PlasmaSync Plasma Monitor



User's Manual



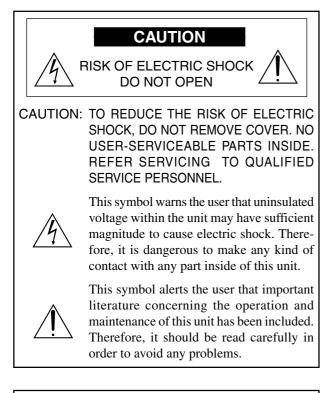


Download from Www.Somanuals.com. All Manuals Search And Download.

Important Information

Precautions

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



WARNING

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

WARNING

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

Warnings and Safety Precaution

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

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

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

1. Provide adequate space for ventilation to avoid internal heat build-up. Do not cover rear vents or install in a closed cabinet or shelves.

The unit is equipped with cooling fans. If you install the unit in an enclosure, be sure there is adequate space at the top of the unit to allow hot air to rise and escape. If the monitor becomes too hot, the overheat protector will be activated and the monitor will be turned off. If this happens, turn off the power to the monitor and unplug the power cord. If the room where the monitor is installed is particularly hot, move the monitor to a cooler location, and wait for the monitor to cool for 60 minutes. If the problem persists, contact your NEC dealer for service.

- 2. Do not use the power cord polarized plug with extension cords or outlets unless the prongs can be completely inserted.
- 3. Do not expose unit to water or moisture.
- 4. Avoid damage to the power cord, and do not attempt to modify the power cord.
- 5. Unplug unit during electrical storms or if unit will not be used over a long period.
- 6. Do not open the cabinet which has potentially dangerous high voltage components inside. If the unit is damaged in this way the warranty will be void. Moreover, there is a serious risk of electric shock.
- Do not attempt to service or repair the unit. NEC 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 NEC Service Centers.

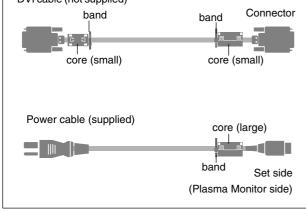
NOTE:

When you connect a computer to this monitor, attach the supplied ferrite cores. If you do not do this, this monitor will not comform to mandatory FCC standards. Attaching the ferrite cores.

Set the ferrite cores on the both ends of the DVI cable (not supplied), and the one end of the power cable (supplied).

Close the lid tightly until the clamps click.

Use the band to secure the ferrite core (supplied). DVI cable (not supplied)



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. Locate set away from heat, excessive dust, and direct sunlight.
- 4. Protect the inside of the unit from liquids and small metal objects. In case of accident, unplug the unit and have it serviced by an authorized NEC 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 NEC dealer.
- 7. As is the case with any phosphor-based display (like a CRT monitor, for example) light output will gradually decrease over the life of a Plasma Display Panel.

Recommendations to avoid or minimize phosphor burn-in

Like all phosphor-based display devices and all other gas plasma displays, plasma monitors can be susceptible to phosphor burn under certain circumstances. Certain operating conditions, such as the continuous display of a static image over a prolonged period of time, can result in phosphor burn if proper precautions are not taken. To protect your investment in this NEC 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.
- * 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 (ie. photographic or photo-realistic images).
- * Create image content with minimal contrast between light and dark areas, for example white characters on black backgrounds. Use complementary or pastel color whenever possible.
- * Avoid displaying images with few colors and distinct, sharply defined borders between colors.

Contact NEC Technologies at 1-800-836-0655 for other recommended procedures that will best suit your particular application needs.

