

Model PD6120D User Guide

Plasma Monitor

Important Information

Precautions

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

4

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



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



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



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

WARNING

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

WARNING

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Warnings and Safety Precaution

The Marantz plasma monitor is designed and manufactured to provide long, trouble-free service. No maintenance other than cleaning is required. Use a soft dry cloth to clean the panel. Never use solvents such as alcohol or thinner to clean the panel surface.

The plasma display panel consists of fine picture elements (cells). Although Marantz produces the plasma display panels with more than 99.99 percent active cells, there may be some cells that do not produce light or remain lit.

For operating safety and to avoid damage to the unit, read carefully and observe the following instructions. To avoid shock and fire hazards:

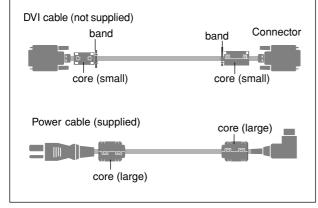
- Provide adequate space for ventilation to avoid internal heat build-up. Do not cover rear vents or install the unit in a closed cabinet or shelves.
 - The unit is equipped with cooling fans. If you install the unit in an enclosure, make sure there is adequate space at the top of the unit to allow hot 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 the monitor to cool for 60 minutes. If the problem persists, contact your Marantz dealer for service.
- Do not use the power cord 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 unit 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.
- Do not attempt to service or repair the unit. Marantz is not liable for any bodily harm or damage caused if unqualified persons attempt service or open the back cover. Refer all service to authorized Marantz Service Centers.

NOTE:

When you connect a computer to this monitor, attach the supplied ferrite cores. If you do not do this, this monitor will not comform 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 120V 50/60Hz AC power supply. Continued operation at line voltages greater than 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 unit and have it serviced by an authorized Marantz 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 Marantz 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.

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 Marantz 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.

Contact Marantz Service Center at 1-800-270-4533 for other recommended procedures that will best suit your particular application needs.

Précautions

Veuillez lire ce manuel avec attention avant d'utiliser votre moniteur Plasma Monitor Marantz et conserver ce manuel à portée de la main pour une consultation ultérieure.



ATTENTION

RISQUE D'ELECTROCUTION NE PAS OUVRIR



MISE EN GARDE: AFIN DE REDUIRE LES RISQUES D'ELECTRO-CUTION, NE PAS DEPOSER LE COUVERCLE, IL N'Y A AUCUNE PIECE UTILISABLE A L'INTERIEUR DE CET APPAREIL. NE CONFIER LES TRAVAUX D'ENTRETIEN QU'A UN PERSONNEL QUALIFIE.



Ce symbole a pour but de prévenir l'utilisateur de la présence d'une tension dangereuse, non isolée se trouvant à l'intérieur de l'appareil. Elle est d'une intensité suffisante pour constituer un risque d'électrocution. Eviter le contact avec les pièces à l'intérieur de cet appareil.



Ce symbole a pour but de prévenir l'utilisateur de la présence d'importantes instructions concernant l'entretien et le fonctionnement de cet appareil. Par conséquent, elles doivent être lues attentivement afin d'éviter des problèmes.

AVERTISSEMENT

AFIN DE REDUIRE LES RISQUES D'INCENDIE OU D'ELECTROCUTION, NE PAS EXPOSER CET APPAREIL A LA PLUIE OU A L'HUMIDITE. AUSSI, NE PAS UTILISER LA FICHE POLARISEE AVEC UN PROLONGATEUR OU UNE AUTRE PRISE DE COURANT SAUF SI CES LAMES PEUVENT ETRE INSEREES A FOND. NE PAS OUVRIR LE COFFRET, DES COMPOSANTS HAUTE TENSION SE TROUVENT A L'INTERIEUR. LAISSER A UN PERSONNEL QUALIFIE LE SOIN DE REPARER CET APPAREIL.

DOC avis de conformation

Cet appareil numérigue de la classe A respecte toutes les exigences du Réglement sur le Matériel Brouilleur du Canada.

Mises en garde et précautions de sécurité

Le moniteur Plasma Marantz a été conçu et fabriqué pour une utilisation fiable et durable. Il ne nécessite aucun entretien en dehors du nettoyage. Utiliser un chiffon doux et sec pour nettoyer la surface de l'écran. Ne jamais utiliser de solvant comme l'alcool ou le diluant. Le panneau à affichage plasma est constitué de fines particules d'images ou pixels (cellules). Bien que Marantz produise des panneaux à affichage plasma avec plus de 99,99 % de cellules actives, il peut y avoir des cellules qui ne produisent pas de lumière ou qui restent allumées.

Pour des raisons de sécurité et pour éviter d'endommager l'appareil, lire attentivement les instructions suivantes.

Pour éviter les risques d'éléctrocution et d'incendie:

- Laisser suffisament d'espace autour de l'appareil pour la ventilation et éviter toute augmentation excessive de la température interne. Ne pas couvrir les évents ou l'installer dans un endroit trop exigu.
 - L'appareil est équipé de ventilateurs de refroidissement. Si vous installez l'appareil dans un espace clos, assurezvous qu'il y ait suffisamment d'espace au dessus pour permettre à l'air chaud de s'élever et de s'évacuer. Si la température du moniteur devient excessive, la protection contre les surchauffes entrera en action et coupera l'alimentation. Dans ce cas, éteindre l'appareil et débrancher le câble d'alimentation. Si la température de la pièce dans laquelle le moniteur est installé est particulièrement excessive, déplacer l'appareil dans un endroit plus frais et le laisser refroidir 60 minutes. Si le problème persiste, prendre contact avec le revendeur Marantz pour le service après-vente.
- 2. Ne pas utiliser la fiche polarisée du cordon d'alimentation avec des prolongateurs ou des prises de courant, sauf si les lames peuvent être insérées à fond.
- 3. Ne pas exposer à L'eau ou à l'humidité.
- 4. Eviter d'endommager le cordon d'alimentation, et ne pas modifier le cordon d'alimentation.
- 5. Débrancher l'appareil pendant les tempêtes ou si l'appareil n'est pas utilisé pendant une longue période.
- 6. Ne pas ouvrir le coffret. Des composants de haute tension se trouvent à l'intérieur. Si l'appareil est endommagé de cette manière, la garantie devient caduque. De plus, il y a risque d'électrocution.
- 7. Ne pas essayer de réparer ou entretenir l'appareil soimême. Marantz ne saura être tenu pour responsable pour toute blessure ou dommage causé par des personnes non qualifiées qui essayent de réparer ou d'ouvrir le couvercle arrière. Confier toute réparation à un centre de service agréé Marantz.

REMARQUE:

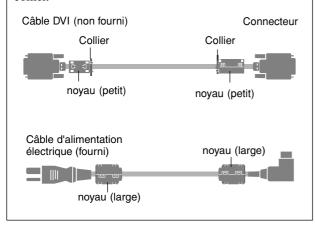
Lorsque vous branchez un micro-ordinateur sur ce moniteur, fixez les noyaux en ferrites fournis. Si vous ne le faîtes, le moniteur ne sera pas en conformité avec les exigences des standards FCC.

Fixation des noyaux en ferrite.

Monter les tores en ferrite aux deux extrêmités du câble DVI (non fourni) et aux deux extrêmités du câble d'alimentation électrique (fourni).

Fermez doucement le couvercle jusqu'à ce que les crans se clipsent.

Fixer le tore en ferrite (fourni) au câble DVI à l'aide d'un collier.



Pour éviter des dommages et prolonger la durée de service de l'appareil:

- N'utiliser qu'une source d'alimentation de 120 V 50/ 60 Hz CA. Le fait d'utiliser l'appareil en continu à des tensions de ligne supérieures à 120 Volts CA réduit sa durée de vie et risque de provoquer un incendie.
- 2. Manipuler l'appareil avec soin pendant son déplacement et ne pas le faire tomber.
- 3. Eloigner l'appareil des endroits chauds, très poussiéreux et exposés en plein soleil.
- Eviter que des liquides et des petits objets métalliques pénètrent à l'intérieur de l'appareil. En cas d'accident, débrancher l'appareil et le confier à un centre de service agréé Marantz.
- Ne pas frapper ou rayer la surface de la écran plasma, car des défauts risquent de se produire sur la surface de la écran plasma.
- 6. Pour effectuer une installation et un montage corrects, il est recommandé de faire appel au concessionnaire Marantz autorisé et spécialisé.
- 7. Comme c'est le cas pour tout affichage à base de phosphore (comme un moniteur CRT, par exemple), la puissance de lumière baisse graduellement au cours de la vie du Panneau d'Affichage à Plasma.

Pour éviter le risque de combustion au phosphore, les mesures suivantes sont recommandées :

Comme tous les appareils d'affichage à base de phosphore et tous les autres affichages à gaz plasma, les moniteurs Plasma peuvent être sujets à la combustion au phosphore dans certaines circonsatnces. Certaines conditions d'utilisation, telles que l'affichage continu d'une image statique pour une durée prolongée, peuvent causer des brûlures au phophore si aucune précaution n'est prise. Pour protéger votre investissement dans ce moniteur Plasma Marantz, veuillez suivre les directives et les recommandations suivantes pour minimiser l'occurence de brûlure d'image :

- Assurez-vous de mettre en marche et d'utliser l'économisateur d'écran chaque fois que c'est possible lorsque vous l'utilisez avec une source d'entrée d'ordinateur.
- Affichez une image en mouvement aussi souvent que possible.
- Changer la position de l'affichage de menu de temps à autre.
- Coupez toujours l'alimentation lorsque vous avez terminé d'utiliser la moniteur.

Si le moniteur est en usage continu ou longue durée, prenez les mesures suivantes afin d'éviter l'occurence de combustion au phosphore :

- Abaissez le niveau de l'image (contraste, luminosité) autant que possible, sans faire perdre la lisibilité de l'image.
- Affichez une image avec de nombreuses couleurs et graduations de couleur (par ex. des images photographiques ou photo-réalistes).
- Créez un contenu d'image avec un contraste minimal entre les zones sombres et les zones claires, par exemple, des caractères blancs sur un fond noir. Utilisez des couleurs complémentaires ou pastels le plus souvent possible.
- Évitez d'afficher des images avec peu de couleurs et des limites nettes et clairement définies entre les couleurs.

Contactez Marantz Service Center au 1-800-270-4533 pour d'autres procédures recommandées qui conviendront le mieux au besoin de votre appareil.

marantz

Limited Warranty for the Marantz SLIM SERIES PLASMA MONITOR

Who is covered?

You must have proof of purchase to receive warranty service.

What is covered?

- 1) Warranty coverage begins the day you purchase your Plasma Television, and continues for a period of one year.
- 2) Marantz America will provide in-home warranty repair.
- 3) Marantz America will incur all labor charges for repairs during the warranty period.
- Marantz America will incur all freight charges for warranty repairs, both to Marantz and the return to the customer.
 - We suggest keeping all packing materials for any shipping that might be required.
- 5) All parts, including repaired and replaced parts are covered only for the original warranty period.

When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

What is excluded?

Your warranty does not cover:

- Labor charges for installation or setup of the product, cleaning, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- 2) Improper installation, removal or maintenance, or failure to follow instructions supplied with the product.
- 3) Reception problems caused by signal conditions from cable or antenna systems outside the product.
- Repair, attempted repair or modification performed by anyone other than an authorized Marantz America service center.
- 5) Any product, on which the serial number has been defaced, modified or removed.
- 6) Warranty is void if purchase was made from anyone other than an authorized Marantz dealer.
- 7) Warranty is void if purchased from outside The United States of America.
- 8) Warranty only valid in the United States of America.
- Damage due to lightning or power line surges, spikes and brown outs, damages that occur during shipping or transit, or damage which is attributed to acts of God.

- 10) Incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.)
- 11) Commercial or institutional use.
- 12) Any other cause which does not relate to product defect.
- 13) Burns or residual images upon the phosphor of the tubes.

Note: Pixel defect

Plasma is one of the most advanced technologies for consumer products. The panel is made by high precision technology, however some pixel defects may be found on the Plasma display panel. We are trying our best to control the quality in order to reduce the number of defective pixels. It is almost impossible to have zero pixel defects, even using the most advanced technology. This is not a problem only for Marantz, but all Plasma manufacturers. Therefore we have to note that the warranty does not cover the Plasma display panel for pixel defects. We appreciate your understanding.

Before requesting service:

Please check your owner's manual before requesting service. Adjustments of the controls and hook up guidelines discussed there may save you a service call.

To get warranty service:

Repair must be performed by an authorized service center. If you do not know of a Marantz authorized Plasma Television service center, contact your dealer. If your dealer is an authorized service center, they will arrange for repair. If your dealer is not a Marantz authorized Plasma Television service center, they will direct you to an authorized service center. You can also call 1-800-270-4533 for an authorized Marantz service center in your area.

Optimum performance:

For optimum performance and picture quality, the Plasma monitor is only guaranteed up to 6,230 feet above see level.

Marantz America, Inc.

