Pioneer sound.vision.soul

Plasma Display
Écran à plasma
プラズマディスプレイ
PDP-614MX

Contents related to system specifications, power requirements, accessories, and other information differ with respect to the country where this unit is purchased. For customers living in the U.S.A. or Canada, please use and refer to the instructions written in either English or French. For customers in Japan, please use and refer to the instructions written in Japanese.

Les caractéristiques, les spécifications d'alimentation, les accessoires et d'autres informations diffèrent d'un pays à l'autre. Si vous vivez au Canada ou aux États-Unis, reportez-vous aux instructions en français ou en anglais. Si vous vivez au Japon, reportez-vous aux instructions en japonais.

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Operating Instructions
Mode d'emploi
取扱説明書

「据付工事」について

- 本機は十分な技術・技能を有する専門業者が据付けを行うことを前提に販売されているものです。据付け・取付けは必ず工事専門業者または販売店にご依頼ください。
- なお、据付け・取付けの不備、誤使用、改造、天災などによる事故損傷については、弊社は一切責任を負いません。

K042_Ja

販売店様へ

この取扱説明書は据え付け終了後お客様に必ずお渡しして、取り扱い方法の説明を行ってください。

JIS C 61000-3-2適合品 D50-5-10-1_Ja

この取扱説明書は再生紙を使用しています。

パイオニア株式会社 〒153-8654 東京都目黒区目黒1丁目4番1号
PIONEER CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS (USA) INC. P. O. BOX 1540, Long Beach, California 90801-1540, U.S.A. TEL: 1-310-952-2111
PIONEER ELECTRONICS OF CANADA INC. 300 Allstate Parkway, Markham, Ontario L3R OP2, Canada TEL: 1-905-479-4411

Printed in Japan/ Imprimé au Japon <7S801711>

Operating Instructions

Thank you very much for purchasing this PIONEER product. Before using your Plasma Display, please carefully read the “Important Information” and these “Operating Instructions” so you will know how to operate the Plasma Display properly. Keep this manual in a safe place. You will find it useful in the future.

Notes on Installation Work:

This product is marketed assuming that it is installed by qualified personnel with enough skill and competence. Always have an installation specialist or your dealer install and set up the product. PIONEER cannot assume liabilities for damage caused by mistake in installation or mouting, misuse, modification or a natural disaster.

Note for Dealers:

After installation, be sure to deliver this manual to the customer and explain to the customer how to handle the product.

Important Information

Precautions

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

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

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

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

WARNING

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

Warning

Not for use in a computer room as defined in the Standard for the Protection of Electronic Computer/ Data Processing Equipment ANSI/NFPA 75.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

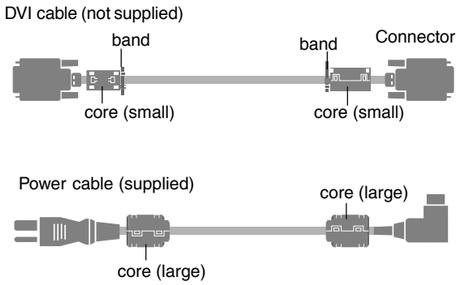
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

Warnings and Safety Precaution

This plasma monitor is designed and manufactured to provide long, trouble-free service. No maintenance other than cleaning is required. Please see the section "Plasma monitor cleaning procedure" on the next page.
The plasma display panel consists of fine picture elements (cells) with more than 99.99 percent active cells. There may be some cells that do not produce light or remain lit.
For operating safety and to avoid damage to the unit, read carefully and observe the following instructions.
To avoid shock and fire hazards:

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

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



To avoid damage and prolong operating life:

1. Use only with 100-120V 50/60Hz AC power supply. Continued operation at line voltages greater than 100-120 Volts AC will shorten the life of the unit, and might even cause a fire hazard.
2. Handle the unit carefully when installing it and do not drop.
3. Set the unit away from heat, excessive dust, and direct sunlight.
4. Protect the inside of the unit from liquids and small metal objects. In case of accident, unplug the power cord and have it serviced by an authorized Service Center.
5. Do not hit or scratch the panel surface as this causes flaws on the surface of the screen.
6. For correct installation and mounting it is strongly recommended to use a trained, authorized dealer.
7. As is the case with any phosphor-based display (like a CRT monitor, for example) light output will gradually decrease over the life of a Plasma Display Panel.
8. To avoid sulfurization it is strongly recommended not to place the unit in a dressing room in a public bath or hot spring bath.
9. Do not use in a moving vehicle, as the unit could drop or topple over and cause injuries.
10. Do not place the unit on its side, upside-down or with the screen facing up or down, to avoid combustion or electric shock.

Plasma monitor cleaning procedure:

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

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

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

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

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

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

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

CAUTION:
WHEN POSITIONING THIS EQUIPMENT ENSURE THAT THE MAINS PLUG AND SOCKET IS EASILY ACCESSIBLE.

Information to User
Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

WARNING:
Handling the cord on this product or cords associated with accessories sold with the product will expose you to lead, a chemical known to the State of California and other governmental entities to cause cancer and birth defects or other reproductive harm. **Wash hands after handling.**

IMPORTANT NOTICE

The serial number for this equipment is located on the rear panel. Please write this serial number on your enclosed waranty card and keep in a secure place. This is for your security.

This Class B digital apparatus complies with Canadian ICES-003.

Caution

This model is for use with the following optional accessories. Use with other optional accessories is capable of resulting in instability causing possible injury.

Speakers: PDP-S29-LR
Table top stand: PDK-TS06
Wall mount unit: PDK-WM03

DECLARATION OF CONFORMITY

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions. (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

U.S. Responsible Party:	**PIONEER ELECTRONICS (USA) INC.**
Address:	**P.O. BOX 1760, LONG BEACH, CA., 90801-1760 U.S.A.**
Tel. No.:	**800 (421-1625)**

Type of Product:	Plasma Display
Equipment Classification:	Class B Peripheral
Models:	PDP-614MX

We hereby declare that the equipment specified above conforms to the technical standards as specified in the FCC Rules.

IMPORTANT SAFETY INSTRUCTIONS
Read before operating equipment

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and third grounding prong.The wide blade or third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12.  Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
    A. The power supply cord or the plug has been damaged; or
    B. Objects have fallen, or liquid has been spilled into the appliance; or
    C. The appliance has been exposed to rain; or
    D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
    E. The appliance has been dropped, or the enclosure damaged.
16. **Tilt/Stability** - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinets design.
    - Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product.
    - Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.
17. **Wall Mounting** - The appliance should be mounted to a wall only as recommended by the manufacturer.
18. **Power Lines** - An outdoor antenna should be located away from power lines.
19. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.
    Section 810 of the National Electric Code, ANSI/NFPA No. 70- 1984, provides information with respect to proper grounding of the mats and supporting structure grounding of the lead-in wire to an antenna-discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode.
20. **Objects and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

Apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on apparatus.

WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

Should this product require service in the U.S.A. and you wish to locate the nearest Pioneer Authorized Independent Service Company, or if you wish to purchase replacement parts, operating instructions, service manuals, or accessories, please call the number shown below.

800–421–1625

Please do not ship your product to Pioneer without first calling Pioneer Electronics (USA) Inc. at the above listed number for assistance.

Pioneer Electronics (USA) Inc.
P.O. BOX 1760, Long Beach,
CA 90801-1760, U.S.A.

For warranty information please see the Limited Warranty sheet included with your product.

Should this product require service in Canada, please contact a Pioneer Canadian Authorized Dealer to locate the nearest Pioneer Authorized Service Company in Canada. Alternatively, please contact the Customer Satisfaction Department at the following address:

Pioneer Electronics of Canada, Inc.
Customer Satisfaction Department
300 Allstate Parkway, Markham, Ontario L3R OP2
(905)479-4411
1(877)283-5901

For warranty information please see the Limited Warranty sheet included with your product.

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Contents

Contents of the Package

- ☐ Plasma monitor
- ☐ Power cord
- ☐ Remote control with two AAA Batteries
- ☐ Manual
- ☐ Warranty
- ☐ Safety metal fittings (2pcs)*
- ☐ Ferrite cores (large 2pcs, small 2pcs)
- ☐ Bands (2pcs)
- ☐ Cable clamps (5pcs)
- ☐ Wiping cloth

* 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 2).

Options

- Wall mount unit
- Stand
- Speakers

Installation

You can attach your optional mounts or stand to the plasma monitor in one of the following two ways:
* While it is upright. (See Drawing A)
* As it is laid down with the screen face down (See Drawing B). Lay the protective sheet, which was wrapped around the monitor when it was packaged, beneath the screen surface so as not to scratch the screen face.
* Do not touch or hold the screen face when carrying the unit.

• This device cannot be installed on its own. Be sure to use a stand or original mounting unit. (Wall mount unit, Stand, etc.)
*** See page 1.**

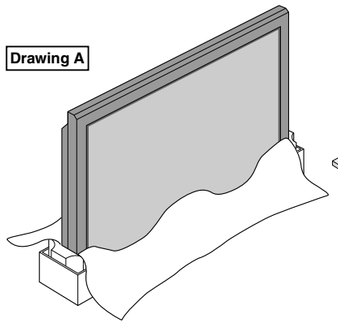
• For correct installation and mounting it is strongly recommended to use a trained, authorized dealer.

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

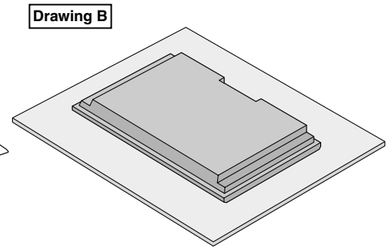
Product warranty does not cover damage caused by improper installation.

*** Use only the mounting kit or stand provided by manufacturer and listed under Options.**

Drawing A



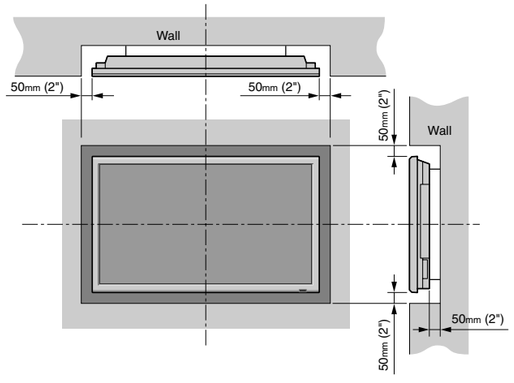
Drawing B



When installing or carrying, use the handles attached to the upper back of the display.

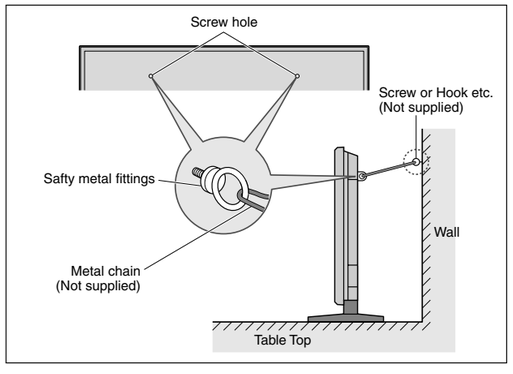
Ventilation Requirements for enclosure mounting

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

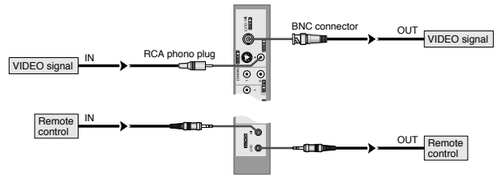
These are fittings for fastening the unit to a wall to prevent tipping due to external shock when using the stand (optional). Fasten the safety fittings to the holes in the back of the monitor using the safety fitting mount screws.