Précautions

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

ATTENTION **RISQUE D'ELECTROCUTION NE PAS OUVRIR** MISE EN GARDE: AFIN DE REDUIRE LES RISQUES D'ELECTRO-CUTION, NE PAS DEPOSER LE COUVERCLE, IL N'Y A AUCUNE PIECE UTILISABLE A L'INTERIEUR DE CET APPAREIL. NE CONFIER LES TRAVAUX D'ENTRETIEN QU'A UN PERSONNEL QUALIFIE. Ce symbole a pour but de prévenir l'utilisateur de la présence d'une tension dangereuse, non isolée se trouvant à l'intérieur de l'appareil. Elle est d'une intensité suffisante pour constituer un risque d'électrocution. Eviter le contact avec les pièces à l'intérieur de cet appareil. Ce symbole a pour but de prévenir l'utilisateur de la présence d'importantes instructions concernant l'entretien et le fonctionnement de cet appareil. Par conséquent, elles doivent être lues attentivement afin d'éviter des problèmes. **AVERTISSEMENT** AFIN DE REDUIRE LES RISQUES D'INCENDIE OU D'ELECTROCUTION, NE PAS EXPOSER CET APPAREIL A LA PLUIE OU A L'HUMIDITE. AUSSI, NE PAS UTILISER LA FICHE POLARISEE AVEC UN PROLONGATEUR OU UNE AUTRE PRISE DE COURANT SAUF SI CES LAMES PEUVENT ETRE INSEREES A FOND. NE PAS OUVRIR LE COFFRET, DES COMPOSANTS

APPAREIL. DOC avis de conformation

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

HAUTE TENSION SE TROUVENT A L'INTERIEUR. LAISSER A

UN PERSONNEL QUALIFIE LE SOIN DE REPARER CET

Mises en garde et précautions de sécurité

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

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

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

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.

L'appareil est équipé de ventilateurs de refroidissement. Si vous installez l'appareil dans un espace clos, assurezvous qu'il y ait suffisamment d'espace au dessus pour permettre à l'air chaud de s'élever et de s'évacuer.

Si la température du moniteur devient excessive, la protection contre les surchauffes entrera en action et coupera l'alimentation. Dans ce cas, éteindre l'appareil et débrancher le câble d'alimentation. Si la température de la pièce dans laquelle le moniteur est installé est particulièrement excessive, déplacer l'appareil dans un endroit plus frais et le laisser refroidir 60 minutes. Si le problème persiste, prendre contact avec le revendeur NEC pour le service après-vente.

- 2. Ne pas utiliser la fiche polarisée du cordon d'alimentation avec des prolongateurs ou des prises de courant, sauf si les lames peuvent être insérées à fond.
- 3. Ne pas exposer à L'eau ou à l'humidité.
- 4. Eviter d'endommager le cordon d'alimentation, et ne pas modifier le cordon d'alimentation.
- 5. Débrancher l'appareil pendant les tempêtes ou si l'appareil n'est pas utilisé pendant une longue période.
- 6. Ne pas ouvrir le coffret. Des composants de haute tension se trouvent à l'intérieur. Si l'appareil est endommagé de cette manière, la garantie devient caduque. De plus, il y a risque d'électrocution.
- Ne pas essayer de réparer ou entretenir l'appareil soimême. NEC ne saura être tenu pour responsable pour toute blessure ou dommage causé par des personnes non qualifiées qui essayent de réparer ou d'ouvrir le couvercle arrière. Confier toute réparation à un centre de service agréé NEC.

REMARQUE:

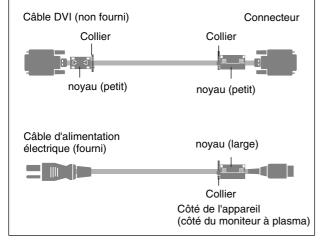
Lorsque vous branchez un micro-ordinateur sur ce moniteur, fixez les noyaux en ferrites fournis. Si vous ne le faîtes, le moniteur ne sera pas en conformité avec les exigences des standards FCC.

Fixation des noyaux en ferrite.

Installez les noyaux en ferrite sur chaque bout du câble DVI (non fourni), ainsi que sur un côté du câble d'alimentation électrique (founi).

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

Utiliser les colliers pour fixer la tore en ferrite (fourni)



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

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

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

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

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

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

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

Contactez NEC Technologies au 1-800-836-0655 pour d'autres procédures recommandées qui conviendront le mieux au besoin de votre appareil.

