## PlasmaSync Plasma Monitor

# *PlasmaSync*™ *42VP4/42VP4D (42Wide VGA)*
# *PX-42VP4A/42VP4DA*

# User's Manual

## NEC

# Introduction

## Introduction to the PlasmaSync 42VP4, 42VP4D Plasma Monitor

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

## The features you'll enjoy include:

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

\* You can set the 5BNC input to be used as an RGB or component input. When the 5BNC input is set for RGB, there are a total of three RGB inputs; when the 5BNC input is set for component there are a total of two DVD/HD inputs (see page 24).

## Contents of the Package

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

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

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

# Important Information

## Precautions

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

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### 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.

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### WARNING

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

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## 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

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

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

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



DVI cable (not supplied)

band     band     Connector

core (small)     core (small)

Power cable (supplied)

core (large)

core (large)
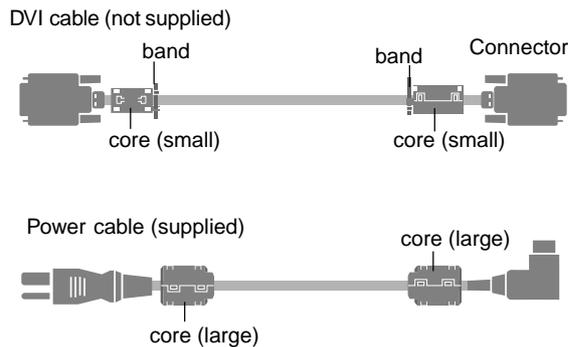
## To avoid damage and prolong operating life:

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 power cord and have it serviced by an authorized Service Center.
5. Do not hit or scratch the panel surface as this causes flaws on the surface of the screen.
6. For correct installation and mounting it is strongly recommended to use a trained, authorized dealer.
7. As is the case with any phosphor-based display (like a CRT monitor, for example) light output will gradually decrease over the life of a Plasma Display Panel.
8. To avoid sulfurization it is strongly recommended not to place the unit in a dressing room in a public bath or hot spring bath.

## Plasma monitor cleaning procedure:

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

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

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

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

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

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

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

# Recommandations importantes

## Précautions

Veuillez lire avec attention ce manuel avant d'utiliser le moniteur à plasma et le conserver accessible pour s'y référer ultérieurement.

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### 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.

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### 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

Ce moniteur à plasma a été conçu et fabriqué pour une utilisation fiable et durable. Il ne nécessite aucun entretien en dehors du nettoyage. Voir la section "Méthode de nettoyage du moniteur à plasma" plus loin. Le panneau à affichage plasma est constitué de fines particules d'images (cellules) dont plus de 99,99%sont actives. Certaines d'entre elles ne produisent pas de lumière ou 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:

1.  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.
    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 se trouve le moniteur est particulièrement élevée, déplacer celui-ci dans un endroit plus frais et attendre environ 60 minutes qu'il refroidisse. Si le problème persiste, prendre contact avec votre revendeur.
2.  Ne pas raccorder la prise d'alimentation polarisée de ce périphérique à une rallonge ou une prise murale si les fiches ne peuvent pas être complètement insérées.
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 le câble d'alimentation électrique pendant les orages ou les longues périodes d'inactivité.
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 d'intervenir ou de réparer l'appareil. Le fabricant décline toute responsabilité en cas de blessure corporelle ou de dégâts matériels résultant d'une opération d'entretien quelconque effectuée par des personnes non qualifiées ou résultant de l'ouverture du couvercle arrière. S'adresser aux services après-vente autorisés.

REMARQUE:
Pour raccorder un ordinateur à ce moniteur, procéder à l'aide d'un câble RGB à âme de ferrite aux deux extrémités. Sur les câbles DVI et les câbles d'alimentation électrique, fixer les âmes de ferrite fournies aux extrémités. 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.

Câble DVI (non fourni)  Connecteur
Collier  Collier
noyau (petit)  noyau (petit)

Câble d'alimentation électrique (fourni)  noyau (large)
noyau (large)
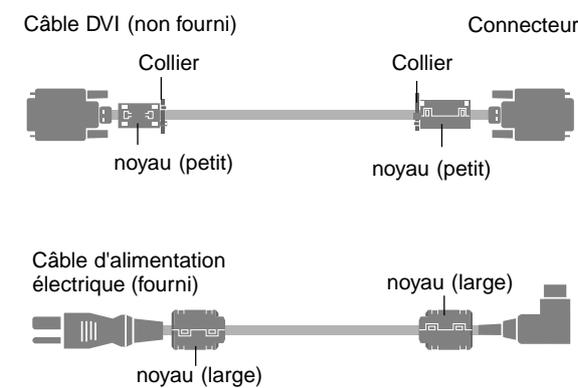
## Pour éviter des dommages et prolonger la durée de service de l'appareil:

1. 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.
4. Eviter que des liquides et des petits objets métalliques pénètrent à l'intérieur de l'appareil. En cas d'incident de ce genre, débrancher le câble d'alimentation électrique et confier le moniteur à un service après-vente agréé.
5. 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 un montage et une installation correcte, il est fortement recommandé de faire appel à un revendeur agréé et qualifié.
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.
8. Pour éviter tout risque de sulfuration, il est fortement conseillé de ne pas installer l'appareil dans un vestiaire, un bain public ou un bain de source thermale.

## Méthode de nettoyage du moniteur à plasma:

1. Nettoyer le panneau avant et le cadre en procédant à l'aide d'un chiffon doux et sec. Ne jamais utiliser de solvents du type alcool ou diluant pour le nettoyage de ces surfaces.
2. Nettoyer les prises d'aération du plasma en procédant à l'aide d'une brosse à poils doux fixée à un aspirateur.
3. Pour garantir la bonne ventilation du moniteur, nettoyer les prises d'air tous les mois. Un nettoyage plus fréquent peut s'avérer nécessaire selon les conditions environnantes dans lesquelles le moniteur à plasma est utilisé.

## Pour éviter les risques de brûlage du luminophore, les mesures suivantes sont recommandées:

Comme tous les périphériques d'affichage à base luminophore et tous les autres affichages gaz plasma, les moniteurs plasma peuvent être sujets au brûlage du luminophore dans certaines circonstances. Certaines conditions d'utilisation, telles que l'affichage continu d'une image statique pour une durée prolongée, peuvent causer le brûlage du luminophore si aucune précaution n'est prise. Pour protéger votre investissement dans ce moniteur à plasma, veuillez suivre les directives et les conseils suivantes pour minimiser l'occurence le marquage de l'écran:

• 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 le brûlage du luminophore:

• 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.

> * **Remarque:** Le brûlage de l'écran n'est pas couvert par la garantie.

Contactez un revendeur agréé ou un revendeur de marque pour d'autres procédures qui conviendront le mieux à vos besoins particuliers.

# Contents

# How to Attach Options to the Plasma Monitor

You can attach your optional mounts or stand to the plasma monitor in one of the following two ways:

* While it is upright. (See Drawing A)
* As it is laid down with the screen face down (See Drawing B). Lay the protective sheet, which was wrapped around the monitor when it was packaged, beneath the screen surface so as not to scratch the screen face.
* Do not touch or hold the screen face when carrying the unit.

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

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

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

   **Product warranty does not cover damage caused by improper installation.**

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

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**Drawing A**
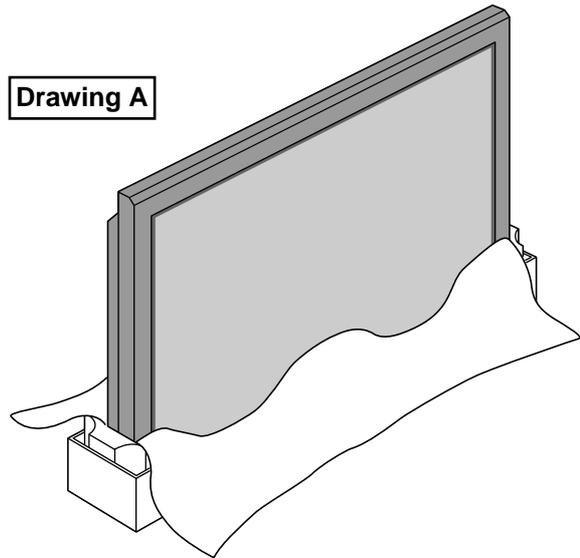
**Drawing B**
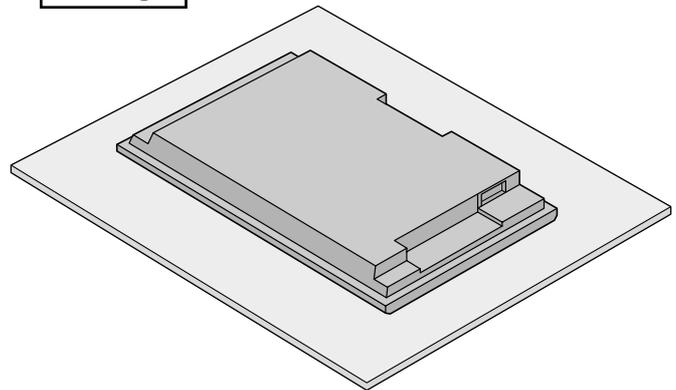
## Ventilation Requirements for enclosure mounting

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

Wall

50mm (2")    50mm (2")

50mm (2")

Wall

50mm (2")

50mm (2")

1
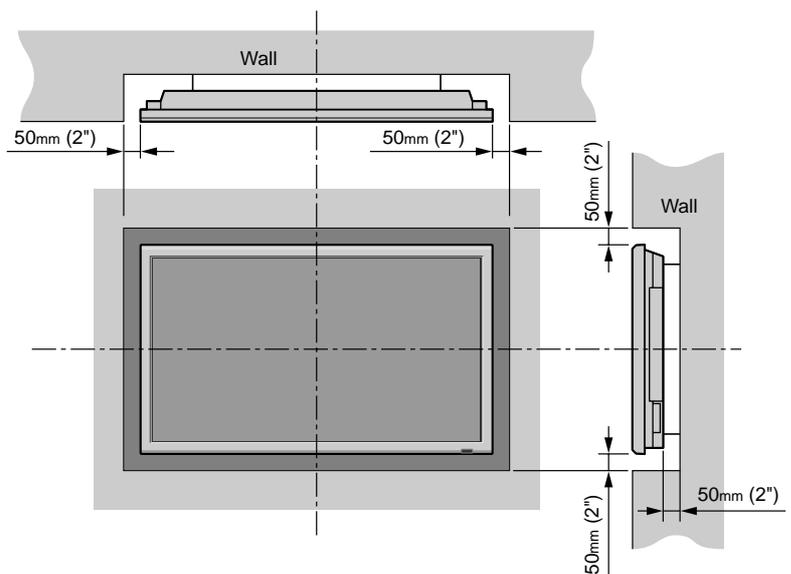
# Part Names and Function

## Front View
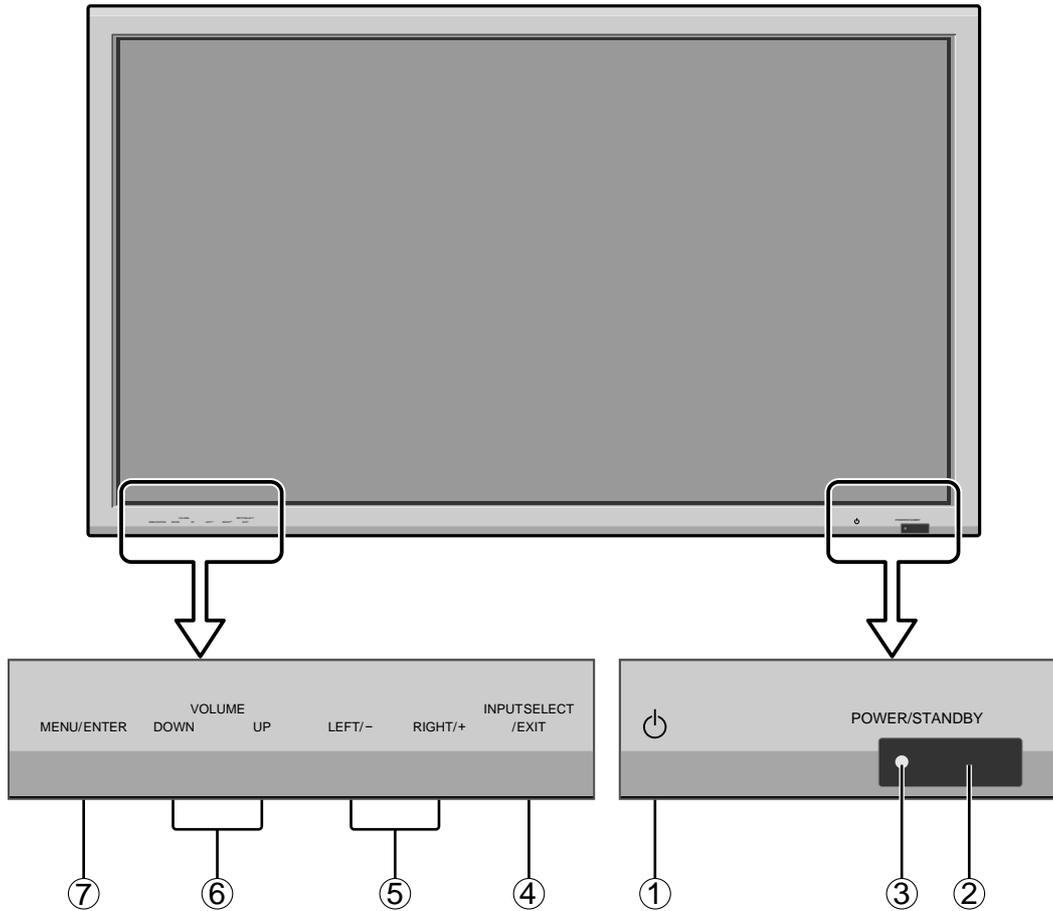


① **Power**
Turns the monitor's power on and off.

② **Remote sensor window**
Receives the signals from the remote control.

③ **POWER/STANDBY indicator**
When the power is on ............................. Lights green.
When the power is in the standby mode ... Lights red.

④ **INPUT SELECT / EXIT**
Switches the input, in the following order.
The available inputs depend on the setting of "BNC INPUT".
RGB: ┌→ VIDEO1 → VIDEO2 → VIDEO3 → HD/DVD/DTV ┐
     └ RGB/PC3 ← RGB/PC2 ← RGB/PC1 ←─────────┘

COMP.: ┌→VIDEO1 → VIDEO2 → VIDEO3 → HD1/DVD1/DTV1┐
       └RGB/PC2 ← RGB/PC1 ← HD2/DVD2/DTV2 ←──────┘

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

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

⑥ **VOLUME DOWN and UP**
Adjusts the volume. Functions as the CURSOR (▲/ ▼) buttons in the On-Screen Menu (OSM) mode.

⑦ **MENU/ENTER**
Sets the On-Screen Menu (OSM) mode and displays the main menu.