1100 Maplewood Drive Itasca, IL 60143

Tel. 630-741-0300 Fax. 630-741-0301

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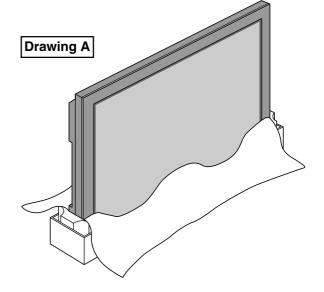
How to Attach Options to the Plasma Monitor

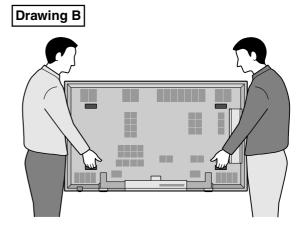
You can attach your optional mounts or stand to the plasma monitor in the following way:

- * Unpack the plasma monitor. (See Drawing A.)
- * Take it out, put your hand in the handy-grip recess at the rear, and move it to an appropriate place. Then attach the optional mounts or stand. (See Drawing B.)
 - 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 2.
 - For correct installation and mounting it is strongly recommended to use a trained, authorized Marantz dealer.

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

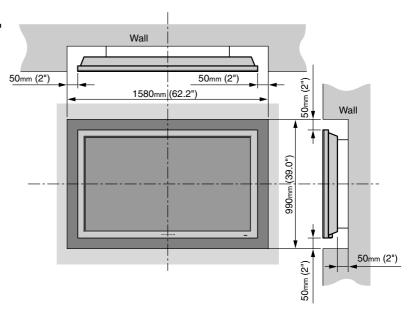
Product warranty does not cover damage caused by improper installation.





Ventilation Requirements for enclosure mounting

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



Introduction

Introduction to the Plasma Monitor

The Plasma Monitor is a seamless blend of cutting-edge visual technology and sophisticated design. At 61-inches, with a 16:9 aspect ratio, the Plasma Monitor certainly makes a big impression. However, at a mere 4.7 inches/119 mm thin, the monitor's sleek techno-art lines blend in well with your environment. The Plasma Monitor's crisp, vivid image quality will transform data from any graphic medium from PCs to DVD players- into art. And weighing only 134.5 lbs/ 61 kg, it actually can be hung almost anywhere. Marantz has made sure that a host of multimedia resources can be easily connected and displayed as brilliantly as intended on the Plasma Monitor.

The features you'll enjoy include:

- 61-inch screen
- 16:9 aspect ratio
- · Capsulated Color Filter (CCF) and black matrix
- The enhanced display in red uses a two-stage filtering system where AccucrimsonTM is combined with our special CCF.
- 4.7 inch / 119 mm thin
- 134.5 lbs/61 kg light
- High-resolution screen: 1365×768 pixels
- 160-degrees of off-axis viewing, horizontally and vertically.
- Flicker and warp free display provides excellent image geometry even in screen corners
- Not affected by magnetic fields, no color drift or edge distortion.
- VGA, SVGA, XGA, SXGA, computer signal compatibility
- NTSC, PAL, SECAM, composite and S-Video signal compatibility
- 480P, 1080I, 720P and HDTV signal compatibility
- PCs, VCRs, Laser Disc and DVD player source compatibility
- AccuBlendTM scan conversion automatically converts VGA, SVGA and SXGA signals to the panel's native resolution
- Advanced Mass Area Sampling Progressive Scan method is employed.
- RGB input (3*), Video input (3), DVD/HD input (2*), Audio input (3), External Control input (1)
- AccuColor control system provides user selectable onscreen color temperature settings
- · New Drive Technology
- Component video input terminal for DVD, 15.75kHz (Y, CB, CR)
- · Digital broadcasting source compatibitly
- Marantz OSD menu-driven on screen control system that makes image adjustments a snap
- Seven languages (English, German, French, Italian, Spanish, Swedish, and Japanese)
- A handy-grip recess is provided to facilitate installation and movement.

* You can select RGB source or Component source for the 5BNC terminal. When selecting an RGB input, the source is switched to the RGB input (3); when selecting a component input, the source is switched to the DVD/ HD input (2).

Contents of the Package

_ SERVI SERIES I lasina Monitor
☐ Power cord
☐ Remote control with two AAA Batteries
☐ User's manual
☐ Safety metal fittings*
\square Ferrite core (small \times 2, large \times 2), band

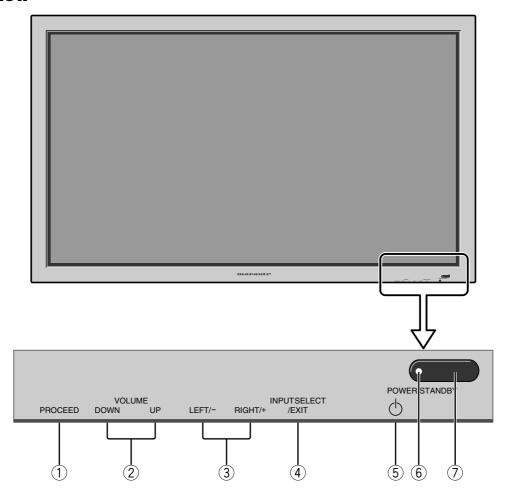
* These are fittings for fastening the unit to a wall to prevent tipping due to external shock when using the stand (option). Screw the safety fittings to the holes in the back of the monitor.

Options

- Wall mount unit
- · Tabletop stand

Part Names and Function

Front View



1)PROCEED

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

② VOLUME DOWN and UP

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

③ LEFT/- and RIGHT/+

Enlarges or reduces the image. Functions as the CURSOR $(\blacktriangleleft/\blacktriangleright)$ buttons in the On-Screen Menu (OSM) mode.

4 INPUT SELECT / EXIT

Switches the input, in the following order:

$$\xrightarrow{\text{VIDEO1}} \rightarrow \text{VIDEO2} \rightarrow \text{VIDEO3} \rightarrow \text{DVD/HD} - \\ \text{RGB/PC3} \leftarrow \text{RGB/PC2} \leftarrow \text{RGB/PC1} \leftarrow \\ \xrightarrow{\text{RGB/PC3}} \leftarrow \\ \xrightarrow$$

Functions as the EXIT buttons in the On-Screen Menu (OSM) mode.

(5) Power

Turns the monitor's power on and off.

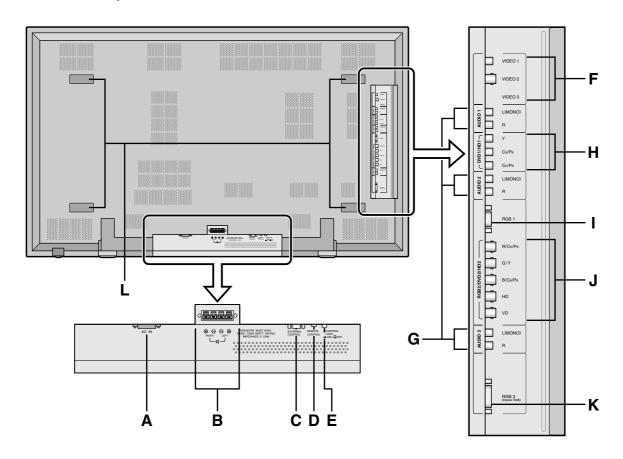
6 POWER/STANDBY indicator

When the power is on Lights green. When the power is in the standby mode ... Lights red.

7 Remote sensor window

Receives the signals from the remote control.

Rear View/ Terminal Board



A AC IN

Connect the included power cord here.

B EXT SPEAKER L and R

Connect speakers here. Maintain the correct polarity.

C EXTERNAL CONTROL

This terminal is used when power ON/OFF, input selection and AUDIO MUTE and other controls are operated externally (by external control). See also page 39 for external control.

D REMOTE CONTROL

Connect the remote cable here.

E CONTROL LOCK

When "CONTROL LOCK" is set "ON", the buttons on the set's control panel do not function.

F VIDEO1, 2, 3

Connect VCR's, DVD's or Laser Discs, etc. here.

G AUDIO1, AUDIO2, AUDIO3

These are audio input terminals.

The input is selectable. Set which video image to allot them to on the menu screen.

H DVD1/HD1

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

I RGB1

Inputs the analog RGB signal of personal computer, etc.

J RGB2/ DVD2/ HD2

RGB2: Inputs the analog RGB signal.

DVD2/ HD2: Connect DVD's, High Definition or Laser Discs, etc. here.

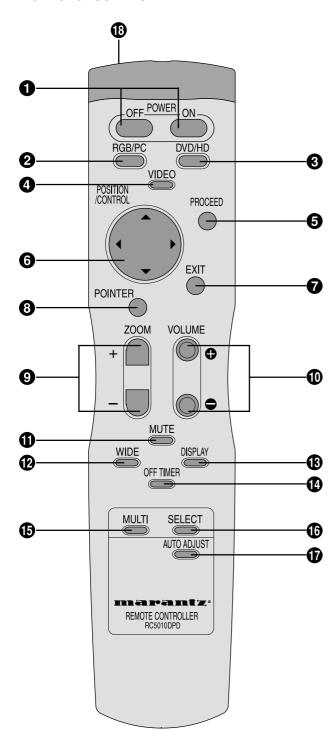
K RGB3 (DVI 29pin)

Inputs a digital RGB signal (TMDS).

L Handy-Grip recess

Use the recesses (as shown) when you need to carry the display.

Remote Control



1 POWER ON/OFF

Switches Power ON/OFF.

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

2 RGB/PC

Press this button to select RGB/PC as the source.

```
\xrightarrow{} \mathsf{RGB/PC1} \to \mathsf{RGB/PC2} \to \mathsf{RGB/PC3} -
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RGB/PC can also be selected using the INPUT SELECT button on the monitor. The input switches as follows each time the button is pressed:

```
\rightarrow VIDEO1 \rightarrow VIDEO2\rightarrow VIDEO3\rightarrow DVD/HD\rightarrow RGB/PC3 \leftarrow RGB/PC2 \leftarrow RGB/PC1 \leftarrow
```

3 DVD/HD

Press this button to select DVD/HD as the source. DVD/HD can also be selected using the INPUT SELECT button on the monitor. The input switches as follows each time the button is pressed:

4 VIDEO

Press this button to select VIDEO as the source.

```
\stackrel{\textstyle \rightarrow}{ } {\sf VIDEO1} \rightarrow {\sf VIDEO2} \rightarrow {\sf VIDEO3} \  \  \, \cdots
```

VIDEO can also be selected using the INPUT SELECT button on the monitor. The input switches as follows each time the button is pressed:

```
\rightarrow VIDEO1 \rightarrow VIDEO2\rightarrow VIDEO3\rightarrow DVD/HD \rightarrow RGB/PC3 \leftarrow RGB/PC2 \leftarrow RGB/PC1 \leftarrow
```

5 PROCEED

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

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

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

7 EXIT

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

8 POINTER

Press this button to display the pointer.

9 ZOOM (+ /-)

Enlarges or reduces the image.

1 VOLUME (+ /-)

Adjusts the volume.

M MUTE

Mutes the sound.

WIDE

The type of broadcast is detected automatically, and the recommended wide screen is set.

(B) DISPLAY

Displays the source settings on the screen.

OFF TIMER

Activates the off timer for the unit.

6 MULTI

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

6 SELECT

Press this button to select the active picture in a multi screen mode.

1 AUTO ADJUST

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

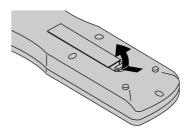
13 Remote control signal transmitter

Transmits the remote control signals.

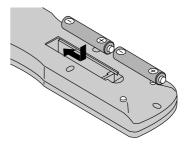
Battery Installation and Replacement

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

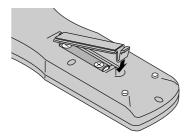
1. Press and open the cover.



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

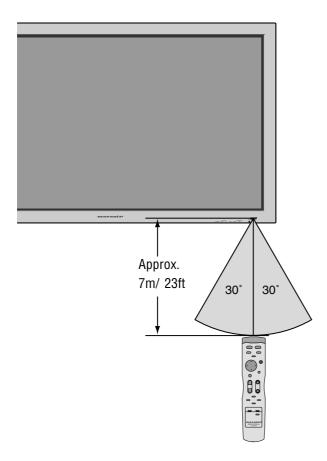


3.Replace the cover.



Operating Range

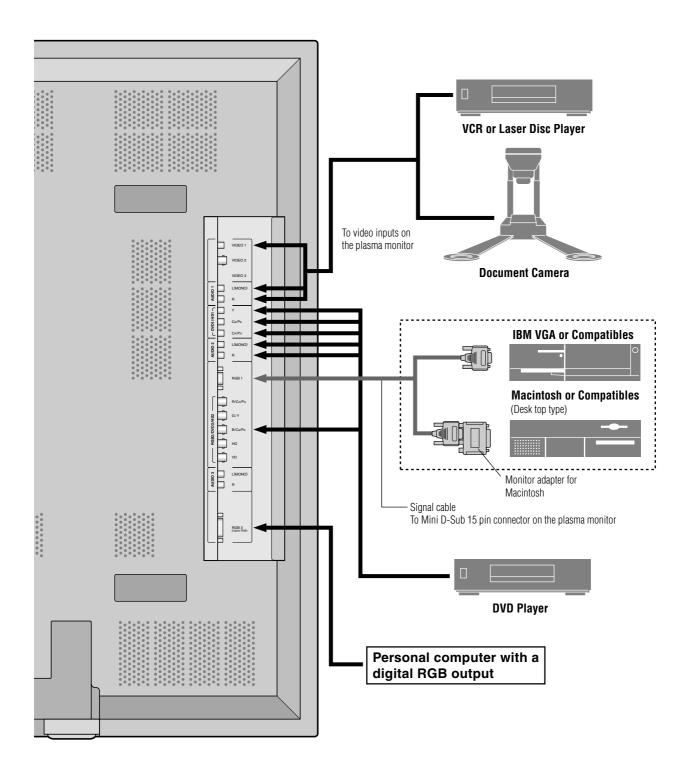
- * Use the remote control within a distance of about 7 m/23ft. from the front of the monitor's remote control sensor and at horizontal and vertical angles of up to approximately 30°.
- * The remote control operation may not function if the monitor's remote control sensor is exposed to direct sunlight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

Installation



Connecting Your PC or Macintosh Computer

Connecting your PC or Macintosh computer to your plasma monitor will enable you to display your computer's screen image for an impressive presentation. The plasma monitor supports the signals described on page 47.

To connect a PC, Macintosh or compatible graphics adapter, simply:

- 1. Turn off the power to your plasma monitor and computer.
- 2. If your PC does not support XGA/SVGA/VGA you will need to install an XGA/SVGA/VGA graphics board. Consult your computer's owner's manual for your XGA/ SVGA/VGA configuration. If you need to install a new board, see the manual that comes with your new graphics board for installation instructions.
- 3. The plasma monitor provides signal compatibility up to VESA 1600×1200 (UXGA). However, it is not recommended to use this resolution due to image readability on the monitors 1365×768 native pixel resolution panel.
- 4. Use the signal cable to connect your PC or Macintosh computer to the plasma monitor. For Macintosh, use the monitor adapter to connect to your computer's video port.
- 5. Turn on the plasma monitor and the computer.
- 6. If the plasma monitor goes blank after a period of inactivity, it may be caused by a screen saver installed on the computer you've connected to the plasma monitor.

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

13" fixed mode

16" fixed mode

19" fixed mode

21" fixed mode

The 19" fixed mode is recommended for the plasma monitor.

Connections with Equipment that has a Digital Interface

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

* Use a DVI 29-pin signal cable and the ferrite cores (supplied) when making connections to the RGB3 IN (DVI) connector of the main unit.

Note that the RGB3 IN(DVI) terminal does not support analog RGB input source.

Note:

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

Connecting Your Document Camera

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

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

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

Connecting Your VCR or Laser Disc Player

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

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

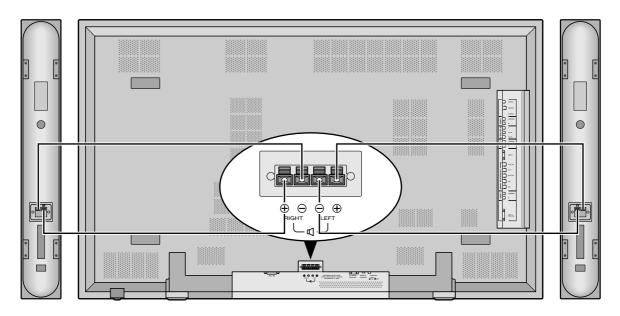
Note: Refer to your VCR or laser disc player owner's manual for more information about your equipment's video output requirements.

Connecting Your DVD Player

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

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

External Speaker Connections



External speakers may be connected to the plasma monitor to reproduce sound from VIDEO, DVD or RGB signal sources.

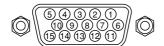
External speakers may be connected directly to the SPEAKERS terminals or indirectly by connecting a stereo system amplifier to the audio outputs.

CAUTION: Unplug the plasma monitor and all connected components before connecting external speakers. Use only speakers with 6-ohm impedance and a power input rating of 7 watts or more.

To connect external speakers directly to the plasma monitor:

- 1. Strip the ends of the speaker wires.
- 2. Press down the tabs below the SPEAKERS terminals, insert the speaker wire and release the tab to secure the speaker wire connection:
 - [a] Connect the right speaker (located at right side of the monitor when viewed from the front) positive (+) wire to RIGHT +.
 - [b] Connect the right speaker negative (-) wire to RIGHT -.
 - [c] Connect the left speaker negative (-) wire to
 - [d] Connect the left speaker positive (+) wire to LEFT+.

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



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

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

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

RGB 3



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

Basic Operations

POWER

To turn the unit ON and OFF:

- 1. Plug the power cord into an active AC power outlet.
- 2. Press the POWER ON button (on the remote control) to turn on the unit.

The monitor's POWER/STANDBY indicator will light up (green) when the unit is on.

3. Press the POWER OFF button (on the remote control or the unit) to turn off the unit.

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

VOLUME

To adjust the 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 \bigcirc button (on the remote control or the unit) to decrease to the desired level.

MUTE

To cancel the sound:

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

DISPLAY

To check the settings:

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

DIGITAL ZOOM

Digital zoom specifies the picture position and enlarges the picture.

1. Press the POINTER button to display the pointer. ()

To change the size of the picture:

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

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

To change the picture position:

Select the position with the $\triangle \nabla \blacktriangleleft \triangleright$ buttons.

2. Press the POINTER button to delete the pointer.

AUTO ADJUST

To adjust the size or quality of the picture automatically:

Press the AUTO ADJUST button.

Information

■ AUTO ADJUST ON setting

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

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

is selected The screen size switches to ZOOM mode automatically with the superimposed caption displayed fully only when the picture contains dark areas above and below the picture.

OFF TIMER

To set the off timer:

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

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



To check the remaining time:

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



To cancel the off timer:

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

☐ OFF TIMER0

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

Watching with a wide screen (manual)

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

When watching videos or digital video discs

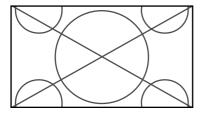
- 1. Press the WIDE button on the remote control.
- 2. Within 3 seconds ...

Press the WIDE button again.

The screen size switches as follows:

 $\overset{\textstyle \rightarrow}{ } \textbf{ZOOM} \rightarrow \textbf{NORMAL} \rightarrow \textbf{FULL} \rightarrow \textbf{STADIUM} -$

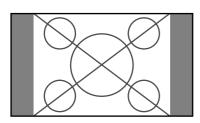
ZOOM size screen



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

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

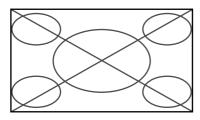
NORMAL size screen (4:3)



The normal size screen is displayed.

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

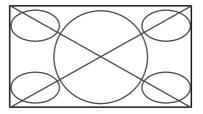
FULL size screen



The image is expanded in the horizontal direction.

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

STADIUM size screen



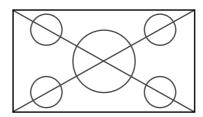
The picture is expanded in the horizontal and vertical directions at different ratios.

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

When watching high definition video source

1. Press the WIDE button on the remote control.

FULL size screen (16:9)



The full size screen is displayed.

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

Watching computer images with a wide screen

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

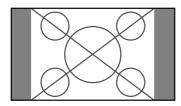
- 1. Press the WIDE button on the remote control.
- 2. Within 3 seconds ...

Press the WIDE button again.

The screen size switches as follows:

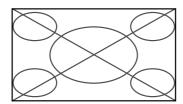
ightarrow NORMAL ightarrow FULL -

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



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

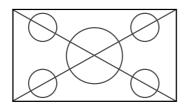
FULL size screen



The image is expanded in the horizontal direction.

When wide signals are input.

FULL size screen

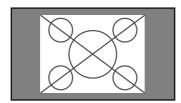


When "PICTURE SIZE" is set to "OFF"

The screen size switches as follows:

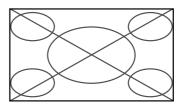
ightarrow TRUE ightarrow FULL ightarrow

TRUE size screen (VGA, SVGA 4:3)



The image is true resolution.

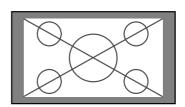
FULL size screen



The image is expanded in the horizontal and vertical direction.

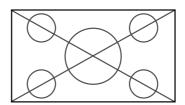
When wide signals are input.

TRUE



The image is true resolution.

FULL



Information

■ Supported resolution

See page 47 for details on the display output of the various VESA signal standards supported by the monitor.

■ "PICTURE SIZE" setting

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

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

Select an appropriate setting for RGB SELECT mode referring to the "Table of Signals Supported" on page 47.

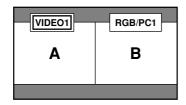
* "IBM PC/AT" and "VGA" are registered trademarks of IBM, Inc. of the United States.

MULTI SCREEN Operations

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

- * An RGB-input picture may not be displayed in these modes, depending on the input signal specifications.
- 1. Press the MULTI button to select a screen mode from among single mode, side by side, and picture in picture.

Side by side 1

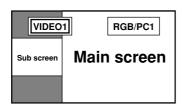


Press the cursor buttons $\blacktriangleleft \triangleright$ on the remote control to switch either side by side 1 (with \triangleright) or side by side 2 (with \blacktriangleleft).

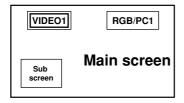
Note:

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

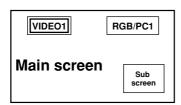
Side by side 2



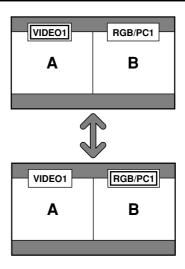
Picture in picture



Press the cursor buttons ◀▶ on the remote control to switch the position of the sub screen.



2. If you wish to switch the setting of the picture, press the SELECT button to make the desired picture active. Each press of the SELECT button changes the selection of the active picture.



Selecting the input signals to be displayed

