button is pressed:

$$ightarrow$$
 1 \leftrightarrow 2 \leftrightarrow 3 \leftrightarrow 4 \leftarrow



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

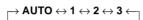
This feature allows more detailed tone to be reproduced especially in the dark area.

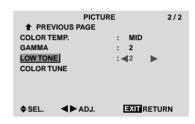
Example: Setting "2"

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

- 1. On the MAIN MENU, 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:





Information

■ LOW TONE settings

AUTO Will automatically appraise the picture and make adjustments.

- 1Will apply the dither method suitable for still pictures.
- 2Will apply the dither method suitable for motion pictures.
- 3Will 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.

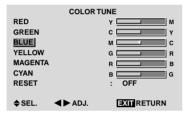
Such adjustments will not affect the other colors.

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.

- 1. On the MAIN MENU, select "PICTURE", then press the MENU/ENTER button.
 The "PICTURE" screen appears.
- Use the ▲ and ▼ buttons to select "COLOR TUNE", then press the MENU/ENTER button. The "COLOR TUNE" screen appears.
- 3. Use the \triangle 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.

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

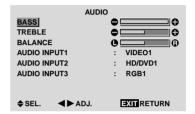
The treble, bass and left/right balance can be adjusted to suit your tastes.

Example: Adjusting the bass

- On the MAIN MENU, select "AUDIO", then press the MENU/ENTER button. The "AUDIO" screen appears.
- 2. To adjust the bass ...

Use the \triangle and ∇ buttons to select "BASS".

3. Adjust the bass using the \triangleleft and \triangleright buttons.



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

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

Information

■ Audio settings menu

BASSControls 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.

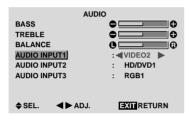
Example: Setting "AUDIO INPUT1" to "VIDEO 2"

- 1. On the MAIN MENU, 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 \triangleleft or \triangleright 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".



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

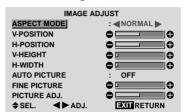
The position of the image can be adjusted and flickering of the image can be corrected.

Example: Adjusting the vertical position in the normal mode

1. On the MAIN MENU, 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 ...

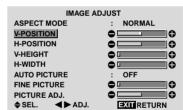
Use the \triangleleft and \triangleright buttons to select a mode.

The mode switches as follows each time the \triangleleft or \triangleright button is pressed:

$\textbf{NORMAL} \leftrightarrow \textbf{FULL}$

- * The mode can also be switched by pressing the "WIDE" button on the remote control.
- 2. To adjust the vertical position ...

Use the \triangle and ∇ buttons to select "V-POSITION".



3. Adjust using the ◀ and ▶ buttons.



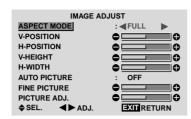
* If neither the ◀or ▶ button is pressed within 5 seconds, the current setting is set and the previous screen reappears.

To continue making other computer image adjustments ...

Repeat from step 2.

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.

Option 1 Settings Menu

Setting the on-screen menu

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

Example: Turning the DISPLAY OSM off

1. On the MAIN MENU, 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 \triangleleft or \triangleright button is pressed:

 $\textbf{ON} \leftrightarrow \textbf{OFF}$



Information

■ DISPLAY OSM settings

ONThe on-screen menu appears.

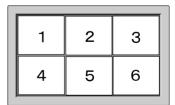
OFF The on-screen menu does not appear.

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"). When the unit is installed vertically set the OSM ANGLE at "V".

"H"



"V"



■ OSM ORBITER settings

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

OFF OSM will be displayed at the same position.

■ 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."

- On the MAIN MENU, 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

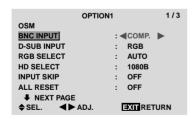
 and

 buttons to select "COMP.".
 The mode switches as follows each time the

 or

 button is pressed:

ightarrowRGB \leftrightarrow COMP. \leftrightarrow SCART1 \leftrightarrow SCART2 \leftarrow



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.