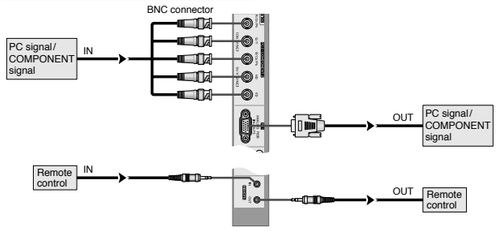
Creating a video wall

With built-in matrix display capability, you can create a 4-25 video wall.
• Connect signal cables and remote cables as shown below.

Video signal



PC/COMPONENT signal



Note:

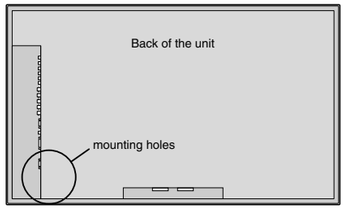
1. The VIDEO1 and PC1 terminals can be used for either INPUT or OUTPUT.
When LOOP OUT is ON, do not connect an OUTPUT signal from another unit, that will place an extraordinary load on the other unit and may damage it.
2. LOOP OUT can not be turned ON while signals are input to the PC1 terminal.
3. LOOP OUT can be turned ON while signals are input to the PC1 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 9-screen and over 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.

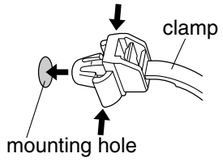
Cable Management

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.

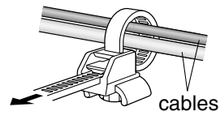


To attach

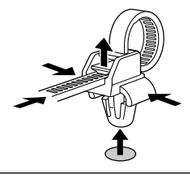
1.



2.



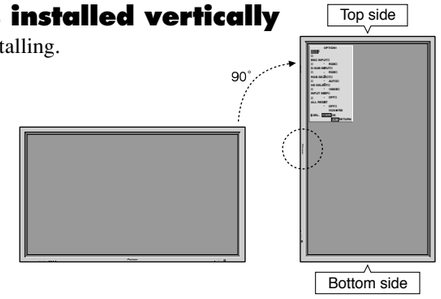
To detach



Caution on when the plasma monitor is installed vertically

- Use the optional unit. Contact your store of purchase when installing.
- Rotate 90° clockwise as seen from the front when installing.
- After installing, check with the PIONEER logo mark as seen from the front.
- Be sure to set “OSD ANGLE” to “V” when using.

* Failure to heed the above cautions may lead to malfunction.

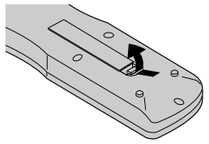


How to use the remote control

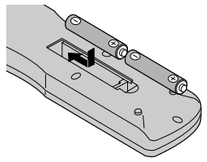
Battery Installation and Replacement

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

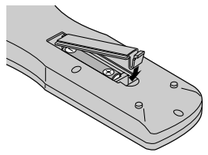
1. Press and open the cover.



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

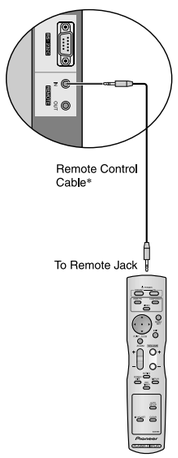


3. Replace the cover.



Using the wired remote control mode

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

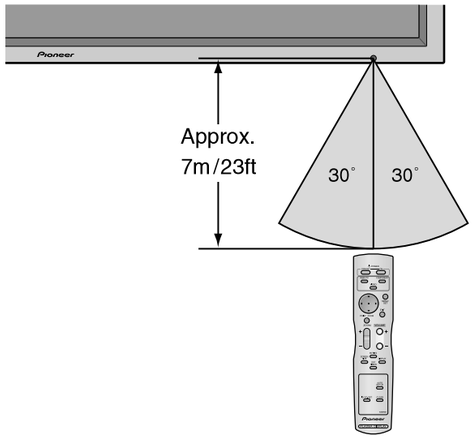


* The 1/8 Stereo Mini cable must be purchased separately.

Operating Range

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

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

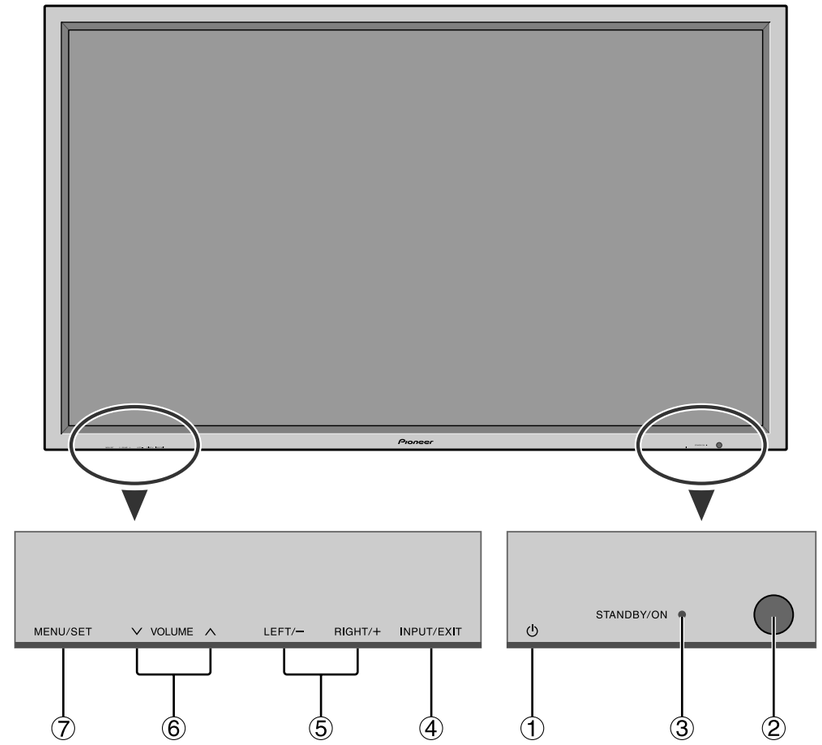


Handling the remote control

- Do not drop or mishandle the remote control.
- Do not get the remote control wet. If the remote control gets wet, wipe it dry immediately.
- Avoid heat and humidity.
- When not using the remote control for a long period, remove the batteries.
- Do not use new and old batteries together, or use different types together.
- Do not take apart the batteries, heat them, or throw them into a fire.
- When using the remote control in the wireless condition, be sure to unplug the remote cable from the REMOTE IN terminal on the monitor.
- When disposing of used batteries, please comply with governmental regulations or environmental public instruction’s rules that apply in your country/area.

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 **STANDBY/ON indicator**
When the power is on ..... Lights green.
When the power is in the standby mode ... Lights red.

④ **INPUT/EXIT**
Switches the input.
The available inputs depend on the setting of “BNC INPUT”, “RGB SELECT” and “DVI SET UP”.
Functions as the EXIT buttons in the On-Screen Display (OSD) mode.

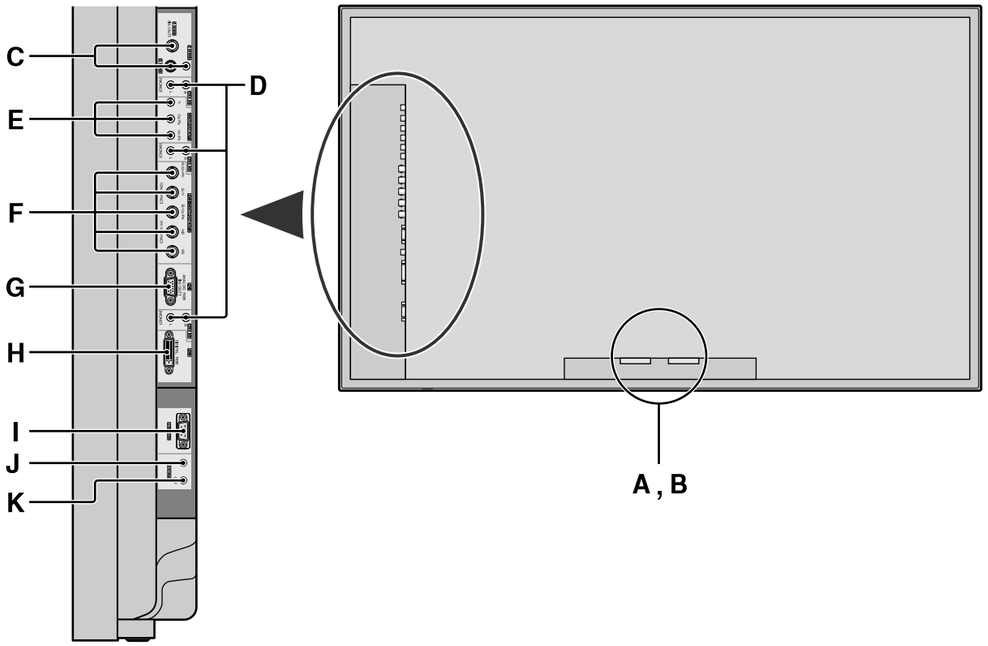
⑤ **LEFT/– and RIGHT/+**
Functions as the CURSOR (◀ / ▶) buttons in the On-Screen Display (OSD) mode.

⑥ **VOLUME ∨ and ∧**
Adjusts the volume. Functions as the CURSOR (▲/▼) buttons in the On-Screen Display (OSD) mode.

⑦ **MENU/SET**
Sets the On-Screen Display (OSD) mode and displays the main menu.

WARNING
The Power on/off switch does not disconnect the plasma display completely from the supply mains.

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 ⊕ (positive) speaker wire to the ⊕ EXT SPEAKER terminal and the ⊖ (negative) speaker wire to the ⊖ 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 24).

D AUDIO1, AUDIO2, AUDIO3
These are audio input terminals.
The input is selectable. Set which video image to allot them from the SOUND menu screen.

E COMPONENT1
Connect DVD's, High Definition or Laser Discs, etc. here.

F PC2/COMPONENT2
PC2: You can connect an analog RGB signal and the syncronization signal.
COMPONENT2: 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 17).

G PC1 (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 24).

H PC3 (DVI 24pin)
Connect a digital signal (TMDS) from a source with a DVI output.

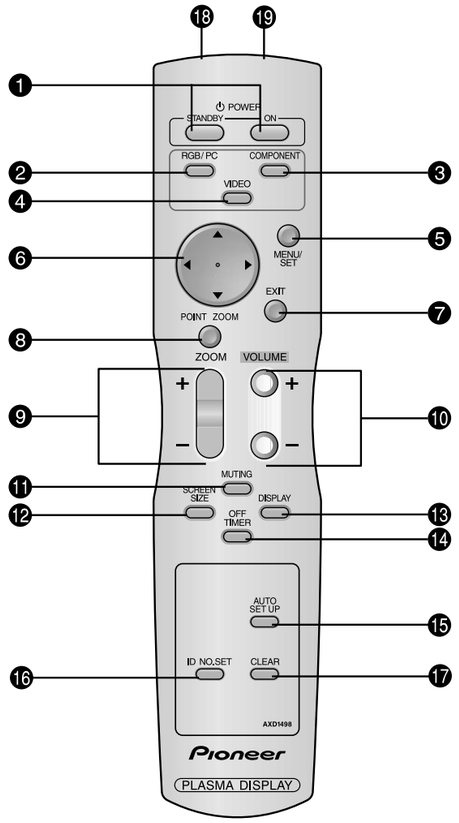
I RS-232C
Never connect any component to this connector without first consulting your Pioneer installation technician.
This connector is used for plasma display setup adjustments.

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



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

❷ RGB/PC
Press this button to select RGB/PC as the source.
RGB/PC can also be selected using the INPUT/EXIT button on the monitor.

❸ COMPONENT
Press this button to select COMPONENT as the source.
COMPONENT can also be selected using the INPUT/EXIT button on the monitor.