- Press the SELECT button to make the desired picture active.
- Press the RGB/PC, VIDEO, or DVD/HD button. Each press of the button changes the selection of the input signal.

The INPUT SELECT button on the monitor can also be used to change the selection.

Adjusting the OSM controls

- 1. Press the PROCEED button to display the MAIN MENU.
- 2. Adjust the setting to your preference. For details, see "OSM (On Screen Menu) Controls" on page 17.

Note

During multi mode, Auto Adjust does not affect the screen.

Information

■ Positioning on the screen (for side by side)

Depending on the input-signal selection, positioning of the picture is settled as follows.

Pictures displayed

on the left VIDEO1, VIDEO2, VIDEO3, HD1/

DVD1/DTV1, or HD2/DVD2/ DTV2

Pictures displayed

on the right RGB/PC1, RGB/PC2, RGB/PC3

■ Positioning on the screen (for picture in picture)

Pictures displayed

Main screen RGB/PC1, RGB/PC2, RGB/PC3

Sub screen VIDEO1, VIDEO 2, VIDEO 3,

HD 1/DVD 1/DTV 1, or HD 2/

DVD 2/DTV 2

■ Multi screen operations may not function depending on the type of the RGB signals.

OSM(On Screen Menu) Controls

Menu Operations

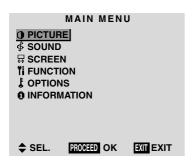
The OSM window is displayed with respect to the screen as shown on the diagram.

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

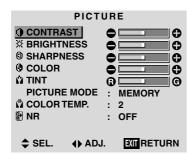


The following describes how to use the menus and the selected items.

1. Press the PROCEED 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 PROCEED button on the remote control to select a submenu or item.



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

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

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

Main menu	Sub menu	Functions	Default	Reset
PICTURE	CONTRAST	Adjusts the contrast.	Center	Yes
	BRIGHTNESS	Adjusts the brightness.	Center	Yes
	SHARPNESS	Adjusts the sharpness.	Center	Yes
	COLOR TINT	Adjusts the color.	Center	Yes
	PICTURE MODE	Adjusts the tint. Sets the picture mode according to the VIDEO environment and	Center MEMORY	Yes Yes
		image software.		
	COLOR TEMP	Adjusts the color temperature and white balance.	2*1	Yes
	NR	Reduces noise visible in image.	OFF	Yes
Main menu	Sub menu	Functions	Default	Reset
SOUND	BASS	Sets the bass.	Center	Yes
	TREBLE	Sets the treble.	Center	Yes
	BALANCE	Sets the left/right balance.	Center	Yes
Main menu	Sub menu	Functions	Default	Reset
SCREEN	V-POSITION	Adjusts the vertical position.	Center	Yes
SUNEEN	H-POSITION	Adjusts the vertical position. Adjusts the horizontal position.	Center	Yes
	V-HEIGHT	Adjusts the vertical size.	Min	Yes
	H-WIDTH	Adjusts the horizontal size.	Min	Yes
	AUTO PICTURE	Turn this on to have the monitor automatically adjust "FINE PICTURE"		No
	NOTOTIOTORE	and "PICTURE ADJ".	011	140
	FINE PICTURE	Adjusts for flickering on the computer image.	Min*1	Yes
	PICTURE ADJ.	Adjusts for striped patterns on the computer image.	Center*1	Yes
Main menu	Sub menu	Functions	Default	Reset
FUNCTION	OSM	Turns the on-screen menu (screen mode, etc.) off (when set to "OFF"). When set to "ON", the on-screen menu is displayed.	ON	Yes
	OSM ADJ.	Adjusts the vertical and horizontal positions of the menu display.	1	Yes
	POWER MGT	Sets the monitor for use as an energy-saving display when used with computer.	a OFF	Yes
	GRAY LEVEL	In case of 4 : 3, sets the luminance of both sides.	3	Yes
	CINEMA MODE	Sets the picture to suit the movie.	ON	Yes
	RGB3 ADJ.	Adjusts the picture when the picture input from the RGB3 input terminal is distorted.	1	Yes
	LONG LIFE	Sets the picture to reduce burn-in of the display.	*2	Yes
	RESET	Resets all the settings (PICTURE, SOUND, SCREEN, FUNCTION,	_	_
		etc.) to the factory default values.		
Main menu	Sub menu	Functions	Default	Reset
OPTION	AUDIO INPUT	Sets the allocation of the audio connectors.	*3	Yes
.	BNC SELECT	Sets the BNC connectors.	RGB	Yes
	RGB SELECT	Sets the appropriate mode for the computer image.	AUTO	Yes
		RGB (VGA signals), VIDEO (Moving picture), WIDE (WIDE VGA) DTV.		
	HD SELECT	Sets the digital broadcasting (1080A,1080B) or the High Vision (1035I)	. 1080B	No
	PICTURE SIZE	Sets the picture size for RGB input.	ON	Yes
Main menu	Sub menu	Functions	Default	Reset
NFORMATION	FREQUENCY	Used to check the frequency and synchronizing polarities of the signa		
INI OLINIATION	INLQULINUI	currently being inputted.	. —	
	LANGUAGE	Sets the language of the menus (Japanese, English, German, French,	English	No
	COLOR SYSTEM	Swedish, Italian or Spanish). Sets the VIDEO format (AUTO1, AUTO2, PAL, PAL-M, PAL-N, PAL60,	AUTO1	No
		SECAM, 4.43 NTSC or 3.58 NTSC).	-	-

^{*1} RGB/PC only.
*2 PLE: AUTO ORBITER: OFF INVERSE: OFF
*3 AUDIO1: VIDEO1 AUDIO2: HD/DVD1 AUDIO3: RGB1

Picture Settings Menu

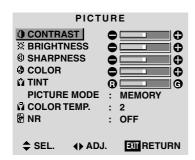
Adjusting the picture

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

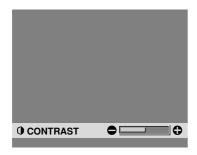
Example: Adjusting the contrast

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

- 1. Use the ▲ and ▼ buttons to select "PICTURE", then press the PROCEED button. The "PICTURE" screen appears.
- 2. Use the ▲ and ▼ buttons to select "CONTRAST".



3. Use the \triangleleft and \triangleright buttons to adjust the contrast.



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

4. Once the adjustment is completed ...

Press the EXIT button to return to the main menu.

To delete the main menu, press the EXIT button once more.

Note: If "CAN NOT ADJUST" appears ... When trying to enter the PICTURE submenu, make sure PICTURE MODE is set to MEMORY.

Information

■ Picture adjustment screen

CONTRAST Changes the picture's contrast.

BRIGHTNESS. Changes the picture's brightness.

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 "RESET" under the "PICTURE MODE" settings.

Setting the picture mode according to the brightness of the room

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

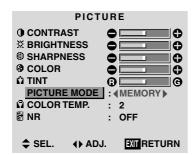
Example: Setting the "THEATER" mode

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

1. Use the ▲ and ▼ buttons to select "PICTURE", then press the PROCEED button.

The "PICTURE" screen appears.

2. Use the ▲ and ▼ buttons to select "PICTURE MODE".

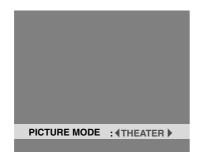


3. To set to "THEATER" ...

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

The mode switches as follows when the \triangleleft and \blacktriangleright buttons are pressed:

ightarrow MEMORY \leftrightarrow THEATER \leftrightarrow NORMAL \leftrightarrow RESET \leftarrow



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

4. Once the adjustment is completed ...

Press the EXIT button to return to the main menu. To delete the main menu, press the EXIT button once more.

Information ■ Types of picture modes MEMORY The last picture adjustments are stored here. THEATER Set this mode when watching video in a dark room. This mode provides darker, finer pictures, like the screen in movie theaters. CONTRAST = 80% for RESET mode BRIGHTNESS = 95% for RESET mode NORMAL Set this mode when watching video in a bright room. This mode provides dynamic pictures with distinct differences between light and dark sections. CONTRAST = 96% for RESET mode RESET Use this to reset the picture to the

factory default settings.

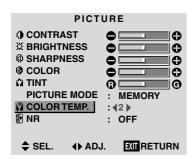
Setting the color temperature

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

Example: Setting "1"

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

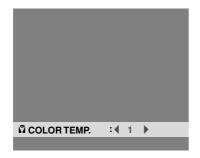
- Use the ▲ and ▼ buttons to select "PICTURE", then press the PROCEED button.
 The "PICTURE" screen appears.
- 2. Use the ▲ and ▼ buttons to select "COLOR TEMP.".



3. Use the ◀ and ▶ buttons to select "1".

The mode switches as follows when the \triangleleft and \triangleright buttons are pressed:

* See page 22 to set "PRO".



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

4. Once the setting is completed...

Press the EXIT button to return to the main menu.

To delete the main menu, press the EXIT button once more.

Information

■ Setting the color temperature

1High (bluer)

3Low (redder)

- 2..... Middle (Standard)
- Restoring the factory default settings

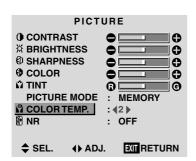
Adjusting the color to the desired quality

Use this procedure to adjust the white balance for bright pictures and dark pictures to achieve the desired color quality.

Example: Adjusting the "WHITE BALANCE"

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

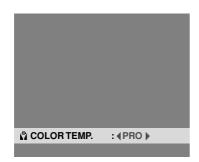
- Use the ▲ and ▼ buttons to select "PICTURE", then press the PROCEED button.
 The "PICTURE" screen appears.
- 2. Use the ▲ and ▼ buttons to select "COLOR TEMP.".



3. Use the ◀ and ▶ buttons to select "PRO".

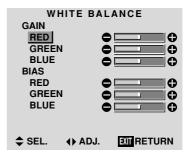
The mode switches as follows when the \triangleleft and \triangleright buttons are pressed:

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

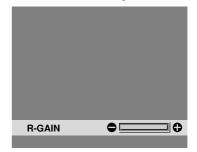


* If neither the ◀ or ▶ button is pressed within 5 seconds, the current selection is set and the previous screen reappears.

- 4. Press the PROCEED button.
 The "WHITE BALANCE" screen appears.
- 5. Use the \triangle and ∇ buttons to select "RED-GAIN".



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



- * If neither the ◀ or ▶ button is pressed within 5 seconds, the current setting is set and the previous screen reappears.
- 7. *Once the adjustment is completed...*Press the EXIT button to return to the main menu. To delete the main menu, press the EXIT button once more.

Information

■ Adjusting the white balance

RGB-GAIN White balance adjustment for signal level

RGB-BIAS White balance adjustment for black level

■ Restoring the factory default settings

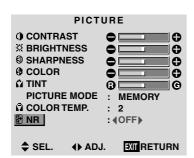
Reducing noise in the picture

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

Example: Setting "NR-3"

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

- Use the ▲ and ▼ buttons to select "PICTURE", then press the PROCEED button.
 The "PICTURE" screen appears.
- 2. Use the \triangle and ∇ buttons to select "NR".



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

$$\rightarrow \mathsf{OFF} \leftrightarrow \mathsf{NR-1} \leftrightarrow \mathsf{NR-2} \leftrightarrow \mathsf{NR-3} \leftarrow$$



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

4. Once the setting is completed ...

Press the EXIT button to return to the main menu. To delete the main menu, press the EXIT button once more.

Information

■ NR

- * "NR" stands for Noise Reduction.
- * This function reduces noise in the picture.

■ Types of noise reduction

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

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

OFFTurns the noise reduction function off.

Sound Settings Menu

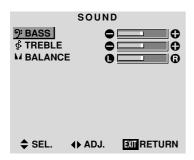
Adjusting the treble, bass and left/right balance

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

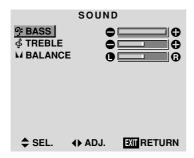
Example: Adjusting the bass

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

- Use the ▲ and ▼ buttons to select "SOUND", then press the PROCEED button.
 The "SOUND" screen appears.
- 2. To adjust the bass ...
 Use the ▲ and ▼ buttons to select "BASS".



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



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

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

4. *Once the adjustment is completed* ...

Press the EXIT button to return to the main menu. To delete the main menu, press the EXIT button once more.

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

Information

■ Sound settings menu

BASSChanges the level of low frequency sound.

TREBLE Changes the level of high frequency sound.

BALANCE Changes the balance of the left and right channels.

■ Restoring the factory default settings

Screen Settings Menu

Adjusting the Position, Size, Fine Picture, Picture Adj