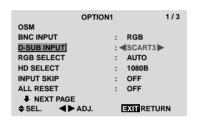
Example: Set the D-SUB INPUT mode to "SCART3"

- On the MAIN MENU, 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:

 $RGB \leftrightarrow SCART3$



Information

■ D-SUB INPUT Settings

RGB Use the D-SUB terminal for RGB input.

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

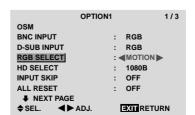
Example: Setting the "RGB SELECT" mode to "MOTION"

- On the MAIN MENU, 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:

ightarrow AUTO \leftrightarrow STILL \leftrightarrow MOTION \leftrightarrow WIDE1 \leftrightarrow WIDE2 \leftrightarrow DTV \leftarrow



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-3 of Model Information.

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.)

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-3 of Model Information 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"

- 1. On the MAIN MENU, 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 "10351" ...

 Use the ◀ and ▶ buttons to select "1035I".

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



OPTIO	DN1 1/3
OSM	
BNC INPUT	: RGB
D-SUB INPUT	: RGB
RGB SELECT	: AUTO
HD SELECT	: ◀1035 I ▶
INPUT SKIP	: OFF
ALL RESET	: OFF
■ NEXT PAGE	
♦SEL. ♦ DJ.	EXIT RETURN

Information

■ HD SELECT modes

These 3 modes are not displayed in correct image automatically.

1080B	Standard digital broadcasts
1035I	Japanese "High Vision" signal format
1080A	Special Digital broadcasts (for
	example : DTC100)

Setting the Input Skip

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

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

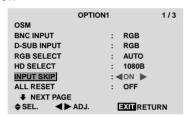
Example: Set to "ON"

- On the MAIN MENU, 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:

 $\mathsf{OFF} \leftrightarrow \mathsf{ON}$



Information

■ INPUT SKIP settings

OFFRegardless 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

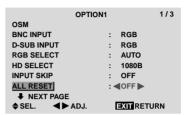
Select "ALL RESET" under the OPTION1 menu. Note that this also restores other settings to the factory defaults.

Resetting to the default values

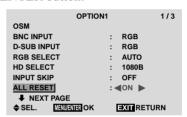
Use these operations to restore all the settings (PICTURE, AUDIO, IMAGE ADJUST, OPTION1~3, etc) to the factory default values.

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

- 1. On the MAIN MENU, 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.

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

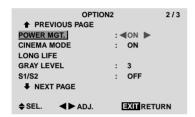
Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

- 1. On the MAIN MENU, select "OPTION2", then press the MENU/ENTER button.
 - The "OPTION2" screen appears.
- 2. Use the ▲ and ▼ buttons to select "PWR. MGT.".
- $3. \ \textit{To turn the power management function on } \dots$

Use the \triangleleft and \triangleright buttons to select "ON".

The mode switches as follows each time the \triangleleft or \triangleright button is pressed:

 $ON \leftrightarrow OFF$



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"

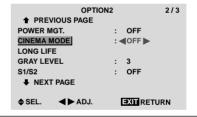
Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

- On the MAIN MENU, select "OPTION2", then press the MENU/ENTER button. The "OPTION2" screen appears.
- 2. Use the \triangle 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:

 $ON \leftrightarrow OFF$



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.

- 1. On the MAIN MENU, 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.

See page E-32 to set SOFT FOCUS.

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 \triangle 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:

$$ightarrow$$
AUTO \leftrightarrow LOCK1 \leftrightarrow LOCK2 \leftrightarrow LOCK3 \leftarrow



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 \triangle 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:

ightarrowOFF \leftrightarrow AUTO1 \leftrightarrow AUTO2 \leftrightarrow MANUAL \leftarrow

	LONG	LIFE	
PLE		: AUTO	
ORBITER		: ∢ AUTO1 ▶	
INVERSE		: OFF	
SCREEN	WIPER	: OFF	
SOFT FO	cus	: OFF	
4 051	45 454	-W- DETUDN	
♦ SEL.	⋖ ▶ADJ.	EXIT RETURN	

Information

■ ORBITER settings

OFFOrbiter mode does not function.

This is the default setting when RGB is input.