# Rear View/ Terminal Board
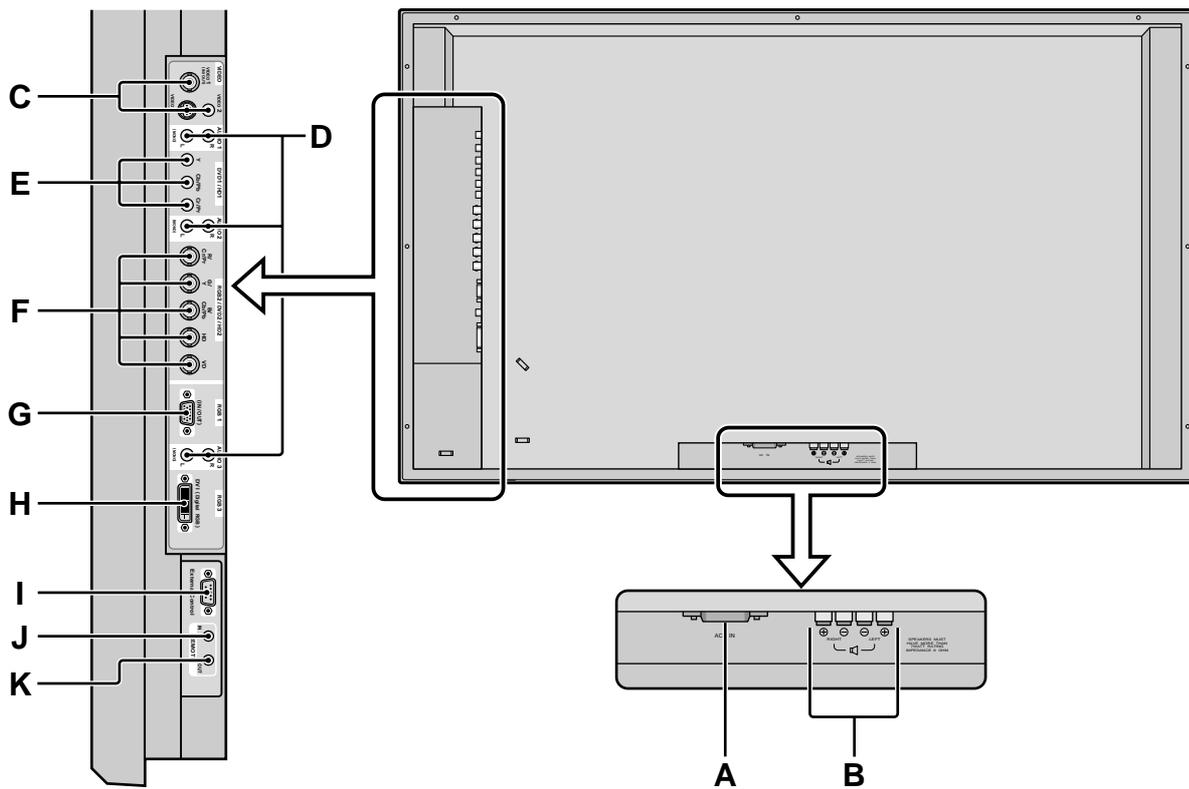


## A AC IN
Connect the included power cord here.

## B
Connect speakers (optional) here. Maintain the correct polarity.
Please refer to your speaker's owner's manual.

## C VIDEO1, 2, 3 (BNC, RCA, S-Video)
Connect VCR's, DVD's or Video Cameras, etc. here.
VIDEO1 can be used for Input or Output (see page 10).

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

## E DVD1 / HD1
Connect DVD's, High Definition or Laser Discs, etc. here.

## F RGB2/ DVD2/ HD2
RGB2:      You can connect an analog RGB signal and the syncronization signal.
DVD2/ HD2: You can connect DVDs, High Definition sources, Laser Discs, etc. here.
           This input can be set for use with an RGB or component source. (see page 24)

## G RGB1 (mini D-Sub 15pin)
Connect an analog RGB signal from a computer, etc. here. This input can be used for Input or Output. (see page 10)

## H RGB3 (DVI 24pin)
Connect a digital signal (TMDS) from a source with a DVI output. (see page 8)

## I EXTERNAL CONTROL
This terminal is used when operating and controlling the monitor externally (by external control).

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

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

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

3

# Remote Control



**❷ RGB/PC**
Press this button to select RGB/PC as the source.
The available sources depend on the setting of "BNC INPUT".
RGB: → RGB/PC1 → RGB/PC2 → RGB/PC3 ⌐

COMP. : → RGB/PC1 → RGB/PC3 ⌐

RGB/PC can also be selected using the INPUT SELECT button on the monitor.

**❸ DVD / HD**
Press this button to select DVD/HD as the source.
The available sources depend on the setting of "BNC INPUT".
RGB: HD/DVD/DTV

COMP.: → HD1/DVD1/DTV1 → HD2/DVD2/DTV2 ⌐

DVD/HD can also be selected using the INPUT SELECT button on the monitor.

**❹ VIDEO**
Press this button to select VIDEO as the source.
→ VIDEO1 → VIDEO2 → VIDEO3 ⌐

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

**❺ MENU/ENTER**
Press this button to access the OSM controls.
Press this button during the display of the main menu to go to the sub menu.

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

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

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

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

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

**⓫ MUTE**
Mutes the sound.

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

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

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

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

4

⑮ **MULTI**

Not functional for the models covered in this manual.

⑯ **SELECT**

Not functional for the models covered in this manual.

⑰ **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.

⑱ **ID SELECT**

Set the ID number in the remote control. The remote control can then be used only for a display with the same ID number. When several displays are used together they can be controlled individually.

⑲ **CLEAR**

Clears the number set by the ID SELECT button.

⑳ **Remote control signal transmitter**

Transmits the remote control signals.

㉑ **Remote Jack**

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

## Battery Installation and Replacement

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

1. Press and open the cover.
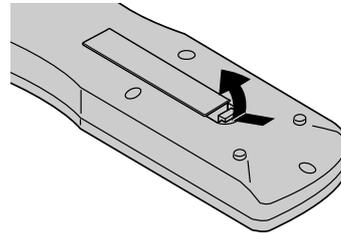


2. Align the batteries according to the (+) and (–) indication inside the case.
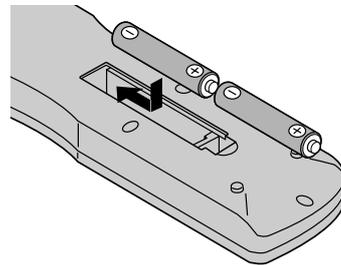


3. Replace the cover.
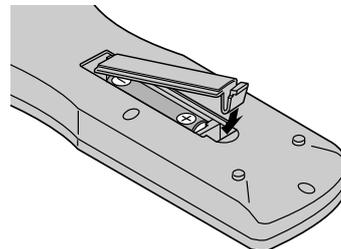
## Using the wired remote control mode

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



Remote Control Cable*

To Remote Jack

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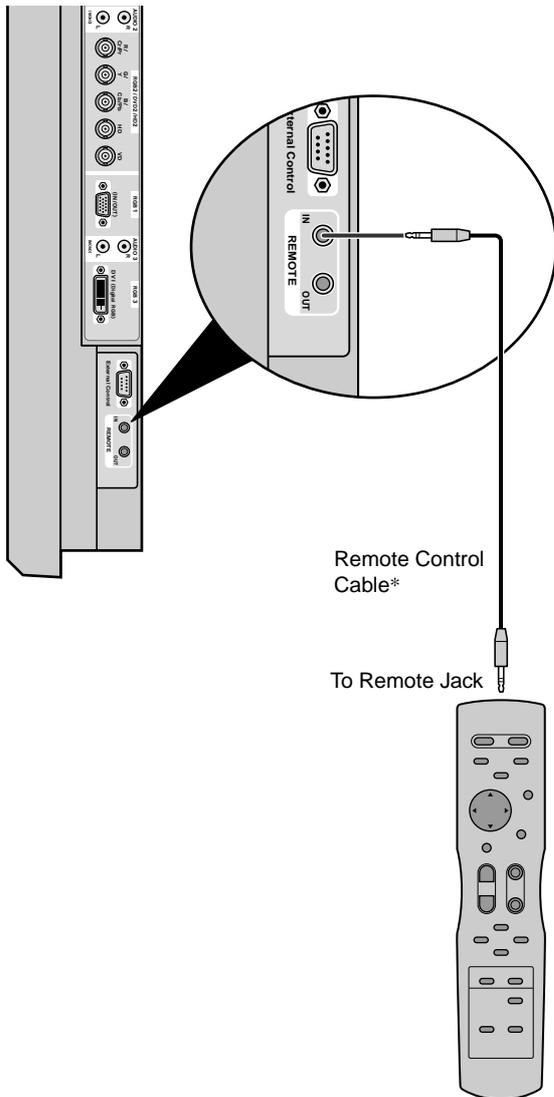
* The 1/8 Stereo Mini cable must be purchased separately.

## Operating Range

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



Approx.
7m/23ft

30°   30°
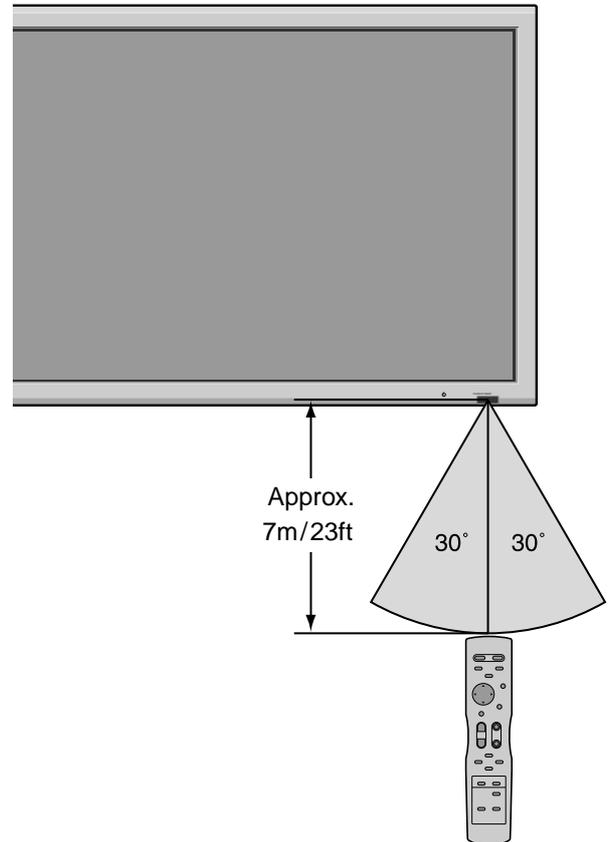
## Handling the remote control

• Do not drop or mishandle the remote control.
• Do not get the remote control wet. If the remote control gets wet, wipe it dry immediately.
• Avoid heat and humidity.
• When not using the remote control for a long period, remove the batteries.
• Do not use new and old batteries together, or use different types together.
• Do not take apart the batteries, heat them, or throw them into a fire.
• When using the remote control in the wireless condition, be sure to unplug the remote cable from the REMOTE IN terminal on the monitor.

# Installation

VIDEO 1-3

VCR or Laser Disc Player

To video inputs on
the plasma monitor

Document Camera

DVD Player

IBM VGA or Compatibles

Macintosh or Compatibles
(Desk top type)

Monitor adapter for
Macintosh

To Mini D-Sub 15 pin connector on the plasma monitor

Personal computer with a
digital signal output

7
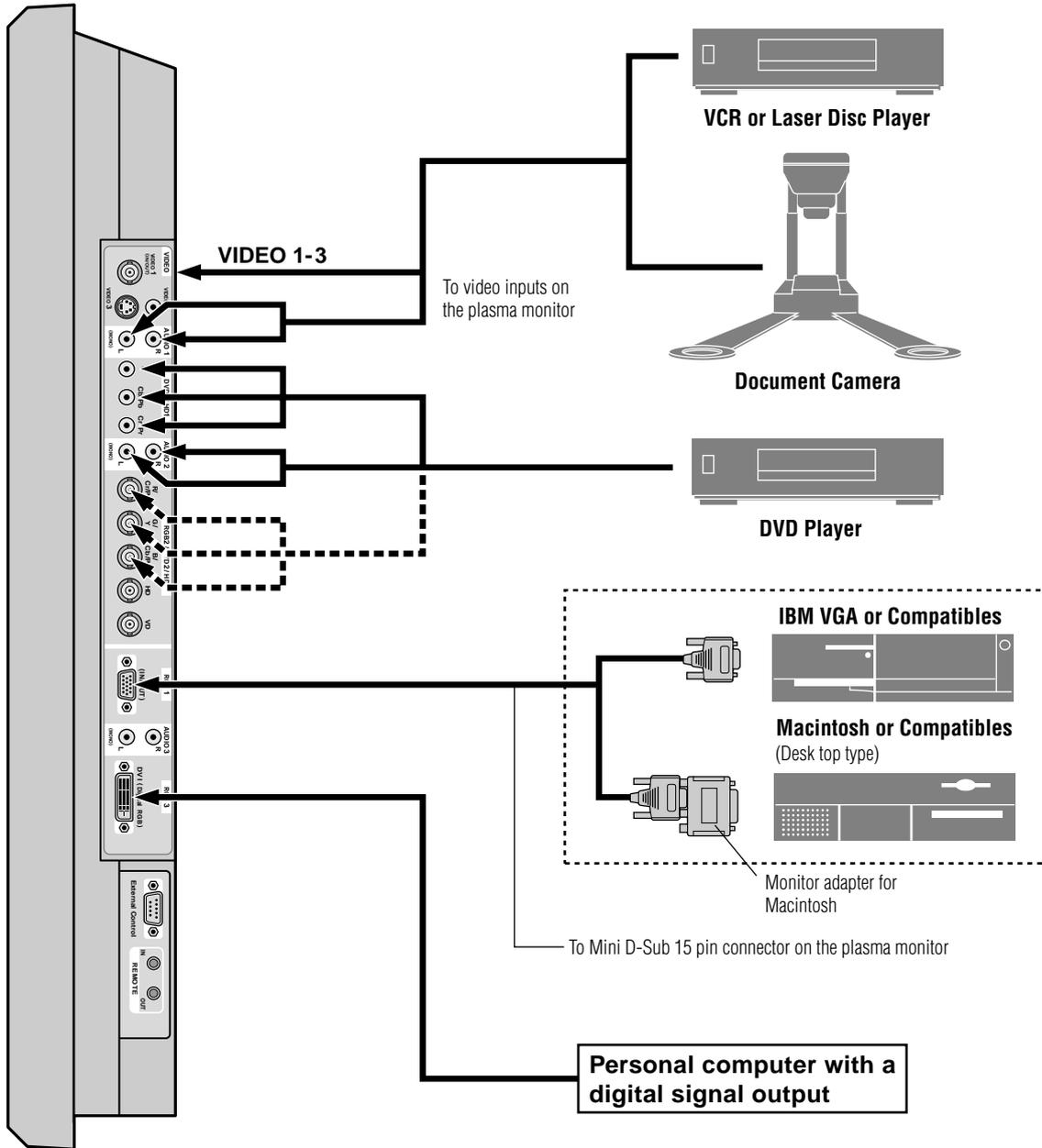
## Connecting Your PC or Macintosh Computer

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 41.

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

1. Turn off the power to your plasma monitor and computer.

2. If your PC does not support SXGA/XGA/SVGA/VGA you will need to install an SXGA/XGA/SVGA/VGA graphics board. Consult your computer's owner's manual for your SXGA/XGA/SVGA/VGA configuration. If you need to install a new board, see the manual that comes with your new graphics board for installation instructions.

3. This plasma monitor provides signal compatibility up to VESA $1600 \times 1200$ (UXGA). However, it is not recommended to use this resolution due to image readability on the monitor's native pixel resolution panel.

4. Use the signal cable to connect your PC or Macintosh computer to the plasma monitor. For Macintosh, use the monitor adapter to connect to your computer's video port, if necessary.

5. Turn on the plasma monitor and the computer.

6. If the plasma monitor goes blank after a period of inactivity, it may be caused by a screen saver installed on the computer you've connected to the plasma monitor.

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

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

The 13" fixed mode is recommended for your 42Wide VGA.