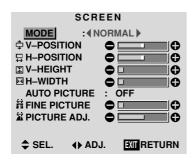
The position of the image can be adjusted and flickering of the image can be corrected.

Example: Adjusting the vertical position in the normal mode

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

1. Use the ▲ and ▼ buttons to select "SCREEN", then press the PROCEED button. The "SCREEN" menu appears.

Default settings (when RGB/PC is selected)



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

To select a mode ...

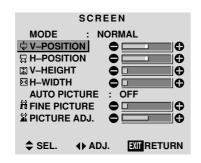
Use the \triangleleft and \triangleright buttons to select a mode.

The mode switches as follows when the \triangleleft and \triangleright buttons are pressed:

$$\longrightarrow \mathsf{NORMAL} \leftrightarrow \mathsf{FULL} \leftarrow$$

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

Use the ▲ and ▼ buttons to select "V-POSITION".



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



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

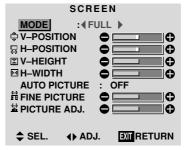
To continue making other computer image adjustments ...

Repeat from step 2.

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

Information

■ When "AUTO PICTURE" is "OFF"



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

Information

■ Adjusting the Auto Picture

ON	.The Picture ADJ	and Fine	Picture
	adjustments are m	ade automa	atically.
OFF	.The Picture ADJ	and Fine	Picture
	adjustments are m	ade manua	lly.

■ Adjusting the position of the image

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

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

V-HEIGHT Adjusts the vertical size of the image. (Except for STADIUM mode)

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

FINE PICTURE*.. Adjusts for flickering.

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

- * The Picture ADJ and Fine Picture features are available only when the "Auto Picture" is off.
- * The AUTO PICTURE, FINE PICTURE and PICTURE ADJ. are not available for VIDEO and HD/DVD source.

■ Restoring the factory default settings

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

Function Settings Menu

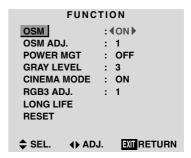
Setting the on-screen menu

When using the monitor for presentations, etc., the monitor can be set so that the input source, screen mode, etc., do not appear.

Example: Turning the on-screen menu mode off

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

- Use the ▲ and ▼ buttons to select "FUNCTION", then press the PROCEED button.
 The "FUNCTION" screen appears.
- 2. Use the \triangle and ∇ buttons to select "OSM".

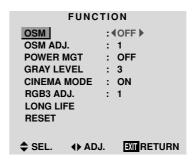


3. To turn the on-screen menu mode off ...

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

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

 $ON \leftrightarrow OFF$



4. Once the setting is completed ...

Press the EXIT button to return to the main menu. To delete the main menu, press the EXIT button once more.

Information

■ OSM modes

ON The on-screen menu appears.

OFF The on-screen menu does not appear.

■ Restoring the factory default settings

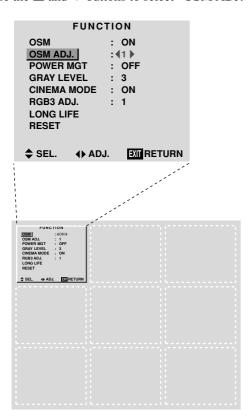
Adjusting the position of the menu display

Use these operations to adjust the position of the menus that appear on the screen.

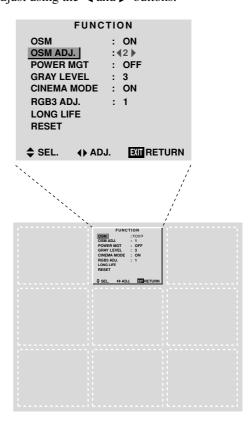
Example: Adjusting the position of the menu display

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

- Use the ▲ and ▼ buttons to select "FUNCTION", then press the PROCEED button. The "FUNCTION" menu appears.
- 2. Use the ▲ and ▼ buttons to select "OSM ADJ."



3. *To adjust the position...* Adjust using the ◀ and ▶ buttons.



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

Information

■ Adjusting the position of the menu display



The position can be set between 1 and 9.

■ Restoring the factory default settings

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

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

- 1. Use the ▲ and ▼ buttons to select "FUNCTION", then press the PROCEED button.
 - The "FUNCTION" screen appears.
- 2. Use the \triangle and ∇ buttons to select "POWER MGT".

FUNCTION

OSM : ON

OSM ADJ. : 1

POWER MGT : (OFF)

GRAY LEVEL : 3

CINEMA MODE : ON

RGB3 ADJ. : 1

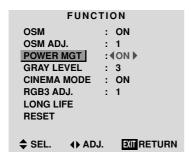
LONG LIFE

RESET

\$\DESCRIPT{\text{MESET}}\$

3. To turn the power management function on ...
Use the ◀ and ▶ buttons to select "ON".
The mode switches as follows each time the ◀ or ▶ button is pressed:

 $ON \leftrightarrow OFF$



 $4. \ \textit{Once the setting is completed} \ldots$

Press the EXIT button to return to the main menu. To delete the main menu, press the EXIT button once more.

Information

■ Power management function

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

■ Power management settings

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

■ Power management function and POWER/ STANDBY indicator

The POWER/STANDBY indicator indicates the status of the power management function. See page 29 for indicator status and description.

■ Restoring the factory default settings

POWER/STANDBY indicator

Power management mode	POWER/STANDBY indicator	Power management operating status	Description	Turning the picture back on
On	Green	Not activated.	Horizontal and vertical synchronizing signals are present from the computer.	Picture already on.
Standby	Orange	Activated.	No horizontal synchronizing signals are sent from the computer.	Operate the keyboard or mouse. The picture reappears immediately.
Suspend	Red	Activated.	No vertical synchronizing signals are sent from the computer.	Operate the keyboard or mouse. The picture reappears, but more time is required than from the standby mode.
Off	Red	Activated.	No horizontal or vertical synchronizing signals are sent from the computer.	Operate the keyboard or mouse. The picture reappears, but more time is required than from the standby mode or suspend mode.

Setting the gray level for the sides of the screen

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

Example: Adjusting the "GRAY LEVEL"

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

1. Use the ▲ and ▼ buttons to select "FUNCTION", then press the PROCEED button.

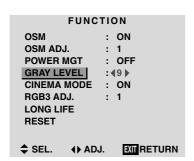
The "FUNCTION" screen appears.

2. Use the ▲ and ▼ buttons to select "GRAY LEVEL".

FUNCTION OSM : ON OSM ADJ. : 1 POWER MGT : OFF GRAY LEVEL : 43 ▶ CINEMA MODE : ON RGB3 ADJ. : 1 LONG LIFE RESET **EXIT RETURN ♦** SEL. **♦** ADJ.

3. To adjust the "GRAY LEVEL"...

Use the ◀ and ▶ buttons to adjust the GRAY LEVEL.



4. Once the setting is completed ...

Press the EXIT button to return to the main menu. To delete the main menu, press the EXIT button once more.

Information

■ GRAY LEVEL

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

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

■ Restoring the factory default settings

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

Setting the picture to suit the movie

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

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

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

- Use the ▲ and ▼ buttons to select "FUNCTION", then press the PROCEED button.
 The "FUNCTION" screen appears.
- 2. Use the ▲ and ▼ buttons to select "CINEMA MODE".

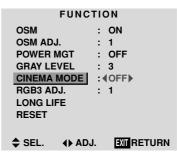
FUNCTION OSM : ON OSM ADJ. : 1 : OFF **POWER MGT GRAY LEVEL** 3 CINEMA MODE : (ON) RGB3 ADJ. : 1 LONG LIFE RESET SEL. **♦** ADJ. **EXIT RETURN**

3. To set the CINEMA MODE to "OFF" ...

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

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





4. *Once the setting is completed* ...

Press the EXIT button to return to the main menu. To delete the main menu, press the EXIT button once more.

Information

■ CINEMA MODE

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

OFF Cinema mode does not function.

■ Restoring the factory default settings

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

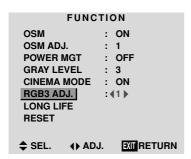
Setting RGB3 ADJ.

When the picture input from the RGB3 input terminal is distorted, select the most appropriate setting from among "1", "2", and "3".

Example: Setting "2"

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

- Use the ▲ and ▼ buttons to select "FUNCTION", then press the PROCEED button. The "FUNCTION" screen appears.
- 2. Use the ▲ and ▼ buttons to select "RGB3 ADJ.".



3. To select "2"...

Use the \triangleleft and \triangleright buttons to select "2".

The mode switches as follows each time the \triangleleft or \blacktriangleright buton is pressed:

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

FUNC	TION
OSM	: ON
OSM ADJ.	: 1
POWER MGT	: OFF
GRAY LEVEL	: 3
CINEMA MODE	: ON
RGB3 ADJ.	: (2)
LONG LIFE	
RESET	
♦ SEL. ♦ AD	J. EXIT RETURN

4. Once the setting is completed...

Press the EXIT button to return to the main menu. To delete the main menu, press the EXIT button once more.

Information

■ When you adjust the RGB3 ADJ.

The position of the menu display will change. In such a case, be sure to adjust the position.

■ Restoring the factory default settings

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

Reducing burn-in of the screen

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

Example: Setting "PLE" to "LOCK"

Press the PROCEED button on the remote control to display the MAIN MENU on the screen, then proceed as follows.

1. Use the ▲ and ▼ buttons to select "FUNCTION", then press the PROCEED button.

The "FUNCTION" screen appears.

2. Use the ▲ and ▼ buttons to select "LONG LIFE", then press the PROCEED button.

FUNC	TI	ON
OSM	:	ON
OSM ADJ.	:	1
POWER MGT	:	OFF
GRAY LEVEL	:	3
CINEMA MODE	:	ON
RGB3 ADJ.	:	1
LONG LIFE		
RESET		
SEL. PROCEED C	ΣK	EXIT RETURN

The "LONG LIFE" screen appears.

3. Use the ▲ and ▼ buttons to select "PLE", then use the ◀ and ▶ buttons to select "LOCK".

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

 $\textbf{AUTO} \leftrightarrow \textbf{LOCK}$



4. Once the setting is completed...

Press the EXIT button to return to the FUNCTION

To exit the main menu, press the EXIT button twice.

Information

■ PLE

AUTOThe brightness of the screen is adjusted automatically to suit the picture quality.

LOCKThe brightness level is set to minimum.

■ ORBITER

ON The picture moves around the screen intermittently.

OFF Orbiter mode does not function.

■ INVERSE

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

OFF Inverse mode does not function.

WTThe entire screen turns white. Restoring the factory default settings

Select "RESET" from the function menu. Note that this also restores other settings to the factory defaults.

Resetting to the default values

Use these operations to restore all the picture adjustments, audio settings, to the factory default values. Refer to page 18 for items to be reset.

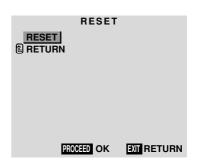
Press the PROCEED button on the remote control to display the MAIN MENU on the screen, then...

- Use the ▲ and ▼ buttons to select "FUNCTION", then press the PROCEED button.
 The "FUNCTION" screen appears.
- 2. Use the ▲ and ▼ buttons to select "RESET", then press the PROCEED button.



The "RESET" screen appears.

3. Use the ▲ and ▼ buttons to select "RESET", then press the PROCEED button.





When the "SETTING NOW" screen disappears, the screen will be restored to the previous "RESET" mode, then all the settings are restored to the default values.

4. Once the setting is completed ...

Press the EXIT button.

To delete the main menu, press the EXIT button once more.

Option Settings Menu

Setting the allocation of the audio connectors

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

Example: Setting "AUDIO 1" to "VIDEO 2"

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

- Use the ▲ and ▼ buttons to select "OPTION", then press the PROCEED button.
 The "OPTION" screen appears.