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

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

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

See the following explanation.

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

Adjust the ORBITER function manually

Set the amount of shift and the time between movement. Example: Setting so that the picture moves 2 dots horizontally and 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.

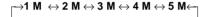
 THE "ORBITER" screen appears.
- Adjust the items using the ▲▼◀ and ▶ buttons.
 The mode switches as follows each time the ◀ or ▶ button is pressed:
 - H-DOT

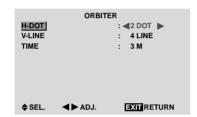
```
ightarrow1 DOT \leftrightarrow 2 DOT \leftrightarrow ..... \leftrightarrow 19 DOT \leftrightarrow 20 DOT \leftarrow
```

• V-LINE

$$\longrightarrow \hspace{-0.1cm} \textbf{1 LINE} \, \leftrightarrow \textbf{2 LINE} \leftrightarrow \leftrightarrow \textbf{19 LINE} \leftrightarrow \textbf{20 LINE} \leftarrow$$

• TIME





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.

TIMEInterval of 1~5 minutes (1 horizontal dot or 1 vertical line per interval).

INVERSE

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

Example: Setting "INVERSE" to "WHITE"

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

- 3. Use the \triangle 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:

 \rightarrow OFF \leftrightarrow ON \leftrightarrow WHITE \leftarrow



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.

- Adjust the time using the ▲▼◀ and ▶ buttons.
 The mode switches as follows each time the ◀ or ▶ button is pressed:
 - WORKING TIME

```
{\longrightarrow} \text{ON} \ \leftrightarrow \text{00H03M} \ \leftrightarrow \text{00H06M} \ \leftrightarrow ..... \ \leftrightarrow \text{12H42M} \ \leftrightarrow \text{12H45M} \leftarrow
```

WAITING TIME

ightarrow00H03M \leftrightarrow 00H06M \leftrightarrow 00H09M \leftrightarrow ... \leftrightarrow 12H42M \leftrightarrow 12H45M \leftarrow



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:

 $\text{OFF} \ \leftrightarrow \text{ON}$



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...

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 \triangleleft or \triangleright button is pressed:

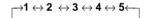
• WORKING TIME

$$\hspace{1.5cm} \hspace{0.5cm} \longrightarrow \hspace{0.5cm} \text{ON} \hspace{0.2cm} \leftrightarrow \text{00H03M} \hspace{0.2cm} \leftrightarrow \text{00H06M} \hspace{0.2cm} \leftrightarrow \text{12H42M} \hspace{0.2cm} \leftrightarrow \text{12H45M} \leftarrow \hspace{0.5cm}$$

WAITING TIME

$$ightarrow$$
00H03M \leftrightarrow 00H06M \leftrightarrow 00H09M \leftrightarrow ... \leftrightarrow 12H42M \leftrightarrow 12H45M \leftarrow

SPEED





Information

■ Setting the time

WORKING TIME Set the time duration for "SCREEN

WIPER".

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

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

SPEED Set the moving speed for the "SCREEN WIPER". The speed

decreases as the number increases.

- * The "WAITING TIME" can not be set when the "WORKING TIME" is ON.
- * THE "WORKING TIME" and "WAITING TIME" can be set for up to 12 hours and 45 minutes in units of 3 minutes.

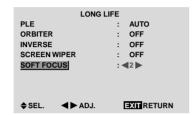
SOFT FOCUS

Reduces edges and softens the image.

Example: Setting "SOFT FOCUS" to "2"

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

- 3. Use the ▲ and ▼ buttons to select "SOFT FOCUS".
- 4. Use the ◀ and ▶ buttons to select "2".The mode switches as follows each time the ◀ or ▶ button is pressed:



Information

■ SOFT FOCUS settings

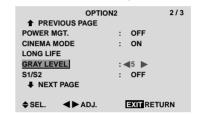
Setting the gray level for the sides of the screen

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.

- On the MAIN MENU, select "OPTION2", then press the MENU/ENTER button. The "OPTION2" screen appears.
- 2. Use the \triangle and ∇ buttons to select "GRAY LEVEL".
- 3. *To adjust the "GRAY LEVEL"*... Use the ◀ and ▶ buttons to adjust the GRAY LEVEL.