❹ VIDEO
Press this button to select VIDEO as the source.

→ VIDEO1 → VIDEO2 → VIDEO3 ┐

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

❺ MENU/SET
Press this button to access the OSD controls.
Press this button during the display of the main menu to go to the sub menu.

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

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

❽ POINT ZOOM
Press this button to display the pointer.

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

❿ VOLUME (+ /–)
Adjusts the sound volume.

⓫ MUTING
Mutes the sound.

⓬ SCREEN SIZE
Automatically detects the signal and sets the aspect ratio. SCREEN SIZE button is not active for all signals.

⓭ DISPLAY
Displays the source settings on the screen.

⓮ OFF TIMER
Activates the off timer for the unit.

⓯ AUTO SET UP
Press this button to adjust PHASE, CLOCK, 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.

⓰ ID NO. SET
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.

⓱ CLEAR
Clears the number set by the ID NO. SET button.

⓲ Remote control signal transmitter
Transmits the remote control signals.

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

Basic Operations

POWER

To turn the unit ON and OFF:

1. Plug the power cord into an active AC power outlet.
2. Press the Power button (on the unit).
   The monitor's STANDBY/ON 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 STANDBY/ON 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 STANDBY/ON 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.

MUTING

To mute the sound:

Press the MUTING button on the remote control to mute 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 POINT ZOOM button to display the pointer. ( )
   To change the size of the picture:
   Press the ZOOM+ button and enlarge the picture.
   The pointer will change to resemble a magnifying glass. ( )
   A press of the ZOOM- button will reduce the picture and return it to its original size.
   To change the picture position:
   Select the position with the ▲▼◀▶ buttons.
2. Press the POINT ZOOM button to delete the pointer.

AUTO SET UP

To adjust the size or quality of the picture automatically:

Press the AUTO SET UP button.

Information

■ **AUTO SET UP ON setting**

When RGB (still picture) input is selected:
PHASE, CLOCK, Position, and Contrast will be adjusted automatically.
When RGB (motion picture), VIDEO, or Y/Pb/Pr (component) input is selected:
The screen size switches to ZOOM mode automatically with the superimposed caption displayed fully only when the picture contains dark areas above and below the picture.

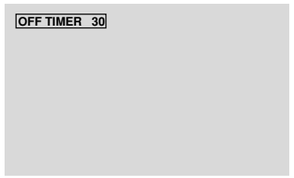
OFF TIMER

To set the off timer:

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

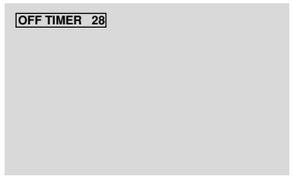
1. Press the OFF TIMER button to start the timer at 30 minutes.
2. Press the OFF TIMER button to the desired time.
3. The timer starts when the menu turns off.

→ 30 → 60 → 90 → 120 → 0



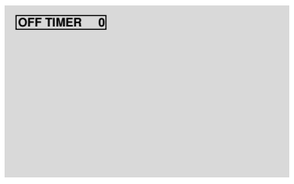
To check the remaining time:

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



To cancel the off timer:

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



Note:

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

WIDE Operations

SCREEN SIZE Operation (manual)

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

When viewing videos or digital video discs

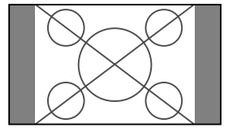
1. Press the SCREEN SIZE button on the remote control.
2. *Within 3 seconds ...*
   Press the SCREEN SIZE button again.
   The screen size switches as follows:

→ 4:3 → FULL → WIDE → ZOOM → 2.35:1 → 14:9

When a 720P or 1080I signal is input:

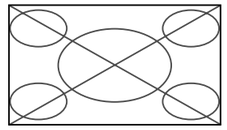
FULL ↔ 2.35:1

4:3 size screen



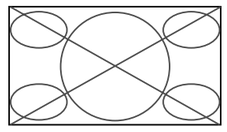
The normal size screen is displayed.
* The picture has the same size as video pictures with a 4 : 3 aspect ratio.

FULL size screen



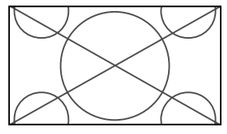
The image is expanded in the horizontal direction.
* Images compressed in the horizontal direction ("squeezed images") are expanded in the horizontal direction and displayed on the entire screen with correct linearity. (Normal images are expanded in the horizontal direction.)

WIDE size screen



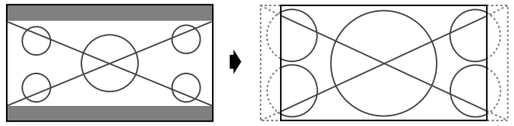
The picture is expanded in the horizontal and vertical directions at different ratios.
* Use this for watching normal video programs (4:3) with a wide screen.

ZOOM size screen



The picture is expanded in the horizontal and vertical direction, maintaining the original proportions.
* Use this for theater size (wide) movies, etc.

2.35:1 size screen

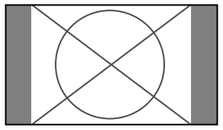


The squeezed film image is expanded to fulfill the entire screen at a ratio of 2.35:1. Black bands do not appear at the top and bottom but information is lost on the left and right margins.

- This feature is available when the input signal is video, component (480I, 480P, 576I, 576P, 720P, 1080I) or RGB (525P or 625P signal from a scan converter).

* If black bands appear on the top and bottom in the full size screen, select the 2.35:1 size screen to 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.

SCREEN SIZE Operation with Computer Signals

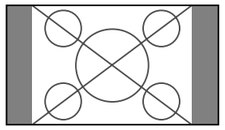
Switch to the wide screen mode to expand the 4 : 3 image to fill the entire screen.

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

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

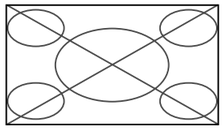
→ 4:3 → FULL → ZOOM

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



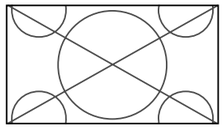
The picture has the same size as the normal computer image.

FULL size screen



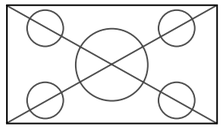
The image is expanded in the horizontal direction.

ZOOM size screen



When wide signals are input.

FULL size screen



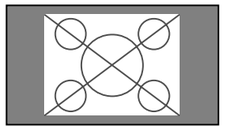
When “PICTURE SIZE” is set to “OFF”

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

The screen size switches as follows:

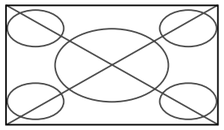
→ D BY D → FULL → ZOOM

DOT BY DOT screen (VGA, SVGA 4:3)



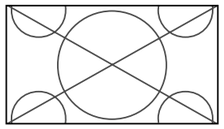
The image is dot by dot resolution.

FULL size screen



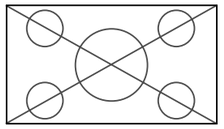
The image is expanded in the horizontal and vertical direction.

ZOOM size screen

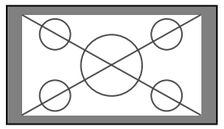


When wide signals are input.

FULL



DOT BY DOT



The image is dot by dot resolution.

* “D BY D” can be switched only when a 1280 dot × 768 line signal is input.

Information

■ Supported resolution

See page 30 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 D BY D in place of 4:3.

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

Select an appropriate setting for RGB SELECT mode referring to the“Table of Signals Supported” on page 30.

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

Note:

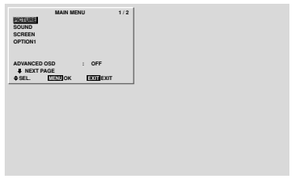
Do not allow the displayed in 4:3 mode for an extended period. This can cause a phosphor burn-in.

OSD (On Screen Display) Controls

Menu Operations

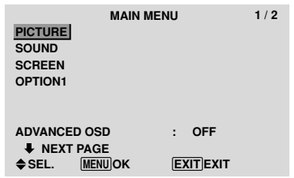
The OSD window is displayed with respect to the screen as shown on the diagram.

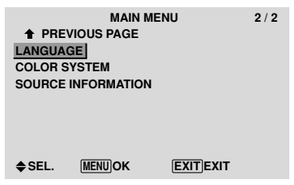
* Depending on the screen’s mode, the OSD may be displayed differently.
In the explanation, the OSD section is shown close up.



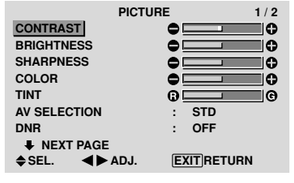
The following describes how to use the menus and the selected items.

1. Press the MENU/SET 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/SET 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.

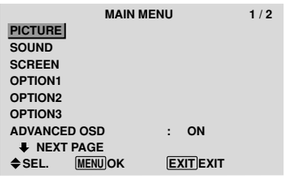
* When adjusting using the bar at the bottom of the screen, press the ◀ or ▶ button within 5 seconds. If not, the current setting is set and the previous screen appears.

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

Information

■ Advanced menu mode

When “ADVANCED OSD” is set to “ON” in the main menu (1/2), full menu items will be shown.

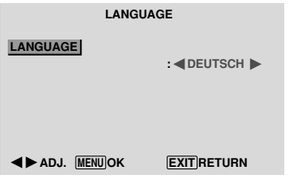


Setting the language for the menus

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

Example: Setting the menu display to “DEUTSCH”

On “MAIN MENU”, select “LANGUAGE”, then press the MENU/SET button.
The “LANGUAGE” screen appears.
On “LANGUAGE”, select “ DEUTSCH”, then press the MENU/SET button.



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

Information

■ Language settings

ENGLISH ..... English	ITALIANO ..... Italian
DEUTSCH ..... German	SVENSKA ..... Swedish
FRANÇAIS ..... French	日本語 ..... Japanese
ESPAÑOL ..... Spanish	

Menu Tree

:Shaded areas indicate the default value.
− ←→ + : Press the ◀ or ▶ button to adjust.
[ ] :Menu items in a ruled box are available when the ADVANCED OSD is set to ON.