- 2. Use the ▲ and ▼ buttons to select "AUDIO 1".



3. To set the AUDIO1 to "VIDEO2"...

Use the ◀ and ▶ buttons to select "VIDEO2".

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





4. Once the setting is completed...

Press the EXIT button to return to the main menu. To delete the main menu, press the EXIT button once more.

Information

AUDIO INPUT

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

■ Restoring the factory default settings

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

Setting the BNC connectors

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

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

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

- Use the ▲ and ▼ buttons to select "OPTION", then press the PROCEED button.
 The "OPTION" screen appears.
- 2. Use the ▲ and ▼ buttons to select "BNC SELECT".



3. To set the BNC SELECT mode to "COMP."...

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

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

 $\textbf{RGB} \leftrightarrow \textbf{COMP}.$



4. Once the setting is completed...

Press the EXIT button to return to the main menu. To delete the main menu, press the EXIT button once more.

Information

■ BNC SELECT

RGB Uses the 5BNC terminal for RGB input.

COMP. Use the 3BNC terminal for component input.

■ Restoring the factory default settings

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

Setting a computer image to the correct RGB select screen

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

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

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

- Use the ▲ and ▼ buttons to select "OPTION", then press the PROCEED button.
 The "OPTION" screen appears.
- 2. Use the ▲ and ▼ buttons to select "RGB SELECT".



3. To set the RGB select mode to "MOTION" ...

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

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





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

Information

■ RGB SELECT modes

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

AUTO	Select the suitable mode for the
	specifications of input signals as
	listed in the table "Computer input
	signals supported by this system" on
	page 47.
O.T.I. I	m u i imai i i i i

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

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

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

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

See page 47 for the details of the above settings.

■ Restoring the factory default settings

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

Setting high definition images to the suitable screen size

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

Example: Setting the "1080B" mode to "1035I"

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

- Use the ▲ and ▼ buttons to select "OPTION", then press the PROCEED button.
 The "OPTION" screen appears.
- 2. Use the ▲ and ▼ buttons to select "HD SELECT".



3. To set the HD SELECT mode to "1035I" ...

Use the \triangleleft and \triangleright buttons to select "1035I".

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

$$ightarrow$$
1080A \leftrightarrow 1080B \leftrightarrow 1035I \leftarrow



4. Once the setting is completed ...

Press the EXIT button to return to the main menu. To delete the main menu, press the EXIT button once more.

Information

■ HD SELECT modes

These 3 modes are not displayed in correct image automatically.

1080ASpecial Digital broadcasts (for example: DTC100)

1080B Standard digital broadcasts

10351 Japanese "High Vision" signal format

Setting the picture size for RGB input signals

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

Example: Setting the "ON" mode to "OFF"

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

 Use the ▲ and ▼ buttons to select "OPTION", then press the PROCEED button.

The "OPTION" screen appears.

2. Use the \triangle and ∇ buttons to select "PICTURE SIZE".

OPTION **AUDIO INPUT** AUDIO1 VIDEO1 **AUDIO2** HD/DVD1 **AUDIO3** RGR1 **BNC SELECT** RGB **RGB SELECT AUTO HD SELECT** 1080B PICTURE SIZE : (ON) **♦** ADJ. EXIT RETURN SEL.

3. To set PICTURE SIZE mode to "OFF"...

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

The mode switches as follows when the ◀ or ▶ buttons are pressed:

 $ON \leftrightarrow OFF$

OPTION **AUDIO INPUT** AUDIO1 : VIDEO1 **AUDIO2** HD/DVD1 **AUDIO3** RGB1 **BNC SELECT** RGB **RGB SELECT** AUTO **HD SELECT** 1080B **PICTURE SIZE** : **4**OFF▶ **EXIT RETURN** SEL. **♦** ADJ.

4. Once the setting is completed ...

Press the EXIT button to return to the main menu. To delete the main menu, press the EXIT button once more.

Information

■ PICTURE SIZE

ON For RGB Input: "NORMAL" and "FULL" can be selected for Wide-Screen switching.

OFF For RGB Input: "TRUE" and "FULL" can be selected for Wide-Screen switching.

■ Restoring the factory default settings

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

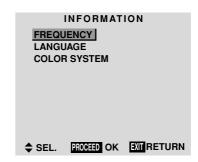
Information Menu

Checking the frequencies, polarities of input signals, and resolution

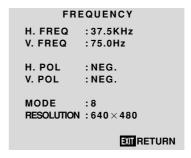
Use this function to check the frequencies and polarities of the signals currently being input from a computer, etc.

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

- Use the ▲ and ▼ buttons to select "INFORMATION", then press the PROCEED button. The "INFORMATION" screen appears.
- 2. Use the ▲ and ▼ buttons to select "FREQUENCY", then press the PROCEED button.



3. The frequency is displayed.



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

Setting the language for the menus

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

Example: Setting the menu display to "DEUTSCH"

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

- 1. Use the ▲ and ▼ buttons to select "INFORMATION", then press the PROCEED button. The "INFORMATION" screen appears.
- 2. Use the ▲ and ▼ buttons to select "LANGUAGE", then press the PROCEED button.



The "LANGUAGE" screen appears.

3. To select " DEUTSCH " ...

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

The mode switches as follows when the ◀ and ▶ buttons are pressed:





- 4. Press the PROCEED button.

 The display language is switched to Deutsch.
- Once the setting is completed ...
 Press the EXIT button to return to the main menu.
 To delete the main menu, press the EXIT button once more.

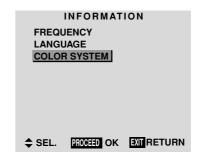
Setting the video signal format

Use these operations to set the video signal format.

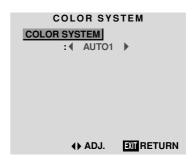
Example: Setting the video signal format to "3.58 NTSC"

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

- Use the ▲ and ▼ buttons to select "INFORMATION", then press the PROCEED button.
 The "INFORMATION" screen appears.
- 2. Use the ▲ and ▼ buttons to select "COLOR SYSTEM", then press the PROCEED button.



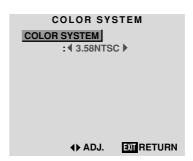
The "COLOR SYSTEM" screen appears.



3. To select "3.58 NTSC" ...

Use the ◀ and ▶ buttons to select "3.58 NTSC". The mode switches as follows when the ◀ and ▶ buttons are pressed:

 $\rightarrow \mathsf{AUTO1} \leftrightarrow \mathsf{AUTO2} \leftrightarrow 3.58\mathsf{NTSC} \leftrightarrow 4.43\mathsf{NTSC} \leftarrow \\ \rightarrow \mathsf{SECAM} \leftrightarrow \mathsf{PAL-M} \leftrightarrow \mathsf{PAL-N} \leftrightarrow \mathsf{PAL60} \leftrightarrow \mathsf{PAL} \leftarrow \\$



4. Once the setting is completed ...

Press the EXIT button to return to the main menu. To delete the main menu, press the EXIT button once more.

The color system is set to "3.58 NTSC".

Information

■ Video signal formats

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

AUTO1/2 The video signals are automatically detected and the format is set accordingly.

AUTO1: 3.58NTSC, 4.43NTSC, PAL, SECAM, PAL60

AUTO2: PAL-M, PAL-N, 3.58NTSC

PAL (B, G) 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 Japan and the United States.

PAL-MThis is the standard format used mainly in Brazil.

PAL-NThis is the standard format used mainly in Argentina.

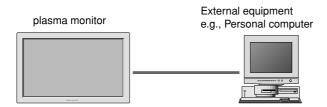
External Control

Application

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

Connections

Connections are made as described below.



 Connector on the plasma monitor side: EXTERNAL CONTROL connector.

Type of connector: D-Sub 9-pin male

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



2) Connector on the external equipment side: Serial port (RS-232C) connector.

See the specifications of the equipment that is to be connected for the type of connector and the pin assignment.

3) Wiring

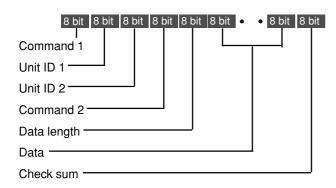
Use a crossed (reverse) cable.

Wire the cable so that each pair of data lines cross between the two devices. These data line pairs are RXD (Receive data) and TXD (Transmit data), DTR (DTE side ready) and DSR (DCE side ready), and RTS (Ready to send) and CTS (Clear to send).

Communication Parameters

(1) Communication systemAsynchronous(2) InterfaceRS-232C(3) Baud rate9600 bps(4) Data length8 bits(5) ParityOdd(6) Stop bit1 bit(7) Communication codeHex

Communication Format



Command 1

Command 1, along with command 2, is a number used to distinguish each command.

In the case of ACK, when the lower order 4 bits is FH (as in 3FH and 7FH), this indicates that the commands and data of the supported equipment have been received. When the lower order 4 bits is BH (as in 3BH and 7BH), this indicates that unsupported commands and data have been received.

Unit ID 1 and Unit ID 2

Unit ID 1 and unit ID 2 are numbers used to identify the equipment that is to be connected.

60H is used for the plasma monitor and 80H is used for external control equipment such as a personal computer.

- 1) Unit ID 1: Indicates the equipment sending the signal
- 2) Unit ID 2: Indicates the equipment receiving the signal

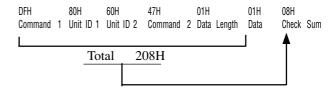
Command 2

Command 2, along with command 1, is a number used to distinguish each command.

Check Sum (CKS), Error Processing, and ACK

 The check sum described below and RS-232C odd parity are used together for a check of the received data. The check sum is the lower order 8 bits of one frame of sent or received data comprising the sum total of Command 1, Unit ID 1 and 2, Command 2, Data Length, and Data.

Check Sum Example



- 2) Error Processing
 - When the communication interval is vacant for more than 4 ms, thereafter a received Command 1 will be recognized. If, at this time, meaningful data cannot be recognized, that data will not be recognized (as valid data).
 - An ACK will not be returned unless the receive data error, the check sum error, and the receive data are all taken in.

Command Reference List

	CMD1	CMD2	LEN
01. Power ON	9FH	4EH	00H
02. Power OFF	9FH	4FH	00H
03. Input Switch Change	DFH	47H	01H
04. VOLUME Gain Data	DFH	7FH	03H
05. SCREEN MODE Select	DFH	51H	01H
06. AUDIO Mute On	9FH	3EH	00H
07. AUDIO Mute Off	9FH	3FH	00H
08. OSM Select	DFH	58H	01H
09. Color Gain Data	DFH	7FH	03H
10. TINT Gain Data	DFH	7FH	03H
11. SHARPNESS Gain Data	DFH	7FH	03H
12. CONTRAST Gain Data	DFH	7FH	03H
13. BRIGHT Gain Data	DFH	7FH	03H
14. Input MODE Request	1FH	41H	00H
15. RESET	1FH	54H	00H
16. COLOR TEMP SELECT	DFH	00H	01H
17. RED Gain Data	DFH	7FH	04H
18. GREEN Gain Data	DFH	7FH	04H
19. BLUE Gain Data	DFH	7FH	04H
20. Multi Screen Select	DFH	07H	01H
21. VIDEO ADJ Request	1FH	45H	00H
22. Audio Select Set	DFH	70H	02H
23. Audio Select Request	1FH	6FH	00H
24. LONG LIFE Set	DFH	6BH	03H
25. Failure Mode Request	1FH	3FH	00H

01. Power ON

Function

The external control equipment switches on the power of the plasma monitor.

Transmission Data

9FH 80H 60H 4EH 00H CKS

ACK

The plasma monitor returns the following ACK when the power is switched on.

3FH 60H 80H 4EH 00H CKS