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

Setting the screen size for \$1/\$2 video input

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

This feature is available only when an S-video signal is input via the VIDEO3 terminal.

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

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

- On the MAIN MENU, select "OPTION2", then press the MENU/ENTER button. The "OPTION2" screen appears.
- 2. Use the \triangle and ∇ buttons to select "S1/S2".
- Use the

 and

 buttons to select "AUTO".

 The mode switches as follows each time the

 or

 button is pressed:

 $\textbf{OFF} \leftrightarrow \textbf{AUTO}$



Information

■ S1/S2 settings

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

OFF Turns the S1/S2 function off.

■ 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". * Cannot be set in some models.

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

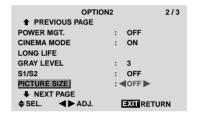
Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

1. On the MAIN MENU, select "OPTION2", then press the MENU/ENTER button.

The "OPTION2" screen appears.

- 2. Use the \triangle 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 each time the ◀ or ▶ button is pressed:

 $\textbf{ON} \leftrightarrow \textbf{OFF}$



Information

■ Restoring the factory default settings

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.

1. On the MAIN MENU, 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-34 to set PRESENT TIME. See page E-34 to set PROGRAM.

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 \triangleleft or \triangleright button is pressed:

• SUMMER TIME

 $\textbf{ON} \, \leftrightarrow \textbf{OFF}$

• Day

$${\longrightarrow} {\sf SUNDAY} \, \leftrightarrow {\sf MONDAY} \leftrightarrow \leftrightarrow {\sf FRIDAY} \leftrightarrow {\sf SATURDAY} \leftarrow$$

· Hour/Minutes

```
\longrightarrow 00:00 \ \leftrightarrow 00:01 \ \leftrightarrow 00:02 \leftrightarrow ..... \leftrightarrow 23:58 \leftrightarrow 23:59 \leftarrow
```

5. Once the setting is completed...

Use the \triangle 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

* 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.

	P	ROGRAM	TIMER	
DATE	ON	OFF	INPUT	FUNCTION
MON	08:30	10:30	RGB2	INVERSE
_	:	:	_	_
_	:	:	_	_
_	:	:	_	_
_	:	:	_	_
_	:	:	_	_
_	:	:	_	_
♦ ♦ S	EL. Z00	M ADJ.	EXIT	RETURN

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

• Date

$$\begin{picture}(20,10) \put(0,0){\rightarrow} \put(0,0$$

• ON/OFF Hour

$$\rightarrow 00 \leftrightarrow 01 \leftrightarrow 02 \leftrightarrow \leftrightarrow 21 \leftrightarrow 22 \leftrightarrow 23 \leftarrow$$

Minute

$$ightarrow$$
 00 \leftrightarrow 01 \leftrightarrow 02 \leftrightarrow \leftrightarrow 57 \leftrightarrow 58 \leftrightarrow 59 \leftarrow

• INPUT

$$\rightarrow \leftarrow \mathsf{LAST} \, \leftrightarrow \mathsf{VIDEO1} \, \leftrightarrow \mathsf{VIDEO2} \leftrightarrow \mathsf{VIDEO3} \leftrightarrow \mathsf{HD/DVD1} \leftarrow \\ \rightarrow \mathsf{RGB3} \, \leftrightarrow \mathsf{RGB2} \, \leftrightarrow \mathsf{RGB1} \leftrightarrow \mathsf{HD/DVD2} \leftarrow$$

FUNCTION

$$ightharpoonup$$
 — \leftrightarrow Orbiter \leftrightarrow Inverse \leftrightarrow White \leftrightarrow Wiper \leftarrow

Information

■ PROGRAM TIMER settings

DATE Set th	ne day of the week (e.g.
Sunda	ay).
ON (hour, minutes) Set th	e time at which the power
will b	e turned on in the 24-hour
forma	ıt.
OFF (hour, minutes) Set th	e time at which the power
will b	e turned off in the 24-hour
forma	ıt.