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
PICTURE	CONTRAST	− ←→ + 0←52→72			YES	14
	BRIGHTNESS	− ←→ + 0←32→64			YES	14
	SHARPNESS	− ←→ + 0←16→32			YES	14
	COLOR	− ←→ + 0←32→64			YES	14
	TINT	R←→G 0←32→64			YES	14
	AV SELECTION	DYNAMIC/STD/MOVIE1/MOVIE2/DEFAULT			YES	14
	DNR	OFF/LOW/MID/HIGH			YES	14
	COLOR TEMP.	LOW/MID LOW/MID/HIGH			YES	14
	[WHITE BALANCE]	R.HIGH	− ←→ + 0←40→70		YES	15
		G.HIGH	− ←→ + 0←40→70		YES	15
		B.HIGH	− ←→ + 0←40→70		YES	15
		R.LOW	− ←→ + 0←40→70		YES	15
		G.LOW	− ←→ + 0←40→70		YES	15
		B.LOW	− ←→ + 0←40→70		YES	15
		RESET	OFF←→ON		YES	15
	[GAMMA]	1←→2←···→4			YES	15
	[LOW TONE]	AUTO←→1←···→3			YES	15
	[C. DETAIL ADJ]	RED	Y←→M 0←32→64		YES	15
		GREEN	C←→Y 0←32→64		YES	15
		BLUE	M←→C 0←32→64		YES	15
		YELLOW	G←→R 0←32→64		YES	15
		MAGENTA	R←→B 0←32→64		YES	15
		CYAN	B←→G 0←32→64		YES	15
		RESET	OFF←→ON		YES	15

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
SOUND	BASS	− ←→ + 0←13→26			YES	16
	TREBLE	− ←→ + 0←13→26			YES	16
	BALANCE	L←→R -22←0→+22			YES	16
	AUDIO INPUT1	VIDEO 1-3 / COMPNT 1-2 / PC1DSUB / PC2-BNC / PC3-DVI			YES	16
	AUDIO INPUT2	VIDEO 1-3 / COMPNT 1-2 / PC1DSUB / PC2-BNC / PC3-DVI			YES	16
	AUDIO INPUT3	VIDEO 1-3 / COMPNT 1-2 / PC1DSUB / PC2-BNC / PC3-DVI			YES	16

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
SCREEN	SCREEN SIZE	4:3/FULL/WIDE/ZOOM/2.35:1/14:9			—	16
	V.POSITION	− ←→ + -64←0→+64			YES	16
	H.POSITION	− ←→ + -128←0→+127			YES	16
	V.SIZE	− ←→ + 0←→64			YES	16
	H.SIZE	− ←→ + 0←→64			YES	16
	AUTO PICTURE	OFF←→ON*2			NO	16
	PHASE*1	− ←→ + *2 0←→64			YES	16
	CLOCK*1	− ←→ + *2 0←64→128			YES	16

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
OPTION1	OSD	DISPLAY OSD	OFF←→ON		YES	17
		OSD ADJUST	1←···→6		YES	17
		OSD ANGLE	H←→V		YES	17
		OSD ORBITER	OFF←→ON		YES	17
		OSD CONTRAST	LOW←→NORMAL		YES	17
	BNC INPUT	RGB←→COMP.			YES	17
	D-SUB INPUT	RGB			—	17
	RGB SELECT	AUTO/STILL/MOTION/WIDE1/WIDE2/WIDE3/WIDE4/DTV			YES	17
	HD SELECT	1080B/1035I/1080A			NO	18
	INPUT SKIP	OFF←→ON			YES	18
	ALL RESET	OFF←→ON			—	18

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
[OPTION2]	PWR. MGT.	OFF←→ON			YES	19
	PURECINEMA	OFF←→ON			YES	19
	LONG LIFE	ABL	AUTO/LOCK 1/LOCK 2/LOCK 3		YES	19
		ORBITER	AUTO 1		YES	20
			AUTO 2		YES	20
			MANUAL	H-DOT/V-LINE/TIME	YES	20
			OFF		YES	20
		INVERSE	OFF		YES	20
			ON	WORKING TIME/WAITING TIME	YES	20
			WHITE		YES	20
		SCREEN WIPER	OFF		YES	21
			ON	WORKING TIME/WAITING TIME/SPEED	YES	21
		SOFT FOCUS	OFF/1/2/3/4		YES	21
	SIDE MASK	0←···→3←···→15			YES	21
	S1/S2	AUTO←→OFF			YES	22
	PICTURE SIZE	OFF←→ON			YES	22
	DVI SET UP	PLUG/PLAY	PC←→STB/DVD		NO	22
		BLACK LEVEL	LOW←→HIGH		NO	22

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
[OPTION3]	TIMER	PRESENT TIME	DAYLIGHT SAIVING TIME	OFF←→ON	NO	23
			DAY/HOUR/MINUTES		NO	23
		PROGRAM	OFF		YES	23
			ON	DATE/ON/OFF(HOUR, MINUTE)/INPUT/FUNCTION	YES	23
	PWR. ON MODE	LAST / VIDEO 1-3 / COMPNT 1-2 / PC1DSUB / PC2-BNC / PC3-DVI			YES	24
	KEY LOCK	OFF←→ON			YES	24
	IR REMOTE	OFF←→ON			YES	24
	LOOP OUT	OFF←→ON			YES	24
	ID NUMBER	ALL←→1←···→256			YES	25
	VIDEO WALL	DIVIDER	OFF/1/4/9/16/25		YES	25
		POSITION	No.1←···→No.4/No.7←···→No.15/No.16←···→No.31/No.32←···→No.56		—	25
		DISP. MODE	NORMAL←→ADJUST		YES	26
		AUTO ID	OFF←→ON		YES	26
		SCREEN	SCREEN SIZE	4:3/FULL/WIDE/ZOOM/2.35:1/14:9	—	26
			V.POSITION	− ←→ + -64←0→+64	YES	26
			H.POSITION	− ←→ + -128←0→+127	YES	26
			V.SIZE	− ←→ + 0←→64	YES	26
			H.SIZE	− ←→ + 0←→64	YES	26
			AUTO PICTURE	OFF←→ON*2	NO	26
			PHASE*1	− ←→ + *2 0←→64	YES	26
			CLOCK*1	− ←→ + *2 0←64→128	YES	26
		P. ON DELAY	OFF/ON/MODE1/MODE2		YES	26
		ABL LINK	OFF←→ON		YES	27
		REPEAT TIMER	OFF		YES	27
			ON	DIVIDER/SOURCE/WORK TIME	YES	27

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
ADVANCED OSD	OFF←→ON				YES	27
LANGUAGE	ENGLISH/DEUTSCH/FRANÇAIS/ESPAÑOL/ITALIANO/SVENSKA/日本語				NO	11
COLOR SYSTEM	AUTO/3.58NTSC/4.43 NTSC/PAL/PAL 60/PAL-N/PAL-M/SECAM				NO	28
SOURCE INFORMATION	—				—	28

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

Information

■ Restoring the factory default settings

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

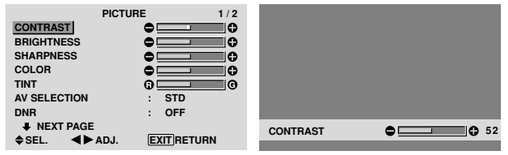
Picture Settings Menu

Adjusting the picture

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

Example: Adjusting the contrast

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



Note: *If "CAN NOT ADJUST" appears ...*
When trying to enter the PICTURE submenu, make sure AV SELECTION is not set to DEFAULT.

Information

■ Picture adjustment screen

CONTRAST: Changes the picture's white level.
BRIGHTNESS: Changes the picture's black level.
SHARPNESS: Changes the picture's sharpness. Adjusts picture detail of VIDEO display.
COLOR: Changes the color density.
TINT: Changes the picture's tint. Adjust for natural colored skin, background, etc.

■ Adjusting the computer image

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

■ Restoring the factory default settings

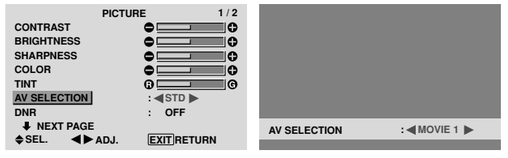
Select "DEFAULT" under the "AV SELECTION" settings.

Setting the picture modes 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 "MOVIE 1" mode

On "AV SELECTION" of "PICTURE" menu, select "MOVIE 1".



Information

■ Types of AV SELECTIONs

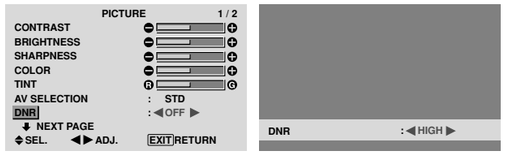
MOVIE 1, 2: Set this mode when watching video in a dark room.
This mode provides darker, finer pictures, like the screen in movie theaters.
For a darker image, select MOVIE 2.
STD: Set this mode when watching video in a bright room.
This mode provides pictures with distinct differences between light and dark sections.
DYNAMIC: This mode provides brighter pictures than STD.
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 "HIGH"

On "DNR" of "PICTURE" menu, select "HIGH".



Information

■ DNR

* "DNR" stands for Digital Noise Reduction.
* This function reduces noise in the picture.

■ Types of noise reduction

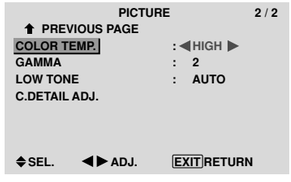
There are three types of noise reduction. Each has a different level of noise reduction.
The effect increases stronger in the order of LOW, MID and High.
OFF: Turns the noise reduction function off.

Setting the color temperature

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

Example: Setting "HIGH"

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



Information

■ Setting the color temperature

LOW: Redder
MID LOW: Slightly red
MID: Standard (slightly bluer)
HIGH: Bluer

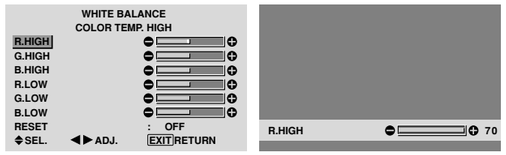
Adjusting the color to the desired level

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

Example: Adjusting the "R.HIGH" of "HIGH" color temperature

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

On "COLOR TEMP." of "PICTURE" menu, select "HIGH", then press the MENU/SET button.
The "WHITE BALANCE" screen appears.
On "R.HIGH", adjust the white balance.



Information

■ Adjusting the white balance

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

■ Restoring the factory default settings

Select "RESET" under the WHITE BALANCE menu.

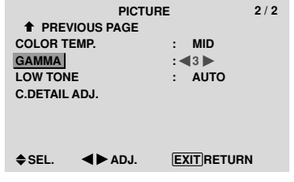
Changing the Gamma Curve

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

Example: Setting "3"

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

On "GAMMA" of "PICTURE" menu, select "3".



Information

■ GAMMA settings

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

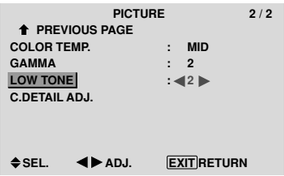
Making the Low Tone adjustments

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

Example: Setting "2"

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

On "LOW TONE" of "PICTURE" menu, select "2".



Information

■ LOW TONE settings

AUTO: Will automatically appraise the picture and make adjustments.
1: Will apply the dither method suitable for still pictures.
2: Will apply the dither method suitable for motion pictures.
3: Will apply the error diffusion method.

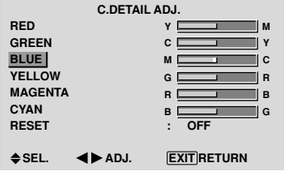
Adjusting the colors

Use this procedure to adjust hue and color density for red, green, blue, yellow, magenta and cyan.
You can accentuate the green color of trees, the blue of the sky, etc.

Example: Adjusting the color detail adj for blue

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

On "PICTURE" menu, select "C. DETAIL ADJ", then press the MENU/SET button.
The "C. DETAIL ADJ" screen appears.
On "BLUE" of "C. DETAIL ADJ", adjust the color detail.



Information

■ C. DETAIL ADJ 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/SET button.

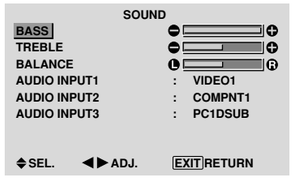
SOUND Settings Menu

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

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

Example: Adjusting the bass

On “BASS” of “SOUND” menu, adjust the bass.



Note : *If “CAN NOT ADJUST” appears...*
Set “AUDIO INPUT” on the SOUND menu correctly.

Information

■ SOUND settings menu

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

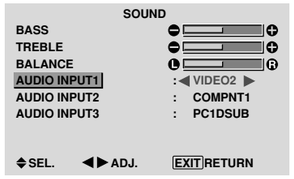
Setting the allocation of the audio connectors

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

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

On “AUDIO INPUT1” of “SOUND” menu, select “VIDEO2”.

The available sources depend on the settings of input.



Information

■ AUDIO INPUT

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

SCREEN Settings Menu

Adjusting the Position, Size, PHASE, CLOCK

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

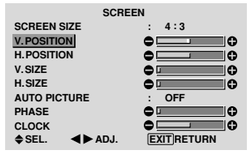
Example: Adjusting the vertical position in the normal mode

On “V.POSITION” of “SCREEN” menu, adjust the position.