## Connections with Equipment that have a Digital Interface

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

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

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

## Connecting Your Document Camera

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

1. Turn off the power to your plasma monitor and document camera.

2. Use a standard video cable to connect your document camera to the Video input on your plasma monitor.

3. Turn on the plasma monitor and the document camera.

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

## Connecting Your VCR or Laser Disc Player

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

1. Turn off the power to your plasma monitor and VCR or laser disc player.

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

3. Turn on the plasma monitor and the VCR or laser disc player.

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

## Connecting Your DVD Player

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

1. Turn off the power to your plasma monitor and DVD player.

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

3. Turn on the plasma monitor and the DVD player.

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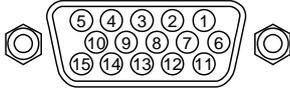
| Pin No. | Signal (Analog) |
|---------|-----------------|
| 1 | Red |
| 2 | Green or sync-on-green |
| 3 | Blue |
| 4 | No connection |
| 5 | Ground |
| 6 | Red ground |
| 7 | Green ground |
| 8 | Blue ground |
| 9 | No connection |
| 10 | Sync signal ground |
| 11 | No connection |
| 12 | Bi-directional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

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

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

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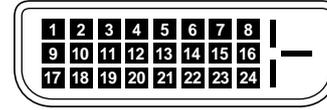
| Pin No. | Signal (Digital) |
|---------|------------------|
| 1 | T.M.D.S Data 2 - |
| 2 | T.M.D.S Data 2 + |
| 3 | T.M.D.S Data 2 Shield |
| 4 | No connection |
| 5 | No connection |
| 6 | DDC Clock |
| 7 | DDC Data |
| 8 | No connection |
| 9 | T.M.D.S Data 1 - |
| 10 | T.M.D.S Data 1 + |
| 11 |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

## Creating a video wall

With buit-in matrix display capability, you can create a 2×2 or 3×3 video wall.
• Connect signal cables and remote cables as shown below.

Video signal



RGB/DVD/HD signal
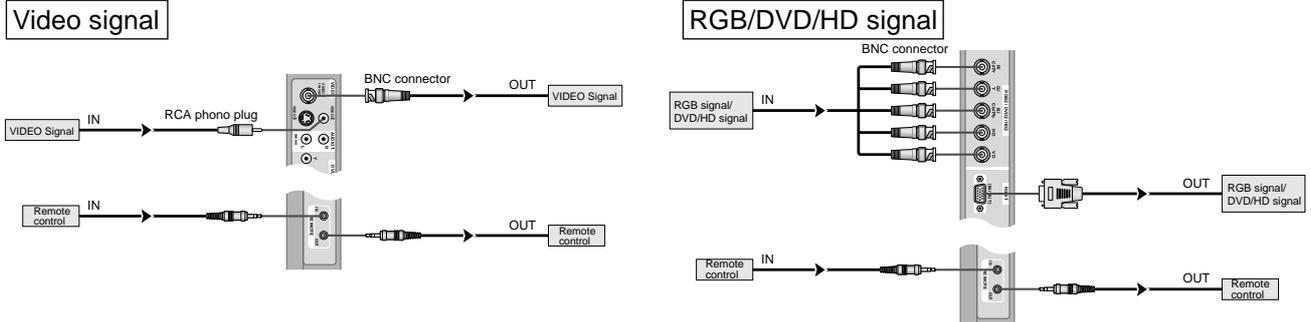


### Note:

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

### Information

• To loop signals out to another plasma display, set the LOOP OUT to ON.
• To create a video wall, set the VIDEO WALL menu items properly.
• To connect monitors, please use a 1~2m (3.3~6.6 feet) BNC cable (any commercially available cable).
• If the image quality is poor, do not use the monitor's out terminal. Use a distribution amplifier (any commercially available distribution amplifier) to connect the split signals to the respective monitor INPUT terminals.
• Being used as a video wall function, maximaly 4-screen is rough-standard with lower than 1024×768, 60Hz signal.
• A distribution amplifier is particularly recommended when using a 9-screen video wall.
• From the second monitor onward, connections require a BNC-RCA conversion cable or connector, a mini D-Sub 15 pin cable-BNC (×5) cable or a conversion connector.

## Cable Management

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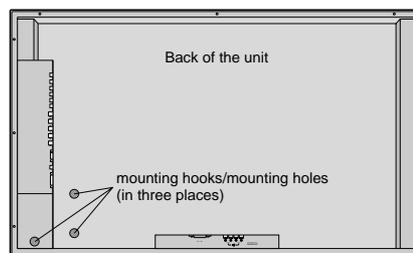


To attach



To detach



10
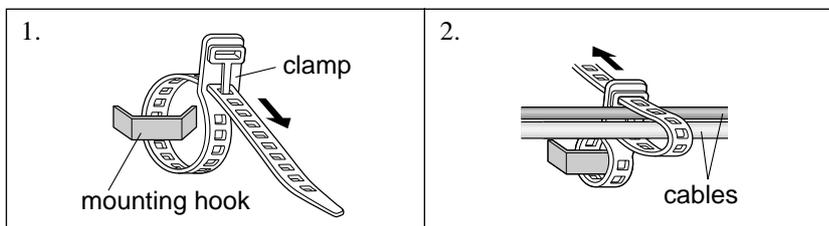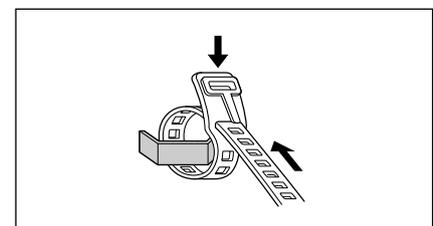
# Basic Operations

## POWER

### To turn the unit ON and OFF:

1. Plug the power cord into an active AC power outlet.

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

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

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

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

## VOLUME

### To adjust the sound volume:

1. Press and hold the VOLUME ⊕ button (on the remote control or the unit) to increase to the desired level.

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

## MUTE

### To cancel the sound:

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

## DISPLAY

### To check the settings:

1. The screen changes each time the DISPLAY button is pressed.

2. If the button is not pressed for approximately three seconds, the menu turns off.

## DIGITAL ZOOM

Digital zoom specifies the picture position and enlarges the picture.

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

   **To change the size of the picture:**
   Press the ZOOM+ button and enlarge the picture. The pointer will change to resemble a magnifying glass. ( )
   A press of the ZOOM- button will reduce the picture and return it to its original size.

   **To change the picture position:**
   Select the position with the ▲▼◄ ► buttons.

2. Press the POINTER button to delete the pointer.

## AUTO ADJUST

### To adjust the size or quality of the picture automatically:

Press the AUTO ADJUST button.

---

### *Information*

#### ■ AUTO ADJUST ON setting

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

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

---

## OFF TIMER

### To set the off timer:

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

1. Press the OFF TIMER button to start the timer at 30 minutes.

2. Press the OFF TIMER button to the desired time.

3. The timer starts when the menu turns off.

$$\rightarrow 30 \rightarrow 60 \rightarrow 90 \rightarrow 120 \rightarrow 0 \rightarrow$$

| OFF TIMER   30 |
| --- |

### 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.

| OFF TIMER   28 |
| --- |

### To cancel the off timer:

1. Press the OFF TIMER button twice in a row.

2. The off timer is canceled.

| OFF TIMER    0 |
| --- |

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

# WIDE Operations

## Wide Screen Operation (manual)

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

### When viewing videos or digital video discs

1. Press the WIDE button on the remote control.

2. *Within 3 seconds ...*

   Press the WIDE button again.

   The screen size switches as follows:

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

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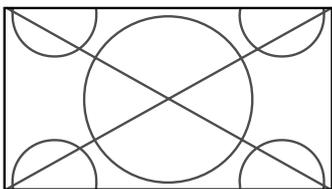
The picture is expanded in the horizontal and vertical direction, maintaining the original proportions.
* Use this for theater size (wide) movies, etc.

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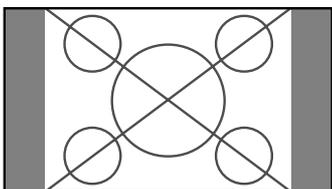
The normal size screen is displayed.
* The picture has the same size as video pictures with a 4 : 3 aspect ratio.

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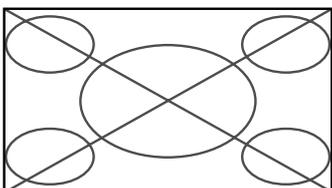
The image is expanded in the horizontal direction.
* Images compressed in the horizontal direction ("squeezed images") are expanded in the horizontal direction and displayed on the entire screen with correct linearity. (Normal images are expanded in the horizontal direction.)

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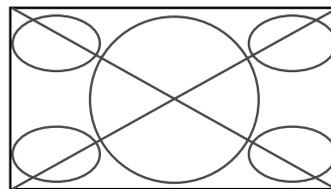
The picture is expanded in the horizontal and vertical directions at different ratios.
* Use this for watching normal video programs (4:3) with a wide screen.

### 14:9 size screen
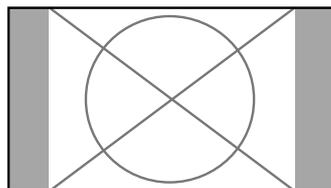
The image is displayed at a 14:9 aspect ratio.
* This feature is available when the input signal is video, component or RGB (525P or 625P signal from a scan converter).

### When viewing a high definition video source

1. Press the WIDE button on the remote control.

### FULL size screen (16 : 9)
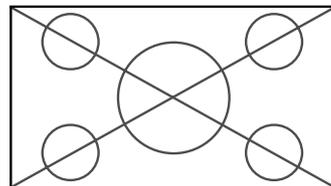
The full size screen is displayed.
* The picture has the same size as video pictures (16 : 9).

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

# Wide Screen Operation with Computer Signals

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

1. Press the WIDE button on the remote control.

2. *Within 3 seconds ...*

   Press the WIDE button again.
   The screen size switches as follows:
   → **NORMAL** → **FULL** → **ZOOM** ⌐

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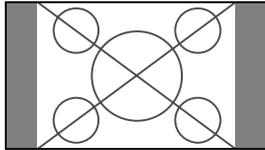


The picture has the same size as the normal computer image.

FULL size screen
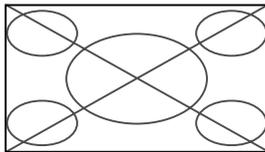


The image is expanded in the horizontal direction.

ZOOM size screen
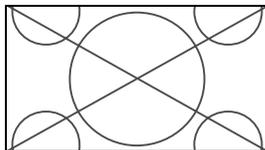


When wide signals are input.

FULL size screen



---
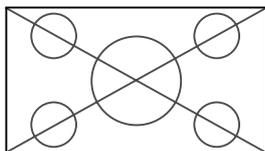
## *Information*

### ■ Supported resolution

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

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

Select an appropriate setting for RGB SELECT mode referring to the "Table of Signals Supported" on page 41.

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

---

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

# OSM(On Screen Menu) Controls

## Menu Operations

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

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

```
            MAIN MENU        1/2
PICTURE
AUDIO
IMAGE ADJUST
OPTION1

ADVANCED OSM        :  OFF
  ↓ NEXT PAGE
◆SEL.   MENU/ENTER OK   EXIT EXIT
```

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

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

```
            MAIN MENU            1 / 2
PICTURE
AUDIO
IMAGE ADJUST
OPTION1


ADVANCED OSM        :   OFF
  ↓ NEXT PAGE
◆SEL.   MENU/ENTER OK      EXIT EXIT
```

```
            MAIN MENU            2 / 2
  ↑ PREVIOUS PAGE
LANGUAGE
COLOR SYSTEM
SOURCE INFORMATION




◆SEL.   MENU/ENTER OK      EXIT EXIT
```
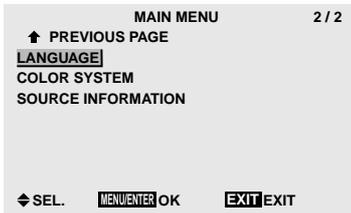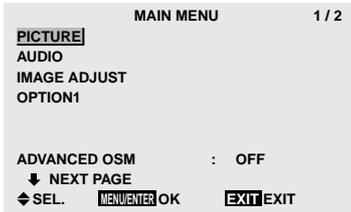
2. Press the cursor buttons ▲ ▼ on the remote control to highlight the menu you wish to enter.

3. Press the MENU/ENTER button on the remote control to select a submenu or item.

```
            PICTURE            1 / 2
CONTRAST          ⊖▭▭▭▭▭⊕
BRIGHTNESS        ⊖▭▭▭▭▭⊕
SHARPNESS         ⊖▭▭▭▭▭⊕
COLOR             ⊖▭▭▭▭▭⊕
TINT              ®▭▭▭▭▭ⓖ
PICTURE MODE      :   NORMAL
NR                :   OFF
  ↓ NEXT PAGE
◆SEL.   ◀▶ADJ.      EXIT RETURN
```
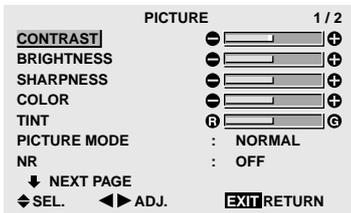
4. Adjust the level or change the setting of the selected item by using the cursor buttons ◀ ▶ on the remote control.

5. The adjustments or the settings that are stored in memory.
   The change is stored until you change it again.

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

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

## Information

### ■ Advanced menu mode

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

```
            MAIN MENU            1 / 2
PICTURE
AUDIO
IMAGE ADJUST
OPTION1
OPTION2
OPTION3
ADVANCED OSM        :   ON
  ↓ NEXT PAGE
◆SEL.   MENU/ENTER OK      EXIT EXIT
```
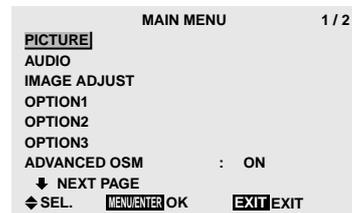
| Main menu | Sub menu | | Functions | Default | Reset |
|---|---|---|---|---|---|
| PICTURE | CONTRAST | | Adjusts the contrast. | Center | Yes |
| | BRIGHTNESS | | Adjusts the brightness. | Center | Yes |
| | SHARPNESS | | Adjusts the sharpness. | Center | Yes |
| | COLOR | | Adjusts the color. | Center | Yes |
| | TINT | | Adjusts the tint. | Center | Yes |
| | PICTURE MODE | | Sets the picture mode according to the VIDEO environment and image software. | NORMAL | Yes |
| | NR | | Reduces noise visible in image. | OFF | Yes |
| | COLOR TEMP | | Adjusts the color temperature and white balance. | Mid | Yes |
| | WHITE BALANCE | GAIN RED | Adjusts the red content (signal level). | Center | Yes |
| | | GAIN GREEN | Adjusts the green content (signal level). | Center | Yes |
| | | GAIN BLUE | Adjusts the blue content (signal level). | Center | Yes |
| | | BIAS RED | Adjusts the red content (black level). | Center | Yes |
| | | BIAS GREEN | Adjusts the green content (black level). | Center | Yes |
| | | BIAS BLUE | Adjusts the blue content (black level). | Center | Yes |
| | | RESET | Resets WHITE BALANCE settings to the factory default values. | OFF | Yes |
| | GAMMA | | Adjusts the brightness of midtone areas. | 2 | Yes |
| | LOW TONE | | Enables high-quality dark area reproduction. | AUTO | Yes |
| | COLOR TUNE | RED | Adjusts hue and color density of red. | Center | Yes |
| | | GREEN | Adjusts hue and color density of green. | Center | Yes |
| | | BLUE | Adjusts hue and color density of blue. | Center | Yes |
| | | YELLOW | Adjusts hue and color density of yellow. | Center | Yes |
| | | MAGENTA | Adjusts hue and color density of magenta. | Center | Yes |
| | | CYAN | Adjusts hue and color density of cyan. | Center | Yes |
| | | RESET | Resets COLOR TUNE settings to the factory default values. | OFF | Yes |