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

	P	ROGRAN	ITIMER	
DATE	ON	OFF	INPUT	FUNCTION
MON	08:30	10:30	RGB2	INVERSE
TUE	:	18:15	_	_
SAT	08:30	12:15	VIDEO1	WHITE
*FRI	08:30	10:00	HD/DVD1	_
_	:	:	_	_
SAT	08:30	12:15	VIDEO1	WHITE
*	15:30	16:00	RGB1	_
♦ ♦ SE	L. Z00	M ADJ.	EXIT	RETURN

• 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.

- 1. On the MAIN MENU, select "OPTION3", then press the MENU/ENTER button.

 The "OPTION2" sensor appears
 - 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".

OPTIO	N3 3/3
♠ PREVIOUS PAGE	
TIMER	
PWR. ON MODE	: ◀VIDEO2 ▶
CONTROL LOCK	: OFF
IR REMOTE	: ON
LOOP OUT	: OFF
ID NUMBER	: ALL
VIDEO WALL	
♦ SEL. ◀▶ ADJ.	EXIT RETURN

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, 3DVD input mode.

■ Restoring the factory default settings

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.

1. On the MAIN MENU, select "OPTION3", then press the MENU/ENTER button.

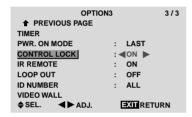
The "OPTION3" screen appears.

- 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:

 $OFF \leftrightarrow ON$



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.

1. On the MAIN MENU, select "OPTION3", then press the MENU/ENTER button.

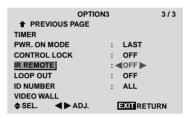
The "OPTION3" screen appears.

- 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 \triangleleft or \triangleright button is pressed:

 $\text{OFF} \ \leftrightarrow \ \ \text{ON}$



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

Loop Out setting

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

Example: Setting "ON"

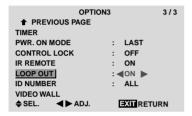
Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

- On the MAIN MENU, 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 \triangleleft or \triangleright button is pressed:

 $OFF \leftrightarrow ON$



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.

1. On the MAIN MENU, 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 \triangleleft or \triangleright button is pressed:

$$\begin{picture}(20,0) \put(0,0){\rightarrow} \put(0,0)$$



* To reset back to ALL
Press the CLEAR button

Information

■ ID NUMBER settings

ALLID NUMBER will not be set. 1 to 256ID 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

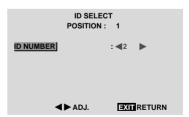
Example: Setting "2"

- 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 \triangleleft or \triangleright button is pressed:

$$\rightarrow$$
ALL \leftrightarrow 1 \leftrightarrow 2 \leftrightarrow \leftrightarrow 255 \leftrightarrow 256 \leftarrow



* 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.

1. On the MAIN MENU, 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.

VIDEO	WALL			
DIVIDER	:∢1 ▶			
POSITION				
DISP. MODE	: SPLIT			
AUTO ID	: OFF			
IMAGE ADJUST				
P. ON DELAY	: OFF			
PLE LINK	: OFF			
REPEATTIMER	: OFF			
♦SEL. ◀▶ADJ.	EXIT RETURN			

3. Set the VIDEO WALL using $\blacktriangle \blacktriangledown \blacktriangleleft$ and \blacktriangleright buttons.

See page E-38 to set DIVIDER.

See page E-38 to set POSITION.

See page E-39 to set DISP. MODE.

See page E-39 to set AUTO ID.

See page E-39 to set IMAGE ADJUST.

See page E-40 to set P. ON DELAY.

See page E-40 to set PLE LINK.

See page E-41 to set REPEAT TIMER.

4. Once the setting is completed...

Press the EXIT button to return to the OPTION3 menu.

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 \triangle and ∇ buttons to select "DIVIDER".