Limited Warranty Plasma Monitors

NEC Technologies, Inc. (hereinafter NECTECH) 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 NECTECH's 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 product.

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 and Mexico by NECTECH or which is not purchased in the U.S.A. or Canada or Mexico from an authorized NECTECH dealer.
- 2. Any product on 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 NECTECH.
 - 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 NECTECH dealer from whom the product was purchased.
- 3. Payment of 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 NECTECH authorized service center, call NECTECH 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 express or implied, including, but not limited to, the implied warranties of merchantability or fitness for a particular purpose.

EXCLUSION OF DAMAGES

NECTECH's liability for any defective product is limited to the repair or replacement of the product at our option. NECTECH 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 TECHNOLOGIES, INC. 1250 N. Arlington Heights Road, Suite 500 Itasca, Illinois 60143-1248

Note: All products returned to NECTECH for service MUST have prior approval. To get approval, call NEC Technologies at 800-836-0655.

Contents

How to Attach Options to the Plasma Monitor Introduction	. 1
Introduction to the PlasmaSync 42MP1	
Plasma Monitor	2
Plasma Monitor The features you'll enjoy include:	2
Contents of the Package	2
Part Names and Function	
Front View	3
Rear View / Terminal Board	4
Remote Controller	5
Battery Installation and Replacement	
Using the wired remote control mode	
Operating Range	/
Handling the remote controller	/
Installation	
Connecting Your PC Or Macintosh Computer	9
Connections with Equipment that has a Digital Interface	9
Connecting Your Document Camera	9
Connecting Your VCR Or Laser Disc Player	9
Connecting Your DVD Player	
External Speaker Connections	10
Pin Assignments and Signal Levels	
for 15 pin RGB (Analog)	11
Pin Configuration and Signal	
of the RGB 3 IN Connector (DVI Connector)	
Basic Operations	12
POWER	12
To turn the unit ON and OFF:	12 . 12
To turn the unit ON and OFF:	12 . 12 12
To turn the unit ON and OFF: VOLUME To adjust the volume:	12 . 12 12 . 12
To turn the unit ON and OFF: VOLUME To adjust the volume: MUTE	12 . 12 12 . 12 . 12 12
To turn the unit ON and OFF: VOLUME To adjust the volume: MUTE To cancel the sound:	12 . 12 12 . 12 . 12 . 12 . 12
To turn the unit ON and OFF: VOLUME To adjust the volume: MUTE To cancel the sound: DISPLAY	12 .12 .12 .12 .12 .12 .12
To turn the unit ON and OFF: VOLUME To adjust the volume: MUTE To cancel the sound: DISPLAY To check the settings:	12 . 12 . 12 . 12 . 12 . 12 . 12 . 12
To turn the unit ON and OFF: VOLUME To adjust the volume: MUTE To cancel the sound: DISPLAY To check the settings: DIGITAL ZOOM	12 .12 .12 .12 .12 .12 .12 .12 .12 .12
To turn the unit ON and OFF: VOLUME To adjust the volume: MUTE To cancel the sound: DISPLAY To check the settings: DIGITAL ZOOM OFF TIMER	12 .12 .12 .12 .12 .12 .12 .12 .12 .12
To turn the unit ON and OFF: VOLUME To adjust the volume: MUTE To cancel the sound: DISPLAY To check the settings: DIGITAL ZOOM OFF TIMER To set the off timer:	12 .12 .12 .12 .12 .12 .12 .12 .12 .12
To turn the unit ON and OFF: VOLUME To adjust the volume: MUTE To cancel the sound: DISPLAY To check the settings: DIGITAL ZOOM OFF TIMER To set the off timer: To check the remaining time:	12 .12 .12 .12 .12 .12 .12 .12 .12 .12
To turn the unit ON and OFF: VOLUME To adjust the volume: MUTE To cancel the sound: DISPLAY To check the settings: DIGITAL ZOOM OFF TIMER To set the off timer:	12 .12 .12 .12 .12 .12 .12 .12 .12 .12
To turn the unit ON and OFF:	12 .12 12 .12 12 .12 .12 .12 .12 .12 .12
To turn the unit ON and OFF:	12 .12 12 .12 12 .12 .12 .12 .12 .12 .12
To turn the unit ON and OFF:	12 .12 12 .12 .12 .12 .12 .12 .12 .13 .13 .13 .13
To turn the unit ON and OFF:	12 .12 .12 .12 .12 .12 .12 .12 .13 .13 .13 .13 .13 .14
To turn the unit ON and OFF:	12 .12 .12 .12 .12 .12 .12 .12 .13 .13 .13 .13 .13 .14
To turn the unit ON and OFF:	12 .12 12 .12 12 .12 12 .12 13 .13 .13 .13 .13 .13 .14 14 .14 15
To turn the unit ON and OFF:	12 12 12 12 12 12 12 12 12 12 12 12 12 1
To turn the unit ON and OFF:	12 12 12 12 12 12 12 12 12 12 12 12 12 1
To turn the unit ON and OFF:	12 12 12 12 12 12 12 12 12 12 12 12 12 1
To turn the unit ON and OFF:	12 .12 12 12 .12 12 .12 12 .12 .12 .12
To turn the unit ON and OFF:	12 .12 12 12 .12 12 .12 12 .12 .12 .12
To turn the unit ON and OFF:	12 .12 12 12 12 12 12 12 12 13 .13 .13 .13 .13 .13 .13 .13 .13 .14 14 .14 15 16 18 .18 19 .20
To turn the unit ON and OFF:	12 .12 12 12 12 12 12 12 12 13 .13 .13 .13 .13 .13 .13 .13 .13 .13