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

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

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

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

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

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

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

# Picture Settings Menu

## Adjusting the picture

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

Example: Adjusting the contrast

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

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

2. Use the ▲ and ▼ buttons to select "CONTRAST".

```
                    PICTURE        1 / 2
CONTRAST                ⊖▭▭▭▬⊕
BRIGHTNESS              ⊖▭▭▬⊕
SHARPNESS               ⊖▭▭▬⊕
COLOR                   ⊖▭▭▬⊕
TINT                    Ⓡ▭▭▬Ⓖ
PICTURE MODE        :   NORMAL
NR                  :   OFF
    ↓ NEXT PAGE
⬍ SEL.    ◄► ADJ.       EXIT RETURN
```
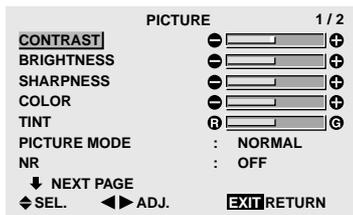
3. Use the ◄ and ► buttons to adjust the contrast.

```



CONTRAST              ⊖▭▭▬⊕
```

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

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

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

---

### Information

#### ■ Picture adjustment screen

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

#### ■ Adjusting the computer image

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

#### ■ Restoring the factory default settings

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

---

## Setting the picture mode according to the brightness of the room

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

Example: Setting the "THEAT. 1" mode

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

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

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

```
                    PICTURE        1 / 2
CONTRAST                ⊖▭▭▬⊕
BRIGHTNESS              ⊖▭▭▬⊕
SHARPNESS               ⊖▭▭▬⊕
COLOR                   ⊖▭▭▬⊕
TINT                    Ⓡ▭▭▬Ⓖ
PICTURE MODE        :   ◄NORMAL ►
NR                  :   OFF
    ↓ NEXT PAGE
⬍ SEL.    ◄► ADJ.       EXIT RETURN
```
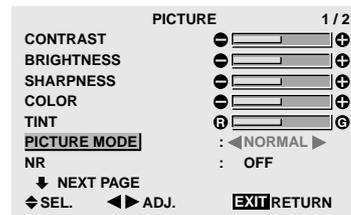
3. *To set to "THEAT. 1" ...*
   Use the ◄ and ► buttons to select "THEAT. 1".
   The mode switches as follows when the ◄ and ► buttons are pressed:
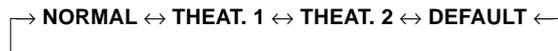
   → **NORMAL** ↔ **THEAT. 1** ↔ **THEAT. 2** ↔ **DEFAULT** ←

```



PICTURE MODE            : ◄THEAT. 1 ►
```

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

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

---

### Information

#### ■ Types of picture modes

THEAT. 1, 2......Set this mode when watching video in a dark room.
                This mode provides darker, finer pictures, like the screen in movie theaters.
                For a darker image, select THEAT. 2.
NORMAL .........Set this mode when watching video in a bright room.
                This mode provides dynamic pictures with distinct differences between light and dark sections.
DEFAULT .........Use this to reset the picture to the factory default settings.

## Reducing noise in the picture

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

Example: Setting "NR-3"

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

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

2. Use the ▲ and ▼ buttons to select "NR".

```
                    PICTURE          1 / 2
CONTRAST                    ⊖▬▬▬▬▬|⊕
BRIGHTNESS                  ⊖▬▬▬▬▬|⊕
SHARPNESS                   ⊖▬▬▬▬▬|⊕
COLOR                       ⊖▬▬▬▬▬|⊕
TINT                        Ⓡ▬▬▬▬▬|Ⓖ
PICTURE MODE             :   NORMAL
NR                       : ◀OFF ▶
   ↓ NEXT PAGE
⬍SEL.       ◀▶ADJ.       EXITRETURN
```
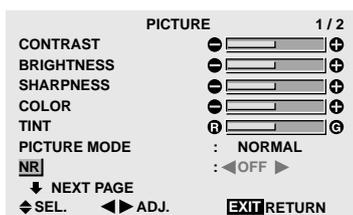
3. Use the ◀ and ▶ buttons to select "NR-3".
   The mode switches as follows when the ◀ and ▶ buttons are pressed:

   → **OFF ↔ NR-1 ↔ NR-2 ↔ NR-3** ←

```



NR                    : ◀NR-3▶
```

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

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

---

### *Information*

#### ■ NR

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

#### ■ Types of noise reduction

There are three types of noise reduction. Each has a different level of noise reduction.
The effect becomes stronger as the number increases (in the order NR-1 → NR-2 → NR-3).
OFF .............. Turns the noise reduction function off.

---

## Setting the color temperature

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

Example: Setting "HIGH"

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

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

2. Use the ▲ and ▼ buttons to select "COLOR TEMP.".

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

   → **LOW ↔ MID LOW ↔ MID ↔ HIGH** ←

\* See below to set "WHITE BALANCE".
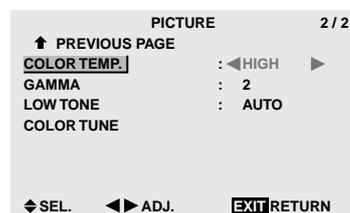
```
                  PICTURE          2 / 2
 ↑ PREVIOUS PAGE
COLOR TEMP.            : ◀HIGH      ▶
GAMMA                 :   2
LOW TONE              :   AUTO
COLOR TUNE


⬍SEL.       ◀▶ADJ.       EXITRETURN
```

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

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

---

### *Information*

#### ■ Setting the color temperature

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

#### ■ Restoring the factory default settings

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

---

## Adjusting the color to the desired level

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

Example: Adjusting the "GAIN RED" of "HIGH" color temperature

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

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

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

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

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

```
                 WHITE BALANCE
               COLOR TEMP. HIGH
GAIN RED                          ⊖▭▭▭▭▭▭▭◻⊕
GAIN GREEN                        ⊖▭▭▭▭▭◻⊕
GAIN BLUE                         ⊖▭▭▭▭◻⊕
BIAS RED                          ⊖▭▭▭▭◻⊕
BIAS GREEN                        ⊖▭▭▭◻⊕
BIAS BLUE                         ⊖▭▭▭▭◻⊕
RESET                   :  OFF
⬍SEL.      ◀▶ ADJ.        EXIT RETURN
```
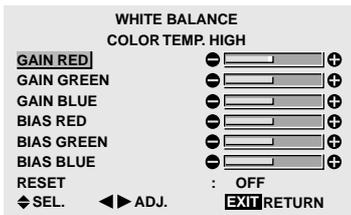
6. Adjust the white balance using the ◀ and ▶ buttons.

```
GAIN RED                   ⊖▭▭▭▭▭▭▭◻⊕
```

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

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

---

*Information*

### ■ Adjusting the white balance

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

BIAS R/G/B ..... White balance adjustment for black level

RESET ............ Resets settings to the factory default values. Use ◀ and ▶ buttons to select "ON", then press the MENU/ENTER button.

### ■ Restoring the factory default settings

Select "RESET" under the WHITE BALANCE menu.

---

## Changing the Gamma Curve

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

Example: Setting "3"

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

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

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

2. Use the ▲ and ▼ buttons to select "GAMMA".

3. Use the ◀ and ▶ buttons to select "3".
   The mode switches as follows each time the ◀ or ▶ button is pressed:
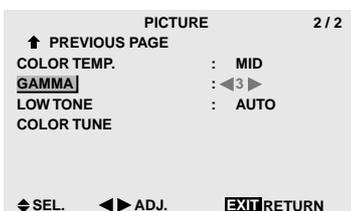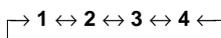
   → 1 ↔ 2 ↔ 3 ↔ 4 ←

```
                 PICTURE          2 / 2
   ⬆ PREVIOUS PAGE
   COLOR TEMP.           :   MID
   GAMMA                 : ◀3 ▶
   LOW TONE              :   AUTO
   COLOR TUNE


   ⬍ SEL.    ◀▶ ADJ.      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*

### ■ GAMMA settings

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

### ■ Restoring the factory default settings

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

---

## Making the Low Tone adjustments

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

Example: Setting "2"

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

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

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

2. Use the ▲ and ▼ buttons to select "LOW TONE".

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

   → AUTO ↔ 1 ↔ 2 ↔ 3 ←

```
                 PICTURE          2 / 2
   ⬆ PREVIOUS PAGE
   COLOR TEMP.           :   MID
   GAMMA                 :   2
   LOW TONE              : ◀2      ▶
   COLOR TUNE


   ⬍ SEL.    ◀▶ ADJ.      EXIT RETURN
```
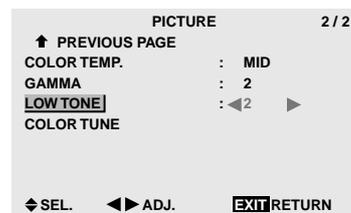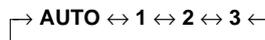
4. *Once the setting is completed...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

---

*Information*

### ■ LOW TONE settings

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

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

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

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

### ■ Restoring the factory default settings

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

## Adjusting the colors

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

Example: Adjusting the color tune for blue

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

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

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

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

3. Use the ▲ and ▼ buttons to select "BLUE".

4. Adjust using the ◀ and ▶ buttons.
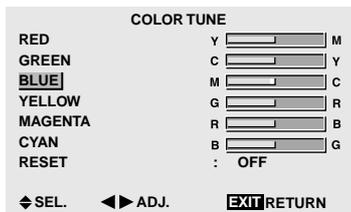
```
                    COLOR TUNE
    RED             Y ▭▭▭▭▭ M
    GREEN           C ▭▭▭▭▭ Y
    BLUE            M ▭▭▭▭▭ C
    YELLOW          G ▭▭▭▭▭ R
    MAGENTA         R ▭▭▭▭▭ B
    CYAN            B ▭▭▭▭▭ G
    RESET           :  OFF

    ⬍ SEL.      ◀▶ ADJ.      EXIT RETURN
```

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

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

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

---

### *Information*

#### ■ COLOR TUNE settings

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

#### ■ Restoring the factory default settings

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

---

# Audio Settings Menu

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

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

Example: Adjusting the bass

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

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

2. *To adjust the bass ...*
   Use the ▲ and ▼ buttons to select "BASS".

3. Adjust the bass using the ◀ and ▶ buttons.

```
                    AUDIO
    BASS            ⊖ ▭▭▭▭ ⊕
    TREBLE          ⊖ ▭▭▭▭ ⊕
    BALANCE         Ⓛ ▭▭▭▭ Ⓡ
    AUDIO INPUT1    :  VIDEO1
    AUDIO INPUT2    :  HD/DVD1
    AUDIO INPUT3    :  RGB1

    ⬍ SEL.      ◀▶ ADJ.      EXIT RETURN
```
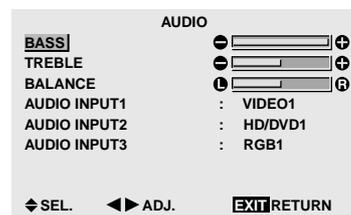
   *To continue adjusting the audio ...*
   Repeat from step 2.

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

---

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

---

### *Information*

#### ■ Audio settings menu

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

#### ■ Restoring the factory default settings

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

## Setting the allocation of the audio connectors

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

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

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

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

2. Use the ▲ and ▼ buttons to select "AUDIO INPUT1".

3. *To set the AUDIO INPUT1 to "VIDEO2"...*
   Use the ◄ and ► buttons to select "VIDEO2".
   The mode switches as follows each time the ◄ or ► button is pressed:
   The available sources depend on the setting of "BNC INPUT".
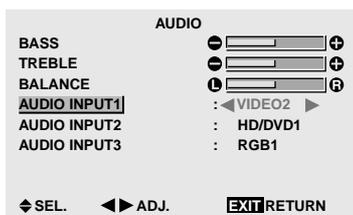
   RGB: → VIDEO1 ↔ VIDEO2 ↔ VIDEO3 ↔ HD/DVD1 ←
        →RGB3 ↔RGB2 ↔RGB1 ←

   COMP.: → VIDEO1 ↔ VIDEO2 ↔ VIDEO3↔ HD/DVD1 ←
          →RGB3 ↔RGB1 ↔HD/DVD2 ←

```
                      AUDIO
BASS                      ⊖▭▭▭▭▭⊕
TREBLE                    ⊖▭▭▭▭▭⊕
BALANCE                   Ⓛ▭▭▭▭▭Ⓡ
AUDIO INPUT1              : ◄VIDEO2 ►
AUDIO INPUT2             :   HD/DVD1
AUDIO INPUT3             :   RGB1

⬦SEL.      ◄►ADJ.        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*

#### ■ AUDIO INPUT

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

#### ■ Restoring the factory default settings

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

---

# Image Adjust Settings Menu

### Adjusting the Position, Size, Fine Picture, Picture Adj

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

Example: Adjusting the vertical position in the normal mode

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

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

   Default settings (when RGB/PC is selected)

```
            IMAGE ADJUST
ASPECT MODE          : ◄NORMAL ►
V-POSITION               ⊖▭▭▭▭▭⊕
H-POSITION               ⊖▭▭▭▭▭⊕
V-HEIGHT                 ⊖▯▭▭▭▭⊕
H-WIDTH                  ⊖▯▭▭▭▭⊕
AUTO PICTURE         :   OFF
FINE PICTURE             ⊖▭▭▭▭▭⊕
PICTURE ADJ.             ⊖▭▭▭▭▭⊕
⬦SEL.    ◄►ADJ.         EXIT RETURN
```
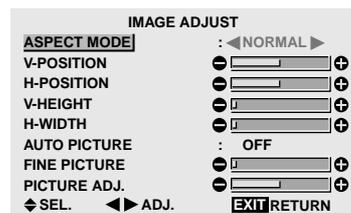
   * The settings on the IMAGE ADJUST menu are not preset at the factory.

   *To select a mode ...*
   Use the ◄ and ► buttons to select a mode.
   The mode switches as follows when the ◄ and ► buttons are pressed:

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

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

```
            IMAGE ADJUST
ASPECT MODE          :   NORMAL
V-POSITION               ⊖▭▭▭▭▭⊕
H-POSITION               ⊖▭▭▭▭▭⊕
V-HEIGHT                 ⊖▯▭▭▭▭⊕
H-WIDTH                  ⊖▯▭▭▭▭⊕
AUTO PICTURE         :   OFF
FINE PICTURE             ⊖▭▭▭▭▭⊕
PICTURE ADJ.             ⊖▭▭▭▭▭⊕
⬦SEL.    ◄►ADJ.         EXIT RETURN
```
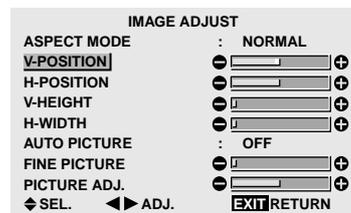
3. Adjust using the ◄ and ► buttons.

```
V-POSITION               ⊖▭▭▭▭▭⊕
```

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

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

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

## Information

### ■ When "AUTO PICTURE" is "OFF"

```
                  IMAGE ADJUST
ASPECT MODE        : ◄FULL      ►
V-POSITION              ⊖▭▭▭⊕
H-POSITION              ⊖▭▭▭⊕
V-HEIGHT                ⊖▭▭▭⊕
H-WIDTH                 ⊖▭▭▭⊕
AUTO PICTURE       :   OFF
FINE PICTURE            ⊖▭▭▭⊕
PICTURE ADJ.            ⊖▭▭▭⊕
⬍ SEL.   ◄► ADJ.      EXIT RETURN
```
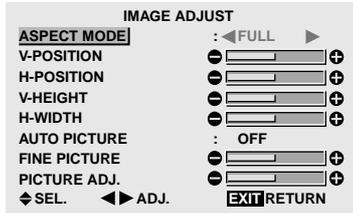
When Auto Picture is off, the Fine Picture and the Picture ADJ. items are displayed so that you can adjust them.