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

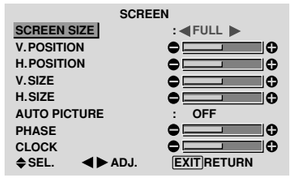
4:3 ↔ FULL

* The mode can also be switched by pressing the SCREEN SIZE button on the remote control.
* The settings on the SCREEN menu are not preset at the factory.



Information

■ When “AUTO PICTURE” is “OFF”



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

■ Adjusting the Auto Picture

ON: The CLOCK, PHASE and Position adjustments are made automatically.
Not available for digital ZOOM.
OFF: The CLOCK, PHASE and Position adjustments are made manually.

* If PHASE can’t be adjusted, set Auto Picture to OFF and adjust manually.

■ Adjusting the position of the image

V.POSITION: Adjusts the vertical position of the image.
H.POSITION: Adjusts the horizontal position of the image.
V.SIZE: Adjusts the vertical size of the image. (Except for WIDE mode)
H.SIZE: Adjusts the horizontal size of the image. (Except for WIDE mode)
PHASE*: Adjusts for flickering.
CLOCK*: Adjusts for striped patterns on the image.

* The CLOCK and PHASE features are available only when the “Auto Picture” is off.
* The AUTO PICTURE, PHASE and CLOCK are available only for RGB signals.
But, these features are not available for moving pictures on RGB, VIDEO or COMPONENT.

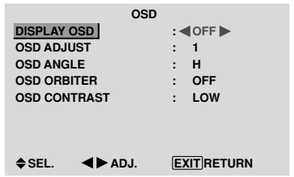
Option1 Settings Menu

Setting the on-screen display

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

Example: Turning the DISPLAY OSD off

On “OPTION1” menu, select “OSD”, then press the MENU/SET button.
The “OSD” menu appears.
On “DISPLAY OSD” of “OSD” menu, select “OFF”.



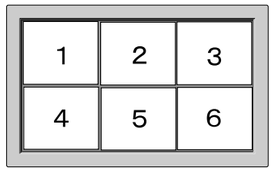
Information

■ DISPLAY OSD settings

ON: The informations on screen size, volume control, etc. will be shown.
OFF: The informations on screen size, volume control, etc. will not be shown.
The DISPLAY button on the remote control will not function either.

■ OSD ADJUST settings

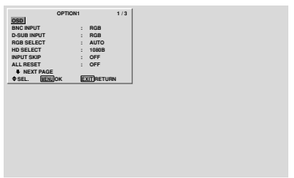
Adjusts the position of the menu when it appears on the screen.
The position can be set between 1 to 6.



■ OSD ANGLE settings

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

“H” “V”



■ OSD ORBITER settings

ON: The position of the menu will be shifted by eight dots each time OSD is displayed.
OFF: OSD will be displayed at the same position.

■ OSD CONTRAST settings

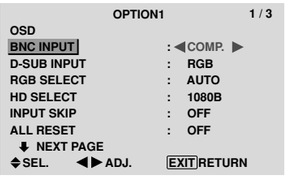
NORMAL: OSD brightness is set to normal.
LOW: OSD brightness is set to lower.

Setting the BNC connectors

Select whether to set the input of the 5 BNC connectors to RGB and component.

Example: Set the BNC INPUT mode to “COMP.”

On “BNC INPUT” of “OPTION1” menu, select “COMP.”.



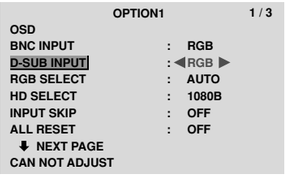
Information

■ BNC INPUT Settings

RGB: Use the 5BNC terminals for PC2/COMPONENT2 input.
COMP.: Use the 3BNC terminals for PC2/COMPONENT2 input.

Checking the signal being transmitted to PC1 terminal

Use this to confirm the signal being transmitted to the PC1 terminal.
It is set to RGB and can not be adjusted.

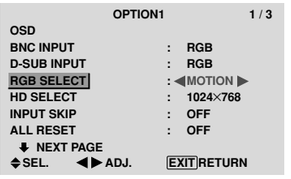


Setting a computer image to the correct RGB select screen

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 “RGB SELECT” of “OPTION1” menu, select “MOTION”.



Information

■ RGB SELECT modes

One of these 8 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 30.
STILL: To display VESA standard signals. (Use this mode for a still image from a computer.)
MOTION: The video signal (from a scan converter) will be converted to RGB signals to make the picture more easily viewable. (Use this mode for a motion image from a computer.)

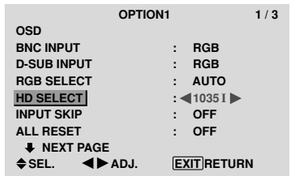
WIDE1: When an 852 dot× 480 line signal with a horizontal frequency of 31.7kHz is input, the image may be compressed horizontally. To prevent this, set RGB SELECT to WIDE1.
WIDE2: When an 848 dot× 480 line signal with a horizontal frequency of 31.0 kHz is input, the image may be compressed horizontally. To prevent this, set RGB SELECT to WIDE2.
WIDE3: When an 1920 dot× 1200 line signal with a horizontal frequency of 74.0 kHz is input, the image may be compressed horizontally. To prevent this, set RGB SELECT to WIDE3.
WIDE4: When an 1280 dot× 768 line signal with a horizontal frequency of 59.8 kHz or an 1680 dot× 1050 line signal with a horizontal frequency of 60 kHz is input, the image may be compressed horizontally. To prevent this, set RGB SELECT to WIDE4.
DTV: Set this mode when watching digital broadcasting (480P).
See page 30 for the details of the above settings.

Setting high definition images to the suitable screen size

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

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

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



Information

■ HD SELECT modes

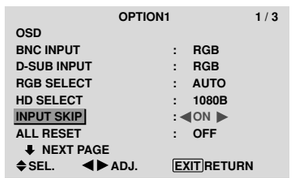
These 3 modes are not displayed in correct image automatically.
1080B: Standard digital broadcasts
1035I: Japanese “High Vision” signal format
1080A: Special Digital broadcasts (for example : DTC100)

Setting the Input Skip

When this is ON, signals which are not present will be skipped over and only pictures whose signals are being transmitted will be displayed.
This setting is valid only for the INPUT/EXIT button on the unit.

Example: Set to “ON”

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



Information

■ INPUT SKIP settings

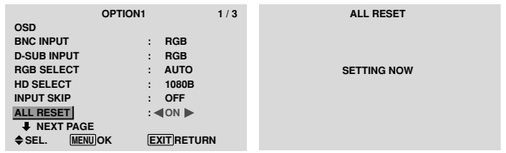
OFF: Regardless of the presence of the signal, scan and display all signals.
ON: If no input signal is present, skip that signal.
* “SETTING NOW” will appear during the input search.

Resetting to the default values

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

Refer to page 12 for items to be reset.

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



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

Option2 Settings Menu

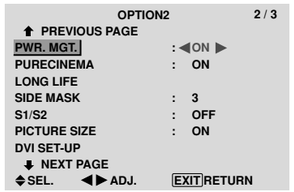
Setting the power management for computer images

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

On “PWR. MGT.” of “OPTION2” menu, select “ON”.



Information

■ Power management function

* The power management function automatically reduces the monitor’s power consumption if the computer’s keyboard or mouse is not operated for a certain amount of time. This function can be used when using the monitor with a computer.
* If the computer’s power is not turned on or if the computer and selector tuner are not properly connected, the system is set to the off state.
* For instructions on using the computer’s power management function, refer to the computer’s operating instructions.

■ Power management settings

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

■ Power management function and STANDBY/ON indicator

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

STANDBY/ON indicator

Power management mode	STANDBY/ ON 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.

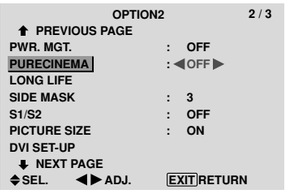
Setting the picture to suit the movie

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 “PURECINEMA” to “OFF”

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

On “PURECINEMA” of “OPTION2” menu, select “OFF”.



Information

■ PURECINEMA

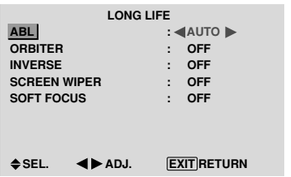
ON: Automatic discrimination of the image and projection in PURECINEMA.
OFF: PURECINEMA does not function.

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

On “OPTION2” menu, select “LONG LIFE”, then press the MENU/SET button.
The “LONG LIFE” screen appears.

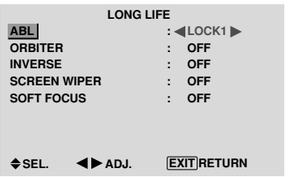


ABL (Auto Brightness Limiter)

Use this to activate the brightness limiter.

Example: Setting “ABL” to “LOCK1”

On “ABL” of “LONG LIFE” menu, select “LOCK1”.



Information

■ ABL settings

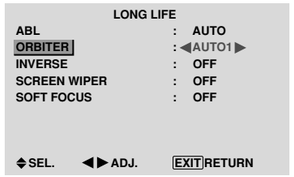
AUTO: The brightness of the screen is adjusted automatically to suit the picture quality.
LOCK1, 2, 3: Sets maximum brightness.
The brightness level decreases in the order of LOCK 1, 2, 3. LOCK 3 provides minimum brightness.

ORBITER

Use this to set the picture shift.

Example: Setting “ORBITER” to “AUTO1”

On “ORBITER” of “LONG LIFE” menu, select “AUTO1”.



Information

■ ORBITER settings

OFF: Orbiter mode does not function.
This is the default setting when PC signal is input.
AUTO1: The picture moves around the screen intermittently, making the picture smaller. This is the default setting when a Video or a COMPONENT signal is input. Set to “OFF” when these signals are not used.
AUTO2: The picture moves around the screen intermittently, making the picture bigger.
MANUAL: User can adjust the orbiter function (Horizontal Dot, Vertical Line and Time) manually. See the following explanation.

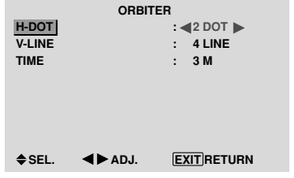
* When a Video or a COMPONENT signal is input, the AUTO1 and 2 functions will affect only the moving picture and will not make the screen smaller or bigger.

Adjust the ORBITER function manually

Set the amount of shift and the time between movement.

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

On “ORBITER” of “LONG LIFE” menu, select “MANUAL”, then press the MENU/SET button.
THE “ORBITER” screen appears.
Adjust the items.



Information

■ ORBITER Function settings

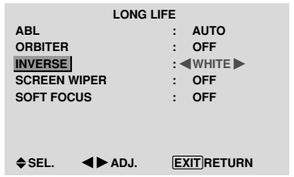
H-DOT: Moves from 1 to 20 dots in the horizontal direction.
V-LINE: Moves from 1 to 20 lines in the vertical direction.
TIME: Interval of 1~5 minutes (1 horizontal dot or 1 vertical line per interval).

INVERSE

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

Example: Setting “INVERSE” to “WHITE”

On “INVERSE” of “LONG LIFE” menu, select “WHITE”.



Information

■ INVERSE Settings

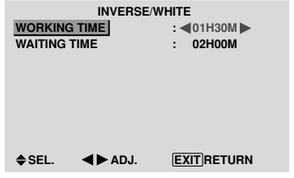
ON: The picture is displayed alternately between positive image and negative image.
You can set the time by pressing the MENU/SET button while “ON” is set.
OFF: Inverse mode does not function.
WHITE: The entire screen turns white.
You can set the time by pressing the MENU/SET button while “ON” is set.

Setting the time for INVERSE/WHITE

Set a time duration.

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

On “INVERSE” of “LONG LIFE” menu, select “ON”, then press the MENU/SET button.
THE “INVERSE/WHITE” screen appears.
Adjust the times.