4. Use the ◀ and ▶ buttons to select "4".

The mode switches as follows each time the \triangleleft or \triangleright button is pressed:

 \rightarrow OFF \leftrightarrow 1 \leftrightarrow 4 \leftrightarrow 9 \leftarrow



Information

■ DIVIDER settings

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

44 Screens (2×2 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".

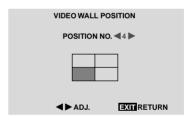
The mode switches as follows each time the ◀ or ▶ button is pressed:

• 4 Screens

$$ightharpoonup$$
 NO. 1 \leftrightarrow NO. 2 \leftrightarrow NO. 3 \leftrightarrow NO. 4 \longleftarrow

• 9 Screens

$$ightarrow$$
 NO. 7 \leftrightarrow NO. 8 \leftrightarrow \leftrightarrow NO. 14 \leftrightarrow NO. 15 \leftarrow



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

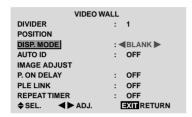
Select the screen mode from between two options (Splitting, Blanking).

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:

 $SPLIT \leftrightarrow BLANK$



Information

■ DISP. MODE settings

SPLITCombines 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"

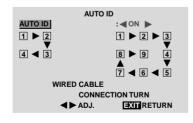
Set the ID number for the No. 1 display on ID NUMBER menu.

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 \triangleleft or \triangleright button is pressed:

 $OFF \leftrightarrow ON$



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.

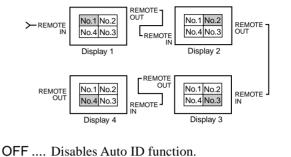


IMAGE ADJUST

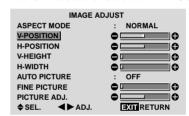
The position of the image can be adjusted and flickering of the image can be corrected.

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 \triangleleft and \triangleright buttons.



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

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".
- Use the

 and

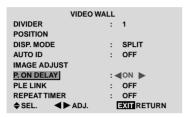
 buttons to select "ON".

 The mode switches as follows each time the

 or

 button is pressed:

 $OFF \leftrightarrow ON$



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 and set the DIVIDER (at 1, 4 or 9) before the following operations.

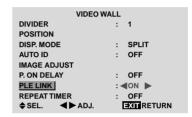
Example: Setting "ON"

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:

 $\text{OFF} \leftrightarrow \text{ON}$



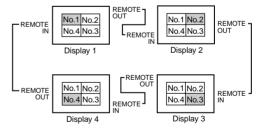
Information

■ PLE LINK settings

ON Sets a uniform brightness for each screen in a video wall.

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

- * When this function is set "ON", connect your plasma displays with the remote cable (optional) in the order of the position numbers for the 2×2 video wall. See the drawing below.
- * If there are changes in the DIVIDER or POSITION, the PLE LINK will automatically turn OFF.



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

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

REPEAT TIMER

Use this to set two timers. Each timer can use the DIVIDER, SOURCE and WORK TIME.

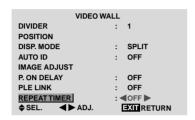
Turn on the AUTO ID and set the DIVIDER (at 1, 4 or 9) before the following operations.

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 \triangle 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 $\triangle \nabla \triangleleft$ and \triangleright buttons.

The mode switches as follows each time the \triangleleft or \triangleright button is pressed:



• DIVIDER

$$\rightarrow$$
 1 \leftrightarrow 4 \leftrightarrow 9 \leftarrow

• SOURCE

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

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

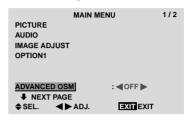
Setting the menu mode

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"

1. On the MAIN MENU, select "ADVANCED OSM".

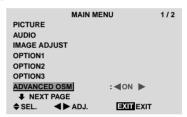


2. To set the ADVANCED OSM to "ON"...

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

The mode switches as follows each time the \triangleleft or \triangleright button is pressed:

 $OFF \leftrightarrow ON$



Information

■ ADVANCED OSM settings

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

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

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"

- On the MAIN MENU, 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 each time the ◀ or ▶ button is pressed:



Color System Settings MenuSetting the video signal format

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

Example: Setting the color system to "3.58 NTSC"

- On the MAIN MENU, select "COLOR SYSTEM", then press the MENU/ENTER button. The "COLOR SYSTEM" screen appears.
- 2. To select " 3.58NTSC " ...
 Use the ◀ and ▶ buttons to select " 3.58NTSC ".
 The mode switches as follows each time the ◀ or ▶ button is pressed:





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-MThis is the standard format used mainly in Brazil.