### ■ Adjusting the Auto Picture

ON .................. The Picture ADJ., Fine Picture and Position adjustments are made automatically.
Not available for digital ZOOM.

OFF ................. The Picture ADJ., Fine Picture and Position adjustments are made manually.

* If FINE PICTURE won't be adjusted, set Auto Picture to OFF and adjust manually.

### ■ Adjusting the position of the image

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

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

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

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

FINE PICTURE* .. Adjusts for flickering.

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

* The Picture ADJ. and Fine Picture features are available only when the "Auto Picture" is off.

* The AUTO PICTURE, FINE PICTURE and PICTURE ADJ. are available only for RGB signals.
But, these features are not available for moving pictures on VIDEO, HD/DVD or RGB.

### ■ Restoring the factory default settings

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

## Option1 Settings Menu

### Setting the on-screen menu

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

Example: Turning the DISPLAY OSM off

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

1. Use the ▲ and ▼ buttons to select "OPTION1", then press the MENU/ENTER button. The "OPTION1" menu appears.

2. Use the ▲ and ▼ buttons to select "OSM", then press the MENU/ENTER button. The "OSM" menu appears.

3. Use the ▲ and ▼ buttons to select "DISPLAY OSM".

4. *To set the DISPLAY OSM to "OFF"...*
Use the ◄ and ► buttons to select "OFF".
The mode switches as follows each time the ◄ or ► button is pressed:

   **ON ↔ OFF**

```
                  OSM
DISPLAY OSM        : ◄OFF►
OSM ADJ.           :  1
OSM ANGLE          :  H
OSM ORBITER        :  OFF



⬍ SEL.     ◄► ADJ.      EXIT RETURN
```
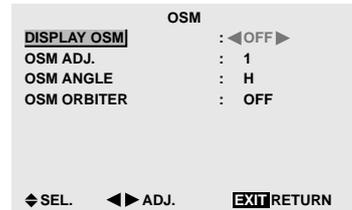
5. *Once the setting is completed...*
Press the EXIT button to return to the OPTION1 menu. To return to the main menu, press the EXIT button once more.

## Information

### ■ DISPLAY OSM settings

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

### ■ OSM ADJUST settings

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

```
┌─────┬─────┬─────┐
│  1  │  2  │  3  │
├─────┼─────┼─────┤
│  4  │  5  │  6  │
└─────┴─────┴─────┘
```

### ■ OSM ANGLE settings

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

```
OSM                OPTION1      1/3
BNC INPUT          :   RGB
D-SUB INPUT        :   RGB
RGB SELECT         :   AUTO
HD SELECT          :   1080B
INPUT SKIP         :   OFF
ALL RESET          :   OFF
⬍ NEXT PAGE
⬍ SEL.  ENTER OK   EXIT RETURN
```

"V"

```
           OPTION1
OSM
BNC INPUT
         :   RGB
D-SUB INPUT
         :   RGB
RGB SELECT
         :   AUTO
HD SELECT
         :   1080B
INPUT SKIP
         :   OFF
ALL RESET
         :   OFF
         :   1024×768
SEL. RESET OK
         EXIT RETURN
```
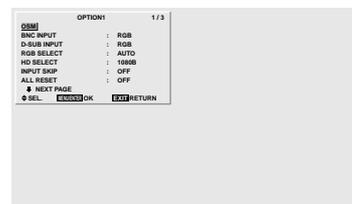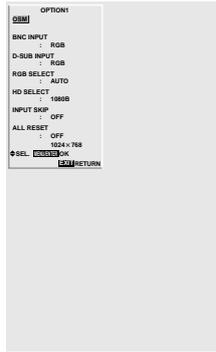
Only effective when Advanced OSM is OFF.

### ■ OSM ORBITER settings

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

### ■ Restoring the factory default settings

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

## Setting the BNC connectors

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

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

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

1. Use the ▲ and ▼ buttons to select "OPTION1", then press the MENU/ENTER button.
   The "OPTION1" screen appears.

2. Use the ▲ and ▼ buttons to select "BNC INPUT".

3. *To set the BNC INPUT mode to "COMP."...*
   Use the ◄ and ► buttons to select "COMP.".
   The mode switches as follows each time the ◄ or ► button is pressed:

   **RGB ↔ COMP.**
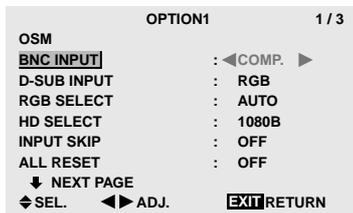
```
           OPTION1          1 / 3
OSM
BNC INPUT          : ◄COMP.  ►
D-SUB INPUT        :   RGB
RGB SELECT         :   AUTO
HD SELECT          :   1080B
INPUT SKIP         :   OFF
ALL RESET          :   OFF
  ↓ NEXT PAGE
 SEL.     ◄► ADJ.      EXIT RETURN
```

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*

### ■ BNC INPUT Settings

RGB ......... Use the 5BNC terminals for RGB input.
COMP. ...... Use the 3BNC terminals for component input.

### ■ Restoring the factory default settings

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

## Checking the signal being transmitted to RGB1 terminal

Use this to confirm the signal being transmitted to the RGB1 terminal.
It is set to RGB and can not be adjusted.

```
           OPTION1          1 / 3
OSM
BNC INPUT          :   RGB
D-SUB INPUT        :   RGB
RGB SELECT         :   AUTO
HD SELECT          :   1080B
INPUT SKIP         :   OFF
ALL RESET          :   OFF
  ↓ NEXT PAGE
CAN NOT ADJUST
```
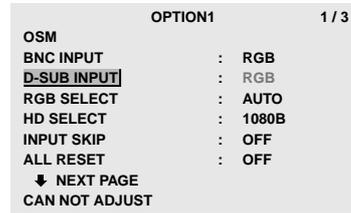
## Setting a computer image to the correct RGB select screen

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

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

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

1. Use the ▲ and ▼ buttons to select "OPTION1", then press the MENU/ENTER button.
   The "OPTION1" screen appears.

2. Use the ▲ and ▼ buttons to select "RGB SELECT".

3. *To set the RGB select mode to "MOTION" ...*
   Use the ◄ and ► buttons to select "MOTION".
   The mode switches as follows each time the ◄ or ► button is pressed:

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

```
           OPTION1          1 / 3
OSM
BNC INPUT          :   RGB
D-SUB INPUT        :   RGB
RGB SELECT         : ◄MOTION►
HD SELECT          :   1080B
INPUT SKIP         :   OFF
ALL RESET          :   OFF
  ↓ NEXT PAGE
 SEL.     ◄► ADJ.      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.

## Setting high definition images to the suitable screen size

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

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

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

1. Use the ▲ and ▼ buttons to select "OPTION1", then press the MENU/ENTER button.
   The "OPTION1" screen appears.

2. Use the ▲ and ▼ buttons to select "HD SELECT".

3. *To set the HD SELECT mode to "1035I" ...*
   Use the ◄ and ► buttons to select "1035I".
   The mode switches as follows each time the ◄ or ► button is pressed:

   →1080B ↔ 1035I ↔ 1080A ←
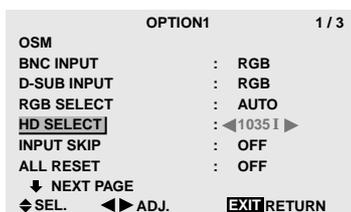
   | OPTION1 | | 1 / 3 |
   |---|---|---|
   | OSM | | |
   | BNC INPUT | : | RGB |
   | D-SUB INPUT | : | RGB |
   | RGB SELECT | : | AUTO |
   | HD SELECT | : | ◄1035 I ► |
   | INPUT SKIP | : | OFF |
   | ALL RESET | : | OFF |
   | ↓ NEXT PAGE | | |
   | ♦SEL. ◄►ADJ. | | EXIT RETURN |

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.

## Setting the Input Skip

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

Example: Set to "ON"

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

1. Use the ▲ and ▼ buttons to select "OPTION1", then press the MENU/ENTER button.
   The "OPTION1" screen appears.

2. Use the ▲ and ▼ buttons to select "INPUT SKIP".

3. *To set the INPUT SKIP mode to "ON"...*
   Use the ◄ and ► buttons to select "ON".
   The mode switches as follows each time the ◄ or ► button is pressed:

   **OFF ↔ ON**

   | OPTION1 | | 1 / 3 |
   |---|---|---|
   | OSM | | |
   | BNC INPUT | : | RGB |
   | D-SUB INPUT | : | RGB |
   | RGB SELECT | : | AUTO |
   | HD SELECT | : | 1080B |
   | INPUT SKIP | : | ◄ON ► |
   | ALL RESET | : | OFF |
   | ↓ NEXT PAGE | | |
   | ♦SEL. ◄►ADJ. | | 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.

## Resetting to the default values

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

*Refer to page 16 for items to be reset.*

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

1. Use the ▲ and ▼ buttons to select "OPTION1", then press the MENU/ENTER button.
   The "OPTION1" screen appears.

2. Use the ▲ and ▼ buttons to select "ALL RESET".

```
              OPTION1        1 / 3
OSM
BNC INPUT            :  RGB
D-SUB INPUT         :  RGB
RGB SELECT          :  AUTO
HD SELECT           :  1080B
INPUT SKIP          :  OFF
ALL RESET           : ◄OFF►
      ↓ NEXT PAGE
  ⬍SEL.    ◄► ADJ.      EXIT RETURN
```

3. Use the ◄ and ► buttons to select "ON", then press the MENU/ENTER button.

```
              OPTION1        1 / 3
OSM
BNC INPUT            :  RGB
D-SUB INPUT         :  RGB
RGB SELECT          :  AUTO
HD SELECT           :  1080B
INPUT SKIP          :  OFF
ALL RESET           : ◄ON ►
      ↓ NEXT PAGE
  ⬍SEL.   MENU/ENTER OK     EXIT RETURN
```

```
              ALL RESET


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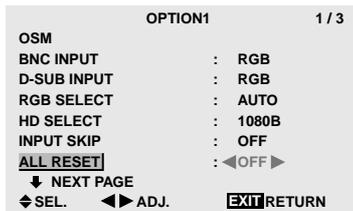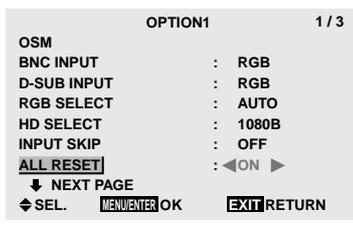
When the "SETTING NOW" screen disappears, then all the settings are restored to the default values.

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

## Option2 Settings Menu

### Setting the power management for computer images

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

Example: Turning the power management function on

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

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

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

2. Use the ▲ and ▼ buttons to select "PWR. MGT.".

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

   **ON ↔ OFF**

```
              OPTION2        2 / 3
   ↑ PREVIOUS PAGE
POWER MGT.          : ◄ON ►
CINEMA MODE         :  ON
LONG LIFE
GRAY LEVEL          :  3


      ↓ NEXT PAGE
  ⬍SEL.    ◄► ADJ.      EXIT RETURN
```
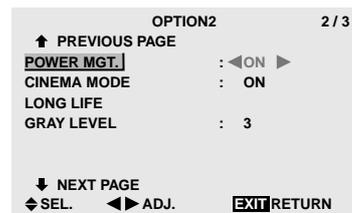
4. *Once the setting is completed ...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

---

### *Information*

#### ■ Power management function

* The power management function automatically reduces the monitor's power consumption if the computer's keyboard or mouse is not operated for a certain amount of time. This function can be used when using the monitor with a computer.

* If the computer's power is not turned on or if the computer and selector tuner are not properly connected, the system is set to the off state.

* For instructions on using the computer's power management function, refer to the computer's operating instructions.

#### ■ Power management settings

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

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

#### ■ Power management function and POWER/STANDBY indicator

The POWER/STANDBY indicator indicates the status of the power management function. See page 27 for indicator status and description.

## ■ Restoring the factory default settings

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

## POWER/STANDBY indicator

| Power management mode | POWER/ STANDBY indicator | Power management operating status | Description | Turning the picture back on |
|---|---|---|---|---|
| On | Green | Not activated. | Horizontal and vertical synchronizing signals are present from the computer. | Picture already on. |
| Off | Red | Activated. | Horizontal and/or vertical synchronizing signals are not sent from the computer. | Operate the keyboard or mouse. The picture reappears. |

## Setting the picture to suit the movie

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

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

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

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

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

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

3. *To set the CINEMA MODE to "OFF" ...*
   Use the ◄ and ► buttons to select "OFF".
   The mode switches as follows each time the ◄ or ► button is pressed:
   **ON ↔ OFF**

```
              OPTION2          2 / 3
      ↑ PREVIOUS PAGE
   POWER MGT.           :   OFF
   CINEMA MODE          : ◄OFF ►
   LONG LIFE
   GRAY LEVEL           :   3


      ↓ NEXT PAGE
   ⬍SEL.    ◄►ADJ.      EXIT RETURN
```
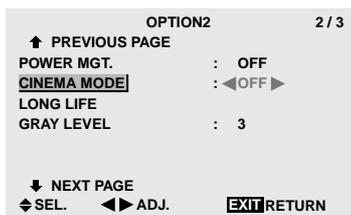
4. *Once the setting is completed ...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

### *Information*

## ■ CINEMA MODE

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

## ■ Restoring the factory default settings

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

## Reducing burn-in of the screen

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

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

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

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

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

```
              LONG LIFE
   PLE                  : ◄AUTO ►
   ORBITER              :   OFF
   INVERSE              :   OFF
   SCREEN WIPER         :   OFF



   ⬍SEL.    ◄►ADJ.      EXIT RETURN
```
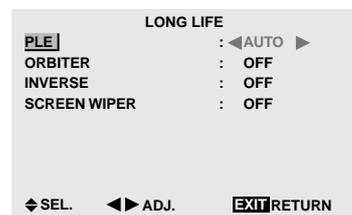
3. Set the LONG LIFE mode using ▲▼◄ and ► buttons.
   See page 27 to set PLE.
   See page 28 to set ORBITER.
   See page 28 to set INVERSE.
   See page 29 to set SCREEN WIPER.

4. *Once the setting is completed...*
   Press the EXIT button to return to the OPTION2 screen.
   To return to the main menu, press the EXIT button once more.

### *Information*

## ■ Restoring the factory default settings

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

### PLE (Peak Luminance Enhancement)

Use this to activate the brightness limiter.

Example: Setting "PLE" to "LOCK1"

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

3. Use the ▲ and ▼ buttons to select "PLE".

4. Use the ◄ and ► buttons to select "LOCK1".
   The mode switches as follows each time the ◄ or ► button is pressed:
   **→AUTO ↔ LOCK1 ↔ LOCK2 ↔ LOCK3←**

```
              LONG LIFE
   PLE                  : ◄LOCK1 ►
   ORBITER              :   OFF
   INVERSE              :   OFF
   SCREEN WIPER         :   OFF



   ⬍SEL.    ◄►ADJ.      EXIT RETURN
```

## Information

### ■ PLE settings

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

LOCK1, 2, 3 .... Sets maximum brightness.
The brightness level decreases in the order of LOCK 1, 2, 3. LOCK 3 provides minimum brightness.

### ORBITER

Use this to set the picture shift.