Information

■ Setting the time

WORKING TIME: Set the time duration for “INVERSE/WHITE”.
When the WORKING TIME is set to “ON” the mode will stay on.
WAITING TIME: Set the standby time until the “INVERSE/WHITE” mode starts.

* The “WAITING TIME” can not be set when the “WORKING TIME” is ON.
* THE “WORKING TIME” and “WAITING TIME” can be set for up to 12 hours and 45 minutes in units of 3 minutes.
* Ending a WORKING TIME function, the monitor will be STAND BY.

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

■ To select “ON” for the “WORKING TIME”...

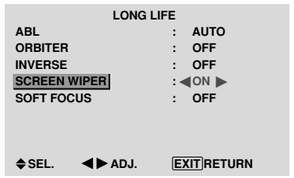
Set the hours of the working time to 0H and the minutes to 0M. “ON” will be displayed.

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”

On “SCREEN WIPER” of “LONG LIFE” menu, select “ON”.



Information

■ SCREEN WIPER

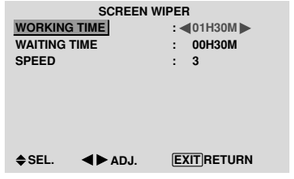
ON: The white vertical bar appears.
You can set the time by pressing the MENU/SET button while “ON” is set.
OFF: Screen wiper mode does not function.

Setting the time for SCREEN WIPER

Set a time duration and the speed.

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

On “SCREEN WIPER” of “LONG LIFE” menu, select “ON”, then press the MENU/SET button.
THE “SCREEN WIPER” screen appears.
Adjust the times and speed.



Information

■ Setting the time

WORKING TIME: Set the time duration for “SCREEN WIPER”.
When the WORKING TIME is set to “ON” the mode will stay on.
WAITING TIME: Set the standby time until the “SCREEN WIPER” mode starts.
SPEED: Set the moving speed for the “SCREEN WIPER”. The speed decreases as the number increases.

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

■ To select “ON” for the “WORKING TIME”...

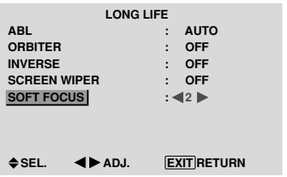
Set the hours of the working time to 0H and the minutes to 0M. “ON” will be displayed.

SOFT FOCUS

Reduces edges and softens the image.

Example: Setting “SOFT FOCUS” to “2”

On “SOFT FOCUS” of “LONG LIFE” menu, select “2”.



Information

■ SOFT FOCUS settings

OFF: Turns the SOFT FOCUS function off.
1, 2, 3, 4: Activates the SOFT FOCUS setting. The higher numbers create a softer image.
“SHARPNESS” can not be adjusted in the “PICTURE” menu.

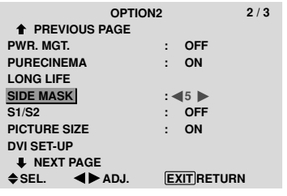
Setting the gray level for the SIDE MASK

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

Example: Setting “SIDE MASK” to “5”

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

On “SIDE MASK” of “OPTION2” menu, select “5”.



Information

■ SIDE MASK settings

This adjusts the brightness of the black (the gray level) for the sides of the screen.
The standard is 0 (black). The level can be adjusted from 0 to 15. The factory setting is 3 (dark gray).

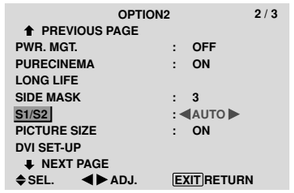
Setting the screen size for S1/S2 video input

If the S-video signal contains screen size information, the image will be automatically adjusted to fit the screen when this S1/S2 is set to AUTO.
This feature is available only when an S-video signal is input via the VIDEO3 terminal.

Example: Setting “S1/S2” to “AUTO”

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

On “S1/S2” of “OPTION2” menu, select “AUTO”.



Information

■ S1/S2 settings

AUTO: Adjusts the screen size automatically according to the S1/S2 video signal.
OFF: Turns the S1/S2 function off.

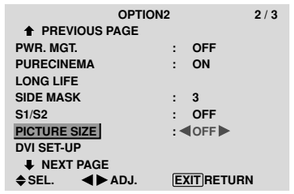
Setting the picture size for RGB input signals

Use this procedure to switch the setting to “ON” or “OFF”.

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

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

On “PICTURE SIZE” of “OPTION2” menu, select “OFF”.



See page 10 for the details of the above settings.

Setting the signal and black level for DVI signal

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

Example: Setting the “PLUG/PLAY” mode to “STB/DVD”

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

On “OPTION2” menu, select “DVI SET UP”, then press the MENU/SET button.

The “DVI SET UP” screen appears.

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

Information

■ PLUG/PLAY settings

PC: When connected to the PC signal.
BLACK LEVEL is set to “LOW” automatically.
STB/DVD: When connected to the SET TOP BOX, DVD etc.
BLACK LEVEL is set to “HIGH” automatically.

■ BLACK LEVEL settings

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

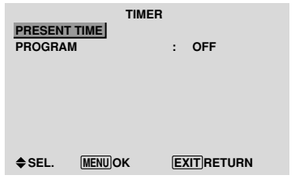
Option3 Settings Menu

Using the timer

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

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

On “OPTION3” menu, select “TIMER”, then press the MENU/SET button.
The “TIMER” screen appears.



PRESENT TIME

This sets the day of the week and present time.

Example: Setting “WEDNESDAY”, “22:05”

On “TIMER” menu, select “PRESENT TIME”, then press the MENU/SET button.
The “PRESENT TIME” screen appears.

Adjust the items.

Select “SET”, then press the MENU/SET button.
The adjustments are stored and return to the TIMER menu.

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

Information

■ PRESENT TIME settings

DAYLIGHT SAVING TIME: Use to set DAYLIGHT SAVING TIME.
ON: The present time + 1 hour.
OFF: Cancelled
Day: Set the day of the week (e.g. Sunday).
Hour: Set the hour in the 24-hour format (range 00 to 23).
Minutes: Set the minutes (range 00 to 59).

PROGRAM TIMER

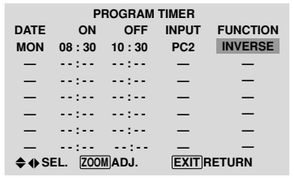
This sets the day and time at which the power will be switched ON/OFF as well as the input mode.

Example: Setting so that the power will be switched on at 8:30 A.M., Monday, displaying PC2 source, and switched off at 10:30 A.M.

On “PROGRAM” of “TIMER” menu, select “ON”, then press the MENU/SET button.
The “PROGRAM TIMER” screen appears.

Adjust the items.

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



Information

■ PROGRAM TIMER settings

DATE: Set the day of the week (e.g. Sunday).
ON (hour, minutes): Set the time at which the power will be turned on in the 24-hour format.
OFF (hour, minutes): Set the time at which the power will be turned off in the 24-hour format.
INPUT: Set the input mode that will be displayed when the timer is on.
FUNCTION: Set the LONG LIFE function.

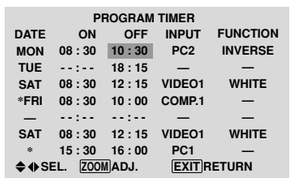
■ To reset the program

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

■ To reset the data

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

■ Special characters in the PROGRAM TIMER screen



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

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

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

Setting the power on mode

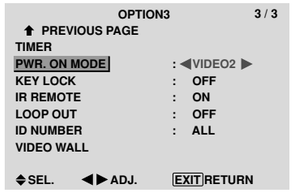
This function sets the input mode at the time the power is switched on.

Example: Setting “VIDEO2”

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

On “PWR. ON MODE” of “OPTION3” menu, select “VIDEO2”.

The available inputs depend on the setting of input.



Information

■ PWR. ON MODE settings

LAST: Last mode (the input that was last selected at the time the power was switched off).
VIDEO1, 2, 3: VIDEO input mode.
PC1, 2, 3: PC input mode.
COMPONENT1, 2: COMPONENT input mode.
Follow the procedure used for PROGRAM TIMER. See page 23.

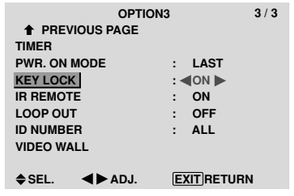
Enabling/disabling the front panel controls

This function enables/disables the front panel controls.

Example: Setting “ON”

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

On “KEY LOCK” of “OPTION3” menu, select “ON”, then press the MENU/SET button.



Information

■ KEY LOCK settings

ON: Disables the buttons on the front panel.
OFF: Enables the buttons on the front panel.

* Even when the KEY LOCK is set, the POWER switch will not be locked.
* This becomes effective when the OSD goes out.

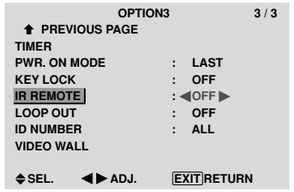
Enabling/disabling remote control wireless transmission

This function enables/disables remote control wireless transmission.

Example: Setting “OFF”

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

On “IR REMOTE” of “OPTION3” menu, select “OFF”, then press the MENU/SET button.



Information

■ IR REMOTE settings

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

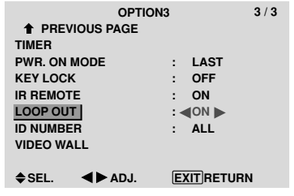
Loop Out setting

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

Example: Setting “ON”

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

On “LOOP OUT” of “OPTION3” menu, select “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 3.

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

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

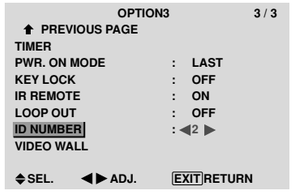
ID number setting

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

On “ID NUMBER” of “OPTION3” menu, select “2”.



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

Information

■ ID NUMBER settings

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

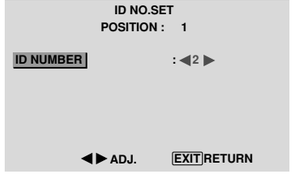
■ When the ID NUMBER have been set

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

To set the ID number for the remote control

Example: Setting “2”

Press the ID NO. SET button on the remote control.
The “ID NO. SET” screen appears.
On “ID NUMBER” of “ID NO. SET” menu, select “2”.



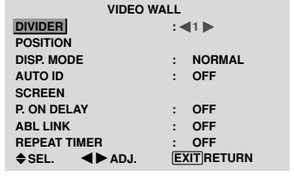
* **To reset back to ALL**
Press the CLEAR button.

Video Wall setting

When creating a video wall, use a distribution amplifier (any commercially available distribution amplifier) to connect the split signals to the respective monitor INPUT terminals.
Use this feature to configure a 4-25 video wall.

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

On “OPTION3” menu, select “VIDEO WALL”, then press the MENU/SET button.
The “VIDEO WALL” screen appears.



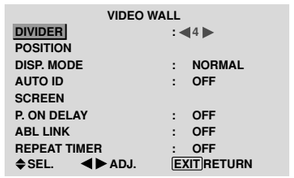
Note: *A contingency method of shutting off the electric power should be used in cases of emergency during video wall setup.*

DIVIDER

Set the 4-25 video wall.

Example: Setting “4”

On “DIVIDER” of “VIDEO WALL” menu, select “4”.



Information

■ DIVIDER settings

OFF, 1: 1 Screen (Matrix display function does not work)
4: 4 Screens (2×2 video wall)
9: 9 Screens (3×3 video wall)
16: 16 Screens (4×4 video wall)
25: 25 Screens (5×5 video wall)

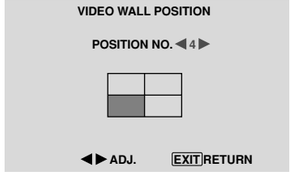
* When you select 4-25, set the VIDEO WALL POSITION.