Sound settings menu	
Adjusting the treble, bass and left/right balance 23	
Screen Settings Menu	4
Adjusting the Position, Size, Fine Picture,	1
Picture Adj	
Setting the on-screen display	
Adjusting the position of the menu display	
Setting the power management for computer images 27	
POWER/STANDBY indicator	
Setting the gray level for the sides of the screen	
Setting the brightness level to the minimum	
Setting the picture to suit the movie	
Resetting to the default values	
Option setting menu	
Setting the allocation of the audio connectors	
Setting the BNC connectors	
Setting a computer image to the correct RGB	-
select screen	2
Setting high definition image to the suitable	
screen size	3
Adjusting the display position	
in the RGB3 input mode	3
Information Menu	
Checking the frequencies and polarities	
of input signals	4
Setting the language for the menus	
Setting the video signal format	
External Control 36	5
Table for Signals Supported 44	
Supported resolutions 44	4
Troubleshooting 45	5
Specifications	5

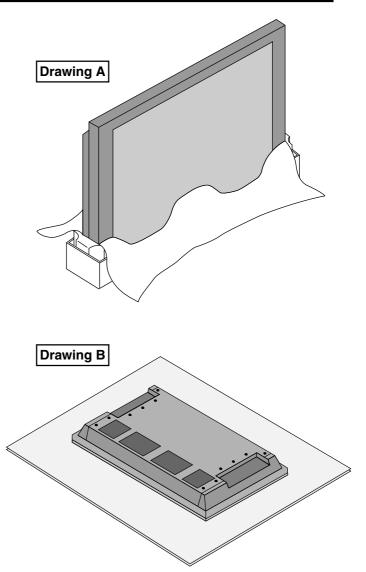
How to Attach Options to the Plasma Monitor

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.
 - This device cannot be installed on its own. Be sure to use a stand or original mounting unit. (Wall mount unit, Stand, etc)
 * See page 2.
 - For correct installation and mounting it is strongly recommended to use a trained, authorized NEC dealer.