Example: Setting "ORBITER" to "AUTO1"

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

3. Use the ▲ and ▼ buttons to select "ORBITER".

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

→**OFF** ↔ **AUTO1** ↔ **AUTO2** ↔ **MANUAL**←

```
                 LONG LIFE
PLE                 :   AUTO
ORBITER             : ◀AUTO1 ▶
INVERSE             :   OFF
SCREEN WIPER        :   OFF



 ◆SEL.      ◀▶ADJ.        EXIT RETURN
```
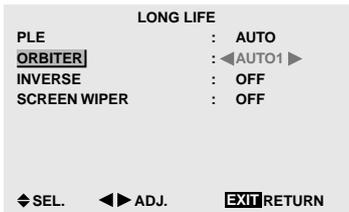
## Information

### ■ ORBITER settings

OFF .............. Orbiter mode does not function.

AUTO1 ......... The picture moves around the screen intermittently, making the picture smaller.

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

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

### Adjust the ORBITER function manually

Set the amount of shift and the time between movement.

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

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

4. Use the ◀ and ▶ buttons to select "MANUAL", then press the MENU/ENTER button.
THE "ORBITER" screen appears.

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

• H-DOT

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

• V-LINE

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

• TIME

→**1 M** ↔ **2 M** ↔ **3 M** ↔ **4 M** ↔ **5 M**←

```
                 ORBITER
H-DOT               : ◀2 DOT ▶
V-LINE              :   4 LINE
TIME                :   3 M



 ◆SEL.      ◀▶ADJ.        EXIT RETURN
```
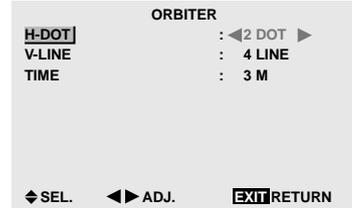
## Information

### ■ ORBITER Function settings

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

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

TIME ............ Interval of 1~5 minutes.

### INVERSE

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

Example: Setting "INVERSE" to "WHITE"

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

3. Use the ▲ and ▼ buttons to select "INVERSE".

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

→**OFF** ↔ **ON** ↔ **WHITE**←

```
                 LONG LIFE
PLE                 :   AUTO
ORBITER             :   OFF
INVERSE             : ◀WHITE▶
SCREEN WIPER        :   OFF



 ◆SEL.      ◀▶ADJ.        EXIT RETURN
```
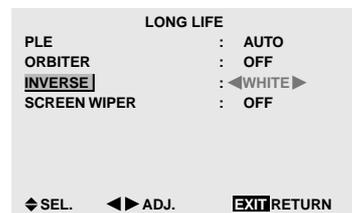
## Information

### ■ INVERSE Settings

ON ......... The picture is displayed alternately between positive image and negative image.
You can set the time by pressing the MENU/ENTER button while "ON" is set.

OFF ....... Inverse mode does not function.

WHITE ... The entire screen turns white.
You can set the time by pressing the MENU/ENTER button while "ON" is set.

## Setting the time for INVERSE/WHITE

Set a time duration.

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

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

4. Use the ◀ and ▶ buttons to select "ON", then press the MENU/ENTER button.
   THE "INVERSE/WHITE" screen appears.

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

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

   • WAITING TIME

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

```
                INVERSE/WHITE
WORKING TIME          : ◀01H30M ▶
WAITING TIME          :   02H00M




 ⬍ SEL.      ◀▶ ADJ.        EXIT RETURN
```

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

---
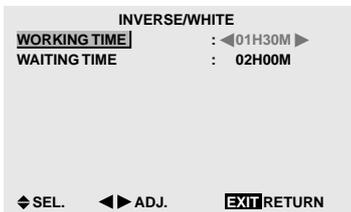
### *Information*

### ■ Setting the time

WORKING TIME ..... Set the time duration for "INVERSE/WHITE".
When the WORKING TIME is set to "ON" the mode will stay on.

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

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

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

* Ending a WORKING TIME function, the monitor will be STAND BY.
[Example]
WORKING TIME: 01H30M
WAITING TIME:   02H00M

```
←——— 2 H ———→|←— 1.5 H —→|←———
Start              INVERSE/WHITE Start   STAND BY
```

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

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

---

## SCREEN WIPER

When this is set to ON, a white vertical bar moves repeatedly from the left and of the screen to the right end at a constant speed.

Example: Setting "SCREEN WIPER" to "ON"

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

3. Use the ▲ and ▼ buttons to select "SCREEN WIPER".

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

   **OFF** ↔ **ON**

```
                 LONG LIFE
PLE                   :   AUTO
ORBITER               :   OFF
INVERSE               :   OFF
SCREEN WIPER          : ◀ON ▶



 ⬍ SEL.      ◀▶ ADJ.        EXIT RETURN
```
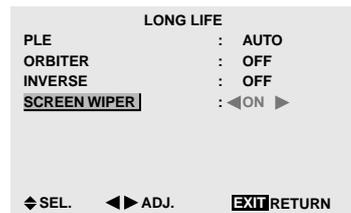
### *Information*

### ■ SCREEN WIPER

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

---

## Setting the time for SCREEN WIPER

Set a time duration and the speed.

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

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

4. Use the ◀ and ▶ buttons to select "ON", then press the MENU/ENTER button.
   THE "SCREEN WIPER" screen appears.

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

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

   • WAITING TIME

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

   • SPEED

   →**1** ↔ **2** ↔ **3** ↔ **4** ↔ **5**←

```
                SCREEN WIPER
WORKING TIME          : ◀01H30M ▶
WAITING TIME          :   00H30M
SPEED                 :   3




 ⬍ SEL.      ◀▶ ADJ.        EXIT RETURN
```

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

## Information

### ■ Setting the time

WORKING TIME ..... Set the time duration for "SCREEN WIPER".
When the WORKING TIME is set to "ON" the mode will stay on.

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

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

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

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

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

Example: Adjusting the "GRAY LEVEL"

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

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

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

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

3. *To adjust the "GRAY LEVEL"...*
   Use the ◀ and ▶ buttons to adjust the GRAY LEVEL.
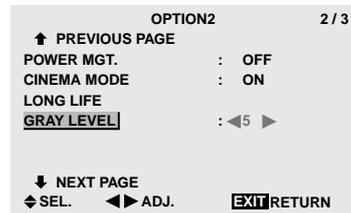
```
                    OPTION2            2 / 3
        ⬆ PREVIOUS PAGE
     POWER MGT.              :   OFF
     CINEMA MODE             :   ON
     LONG LIFE
     GRAY LEVEL              : ◀ 5 ▶


        ⬇ NEXT PAGE
     ⬍ SEL.      ◀ ▶ ADJ.        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

### ■ GRAY LEVEL settings

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

### ■ Restoring the factory default settings

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

# Option3 Settings Menu

## Using the timer

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

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

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

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

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

```
                    TIMER
PRESENT TIME
PROGRAM              :   OFF




  ♦ SEL.     MENU/ENTER OK     EXIT RETURN
```
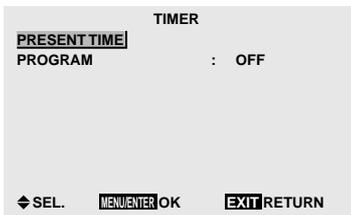
3. Set the TIMER using ▲▼◄ and ► buttons.
   See page 31 to set PRESENT TIME.
   See page 32 to set PROGRAM.

4. *Once the setting is completed ...*
   Press the EXIT button to return to the OPTION3 screen.
   To return to the main menu, press the EXIT button once more.

---

### Information

#### ■ Restoring the factory default settings

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

---

### PRESENT TIME

This sets the day of the week and present time.

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

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

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

```
              PRESENT TIME
RETURN
DAYLIGHT
  SAVING TIME          : ◄ OFF ►

             WEDNESDAY
             13 : 00 : 00

  ♦ SEL.    ◄ ► ADJ.     EXIT RETURN
```

4. Use the ▲ and ▼ buttons to select the item, then adjust using the ◄ and ► buttons.

```
              PRESENT TIME
RETURN
DAYLIGHT
  SAVING TIME          :   OFF

             WEDNESDAY
             22 : 05 : 00

  ♦ SEL.    ◄ ► ADJ.     EXIT RETURN
```

The mode switches as follows each time the ◄ or ► button is pressed:
- DAYLIGHT SAVING TIME

  **ON ↔ OFF**
- Day

  →**SUNDAY ↔ MONDAY ↔ ..... ↔ FRIDAY ↔ SATURDAY**←

- Hour/Minutes

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

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

```
              PRESENT TIME
RETURN
DAYLIGHT
  SAVING TIME          :   OFF

             WEDNESDAY
             22 : 05 : 00

SET
  ♦ SEL.    MENU/ENTER OK     EXIT RETURN
```

---

### Information

#### ■ PRESENT TIME settings

DAYLIGHT SAVING TIME

...................... Use to set DAYLIGHT SAVING TIME.
                      ON: The present time + 1 hour.
                      OFF: Cancelled

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

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

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

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

---

## PROGRAM TIMER

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

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

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

3. Use the ▲ and ▼ buttons to select "PROGRAM".

```
                    TIMER
PRESENT TIME
PROGRAM                    : ◀ OFF ▶




  ⬍ SEL.     ◀ ▶ ADJ.      EXIT RETURN
```
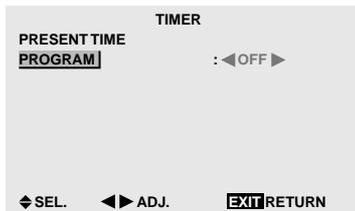
4. Use the ◀ and ▶ buttons to select "ON", then press the MENU/ENTER button.
   The "PROGRAM TIMER" screen appears.

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

```
                 PROGRAM TIMER
DATE    ON      OFF     INPUT   FUNCTION
MON   08 : 30  10 : 30   RGB2    INVERSE
 —    -- : --  -- : --    —        —
 —    -- : --  -- : --    —        —
 —    -- : --  -- : --    —        —
 —    -- : --  -- : --    —        —
 —    -- : --  -- : --    —        —
 ⬍ ◆ SEL.  ZOOM ADJ.      EXIT RETURN
```
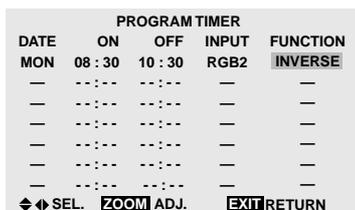
The mode switches as follows each time the ZOOM +/− button is pressed:
• Date

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

• ON/OFF Hour

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

• Minute

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

• INPUT

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

• FUNCTION

→ **—** ↔ **ORBITER** ↔ **INVERSE** ↔ **WHITE** ↔ **WIPER**←

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

### *Information*

#### ■ PROGRAM TIMER settings

DATE ...................... Set the day of the week (e.g. Sunday).

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

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

INPUT .................... Set the input mode that will be displayed when the timer is on.

FUNCTION ............ Set the LONG LIFE function.

#### ■ To reset the program

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

#### ■ To reset the data

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

#### ■ Special characters in the PROGRAM TIMER screen

```
                 PROGRAM TIMER
DATE    ON      OFF     INPUT   FUNCTION
MON   08 : 30  10 : 30   RGB2    INVERSE
TUE   -- : --  18 : 15    —        —
SAT   08 : 30  12 : 15   VIDEO1   WHITE
*FRI  08 : 30  10 : 00   HD/DVD1   —
 —    -- : --  -- : --    —        —
SAT   08 : 30  12 : 15   VIDEO1   WHITE
 *    15 : 30  16 : 00   RGB1      —
 ⬍ ◆ SEL.  ZOOM ADJ.      EXIT RETURN
```

• An asterisk "\*" in the DATE field

An asterisk "\*" means "every". For example, "\*FRI" means every Friday and "\*" means everyday.

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

If any hyphen remains in the ON field or OFF field, the FUNCTION can not be set.

• A hyphen "-" in the FUNCTION field

A hyphen "-" means last mode (the mode that was last selected at the time the power was switched off).

### Setting the power on mode

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

Example: Setting "VIDEO2"

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

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

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

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

3. *To set the PWR. ON MODE to "VIDEO2"...*
   Use the ◀ and ▶ buttons to select "VIDEO2".
   The mode switches as follows each time the ◀ or ▶ button is pressed:
   The available inputs depend on the setting of "BNC INPUT".

RGB: → **LAST** ↔ **VIDEO1** ↔ **VIDEO2** ↔ **VIDEO3** ←
→ **RGB3** ↔ **RGB2** ↔ **RGB1** ↔ **HD/DVD1** ←

COMP: → **LAST** ↔ **VIDEO1** ↔ **VIDEO2** ↔ **VIDEO3** ←
→ **RGB3** ↔ **RGB1** ↔ **HD/DVD2** ↔ **HD/DVD1** ←

```
                OPTION3        3 / 3
    ↑ PREVIOUS PAGE
  TIMER
  PWR. ON MODE      : ◄ VIDEO2 ►
  CONTROL LOCK      :   OFF
  IR REMOTE         :   ON
  LOOP OUT          :   OFF
  ID NUMBER         :   ALL
  VIDEO WALL
  ⬍ SEL.   ◄ ► ADJ.      EXIT RETURN
```
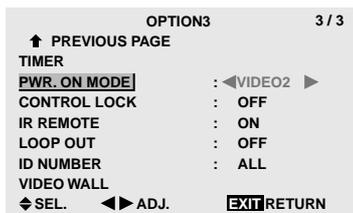
4. *Once the setting is completed...*
   Press the EXIT button return to the main menu.
   To delete the main menu, press the EXIT button once more.

---

### *Information*

#### ■ PWR. ON MODE settings

LAST ................ Last mode (the mode that was last selected at the time the power was switched off).

VIDEO1, 2, 3 .... VIDEO input mode.

RGB1, 2, 3 ....... RGB input mode.

HD/DVD1, 2 ..... HD/DVD input mode.

#### ■ Restoring the factory default settings

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

---

## Enabling/disabling the front panel controls

This function enables/disables the front panel controls.

Example: Setting "ON"

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

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

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

2. Use the ▲ and ▼ buttons to select "CONTROL LOCK".

3. *To set the CONTROL LOCK to "ON"...*
   Use the ◄ and ► buttons to select "ON", then press the MENU/ENTER button.
   The mode switches as follows each time the ◄ or ► button is pressed:

   **OFF ↔ ON**

```
                OPTION3        3 / 3
    ↑ PREVIOUS PAGE
  TIMER
  PWR. ON MODE      :   LAST
  CONTROL LOCK      : ◄ ON ►
  IR REMOTE         :   ON
  LOOP OUT          :   OFF
  ID NUMBER         :   ALL
  VIDEO WALL
  ⬍ SEL.   ◄ ► ADJ.      EXIT RETURN
```
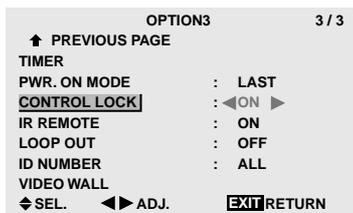
4. *Once the setting is completed...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

---

### *Information*

#### ■ CONTROL LOCK settings

ON ...... Disables the buttons on the front panel.

OFF .... Enables the buttons on the front panel.

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

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

#### ■ Restoring the factory default settings

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

---

## Enabling/disabling remote control wireless transmission

This function enables/disables remote control wireless transmission.

Example: Setting "OFF"

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

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

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

2. Use the ▲ and ▼ buttons to select "IR REMOTE".

3. *To set the IR REMOTE to "OFF"...*
   Use the ◄ and ► buttons to select "OFF", then press the MENU/ENTER button.
   The mode switches as follows each time the ◄ or ► button is pressed:

   **OFF ↔ ON**