VIDEO WALL POSITION

Set the position of each display.

Example: Setting “4”

On “VIDEO WALL” menu, select “POSITION”, then press the MENU/SET button.
The “VIDEO WALL POSITION” screen appears.
Select “NO. 4” of “POSITION NO.”.



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

16 Screens

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

25 Screens

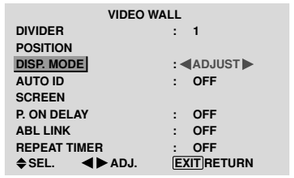
NO. 32	NO. 33	NO. 34	NO. 35	NO. 36
NO. 37	NO. 38	NO. 39	NO. 40	NO. 41
NO. 42	NO. 43	NO. 44	NO. 45	NO.46
NO. 47	NO. 48	NO. 49	NO. 50	NO. 51
NO. 52	NO. 53	NO. 54	NO. 55	NO. 56

DISP. MODE

Select the screen mode from between two options (NORMAL, ADJUST).

Example: Setting “ADJUST”

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



Information

■ DISP. MODE settings

NORMAL: Combines enlarged screens and creates multiple screens.
ADJUST: Corrects misalignment of combined screen portions and creates multiple screens

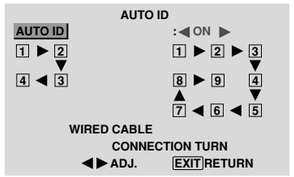
AUTO ID

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

Example: Setting “ON”

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

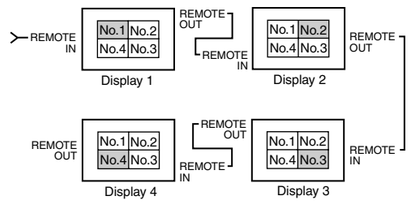
On “AUTO ID” of “VIDEO WALL” menu, select “ON”, then press the MENU/SET button.



Information

■ AUTO ID settings

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



OFF: Disables Auto ID function.

SCREEN

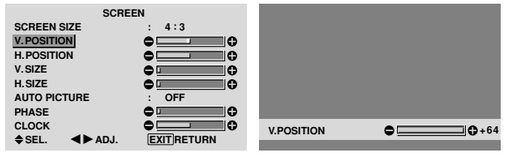
The position of the image can be adjusted and flickering of the image can be corrected.

Example: Adjusting the vertical position

On “VIDEO WALL” menu, select “SCREEN”, then press the MENU/SET button.

The “SCREEN” screen appears.

On “V.POSITION” of “SCREEN” menu, adjust the position.



Information

■ SCREEN settings

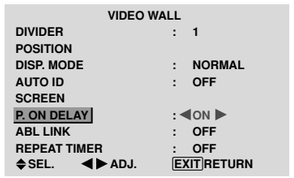
These are the same functions as the SCREEN menu on page 16.

P. ON DELAY (Power on delay)

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

Example: Setting “ON”

On “P. ON DELAY” of “VIDEO WALL” menu, select “ON”.



Information

■ P. ON DELAY settings

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.

(Only for 16 and 25 screens)
MODE1: Turns on the main power of each display delayed.
MODE2: Turns on the main power of each display more delayed.

* Once this function has been set to “ON”, the POWER ON/OFF button on the remote control does not function except for the No.1 monitor.
By pressing the POWER ON button on the remote control the No.1 monitor will turn on and the others will be turned on one by one automatically.

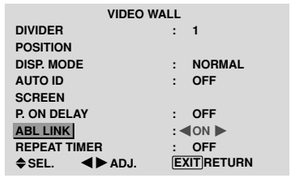
* From the second monitor onward, neither the POWER button on the unit nor the POWER ON button on the remote control works. However, by pressing and holding the POWER ON button for more than 3 seconds, the monitor will be turned on.

ABL 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”

On “ABL LINK” of “VIDEO WALL” menu, select “ON”, then press the MENU/SET button.



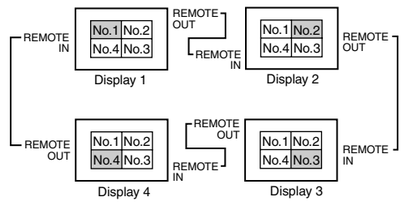
Information

■ ABL LINK settings

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

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

* If there are changes in the DIVIDER or POSITION, the ABL 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 functions.
Turn on the AUTO ID and set the DIVIDER (at 1, 4 or 9) before the following operations.

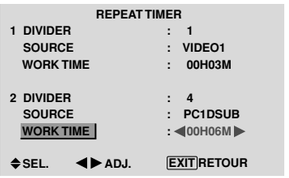
Example:

TIMER1...VIDEO1 will be displayed for 3 minutes.
TIMER2...PC1 will be displayed for 6 minutes in a 2×2 video wall.

On “REPEAT TIMER” of “VIDEO WALL” menu, select “ON”, then press the MENU/SET button.

The “REPEAT TIMER” screen appears.

Adjust the items.



Information

■ REPEAT TIMER settings

DIVIDER: Divide the screen into 1, 4 or 9 sections.
SOURCE: Set the input mode to be displayed.
WORK TIME: Can be set to up to 4 hours 15 minutes in units of 1 minute.
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.

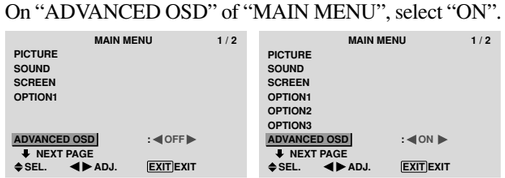
Advanced OSD Settings Menu

Setting the menu mode

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

Example: Setting “ON”

On “ADVANCED OSD” of “MAIN MENU”, select “ON”.



Information

■ ADVANCED OSD 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 and OPTION3).

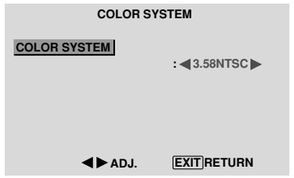
Color System Settings Menu

Setting the video signal format

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

Example: Setting the color system to “3.58 NTSC”

On the MAIN MENU, select “COLOR SYSTEM”, then press the MENU/SET button.
The “COLOR SYSTEM” screen appears.
On “COLOR SYSTEM”, select “ 3.58NTSC ”.



Information

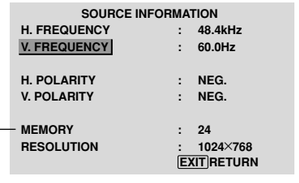
■ Video signal formats

Different countries use different formats for video signals. Set to the color system used in your current country.
AUTO: The color systems are automatically identified and the format is set accordingly.
PAL: This is the standard format used mainly in the United Kingdom and Germany.
SECAM: This is the standard format used mainly in France and Russia.
4.43 NTSC, PAL60: This format is used for videos in countries using PAL and SECAM video signals.
3.58 NTSC: This is the standard format used mainly in the United States and Japan.
PAL-M: This is the standard format used mainly in Brazil.
PAL-N: This is the standard format used mainly in Argentina.

Source Information Menu

Checking the frequencies, polarities of input signals, and resolution

Use this function to check the frequencies and polarities of the signals currently being input from a computer, etc.
On “MAIN MENU”, select “SOURCE INFORMATION”, then press the MENU/SET button.
The “SOURCE INFORMATION” is displayed.

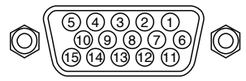


PC: MEMORY will be displayed.
Others: MODE will be displayed.

Pin Assignments

mini D-Sub 15-pin connector (Analog)

PC 1

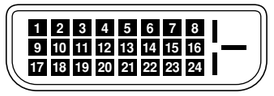


Pin No.	Signal (Analog)
1	Red
2	Green or sync-on-green
3	Blue
4	No connection
5	Ground
6	Red ground
7	Green ground
8	Blue ground
9	No connection
10	Sync signal ground
11	No connection
12	Bi-directional DATA (SDA)
13	Horizontal sync or Composite sync
14	Vertical sync
15	Data clock

DVI-D 24-pin connector (Digital)

The unit is equipped with a type of connector commonly used for digital.
(This cannot be used for an analog input.)
(TMDS can be used for one link only.)

PC 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 -

Table of Signals Supported

Supported resolution

- When the screen size is 4:3, each signal is converted to a 1024 dots×768 lines signal. (Except for *2, 3, 4)
- When the screen size is Dot by Dot, the picture is displayed in the original resolution.
- When the screen size is FULL, each signal is converted to a 1365 dots×768 lines signal. (Except for *3)