NOTE: Do not set the Power ON or Power OFF command continuously.

02. Power OFF

Function

The external control equipment switches off the power of the plasma monitor.

Transmission Data

9FH 80H 60H 4FH 00H CKS

ACK

The plasma monitor returns the following ACK when the power is switched off.

3FH 60H 80H 4FH 00H CKS

NOTE: Do not set the Power ON or Power OFF command continuously.

03. Input Switch Change

Function

The external control equipment switches the input of the plasma monitor.

Transmission Data

DFH	80H	60H	47H	01H	DATA00	CKS	
DATA00	: Inp	out Sele	ct	0	1H: Video1		
				0	2H: Video2		
				0	3H: Video3		
				0	5H: HD (HD1 o	or DTV or DTV1)	
				06H: HD2 (DTV2)			
				0	7H: RGB1/PC1	l	
				0	8H: RGB2/PC2	<u> </u>	
				0	CH: RGB3/PC	3	

ACK

The plasma monitor returns the following ACK when the input is switched.

3FH 60H 80H 47H 00H CKS

04. VOLUME Gain Data

Function

The external control equipment changes the VOLUME gain data of the plasma monitor.

Transmission Data

DFH	80H	60H	7FH	03H	DATA00 DATA01 DATA02 CKS
DATA00	USE	R SOU	ND Gain	Flag	05H
DATA01	VOL	UME G	ain Flag		01H
DATA02	VOL	UME G	ain		00H: Step 0
					0AH: Step 10 (Default)
					2AH: Step 42

ACK

7FH	60H	80H	7FH	02H	DATA00 DATA	01 CKS	
DATA00	USER :	SOUND	Gain F	lag	05H		
DATA01	VOLUME Gain Flag				01H		

05. SCREEN MODE Select

Function

The external control equipment switches the screen mode of the plasma monitor.

Transmission Data

DATA00 02H : STADIUM

03H : ZOOM 04H : NORMAL 05H : FULL

41 06H : TRUE (REAL)

06. AUDIO Mute On

Function

The external control equipment switches on AUDIO Mute of the plasma monitor.

Transmission Data

9FH 80H 60H CKS 3EH 00H **ACK** 3FH 60H 80H 3EH 00H CKS

07. AUDIO Mute Off

Function

The external control equipment switches off AUDIO Mute of the plasma monitor.

Transmission Data

9FH 80H 60H 3FH 00H CKS **ACK** 3FH 60H 80H 3FH 00H CKS

08. OSM Select

Function

The external control equipment switches on or off the on-screen menu (OSM) of the plasma monitor.

Transmission Data

manon	113310	n Data					
DFH	80H	60H	58H	01H	DATA00	CKS	
DATA00							
ACK	UZΠ	: 011-5	creenn	enu Off			

7FH 60H 80H 58H 01H DATA00 CKS DATA00 01H: On-Screen menu On 02H: On-Screen menu Off

On-Screen menu On/Off is equivalent to the On-screen menu On/Off function of the convenient function settings.

09. COLOR Gain Data

Function

The external control equipment changes the COLOR gain data of the plasma monitor.

Transmission Data

DFH	80H	60H	7FH	03H	DATA00 DATA01 DATA02 CKS
DATA00	: USE	R PICTI	JRE Ga	in Flag	01H
DATA01	: COL	OR Gai	n Flag		04H
DATA02	: COL	OR Gai	n		E0H: -32
* COLO	R Gain	is from	-22 (EA	H) to	
+22 (1	6H) on	ly durin	g video		FFH: -01
					00H: 0
					01H: +01
					20H: +32

ACK

7FH	60H	80H	7FH	02H	DATA00 DATA01 CKS	
DATA00 DATA01				Flag	01H 04H	

10.TINT Gain Data

Function

The external control equipment changes the TINT gain data of the plasma

Transmission Data

DFH	80H	60H	7FH	03H	DATA00 DATA01 DATA02 CKS
DATA00				in Flag	01H
DATA01 DATA02			lag		05H E0H: -32
* TINT (2 (EAH)	to	
+22 (1	6H) on	ly durin	g video	•	FFH: -01
					00H: 0
					01H: +01
					20H: +32

ACK

7FH	60H	80H	7FH	02H	DATAOO DATAO	1 CKS
DATA00:	USE	R PICTI	JRE Ga	in Flag	01H	
DATA01:	TINT	Gain F	lag		05H	

		On-Screen Menu (OSM)							
Operation	Display of items and ad	justments on the menu	Volume display, input display, and screen size display						
	When screen menu is ON	When screen menu is OFF	When screen menu is ON	When screen menu is OFF					
Remote control operation	Yes	Yes	Yes	No					
Personal computer control operation	No	No	Yes	No					

^{*}Operation is as described in the table below.

11. SHARPNESS Gain Data

Function

The external control equipment changes the SHARPNESS gain data of the plasma monitor.

Transmission Data

DFH	80H	60H	7FH	03H	DATA00	DATA01 DA	TA02 CK	S	
DATA00: DATA01: DATA02:	SHA	RPNES	S Gain			01H 06H F0H: -16 FFH: -01 00H: 0 01H: +01			
ACK						10H:+16			

7FH	60H	80H	7FH	02H	DATA00	DATA01	CKS
DATA00:	USE	R PICT	URE Ga	in Flag		01H	
DATA01:		06H					

12. CONTRAST Gain Data

Function

The external control equipment changes the CONTRAST gain data of the plasma monitor.

Transmission Data

DFH	80H	60H	7FH	03H	DATA00	DATA01	DATA02	CKS
DATA00: DATA01: DATA02:	CON	R PICTU TRAST	JRE Gai Gain Fla	n Flag	200	01H 07H CCH: - FFH: -(00H: 0 01H: +	-52 01 01	one of

	AUK							
	7FH	60H	80H	7FH	02H	DATA00	DATA01 CKS	
	DATA00				J		01H	
DATA01: CONTRAST Gain Flag							07H	

13. BRIGHT Gain Data

Function

The external control equipment changes the BRIGHT gain data of the plasma monitor.

Transm	ission	ı Data							
DFH	80H	60H	7FH	03H	DATA00	DATA01	DATA02	CKS	
DATA00: DATA01: DATA02:	BRIG	iHT Gaiı	n Flag	n Flag		01H 08H E0H: -3 FFH: -4 00H: 0 01H: +1	01 01		

ACK

7FH	60H	80H	7FH	02H	DATA00	DATA01	CKS
DATA00: DATA01:				n Flag		01H 08H	

14. Input MODE Request

Function

The display returns the current input information by the external control equipment's request.

Transmission Data

1FH	80H	60H	41H	00H	CKS				
ACK									
7FH	60H	80H	41H	01H	DATA00	CKS			
DATA00	01H 03H 05H 0AH	t Select : Video : Video : RGB1; ::DVD (I ::DVD2	1 3 /PC1	(02H: Video2 04H: HD (HD 06H: RGB2/F 0CH:HD2 (D 0EH:RGB3/P	ΓV2)			

15. RESET

Function

The external control equipment resets the user adjustment of the plasma monitor.

Transmission Data

1FH	80H	60H	54H	00H	CKS		
ACK							
3FH	60H	80H	54H	00H	CKS		

16. COLOR TEMP SELECT

Function

The external control equipment changes the COLOR TEMP of the plasma monitor.

Transmission Data

02H: 3 03H: PRO

DFH	80H	60H	00H	01H	DATA00	CKS				
DATA00)									
	00H	:1								
	01H	. 2								
	•									
	02H	: 3								
	03H	: PR0								
ACK										
7FH	60H	80H	00H	01H	DATA00	CKS				
DATA00):									
00H: 1										
01H: 2										
	0111	. ۷								

NOTE: Set so that at the selection of 1, 2, or 3 of COLOR TEMP change of the following R/G/B GAIN data cannot be accepted.

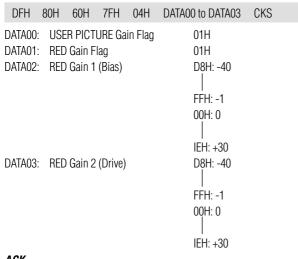
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17. RED Gain Data

Function

The external control equipment changes the RED Gain Data of the plasma monitor.

Transmission Data



ACK

7FH	60H	80H	7FH	02H	DATA00 DATA01 CKS	
DATA00:	: USE	R PICT	URE Ga	in Flag	01H	
DATA01:	: RED	Gain F	lag		01H	

18. GREEN Gain Data

Function

The external control equipment changes the GREEN Gain Data of the plasma monitor.

Transmission Data

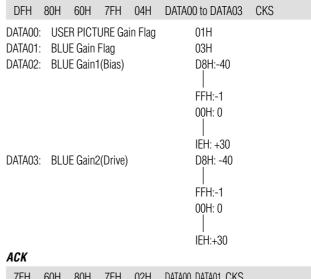
Transm	iissio	n Data						
DFH	80H	60H	7FH	04H	DATA0	0 to DA	TA03	CKS
DATA00: DATA01: DATA02: DATA03:	GRE GRE	EN Gair	ı Flag ı 1 (Bias	3)		01H 02H D8H: - FFH: - 00H: 0 	1 30 40	
7FH	60H	80H	7FH	02H	DATA00	DATA01	CKS	
DATA00: DATA01:		R PICTU EN Gair		n Flag		01H 02H		

19. BLUE Gain Data

Function

The external control equipment changes the BLUE Gain Data of the plasma

Transmission Data



7FH	60H	80H	7FH	02H	DATA00	DATA01	CKS	
DATA00:	USEF	R PICTU	IRE Gai	n Flag		01H		
DATA01:	BLUE	Gain F	lag			03H		

20. Multi Screen Select

Function

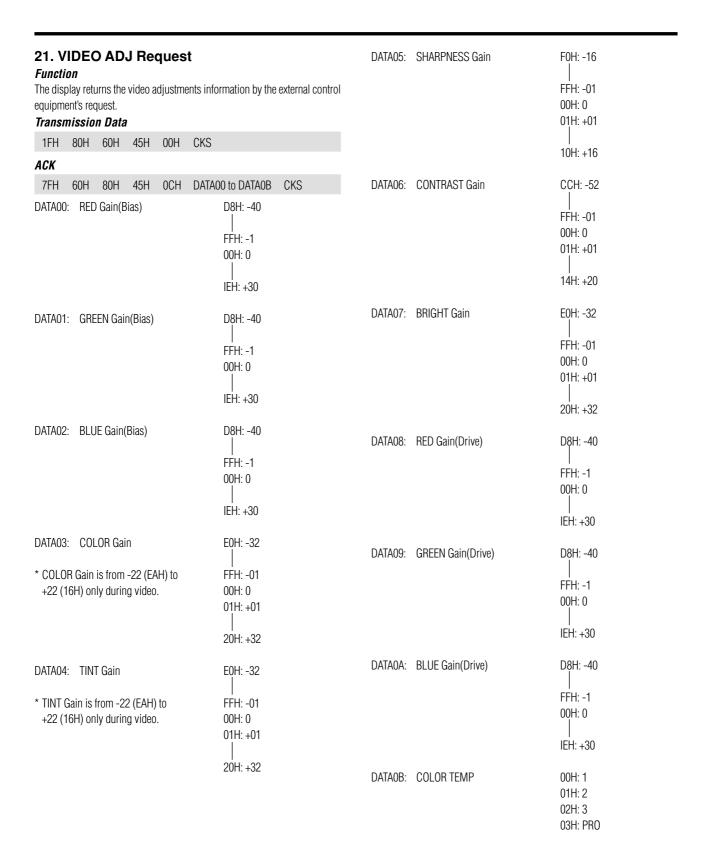
The external control equipment selects single screen mode or multi screen mode of the display.

Transmission Data

DFH	80H	60H	07H	01H	DATA00	CKS	
DATA00:	00: 3 01: 3 02: 3 03: 1	Side by Picture i	creen side 1 (side 2 (in Pictu	Left scr re sub s	een bigger) een smaller) screen L screen R		
The displ	ay retu	ırns the	followi	ng ACK			
7FH	60H	80H	07H	01H	DATA00	CKS	
DATA00:	00: 3 01: 3 02: 3	Side by	creen side 1 (side 2 (Left scr	een bigger) een smaller) screen L)	

When other commands (except POWER OFF) are sent while the screens are switching with this command, the other command will be returned as "Not Available" until screen switching is finished.

04: Picture in Picture sub screen R



22. Audio Select Set

Function

The external control equipment sets combinations of audio and video inputs for the plasma monitor.

Transmission Data

DFH	80H	60H	70H	02H	DATA00	DATA01	CKS		
DATA00	: AUD	IO INP	JT						
	01H	: Al	JDIO 1						
	02H	: Al	JDIO 2						
	03H	: Al	JDIO 3						
DATA01	: VISU	JAL INF	PUT						
	01H	: Vi	deo 1						
	02H		deo 2						
	03H		deo 3						
	05H		`		or DTV1)			
	06H		D2 (DT\						
	07H		3B 1/ P	-					
	08H		3B 2/ P	-					
	0CH	I: K(GB 3/ P	03					
ACK									

The plasma monitor returns the following ACK when the input is switched.

3FH 60H 80H 70H 00H CKS

Example:

The plasma monitor returns "Not Available" when selecting the VIDEO1 for AUDIO2 or VIDEO3 after VIDEO1 has been set to AUDIO1.

23. Audio Select Request

Function

The external control equipment inquires the current combinations of audio and video inputs for the plasma monitor.

Transmission Data

1FH 80H 60H 6FH 00H CKS

ACK

The plasma monitor returns the following ACK:

7FH 60H 80H 6FH 03H DATA00 DATA01 DATA02 CKS

DATA00: AUDIO 1

01H - 0CH: VISUAL INPUT DATA

DATA01: AUDIO 2

01H - 0CH: VISUAL INPUT DATA

DATA02: AUDIO 3

01H - 0CH: VISUAL INPUT DATA

VISUAL INPUT DATA 01H: Video 1

02H: Video 2 03H: Video 3

05H: HD (HD1 or DTV or DTV 1)

06H: HD2 (DTV2) 07H: RGB 1 /PC 1 08H:

RGB 2 /PC 2 OCH: RGB 3 /PC 3

24. LONG LIFE Set

Function

The external control equipment sets the PLE, ORBITER, and INVERSE (inverse of image brightness) of the plasma monitor.

Transmission Data

DFH 80H 60H 6BH 03H DATA00 DATA01 DATA02 CKS DATA00: PLE 01H: **AUTO** 02H: LOCK

DATA01: INVERSE 01H: ON 02H: **OFF** 03H: WHITF

DATA02: ORBITER (PICTURE SHIFT)

01H: ON 02H: **OFF**

ACK

The plasma monitor returns the following ACK when setting the PLE, ORBITER, and INVERSE (inverse of image brightness):

3FH 60H 80H 6BH 00H CKS

25. Failure Mode Request

Function

The external control equipment inquires the detection of failures of the plasma monitor.

Transmission Data

1FH 80H 60H 3FH 00H CKS

ACK

The plasma monitor returns the following ACK:

7FH 60H 80H 3FH 02H DATAOO DATAO1 CKS

DATA00: FAILURE MODE 1

Bit 0: PDP MODULE 0: Abnormal 1: Normal

Bit 1: 1: fixed (backup) Bit 2: **TEMPERATURE**

> 0: Abnormal 1: Normal

Bit 3: FAN

0: Abnormal

1: Normal Bit 4: 1: fixed (backup) Bit 5: 1: fixed (backup)

Bit 6: 1: fixed (backup) Bit 7: 1: fixed (backup)

DATA01:FILURE MODE 2

Bit 0-7:1: fixed (backup)

^{*} The plasma monitor returns "Not Available" when selecting the video input same as the one set at one of the AUDIO 01 to 3.

Table of Signals Supported

Supported resolution

- When the screen mode is NORMAL, each signal is converted to a 1024 dots × 768 lines signal. (Except for *2,3,4)
- When the screen mode is TRUE, the picture is displayed in the original resolution.
- When the screen mode is FULL, each signal is converted to a 1364 dots × 768 lines signal. (Except for *3)

Computer input signals supported by this system

Ba alal	Dots × lines		Horizontal	Sync P	olarity	Prese	nce	Scree			RGB	
	Dots × lines	irequency		Horizontal	Vertical	Horizontal	Vertical	NORMAL	TRUE		select*5	DVI
Signal Type		(Hz)	(kHz)					(4:3)		(16:9)		
	640×400	70.1	31.5	NEG	NEG	YES	YES	YES*2	YES	YES		NO
	640×480	59.9	31.5	NEG	NEG	YES	YES	YES	YES	YES	STILL	YES
		72.8	37.9	NEG	NEG	YES	YES	YES	YES	YES		YES
		75.0	37.5	NEG	NEG	YES	YES	YES	YES	YES	STILL	YES
		85.0	43.3	NEG	NEG	YES	YES	YES	YES	YES		YES
		100.4	51.1	NEG	NEG	YES	YES	YES	YES	YES		YES
		120.4	61.3	NEG	NEG	YES	YES	YES	YES	YES		YES
	848×480	60.0	31.0	POS	POS	YES	YES		YES	YES	WIDE2	YES
	852×480*1	60.0	31.7	NEG	NEG	YES	YES		YES	YES	WIDE1	YES
	800×600	56.3	35.2	POS	POS	YES	YES	YES	YES	YES	STILL	YES
		60.3	37.9	POS	POS	YES	YES	YES	YES	YES	STILL	YES
		72.2	48.1	POS	POS	YES	YES	YES	YES	YES		YES
		75.0	46.9	POS	POS	YES	YES	YES	YES	YES		YES
		85.1	53.7	POS	POS	YES	YES	YES	YES	YES		YES
*IBM PC/AT		99.8	63.0	POS	POS	YES	YES	YES	YES	YES		YES
compatible		120.0	75.7	POS	POS	YES	YES	YES	YES	YES		YES
computers	1024×768	60.0	48.4	NEG	NEG	YES	YES	YES*3		YES	STILL	YES
		70.1	56.5	NEG	NEG	YES	YES	YES*3		YES		YES
		75.0	60.0	POS	POS	YES	YES	YES*3		YES	STILL	YES
		85.0	68.7	POS	POS	YES	YES	YES*3		YES		YES
		100.6	80.5	NEG	NEG	YES	YES	YES*3		YES		NO
	1152×864	75.0	67.5	POS	POS	YES	YES	YES		YES	STILL	YES