```
                OPTION3        3 / 3
    ↑ PREVIOUS PAGE
  TIMER
  PWR. ON MODE      :   LAST
  CONTROL LOCK      :   OFF
  IR REMOTE         : ◄ OFF ►
  LOOP OUT          :   OFF
  ID NUMBER         :   ALL
  VIDEO WALL
  ⬍ SEL.   ◄ ► ADJ.      EXIT RETURN
```
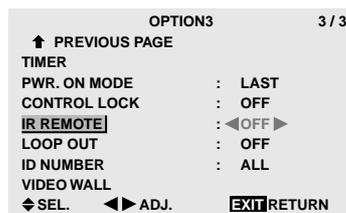
4. *Once the setting is completed...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

---

### *Information*

#### ■ IR REMOTE settings

ON ...... Enables remote control wireless transmission.

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

#### ■ Restoring the factory default settings

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

## Loop Out setting

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

Example: Setting "ON"

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

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

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

2. Use the ▲ and ▼ buttons to select "LOOP OUT".

3. *To set the LOOP OUT to "ON"...*
   Use the ◄ and ► buttons to select "ON".
   The mode switches as follows each time the ◄ or ► button is pressed:

   **OFF ↔ ON**

   ```
                    OPTION3              3 / 3
      ⬆ PREVIOUS PAGE
   TIMER
   PWR. ON MODE           :   LAST
   CONTROL LOCK           :   OFF
   IR REMOTE              :   ON
   LOOP OUT               : ◄ON ►
   ID NUMBER              :   ALL
   VIDEO WALL
   ⬍ SEL.    ◄► ADJ.         EXIT RETURN
   ```
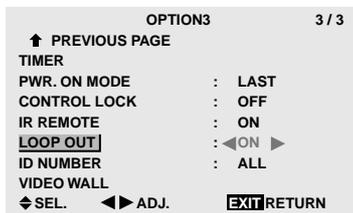
4. *Once the setting is completed...*
   Press the EXIT button to return to the main menu.
   To delete the main menu, press the EXIT button once more.

### Information

#### ■ LOOP OUT settings

ON ...... The received signal will be looped out via PC1 terminal or VIDEO1 terminal.
OFF .... The received signal will not loop out.

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

#### ■ To connect another display...

See page 10.

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

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

#### ■ Restoring the factory default settings

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

## ID number setting

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

Example: Setting "2"

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

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

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

2. Use the ▲ and ▼ buttons to select "ID NUMBER".

3. *To set the ID NUMBER to "2"...*
   Use the ◄ and ► buttons to select "2".
   The mode switches as follows each time the ◄ or ► button is pressed:

   →ALL ↔ 1 ↔ 2 ↔ ..... ↔ 255 ↔ 256←

   ```
                    OPTION3              3 / 3
      ⬆ PREVIOUS PAGE
   TIMER
   PWR. ON MODE           :   LAST
   CONTROL LOCK           :   OFF
   IR REMOTE              :   ON
   LOOP OUT               :   OFF
   ID NUMBER              : ◄2 ►
   VIDEO WALL
   ⬍ SEL.    ◄► ADJ.         EXIT RETURN
   ```

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

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

### Information

#### ■ ID NUMBER settings

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

#### ■ When the ID NUMBER have been set

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

#### ■ Restoring the factory default settings

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

### To set the ID number for the remote control

Example: Setting "2"

1. Press the ID SELECT button on the remote control.
   The "ID SELECT" screen appears.

2. Use the ▲ and ▼ buttons to select "ID NUMBER".

3. *To set the ID NUMBER to "2"...*
   Use the ◄ and ► buttons to select "2".
   The mode switches as follows each time the ◄ or ► button is pressed:

   →ALL ↔ 1 ↔ 2 ↔ ..... ↔ 255 ↔ 256←

   ```
                    ID SELECT
              POSITION :   1

   ID NUMBER              : ◄2 ►




              ◄► ADJ.         EXIT RETURN
   ```
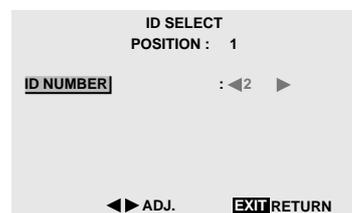
* **To reset back to ALL**
  Press the CLEAR button.

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

## Video Wall setting

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

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

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

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

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

```
                VIDEO WALL
DIVIDER                   : ◄ 1 ►
POSITION
DISP. MODE                :   SPLIT
AUTO ID                   :   OFF
IMAGE ADJUST
P. ON DELAY               :   OFF
PLE LINK                  :   OFF
REPEAT TIMER              :   OFF
 ⬥ SEL.      ◄ ► ADJ.        EXIT RETURN
```
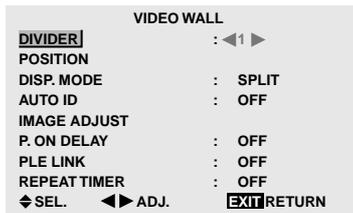
3. Set the VIDEO WALL using ▲▼ ◄ and ► buttons.
   See page 35 to set DIVIDER.
   See page 35 to set POSITION.
   See page 36 to set DISP. MODE.
   See page 36 to set AUTO ID.
   See page 36 to set IMAGINE ADJUST.
   See page 37 to set P. ON DELAY.
   See page 37 to set PLE LINK.
   See page 38 to set REPEAT TIMER.

4. *Once the setting is completed...*
   Press the EXIT button to return to the OPTION3 menu.

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

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

### *Information*

#### ■ Restoring the factory default settings

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

### DIVIDER

Set the 2×2 or 3×3 video wall.
Example: Setting "4"

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

3. Use the ▲ and ▼ buttons to select "DIVIDER".

4. Use the ◄ and ► buttons to select "4".
   The mode switches as follows each time the ◄ or ► button is pressed:

   → **OFF** ↔ **1** ↔ **4** ↔ **9** ←

```
                VIDEO WALL
DIVIDER                   : ◄ 4 ►
POSITION
DISP. MODE                :   SPLIT
AUTO ID                   :   OFF
IMAGE ADJUST
P. ON DELAY               :   OFF
PLE LINK                  :   OFF
REPEAT TIMER              :   OFF
 ⬥ SEL.      ◄ ► ADJ.        EXIT RETURN
```

### *Information*

#### ■ DIVIDER settings

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

4 ................ 4 Screens (2×2 video wall)

9 ................ 9 Screens (3×3 video wall)

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

### VIDEO WALL POSITION

Set the position of each display.

Example: Setting "4"

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

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

4. Use the ◄ and ► buttons to select "NO. 4".
   The mode switches as follows each time the ◄ or ► button is pressed:
   • 4 Screens

   → **NO. 1** ↔ **NO. 2** ↔ **NO. 3** ↔ **NO. 4** ←

   • 9 Screens

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

```
         VIDEO WALL POSITION

      POSITION NO. ◄ 4 ►

         ┌─────┬─────┐
         │     │     │
         ├─────┼─────┤
         │░░░░░│     │
         └─────┴─────┘

      ◄ ► ADJ.          EXIT RETURN
```
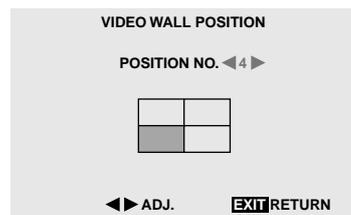
5. Press the EXIT button to return to the VIDEO WALL screen.

### *Information*

#### ■ VIDEO WALL POSITION settings

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

4 Screens

| NO. 1 | NO. 2 |
|-------|-------|
| NO. 4 | NO. 3 |

9 Screens

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

## DISP. MODE

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

Example: Setting "BLANK"

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

3. Use the ▲ and ▼ buttons to select "DISP. MODE".

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

   **SPLIT ↔ BLANK**

   ```
              VIDEO WALL
   DIVIDER              :  1
   POSITION
   DISP. MODE           : ◀BLANK▶
   AUTO ID              :  OFF
   IMAGE ADJUST
   P. ON DELAY          :  OFF
   PLE LINK             :  OFF
   REPEAT TIMER         :  OFF
   ⬥SEL.      ◀▶ ADJ.      EXIT RETURN
   ```

---
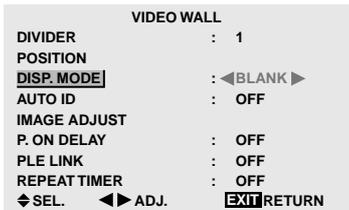
### *Information*

### ■ DISP. MODE settings

SPLIT ......... Combines enlarged screens and creates multiple screens.

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

---

## AUTO ID

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

Example: Setting "ON"

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

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

3. Use the ▲ and ▼ buttons to select "AUTO ID".

4. Use the ◀ and ▶ buttons to select "ON", then press the MENU/ENTER button.
   The mode switches as follows each time the ◀ or ▶ button is pressed:

   **OFF ↔ ON**

   ```
                    AUTO ID
   AUTO ID                    : ◀ ON ▶
   1 ▶ 2                     1 ▶ 2 ▶ 3
        ▼                              ▼
   4 ◀ 3                     8 ▶ 9    4
                             ▲         ▼
                             7 ◀ 6 ◀ 5
              WIRED CABLE
            CONNECTION TURN
   ◀▶ ADJ.          EXIT RETURN
   ```

---
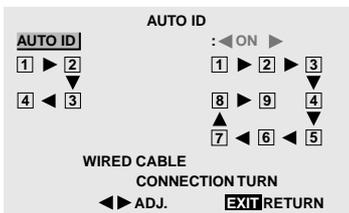
### *Information*

### ■ AUTO ID settings

ON ...... Enables Auto ID function. In the case shown below, display 1 will be set as ID 1, display 2 as ID2, etc.
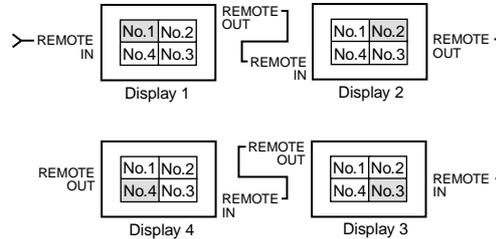


OFF .... Disables Auto ID function.

---

## IMAGE ADJUST

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

Example: Adjusting the vertical position

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

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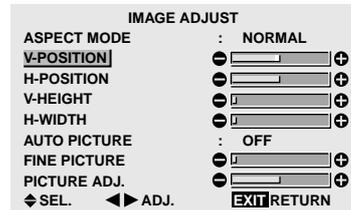
4. Use the ▲ and ▼ buttons to select "V-POSITION".

   ```
                  IMAGE ADJUST
   ASPECT MODE        :   NORMAL
   V-POSITION         ⊖�_____⊕
   H-POSITION         ⊖▢__⊕
   V-HEIGHT           ⊖▢_____⊕
   H-WIDTH            ⊖▢_____⊕
   AUTO PICTURE       :   OFF
   FINE PICTURE       ⊖▢_____⊕
   PICTURE ADJ.       ⊖▢_____⊕
   ⬥SEL.     ◀▶ ADJ.     EXIT RETURN
   ```

5. Adust using the ◀ and ▶ buttons.

   ```
   V-POSITION              ⊖▢____⊕
   ```

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

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

---

### *Information*

### ■ IMAGE ADJUST settings

These are the same functions as the IMAGE ADJUST menu on page 22.

Use this function to activate power-on delay.
Turn on the AUTO ID before the following operations.
Example: Setting "ON"

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

3. Use the ▲ and ▼ buttons to select "P. ON DELAY".

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

   **OFF ↔ ON**

   ```
                     VIDEO WALL
   DIVIDER              :   1
   POSITION
   DISP. MODE           :   SPLIT
   AUTO ID              :   OFF
   IMAGE ADJUST
   P. ON DELAY          : ◀ON ▶
   PLE LINK             :   OFF
   REPEAT TIMER         :   OFF
   ⬥ SEL.      ◀ ▶ ADJ.    EXIT RETURN
   ```

---

### *Information*

#### ■ P. ON DELAY settings

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

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

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

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

---

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

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

3. Use the ▲ and ▼ buttons to select "PLE LINK".

4. Use the ◀ and ▶ buttons to select "ON", then press the
   MENU/ENTER button.
   The mode switches as follows each time the ◀ or ▶
   button is pressed:

   **OFF ↔ ON**

   ```
                     VIDEO WALL
   DIVIDER              :   1
   POSITION
   DISP. MODE           :   SPLIT
   AUTO ID              :   OFF
   IMAGE ADJUST
   P. ON DELAY          :   OFF
   PLE LINK             : ◀ON ▶
   REPEAT TIMER         :   OFF
   ⬥ SEL.      ◀ ▶ ADJ.    EXIT RETURN
   ```

---

### *Information*

#### ■ PLE LINK settings

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

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

\* Set "OFF" in a 3×3 video wall.

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

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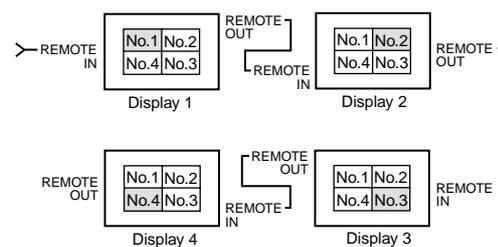


***Note:*** *The remote control can be operated unless the
IR REMOTE is set to "OFF".*

## REPEAT TIMER

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

Example:

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

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

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

```
                    VIDEO WALL
    DIVIDER                 :   1
    POSITION
    DISP. MODE              :   SPLIT
    AUTO ID                 :   OFF
    IMAGE ADJUST
    P. ON DELAY             :   OFF
    PLE LINK                :   OFF
    REPEAT TIMER            : ◄OFF►
    ◆SEL.      ◄►ADJ.       EXIT RETURN
```

4. Use the ◄ and ► buttons to select "ON", then press the MENU/ENTER button.
   The "REPEAT TIMER" screen appears.

5. Adust using the ▲▼ ◄ and ► buttons.
   The mode switches as follows each time the ◄ or ► button is pressed:

```
                  REPEAT TIMER
    1  DIVIDER              :   1
       SOURCE              :   VIDEO1
       WORK TIME           :   00H03M

    2  DIVIDER              :   4
       SOURCE              :   RGB1
       WORK TIME           : ◄00H06M►

       ◆SEL.     ◄►ADJ.     EXIT RETURN
```
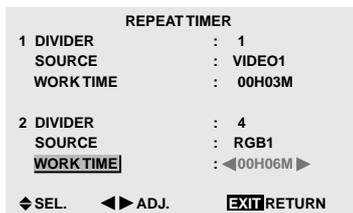
   • DIVIDER

   → 1 ↔ 4 ↔ 9 ←

   • SOURCE

   The available sources depend on the setting of "BNC INPUT".

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

   • WORK TIME

   → **00H01M** ↔ **00H02M** ↔ **00H03M** ↔ **.....** ↔ **04H14M** ↔ **04H15M** ←

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

---

### *Information*

#### ■ REPEAT TIMER settings

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

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

---

# Advanced OSM Settings Menu

## Setting the menu mode

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

Example: Setting "ON"

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

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

```
                MAIN MENU         1 / 2
    PICTURE
    AUDIO
    IMAGE ADJUST
    OPTION1


    ADVANCED OSM           : ◄OFF►
     ↓ NEXT PAGE
    ◆SEL.      ◄►ADJ.       EXIT EXIT
```

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

   **OFF** ↔ **ON**

```
                MAIN MENU         1 / 2
    PICTURE
    AUDIO
    IMAGE ADJUST
    OPTION1
    OPTION2
    OPTION3
    ADVANCED OSM           : ◄ON ►
     ↓ NEXT PAGE
    ◆SEL.      ◄►ADJ.       EXIT EXIT
```
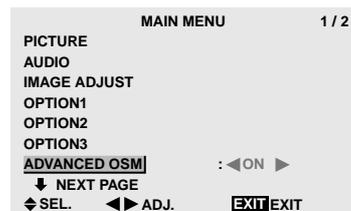
3. *Once the setting is completed...*
   Press the Exit button to delete the main menu.

---

### *Information*

#### ■ ADVANCED OSM settings

ON ...... All of the main menu items are available for advanced users.
OFF .... Some of the main menu items are not available (e.g. OPTION2, OPTION3).

#### ■ Restoring the factory default settings

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

---

# Language Settings Menu

## Setting the language for the menus

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

Example: Setting the menu display to "DEUTSCH"

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

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

2. *To select "DEUTSCH" ...*
   Use the ◄ and ► buttons to select " DEUTSCH".
   The mode switches as follows when the ◄ and ► buttons are pressed:

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

```
                    LANGUAGE

  LANGUAGE
                              : ◀ DEUTSCH ▶




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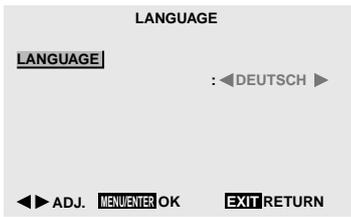
3. *Once the setting is completed ...*
   Press the MENU/ENTER button to store the setting and
   return to the main menu.
   To delete the main menu, press the EXIT button.