Computer input signals supported by this system

Model / Signal Type	Dots × lines	Vertical frequency (Hz)	Horizontal frequency (kHz)	Sync Polarity		Presence		Screen size			RGB select*5	DVI	Memory
				Horizontal	Vertical	Horizontal	Vertical	4:3	D BY D	FULL (16:9)			
	640×400	70.1	31.5	NEG	NEG	YES	YES	YES*2	YES	YES	– –	NO	4
IBM PC/AT*8 compatible computers	640×480	59.9	31.5	NEG	NEG	YES	YES	YES	YES	YES	STILL	YES	5
		72.8	37.9	NEG	NEG	YES	YES	YES	YES	YES	– –	YES	7
		75.0	37.5	NEG	NEG	YES	YES	YES	YES	YES	STILL	YES	8
		85.0	43.3	NEG	NEG	YES	YES	YES	YES	YES	– –	YES	9
		100.4	51.1	NEG	NEG	YES	YES	YES	YES	YES	– –	YES	41
		120.4	61.3	NEG	NEG	YES	YES	YES	YES	YES	– –	YES	42
	848×480	60.0	31.0	POS	POS	YES	YES	– –	YES	YES	WIDE2	YES	19
	852×480*1	60.0	31.7	NEG	NEG	YES	YES	– –	YES	YES	WIDE1	YES	17
	800×600	56.3	35.2	POS	POS	YES	YES	YES	YES	YES	STILL	YES	11
		60.3	37.9	POS	POS	YES	YES	YES	YES	YES	STILL	YES	12
		72.2	48.1	POS	POS	YES	YES	YES	YES	YES	– –	YES	13
		75.0	46.9	POS	POS	YES	YES	YES	YES	YES	– –	YES	14
		85.1	53.7	POS	POS	YES	YES	YES	YES	YES	– –	YES	15
		99.8	63.0	POS	POS	YES	YES	YES	YES	YES	– –	YES	43
		120.0	75.7	POS	POS	YES	YES	YES	YES	YES	– –	YES	44
	1024×768	60.0	48.4	NEG	NEG	YES	YES	YES*3	– –	YES	STILL	YES	24
		70.1	56.5	NEG	NEG	YES	YES	YES*3	– –	YES	– –	YES	25
		75.0	60.0	POS	POS	YES	YES	YES*3	– –	YES	STILL	YES	26
		85.0	68.7	POS	POS	YES	YES	YES*3	– –	YES	– –	YES	27
		100.6	80.5	NEG	NEG	YES	YES	YES*3	– –	YES	– –	YES	45
	1152×864	75.0	67.5	POS	POS	YES	YES	YES	– –	YES	STILL	YES	51
	1280×768	56.2	45.1	NEG	NEG	YES	YES	– –	YES	YES	WIDE1	NO	52
		59.8	48.0	NEG	POS	YES	YES	– –	YES	YES	WIDE4	YES	23
		69.8*9	56.0*9	NEG	POS	YES	YES	– –	YES	YES	WIDE1	YES	66
	1280×800*9	60.0	49.7	NEG	NEG	YES	YES	– –	– –	YES	WIDE1	YES	21
	1280×854*9	60.0	53.1	NEG	NEG	YES	YES	– –	– –	YES	WIDE2	YES	37
	1360×765	60.0	47.7	POS	POS	YES	YES	– –	– –	YES*3	WIDE1	NO	22
	1360×768	60.0	47.7	POS	POS	YES	YES	– –	– –	YES*3	WIDE1	YES	22
	1376×768	59.9	48.3	NEG	POS	YES	YES	– –	– –	YES	WIDE2	YES	53
	1280×1024	60.0	64.0	POS	POS	YES	YES	YES*4	– –	YES	STILL	YES	29
		75.0	80.0	POS	POS	YES	YES	YES*4	– –	YES	– –	YES	30
		85.0	91.1	POS	POS	YES	YES	YES*4	– –	YES	– –	YES	40
		100.1	108.5	POS	POS	YES	YES	YES*4	– –	YES	– –	NO	47
	1680×1050*9	60.0	65.3	NEG	NEG	YES	YES	– –	– –	YES	WIDE4	YES	38
	1600×1200	60.0	75.0	POS	POS	YES	YES	YES	– –	YES	– –	YES	54
		65.0	81.3	POS	POS	YES	YES	YES	– –	YES	– –	NO	55
		70.0	87.5	POS	POS	YES	YES	YES	– –	YES	– –	NO	56
		75.0	93.8	POS	POS	YES	YES	YES	– –	YES	– –	NO	57
		85.0	106.3	POS	POS	YES	YES	YES	– –	YES	– –	NO	58
	1920×1200*9	60.0	74.6	NEG	NEG	YES	YES	– –	– –	YES	WIDE2	NO	81
	1920×1200RB*9	60.0	74.0	NEG	NEG	YES	YES	– –	– –	YES	WIDE3	YES	88
Apple Macintosh*6 *8	640×480	66.7	35.0	Sync on G	Sync on G	– –	– –	YES	YES	YES	– –	NO	6
	832×624	74.6	49.7	Sync on G	Sync on G	– –	– –	YES	YES	YES	– –	NO	16
	1024×768	74.9	60.2	Sync on G	Sync on G	– –	– –	YES*3	– –	YES	WIDE1	NO	28
	1152×870	75.1	68.7	Sync on G	Sync on G	– –	– –	YES	– –	YES	WIDE1	NO	39
	1440×900*9	60.0	56.0	NEG	NEG	YES	YES	– –	– –	YES	– –	YES	89
Work Station (EWS4800)*8	1280×1024	60.0	64.6	NEG	NEG	YES	YES	YES*4	– –	YES	– –	YES	29
		71.2	75.1	NEG	NEG	YES	YES	YES*4	– –	YES	– –	YES	48
Work Station(HP)*8	1280×1024	72.0	78.1	– –	– –	– –	– –	YES*4	– –	YES	– –	YES	59
Work Station (SUN)*8	1152×900	66.0	61.8	C Sync	C Sync	– –	– –	YES	– –	YES	– –	YES	60
		76.0	71.7	C Sync	C Sync	– –	– –	YES	– –	YES	– –	YES	61
	1280×1024	76.1	81.1	C Sync	C Sync	– –	– –	YES*4	– –	YES	– –	YES	30
Work Station (SGI)	1024×768	60.0	49.7	– –	– –	– –	– –	YES*3	– –	YES	– –	YES	62
	1280×1024	60.0	63.9	– –	– –	– –	– –	YES*4	– –	YES	– –	YES	29
IDC-3000G													
PAL625P	768×576	50.0	31.4	NEG	NEG	YES	YES	YES*7	– –	YES*7	– –	NO	31
NTSC525P	640×480	59.9	31.5	NEG	NEG	YES	YES	YES*7	– –	YES*7	MOTION	NO	32

English

*1 Only when using a graphic accelerator board that is capable of displaying 852×480.
*2 This signal is converted to a 1024 dots × 640 lines signal.
*3 The picture is displayed in the original resolution.
*4 The aspect ratio is 5:4. This signal is converted to a 960 dots×768 lines signal.
*5 Normally the RGB select mode suite for the input signals is set automatically. If the picture is not displayed properly, set the RGB mode prepared for the input signals listed in the table above.
*6 To connect the monitor to Macintosh computer, use the monitor adapter (D-Sub 15-pin) to your computer's video port.
*7 Other screen sizes (ZOOM and WIDE) are available as well.
*8 When viewing a moving picture at a vertical frequency greater than 65Hz, the picture may sometimes be unstable (jumpy). If this occurs, please set the refresh rate of the external equipment to 60Hz.
To view 480I@60Hz (480 interlaced lines, 60Hz refresh rate) or 576I@50Hz (567 interlaced lines, 50Hz refresh rate) when sync polarity is “Sync on Green”, set “RGB SELECT” to “MOTION”.
*9 CVT standard compliant.

NOTE:

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

What is HDCP/HDCP technology?
HDCP is an acronym for High-bandwidth Digital Content Protection. High bandwidth Digital Content Protection (HDCP) is a system for preventing illegal copying of video data sent over a Digital Visual Interface (DVI).
If you are unable to view material via the DVI input, this does not necessarily mean the PDP is not functioning properly. With the implementation of HDCP, there may be cases in which certain content is protected with HDCP and might not be displayed due to the decision/intention of the HDCP community (Digital Content Protection, LLC).

Table of Signals Supported

Troubleshooting

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

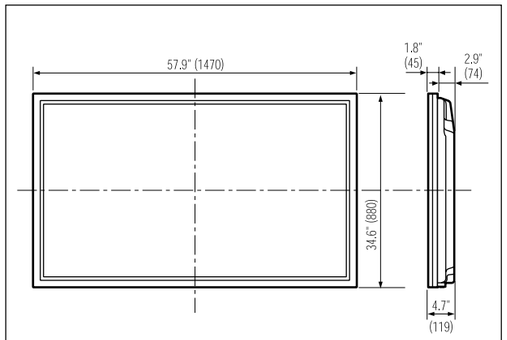
Symptom	Checks	Remedy
Mechanical sound is heard.	• Maybe the sound from the cooling fans used to prevent over heating.	
The unit emits a crackling sound.	• Are the image and sound normal?	• If there are no abnormalities in the image and sound, the noise is caused by the cabinet reacting to changes in temperature. This will not affect performance.
Picture is disturbed. Sound is noisy. Remote control operates erroneously.	• Is a connected component set directly in front or at the side of the display?	• Leave some space between the display and the connected components.
The remote control does not work.	• Are the remote control's batteries worn out?	• Replace both batteries with new ones.
	• 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 NO. SET button, or set the ID number to ALL.
Monitor's power does not turn on when the remote control's power button is pressed.	• Is the monitor's power cord plugged into a power outlet?	• Plug the monitor's power cord into a power outlet.
	• Are all the monitor's indicators off?	• Press the power button on the monitor to turn on the power.
	• Are the remote control's batteries worn out?	• Replace both batteries with new ones.
	• Is IR REMOTE set to OFF?	• Set IR REMOTE ON.
	• Has an ID number been set for the main unit?	• Set an ID number with the ID NO. SET 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 KEY Lock.	• Set the KEY Lock to OFF.
No sound or picture is produced.	• Is the monitor's power cord plugged into a power outlet?	• Plug the monitor's power cord into a power outlet.
Picture appears but no sound is produced.	• Is the volume set at the minimum?	• Increase the volume.
	• Is the MUTING mode set?	• Press the remote control's MUTING button.
	• Are the speakers properly connected?	• Connect the speakers properly.
	• Is AUDIO INPUT set correctly?	• Set AUDIO INPUT on the SOUND 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 RGB connector pin connections.	• Adjust picture controls as needed. Check pin assignments and connections.
Tint is poor or colors are weak.	• Are the tint and colors properly adjusted?	• Adjust the tint and color (under PICTURE).
Nothing appears on screen.	• Is the computer's power turned on?	• Turn on the computer's power.
	• Is a source connected?	• Connect source to the monitor.
	• Is the power management function in the standby or off mode?	• Operate the computer (move the mouse, etc.).
	• Is LOOP OUT set to ON?	• Set LOOP OUT OFF.
Part of picture is cut off or picture is not centered.	• Is the position adjustment appropriate?	• Adjust the SCREEN properly.
Image is too large or too small.	• Is the screen size adjustment appropriate?	• Press the SCREEN SIZE button on the remote control and adjust properly.
Picture is unstable.	• Is the computer's resolution setting appropriate?	• Set to the proper resolution.
STANDBY/ON indicator is lighted in red.	• Horizontal and / or vertical sync signal is not present when the Intelligent Power Manager control is on.	• Check the input signal.
STANDBY/ON 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.
STANDBY/ON indicator is blinking in green and red, or green.	————	• Prompty switch off the power of the main unit. See *2.

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

*2 In the following case, power off the monitor immediately and contact your dealer or authorized Service Center.
The monitor turns off 5 seconds after powering on and then the STANDBY/ON indicator blinks. It indicates that the power supply circuit, plasma display panel, temperature sensor, or one or more fans have been damaged.

Specifications

Screen Size	53.2"(H)×29.9"(V) inches 1351(H)×760(V) mm diagonal 61"
Aspect Ratio	16 : 9
Resolution	1365(H)×768(V) pixels
Signals	
Synchronization Range	Horizontal : 15.5 to 110 kHz (automatic : step scan) Vertical : 50.0 to 120 Hz (automatic : step scan)
Input Signals	RGB, NTSC (3.58/4.43), PAL (B,G,M,N), PAL60, SECAM, HD*1 , DVD*1 , DTV*1
Input Terminals (VIDEO1 and PC1 can also be used as OUTPUT terminals)	
PC	
Visual 1 (Analog)	mini D-sub 15-pin×1
Visual 2 (Analog)	BNC (R, G, B, H/CS, V)×1*2
Visual 3 (Digital)	DVI-D 24-pin×1*3
Video	
Visual 1	BNC×1
Visual 2	RCA-pin×1
Visual 3	S-Video: DIN 4-pin×1
COMPONENT	
Visual 1	RCA-pin (Y, PB[CB], PR[CR])×1*1
Visual 2	BNC (Y, PB[CB], PR[CR])×1*1, *2
Audio	Stereo RCA×3 (Selectable)
RS-232C	D-sub 9-pin×1
Sound output	9W+9W at 6 ohm
Power Supply	AC100-120V 50/60Hz
Current Rating	8.0A (maximum)
Power Consumption	540W (standby 0.9W)
Dimensions	57.9 (W)×34.7 (H)×4.7 (D) inches 1470 (W)×880 (H)×119(D) mm
Weight	134.5 lbs / 61.0 kg (without stand)
Environmental Considerations	
Operating Temperature	0°C to 40°C / 32°F to 104°F
Other Features	Motion compensated 3D Scan Converter (NTSC, PAL, 480I, 576I, 525I, 625I, 1035I, 1080I), 2-3 pull down Converter (NTSC, 480I, 525I, 1035I, 1080I (60Hz)), 2-2 pull down Converter (PAL, 576I, 625I, NTSC, 480I, 525I), Digital Zoom Function (100-900% Selectable), Video Wall 4-25 multi screen, Self Diagnosis, Image Burn reduction tools (ABL LOCK1~3, INVERSE, WHITE, ORBITER (Auto1,2/Manual), SCREEN WIPER), Color Temperature select (high/mid/mid low/low, user has 4 memories), Key lock (Except power SW), Auto Picture, Input Skip, Color Detail Adjustment, Low Tone (3 mode), Auto ID, Programmable Timer, Gamma Correction (4 mode), Loop through interface, Plug and play (DDC1, DDC2b, PC3: DDC2b only)



Units are in inch
(mm)

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

***1 COMPONENT input signals supported on this system**

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

***2 The 5-BNC connectors are used as PC2 and COMPONENT2 input. Select one of them under "BNC INPUT".**

***3 Compatible with HDCP.**

Supported Signals

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

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