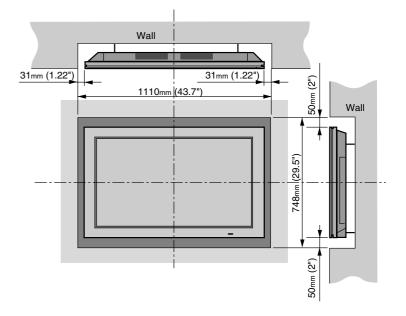
Failure to follow correct mounting procedures could result in damage to the equipment or injury to the installer.

Product warranty does not cover damage caused by improper installation.



Ventilation Requirements for enclosure mounting

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



Introduction

Introduction to the PlasmaSync 42MP1 **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 42MP1 certainly makes a big impression. However, at a mere 3.5 inches/ 89mm 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. And weighing only 70.6 lbs/ 32 kg, it actually can be hung almost anywhere. NEC has made sure that a host of multimedia resources can be easily connected and displayed as brilliantly as intended on the PlasmaSyncTM monitor.

The features you'll enjoy include:

- 42-inch screen
- 16:9 aspect ratio
- Capsulated Color Filter (CCF) and black matrix
- 3.5 inch / 89 mm thin
- 70.6 lbs/ 32 kg light
- High-resolution screen: 853 × 480 pixels
- · 160-degrees of off-axis viewing, horizontally and vertically.
- · Flicker and warp free display provides excellent image geometry even in screen corners
- Not affected by magnetic fields, no color drift or edge distortion.
- VGA, SVGA, XGA, SXGA(60Hz), computer signal compatibility
- NTSC, PAL, SECAM, composite and S-Video signal compatibility
- 480P, 1080I, 720P and HDTV signal compatibility
- PCs, VCRs, Laser Disc and DVD player source compatibility
- AccuBlendTM scan conversion automatically converts VGA, SVGA and SXGA signals to the panel's native resolution
- RGB input (3*), Video input (3), DVD/HD input (2*), Audio input (3), External Control input (1)
- · AccuColor control system provides user selectable onscreen color temperature settings
- New Drive Technology
- Component video input terminal for DVD, 15.75kHz (Y, CB. CR)
- NEC's OSM[™] menu-driven on screen control system that makes image adjustments a snap
- · Seven languages (English, German, French, Italian, Spanish, Swedish, and Japanese)
- You can select RGB source or Component source for the 5BNC terminal. When selecting an RGB input, the source is switched to the RGB input (3); when selecting a component input, the source is switched to the DVD/ HD input (2).

Contents of the Package

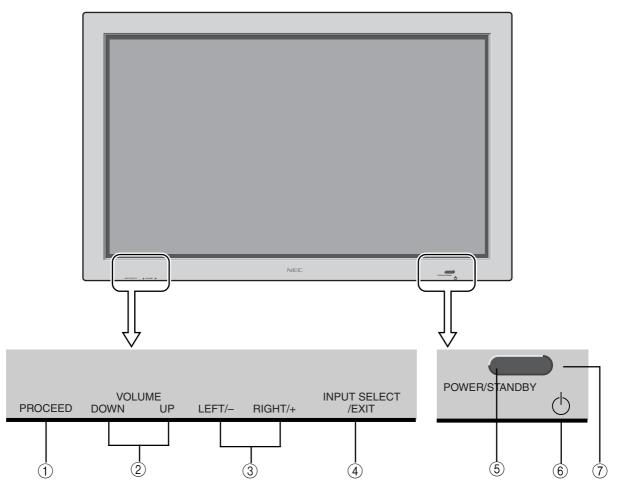
- □ PlasmaSyncTM 42MP1 plasma monitor
- □ Power cord
- RGB cable (Mini D-Sub 15-pin to Mini D-Sub 15pin connector)
- Adapter for Macintosh
- Remote control unit with two AAA Batteries
- User's manual
- ☐ Wired Remote cable
- □ Safety metal fitting*
- □ Screw for safety metal fitting*
- \Box Ferrite core (small $\times 2$, large $\times 1$)
- * These are fittings for fastening the unit to a wall to prevent tipping due to external shock when using the stand (option). 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
- Tabletop stand
- Speakers
- Others

Part Names and Function

Front View



① PROCEED

Sets the on-screen display (OSM) mode and displays the main menu.