	1280×768	56.2	45.1	POS	POS	YES	YES			YES	WIDE1	NO
	1360×765	60.0	47.7	POS	POS	YES	YES			YES*3		NO
	1360×768	60.0	47.7	POS	POS	YES	YES			YES*3		NO
	1376×768	59.9	48.3	NEG	POS	YES	YES			YES	WIDE2	YES
·	1280×1024	60.0	64.0	POS	POS	YES	YES	YES*4		YES	STILL	YES
		75.0	80.0	POS	POS	YES	YES	YES*4		YES		NO
		85.0	91.1	POS	POS	YES	YES	YES*4		YES		NO
	1600×1200	60.0	75.0	POS	POS	YES	YES	YES		YES		NO
	1000 % 1200	65.0	81.3	POS	POS	YES	YES	YES		YES		NO
		70.0	87.5	POS	POS	YES	YES	YES		YES		NO
		75.0	93.8	POS	POS	YES	YES	YES		YES		NO
*Apple	640×480	66.7	35.0	Sync on G	Sync on G			YES	YES	YES		NO
Macintosh*6	832×624	74.6	49.7	Sync on G	Sync on G			YES	YES	YES		NO
Macintocii	1024×768	74.9	60.2	Sync on G				YES*3		YES		NO
	1152×870	75.1	68.7	Sync on G				YES		YES		NO
Work Station	1280×1024	60.0	64.6	NEG	NEG	YES	YES	YES*4		YES		NO
(EWS4800)	1200 × 1024	71.2	75.1	NEG	NEG	YES	YES	YES*4		YES		NO
Work Station	1280×1024	71.2	78.1					YES*4		YES		
(HP)	1200 × 1024	72.0	70.1					I LES		163		YES
Work Station	1150 × 000	66.0	61.0	0.0	0.0			YES		VEC		NO
(SUN)	1152×900	66.0 76.0	61.8	C Sync	C Sync					YES		NO
(3014)	1000 × 1004	76.0	71.7	C Sync	C Sync			YES*4		YES		NO
Mark Station	1280×1024	76.1	81.1	C Sync	C Sync			YES*4		YES		NO
Work Station	1024×768	60.0	49.7					YES*3		YES		NO
(SGI)	1280×1024	60.0	63.9					YES*4		YES		YES
IDC-3000G	700:	F	0.1 .					\/F0±7		\/F 0 ::-		YES
PAL625P	768×576	50.0	31.4	NEG	NEG	YES	YES	YES*7		YES*7		NO
NTSC525P	640×480	59.9	31.5	NEG	NEG	YES	YES	YES*7		YES*7	MOTION	NO

- *1 Only when using a graphic accelerator board that is capable of displaying 852×480.
- *2 This signal is converted to a 1228 dots \times 768 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 dot × 768 line signal.
- *5 Normally the RGB select mode suite for the input signals is set automatically. If the picture is not displayed properly, set the RGB mode prepared for the input signals listed in the table above.
- *6 To connect the monitor to Macintosh computer, use the monitor adapter (D-Sub 15-pin) to your computer's video port. If your computer has a mini D-Sub 15-pin connector, you may have to use the RGB cable.
- *7 Other screen modes (ZOOM and STADIUM) are available as well.

NOTE:

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

Troubleshooting

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

Symptom	Checks	Remedy
Picture is disturbed. Sound is noisy. Remote control operates erroneously.	Is a connected component set directly in front or at the side of the display?	Leave some space between the display and the connected components.
The remote control does not work.	Are the remote control's batteries worn out?	Replace both batteries with new ones.
Monitor's power does not turn on when the remote control's power	• Is the monitor's power cord plugged into a power outlet?	Plug the monitor's power cord into a power outlet.
button is pressed.	Are all the monitor's indicators off?	Press the power button on the monitor to turn on the power.
	Are the remote control's batteries worn out?	Replace both batteries with new ones.
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).	Unplung the remote cable from the monitor.
	The front panel buttons of the main unit do not function.	The front panel buttons do not function during Control Lock.
No sound or picture is produced.	• Is the monitor's power cord plugged into a power outlet?	Plug the monitor's power cord into a power outlet.
Picture appears but no sound is	Is the volume set at the minimum?	Increase the volume.
produced.	Is the mute mode set?	Press the remote control's MUTE button.
	Are the speakers properly connected?	Connect the speakers properly.
	• Is AUDIO INPUT set correctly?	Set AUDIO INPUT on the OPTION menu correctly.
Poor picture with VIDEO signal input.	Improper control setting. Local interference. Cable interconnections. Input impedance is not correct level.	Adjust picture control as needed. Try another location for the monitor. Be sure all connections are secure.
Poor picture with RGB signal input.	Improper control setting. Incorrect 15 PIN connector pin connections.	Adjust picture controls as needed. Check pin assignments and connections.
Tint is poor or colors are weak.	Are the tint and colors properly adjusted?	Adjust the tint and color (under "PICTURE").
Nothing appears on screen.	Is the computer's power turned on?	Turn on the computer's power.
	Is a source connected?	Connect source to the monitor.
	• Is the power management function in the standby or off mode?	Operate the computer (move the mouse, etc.).
Part of picture is cut off or picture is not centered.	Is the position adjustment appropriate?	Adjust the "SCREEN" properly.
Image is too large or too small.	Is the screen size adjustment appropriate?	Press the "WIDE" button on the remote control and adjust properly.
Picture is unstable.	• Is the computer's resolution setting appropriate?	Set to the proper resolution.
POWER/STANDBY indicator is lighted in orange or red.	Horizontal and / or vertical sync signal is not present when the Intelligent Power Manager control is on.	Check the input signal.
POWER/STANDBY indicator is blinking in red.	The temperature inside the main unit has become too high and has activated the protector.	 Promptly switch off the power of the main unit and wait until the internal temperature drops. See*1.
POWER/STANDBY indicator is blinking in green.		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 Marantz dealer for service.

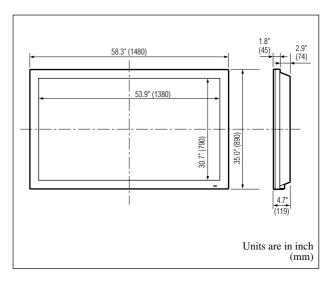
^{*2} In the following case, power off the monitor immediately and contact your dealer or authorized Marantz Service Center.

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

Specifications

Product Name	SLIM SERIES Plasma Monitor
Product Code	PD6120D
Screen Size	53.2"(H) × 29.9"(V) inches
OGICCII OIZC	1351(H)×760(V) mm
	diagonal 61"
Aspect Ratio	16:9
Resolution	1365(H)×768(V) pixels
Pixel Pitch	$0.039"(H) \times 0.039"(V)$ inches
I IAGI I IIGII	$0.987(H) \times 0.987(V)$ mm
Color Reproduction	256 levels, 16,770,000 colors
Signals	230 107013, 10,770,000 001013
Synchronization Range	Horizontal: 15.5 to 93.8 kHz
ojnom omzatom nango	(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	
RGB	
Visual 1 (Analog)	mini D-sub 15-pin×1
Visual 2 (Analog)	BNC (R, G, B, H/CS, V) $\times 1^{*3}$
Visual 3 (Digital)	DVI-I 29-pin×1*2
	(Not compatible with analog input)
Video	
Visual 1	RCA-pin×1
Visual 2 Visual 3	BNC×1
	S ₂ -Video: DIN 4-pin×1
DVD/HD/DTV Visual	DCA nin (V DDICD1 DDICD1)*1
Audio	RCA-pin (Y, PB[CB], PR[CR])*1
	Stereo RCA × 3(selectable)
External Control	D-sub 9-pin×1(RS-232C)
Sound output	7W+7W at 6 ohm
Power Supply	AC120V 50/60Hz
Current Rating	6.9A (maximum)
Power Consumption	660W (typical)
Dimensions	$58.3 \text{ (W)} \times 35.0 \text{ (H)} \times 4.7 \text{ (D)}$ inches
	$1480 \text{ (W)} \times 890 \text{ (H)} \times 119 \text{(D)} \text{ mm}$
Weight	134.5 lbs / 61.0 kg
Environmental Considerations	
Operating Temperature	0°C to 35°C / 32°F to 95°F
Humidity Storage Temperature	20 to 80% -10°C to 50°C / 14°F to 122°F
Humidity	10 to 90%
	Power on/off, Input source select,
	Volume up/down, OSM control
Remote Control Functions	Power on/off, Input source select, OSM
	control, Volume up/down, Cursor (UP,
	DOWN, LEFT, RIGHT), Pointer, Zoom up/
	down, Off timer, Wireless/ Wired remote
	control
OSM Functions	Picture (Contrast / Brightness / Sharpness/
	Color / Tint / Picture mode / Color
	temperature/ Noise reductions), Sound (Bass
	/ Treble/ Balance), Screen (V-Position / H-
	Position/ V-Height / H-Width /Auto Picture / Fine picture/ Picture adjustment), Function
	(OSM/ OSM adjustment/ Power
	management/ Gray level/ Cinema mode/
	RGB3 Adjustment, Long Life (PLE, Orbiter,
	Inverse, White)/Reset)/Option (Audio input/
	BNC select/ RGBselect/ HD select/ Picture
	Size), Information (Frequency / Language /

Color system)



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

*1HD/DVD/DTV	input signals supported on this
system	
480P (60 Hz)	480I (60 Hz)
525P (60 Hz)	525I (60 Hz)
625P (50 Hz)	625I (50 Hz)
720P (60 Hz)	1035I (60 Hz)
	1080I (60 Hz)
*2 It doesn't cope	with copy protection.
*3 A change of D	VD2/HD2 can be performed with
RGB2.	

Other Features	3D motion adaptive Scan Converter
	(with 2-3 pull down Converter),
	Digital Zoom function
	(100-300% Selectable) (Tentative),
	Self Diagnosis, Anti Image Burn,
	Color Temperature Select, Control Lock,
	Power management, Plug and play
	(DDC1, DDC2b, RGB3: DDC2b only),
	Multi screen operation
Accessories	Remote control with two AAA batteries,
	Power cord, User's Manual, Safety metal
	fittings, Ferrite cores, Bands
Regulations	UL Approved (UL 1950/ CSA 950)
-	DOC Canada requirements
	Meets FCC class A requirements





COUNTRY	COMPANY	ADDRESS
ALGERIE	Azur 2000	8, Lotissement Ben Hatadi, Alger, Algerie
ARMENIA	NGYIG Ltd.	47 A/75 St. Lalaiants, 375000 Yerevan, Armenia
AUSTRALIA	Jamo Australia Pty. Ltd.,	24 Lionel Road, Mt. Waverley, VIC 3149, Australia
AUSTRIA	Huber & Prohaska GmbH Ambassador Stores	Taborstraße 95 / Ladestraße 1, Gebäude Hangartner, A-1200 Wien, Austria
BAHREIN BANGLADESH	Target	P.O. Box 237,141, Government Avenue, Manama, Bahrein 1078, Ramjoy Mohanja Lane Asadgonj, Chittagong 4000, Bangladesh
BELGIUM	Van der Heyden Audio N.V.	Brusselbaan 278, 9320 Erembodegem, Belgium
BULGARIA	Ariescommerce GmbH	Makedonia Blvd. 16, 1606 Sofia, Bulgaria
CANADA	Lenbrook Industries Limited	633 Granite Court, Pickering, Ontario
CHINA	Guang Chang Audio International Co., Ltd	. No.38 Yushan Road, ShiQiao, Pan Yu, Guang Dong, China
CYPRUS	Empire Hifi systems Ltd.	P.O. Box 5604, Nicosia, Cyprus
CZECH REPUBLIC	Audio International	Sokolska 41, 67902 Rajecko, OKR,Blansko, Czech Republic
DENMARK	Audio Nord	Dali Allé 1, 9610 Noerager, Denmark
DUBAI	V.V.& SONS	P.O. Box 105, Dubai, U.A.E.
EGYPT ESTONIA	Solimco	9, El Attibaa St. Doki, Cairo, Egypt
F.Y.R.O.M.	HiFi Club Estonia T.P. KODI	Ehte 4, 90503 Haapsalu, Estonia ul.Cedomir Kantargiev 21a, Skopje, Former Yugoslavian Republic of Macedonija
FINLAND	Audio Nord	Uudenmaankatu 4-6, Helsinki SF-00120, Finland
FRANCE	Marantz France	A division of Marantz Europe B.V., P.O. Box 301, 92 156 Suresnes Cedex, France
GERMANY	Marantz Deutschland	Hakenbusch 3, 49078 Osnabrück, Germany
GREECE	Adamco S.A.	188, Hippocratous Street, 11471 Athens, Greece
HEADQUARTERS EUROPE:	Marantz Europe B.V.	Building SFF-2, P.O. Box 80002, 5600 JB Eindhoven, The Netherlands
HONG KONG	Marantz Asia Ltd.	Unit 1706, Metroplaza II, 223 Hing Fong Road, Kwai Fong, N.T., Kowloon, Hong Kong
HUNGARY	Infovox Ltd.	Terez Krt.31, 1067 Budapest, Hungary
ICELAND	ID Electronics Ltd.	Armula 38, 108 Reykjavik, Iceland
INDIA	NOVA Audio Private	8,Punam Co-op.Society 29/30 Road#5, Union Park MUMBAI 400052, India
IRAN	Home Co.	5th floor no 878 Philips Building Enghelab ave, P.O. 11365/7844 Tehran, Iran
IRELAND	Marantz Ireland	Clonskeagh, Dublin 14, Ireland
ISRAEL	Elmor Ltd.	52 Heh Beiyar Street, Kikar Hamedina, Tel Aviv, Israel
ITALY	Marantz Italy	Via Casati 23, 20052 Monza (Milano), Italy, Servizio Consumatori 1678-20026, Numero Verde
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KUWAIT	alAlamiah Electronics Intl.	P.O. Box 8196, Salmiah 22052, Kuwait
LATVIA	Ace Ltd.	61, LacPlesa Str., Riga LV 1011, Latvia
LEBANON	AZ Electronics S.A., 1,	P.O. Box 11 2833, Beirut, Lebanon
LITHUANIA	Accapella Ltd.	Ausros, Vartu G/5, Pasazo SKG., 2001 Vilnius, Lithuania
MALAYSIA	Wo Kee Hong Electronics Sdn. Bhd.	Suite 8.1, Level 8, Menara Genesis, No. 33, Jalan Sultan Ismail, 50250 Kuala Lumpur, Malaysia
MALTA	Doneo Co Ltd.	78 The Strand, Sliema SLM07, Malta
MAURITIUS	SKR Electronics Ltd.	P.O. Box 685, Bell Village, Port Louis, Mauritius
MILITARY MARKET EUROPE		PO BOX 1280, Sandhausen 69200, Germany
NETHERLANDS	Marantz Domestic Sales	A division of Marantz Europe B.V., Building SFF2, P.O. Box 80002, 5600 JB Eindhoven, The Netherlands
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