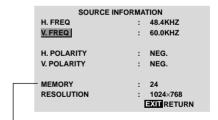
PAL-N.....This is the standard format used mainly in Argentina.

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.

- 1. On the SCREEN MENU, 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.

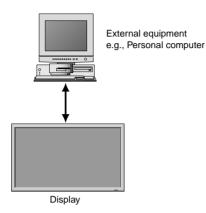
External Control

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 Asynchrono	us
(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 Power ON OFF		CODE 9FH 9FH	DATA 80H 80H	60H 60H	4EH 4FH	00H 00H	CDH CEH			
Input Switch	Video1 (BNC) Video2 (RCA) Video3 (S-Video) DVD1/HD1 (RCA) DVD2/HD2 (BNC) RGB1 (mini D-Sub 15-Pin) RGB2 (5BNC) RGB3 (DVI)	DFH DFH DFH DFH DFH DFH DFH DFH	80H 80H 80H 80H 80H 80H 80H	60H 60H 60H 60H 60H 60H 60H	47H 47H 47H 47H 47H 47H 47H 47H	01H 01H 01H 01H 01H 01H 01H 01H	01H 02H 03H 05H 06H 07H 08H 0CH	08H 09H 0AH 0CH 0DH 0EH 0FH 13H		
Audio Mute	ON OFF	9FH 9FH	80H 80H	60H 60H	3EH 3FH	00H 00H	BDH BEH			
Picture Mode	NORMAL THEAT. 1 THEAT. 2 DEFAULT	DFH DFH DFH DFH	80H 80H 80H 80H	60H 60H 60H 60H	OAH OAH OAH OAH	01H 01H 01H 01H	01H 02H 03H 04H	CBH CCH CDH CEH		
Screen Mode	STADIUM ZOOM NORMAL FULL 14:9 2.35:1	DFH DFH DFH DFH DFH DFH	80H 80H 80H 80H 80H 80H	60H 60H 60H 60H 60H 60H	51H 51H 51H 51H 51H 51H	01H 01H 01H 01H 01H 01H	02H 03H 04H 05H 09H 0AH	13H 14H 15H 16H 1AH 1BH		
Auto Picture	ON OFF	DFH DFH	80H 80H	60H 60H	7FH 7FH	03H 03H	03H 03H	09H 09H	00H 01H	4DH 4EH
Cinema Mode	ON OFF	DFH DFH	80H 80H	60H 60H	C1H C1H	01H 01H	01H 02H	82H 83H		

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

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 use					
The unit emits a crackling sound.	Are the image and sound normal?	If there are no abnormalities in the image and sound, the noise is caused by the cabinet reacting to changes in humidity. This will not affect performance.				
Picture is disturbed. Sound is noisy. Remote control operates erroneously.	Is a connected component set directly in front or at the side of the display?	Leave some space between the display and the connected components.				
The remote control does not work.	Are the remote control's batteries worn out?	Replace both batteries with new ones.				
	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 presented	Is the monitor's power cord plugged into a power outlet?	Plug the monitor's power cord into a power outlet.				
button is pressed.	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	Is the volume set at the minimum?	Increase the volume.				
produced.	• 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? Is the power management function in the	Connect source to the monitor. Operate the computer (move the mouse,				
	standby or off mode? • Is LOOP OUT set to ON?	etc.). • Set LOOP OUT OFF.				
Part of picture is cut off or picture is	• Is the position adjustment appropriate?	Adjust the IMAGE ADJUST properly.				
not centered. Image is too large or too small.	Is the screen size adjustment	Press the WIDE button on the remote				
Picture is unstable.	appropriate?Is the computer's resolution setting	control and adjust properly. • Set to the proper resolution.				
POWER/STANDBY indicator is lighted in red.	appropriate? 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.				
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*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 Marantz 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.

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