② VOLUME Down and Up

Adjust the volume. Functions as the CURSOR (\blacktriangle/∇) buttons in the On-screen display (OSM) mode.

③ LEFT/- and RIGHT/+

Enlarges or reduces the image. Functions as the CURSOR (\triangleleft / \blacktriangleright) buttons in the On-screen display (OSM) mode.

(4) INPUT SELECT / EXIT

Switches the input, in the following order:

```
 \overset{\mathsf{VIDEO1}}{\longrightarrow} \overset{\mathsf{VIDEO2}}{\longrightarrow} \overset{\mathsf{VIDEO3}}{\longrightarrow} \overset{\mathsf{DVD/HD}}{\longrightarrow} \overset{\mathsf{DVD/HD}}{\longrightarrow} \overset{\mathsf{OVD/HD}}{\longrightarrow} \overset{\mathsf{OVD/HD}}{\to} \overset{\mathsf{OVD/HD}
```

Functions as the EXIT buttons in the On-screen display (OSM) mode.

(5) POWER/STANDBY indicator

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

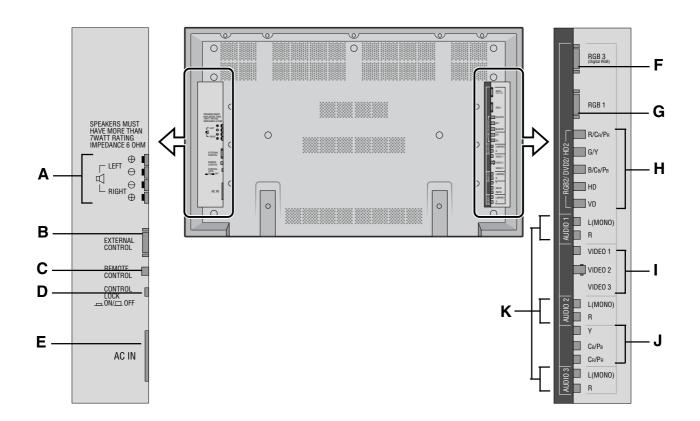
6 Power

Turns the monitor's power on and off.

(7) Remote sensor window

Receives the signals from the remote control unit.

Rear View/ Terminal Board



A EXT SPEAKER L and R

Connect speakers here.

BEXTERNAL CONTROL

This terminal is used when power ON/OFF, input selection and AUDIO MUTE and other controls are operated externally (by external control). See also page 36 for external control.

C REMOTE CONTROL

Connect the supplied remote cable here.

D CONTROL LOCK

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

E AC IN

Connect the included power cord here.

F RGB3 (DVI 29pin)

Inputs a digital RGB signal (TMDS).

G RGB1

Inputs the analog RGB signal of personal computer, etc.

H RGB2/ DVD2/ HD2

RGB2:	Inputs the analog RGB signal.
DVD2/ HD2:	Connect DVD's, high definition Laser
	Discs, etc. here.

I VIDEO1, 2, 3

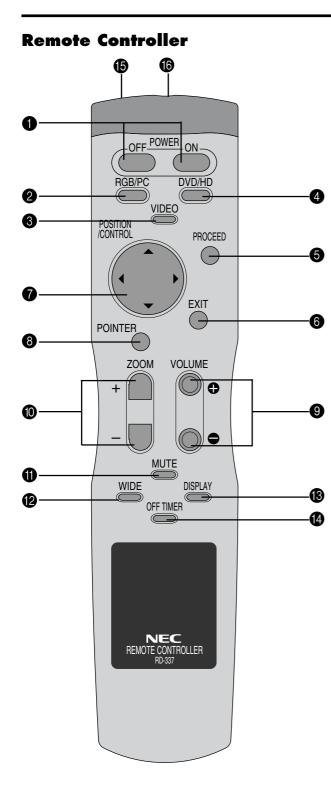
Connect VCR's, DVD's or LaserDiscs, etc. here.