---

### *Information*

#### ■ Language settings

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

---

## Color System Settings Menu
### Setting the video signal format

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

Example: Setting the color system to "3.58 NTSC"

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

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

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

   → **AUTO** ↔ **3.58NTSC** ↔ **4.43NTSC** ←
   ↳ **SECAM** ↔ **PAL-M** ↔ **PAL-N** ↔ **PAL60** ↔ **PAL** ←
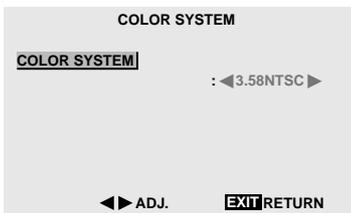
```
                  COLOR SYSTEM

  COLOR SYSTEM
                             : ◀ 3.58NTSC ▶




  ◀▶ADJ.         EXIT RETURN
```

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

---

### *Information*

#### ■ Video signal formats

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

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

---

## Source Information Menu
### Checking the frequencies, polarities of input signals, and resolution

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

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

1. Use the ▲ and ▼ buttons to select "SOURCE
   INFORMATION", then press the MENU/ENTER
   button.

2. The "SOURCE INFORMATION" is displayed.
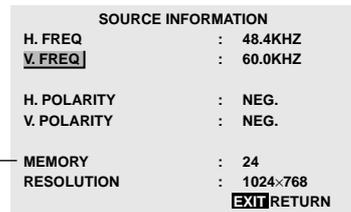
```
            SOURCE INFORMATION
   H. FREQ            :   48.4KHZ
   V. FREQ            :   60.0KHZ

   H. POLARITY       :   NEG.
   V. POLARITY       :   NEG.

   MEMORY            :   24
   RESOLUTION        :   1024×768
                         EXIT RETURN
```
   PC:      MEMORY will be displayed.
   Others: MODE will be displayed.

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

# External Control

## Application

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

## Connections

Connections are made as described below.



External equipment
e.g., Personal computer

Display
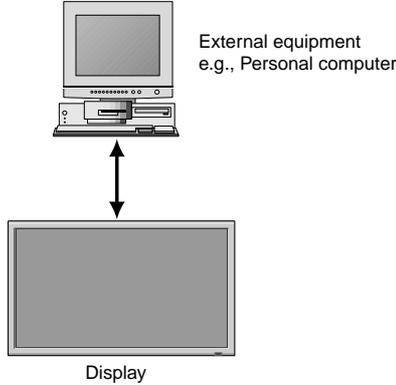
Connector on the plasma monitor side: EXTERNAL CONTROL connector.
Use a crossed (reverse) cable.

### Type of connector: D-Sub 9-pin male

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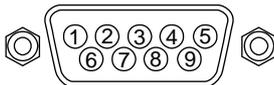


## Communication Parameters

| | |
|---|---|
| (1) Communication system | Asynchronous |
| (2) Interface | RS-232C |
| (3) Baud rate | 9600 bps |
| (4) Data length | 8 bits |
| (5) Parity | Odd |
| (6) Stop bit | 1 bit |
| (7) Communication code | Hex |

## External Control Codes (Reference)

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

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

# Table of Signals Supported

## ■ 42VP4/42VP4D
## Supported resolution

- When the screen mode is NORMAL, each signal is converted to a 640 dots×480 lines signal (42VP4/42VP4D). (Except for *2, *4)
- When the screen mode is FULL, each signal is converted to a 853 dots×480 lines signal (42VP4/42VP4D). (Except for *3)

### Computer input signals supported by this system

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

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

*2 Display only 400 lines (42VP4/42VP4D) with the screen center of the vertical orientation located at the center.

*3 42VP4/42VP4D: The picture is displayed in the original resolution. The picture will be compressed for other signals.

*4 Aspect ratio is 5:4. This signal is converted to the following signal (42VP4/42VP4D: 600 dots×480 lines).

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

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

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

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*NOTE:*

- *While the input signals comply with the resolution listed in the table above, you may have to adjust the position and size of the picture or the fine picture because of errors in synchronization of your computer.*
- *This monitor has a resolution of 853 dots×480 lines. It is recommended that the input signal be VGA, wide VGA or equivalent for 42VP4/42VP4D.*
- *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.*

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

* "Apple Macintosh" is a registered trademark of Apple Computer, Inc. of the United States.

# Troubleshooting

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

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

*1 Overheat protector
If the monitor becomes too hot, the overheat protector will be activated and the monitor will be turned off. If this happens, turn off the power to the monitor and unplug the power cord. If the room where the monitor is installed is particularly hot, move the monitor to a cooler location and wait for the monitor to cool for 60 minutes. If the problem persists, contact your dealer.
*2 In the following case, power off the monitor immediately and contact your dealer or authorized Service Center.
The monitor turns off 5 seconds after powering on and then the POWER/STANDBY indicator blinks. It indicates that the power supply circuit, plasma display panel or temperature sensor have been damaged.

# Specifications

## ■ 42VP4/42VP4D

| | |
|---|---|
| **Screen Size** | 36.3"(H)×20.4"(V) inches<br>921(H)×518(V) mm<br>diagonal 42"<br>42VP4: Installed AR (Anti-Reflection) Filter<br>42VP4D: Installed AG (Anti-Glare) Filter |
| **Aspect Ratio** | 16 : 9 |
| **Resolution** | 853(H)×480(V) pixels |
| **Pixel Pitch** | 0.04"(H)×0.04"(V) inches<br>1.08(H)×1.08(V) mm |
| **Color Reproduction** | 256 levels, 16,770,000 colors |
| **Signals** | |
| Synchronization Range | Horizontal : 15.5 to 110 kHz<br>(automatic : step scan)<br>Vertical : 50.0 to 120 Hz<br>(automatic : step scan) |
| Input Signals | RGB, NTSC (3.58/4.43), PAL (B,G,M,N),<br>PAL60, SECAM, HD*1, DVD*1, DTV*1 |

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

| | |
|---|---|
| **RGB** | |
| Visual 1 (Analog) | mini D-sub 15-pin×1 |
| Visual 2 (Analog) | BNC (R, G, B, H/CS, V)×1*2 |
| Visual 3 (Digital) | DVI-I 24-pin×1*3<br>(Not compatible with analog input) |
| **Video** | |
| Visual 1 | BNC×1 |
| Visual 2 | RCA-pin×1 |
| Visual 3 | S-Video: DIN 4-pin×1 |
| **DVD/HD/DTV** | |
| Visual 1 | RCA-pin (Y, PB[CB], PR[CR])×1*1 |
| Visual 2 | BNC (Y, PB[CB], PR[CR])×1*1, *2 |
| **Audio** | Stereo RCA×3(Selectable) |
| **External Control** | D-sub 9-pin×1(RS-232C) |
| **Sound output** | 8W+8W at 6 ohm |
| **Power Supply** | AC120V 50/60Hz |
| **Current Rating** | 3.7A (maximum) |
| **Power Consumption** | 270W (typical) |
| **Dimensions** | 40 (W)×24 (H)×3.5 (D) inches<br>1018 (W)×610 (H)×89(D) mm |
| **Weight** | 62.8 lbs / 28.5 kg (without stand) |

**Environmental Considerations**

| | | |
|---|---|---|
| Operating | Temperature | 0°C to 40°C / 32°F to 104°F |
| | Humidity | 20 to 80% (no condensation) |
| | Altitude | 0 to 9180 feet / 0 to 2800 m |
| Storage | Temperature | -10°C to 50°C / 14°F to 122°F |
| | Humidity | 10 to 90% (no condensation) |
| | Altitude | 0 to 9840 feet / 0 to 3000 m |

| | |
|---|---|
| **Front Panel User Controls** | Power on/off, Input source select, Volume up/down, OSM control |
| **Remote Control Functions** | Power on/off, Input source select, OSM control, Volume up/down, Cursor (UP, DOWN,LEFT, RIGHT), Pointer, Zoom up/down, Off timer, Wireless/ Wired remote control |
| **OSM Functions** | Picture (Contrast/Brightness/Sharpness/Color/Tint/Picture mode/Noise reduction/Color temperature/White balance/Gamma/Low tone/Color tune), Audio (Bass/Treble/Balance/Audio input), Image Adjust (Aspect mode/V-Position /H-Position/V-Height /H-Width/Auto Picture/Fine picture/Picture adjustment), Option1 (OSM/BNC Input/D-Sub Input/RGB Select/HD Select/Input Skip/All Reset), Option2 (Power management/Cinema mode/Long life [PLE, Orbiter, Inverse, White, Screen wiper]/Gray level), Option3 (Timer/Power on mode/Control lock/IR Remote/Loop out/ID number/Video wall [Divider, Position, Disp. mode, Auto ID, Image adjust, Power on delay, PLE link, |



Units are in inch
(mm)

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

> *1 **HD/DVD/DTV input signals supported on this system**
>
> | | |
> |---|---|
> | 480P (60 Hz) | 480I (60 Hz) |
> | 525P (60 Hz) | 525I (60 Hz) |
> | 576P (50 Hz) | 576I (50 Hz) |
> | 625P (50 Hz) | 625I (50 Hz) |
> | 720P (60 Hz) | 1035I (60 Hz) |
> | 1080I (50 Hz) | 1080I (60 Hz) |
>
> *2 **The 5-BNC connectors are used as RGB/PC2 and HD/DVD2 input. Select one of them under "BNC INPUT".**
>
> *3 **Not compatable with HDCP.**

| | |
|---|---|
| | Timer]), Advanced OSM, Language*, Color system, Source information<br>*English, German, French, Italian, Spanish, Swedish, Chinese |
| **Other Features** | Motion compensated 3D Scan Converter (NTSC, PAL, 480I, 576I, 525I, 625I, 1035I, 1080I), 2-3 pull down Converter (NTSC, 480I, 525I, 1035I, 1080I), 2-2 pull down Converter (PAL, 576I, 625I, NTSC, 480I, 525I), Digital Zoom Function (100-900% Selectable), Video Wall 2×2/3×3 multi screen, Self Diagnosis, Anti Image Burn (PLE LOCK1~3, INVERSE, WHITE, ORBITER (Auto1,2/Manual), SCREEN WIPER), Color Temperature select (high/mid/mid low/low, user has 4 memories), Control lock (Except power SW), Auto Picture, Input Skip, Color Tune, Low Tone (3 mode), Auto ID, Programmable Timer, Gamma Correction (4 mode), Loop through interface, Plug and play (DDC1, DDC2b, RGB3: DDC2b only) |
| **Accessories** | Remote control with two AAA batteries, Power cord, User's Manual, Safety metal fittings, Screw for Safety metal fittings, Ferrite cores, Bands, Cable clamps |
| **Regulations** | UL Approved (UL 60950/ CSA 60950)<br>DOC Canada requirements<br>Meets FCC class A requirements |

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# Limited Warranty   Plasma Monitors

NEC Solutions, Inc. (hereinafter NEC Solutions) warrants this product to be free from defects in material and workmanship under the following terms and, subject to the conditions set forth below, agrees to repair or replace (at NEC Solutions' sole option) any part of the enclosed unit which proves defective. Replacement parts or products may be new or refurbished and will meet specifications of the original parts or products.

## HOW LONG IS THE WARRANTY?

Parts and labor are warranted for (1) one year from the date of the first customer purchase.

## WHO IS PROTECTED?

This warranty may be enforced only by the first purchaser.

## WHAT IS COVERED AND WHAT IS NOT COVERED

Except as specified below, this warranty covers all defects in material or workmanship in this product. The following are not covered by the warranty:

1. Any product which is not distributed in the U.S.A. or Canada by NEC Solutions or which is not purchased in the U.S.A. or Canada from an authorized NEC Solutions dealer.
2. Any product of which the serial number has been defaced, modified or removed.
3. Damage, deterioration or malfunction resulting from:
   a. Accident, misuse, abuse, neglect, fire, water, lightning or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
   b. Repair or attempted repair by anyone not authorized by NEC Solutions.
   c. Any shipment of the product (claims must be presented to the carrier).
   d. Removal or installation of the product.
   e. Any other cause which does not relate to a product defect.
   f. Burns or residual images upon the phosphor of the panel.
4. Cartons, carrying cases, batteries, external cabinets, magnetic tapes, or any accessories used in connection with the product.
5. Service outside of the U.S.A. and Canada.

## WHAT WE WILL PAY FOR AND WHAT WE WILL NOT PAY FOR

We will pay labor and material expenses for covered items, but we will not pay for the following:

1. Removal or installation charges.

2. Costs of initial technical adjustments (set-up), including adjustment of user controls. These costs are the responsibility of the NEC Solutions dealer from whom the product was purchased.

3. Shipping charges.

## HOW YOU CAN GET WARRANTY SERVICE

1. To obtain service on your product, consult the dealer from whom you purchased the product.
2. Whenever warranty service is required, the original dated invoice (or a copy) must be presented as proof of warranty coverage. Please also include in any mailing your name, address and a description of the problem(s).
3. For the name of the nearest NEC Solutions authorized service center, call NEC Solutions at 800-836-0655.

## LIMITATIONS OF LIABILITY

Except for the obligations specifically set forth in this warranty statement, we will not be liable for any direct, indirect, special, incidental, consequential, or other types of damages, whether based on contract, tort, or any other legal theory, whether or not we have been advised of the possibility of such damages. This warranty is in lieu of all other warranties expressed or implied, including, but not limited to, the implied warranties of merchantability or fitness for a particular purpose.

## EXCLUSION OF DAMAGES

NEC Solutions' liability for any defective product is limited to the repair or replacement of the product at our option. NEC Solutions shall not be liable for:

1. Damage to other property caused by any defects in this product, damages based upon inconvenience, loss of use of the product, loss of time, commercial loss; or
2. Any other damages whether incidental, consequential or otherwise. Some states do not allow limitation on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

## HOW STATE LAW RELATES TO THE WARRANTY

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

FOR MORE INFORMATION,
TELEPHONE 800-836-0655
NEC SOLUTIONS (AMERICA), INC.
1250 N. Arlington Heights Road, Suite 500
Itasca, Illinois 60143-1248

*Note:* *All products returned to NEC Solutions (America), Inc. for service MUST have prior approval. To get approval, call NEC Solutions (America), Inc. at 800-836-0655.*

**NEC**