J DVD1 / HD1

Connect DVD's high definition LaserDiscs, etc. here.

K AUDIO1, AUDIO2, AUDIO3

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



1 POWER ON/OFF

Switches power on/off.

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

2 RGB/PC

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

 ${\ } \overrightarrow{} \mathsf{RGB1} \rightarrow \mathsf{RGB2} \rightarrow \mathsf{RGB3} -$

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

 $\rightarrow VIDEO1 \rightarrow VIDEO2 \rightarrow VIDEO3 \rightarrow DVD/HD - RGB3 \leftarrow RGB2 \leftarrow RGB1 \leftarrow CONTRACTOR RGB2 \leftarrow RGB1 \leftarrow CONTRACTOR$

3 VIDEO

Press this button to select VIDEO as the source.

 \rightarrow VIDEO1 \rightarrow VIDEO2 \rightarrow VIDEO3 -

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

4 DVD / HD

Press this button to select DVD/HD as the source.

DVD/HD can also be selected using the INPUT SE-LECT button on the monitor. The input switches as follows each time the button is pressed:

 $\overset{\mathsf{VIDEO1}}{\longrightarrow} \overset{\mathsf{VIDEO2}}{\longrightarrow} \overset{\mathsf{VIDEO3}}{\longrightarrow} \overset{\mathsf{DVD/HD}}{\longrightarrow} \overset{\mathsf{DVD/HD}}{\longrightarrow} \overset{\mathsf{OVD/HD}}{\longrightarrow} \overset{\mathsf{OVD/HD}}{\to} \overset{\mathsf{OVD/HD}$

5 PROCEED

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

6 EXIT

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

7 CURSOR $(\blacktriangle / \blacktriangledown / \checkmark / \leftthreetimes)$

Use these buttons to select items or settings and to adjust settings.

8 POINTER

Press this button to display the pointer.

OVOLUME (+ /-) Adjust the volume.

O ZOOM (+ /-)

Enlarges or reduces the image

1 MUTE

Mutes the sound.

WIDE

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

B DISPLAY

Displays the source settings on the screen.

OFF TIMER

Activates the off timer for the unit.

B Remote Jack

Insert the plug of the supplied remote cable when using the supplied remote control unit in the wired condition.

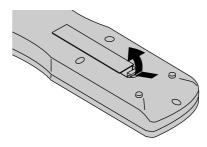
B Remote control signal transmitter

Transmits the remote control signals.

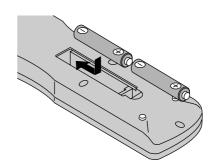
Battery Installation and Replacement

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

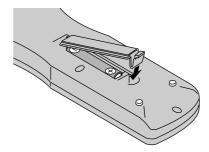
1. Press and open the cover.



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



3. Replace the cover.



Using the wired remote control mode

Connect the included remote control cable to the remote control unit's "REMOTE CONTROL" terminal.

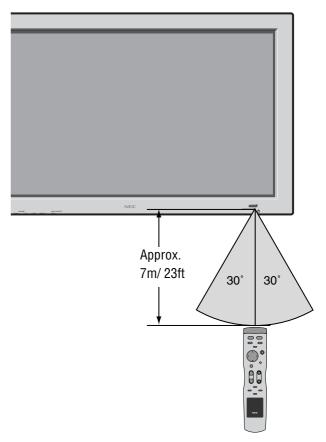
When the cable is connected, the mode automatically switches to wired remote control.

When the wired remote control mode is used, the remote control unit can be operated even if no batteries are loaded.

\odot $\overline{\mathbf{v}}$ 0 \bigcirc 0 0 O REMOTE CONTRO LOCK 0 ONTROL Remote Control Cable REMOTE CONTRUE CONTROL LOCK QN/III OFF Ĩ To Remote Jack $\circ \circ$ 6 0 8 6

Operating Range

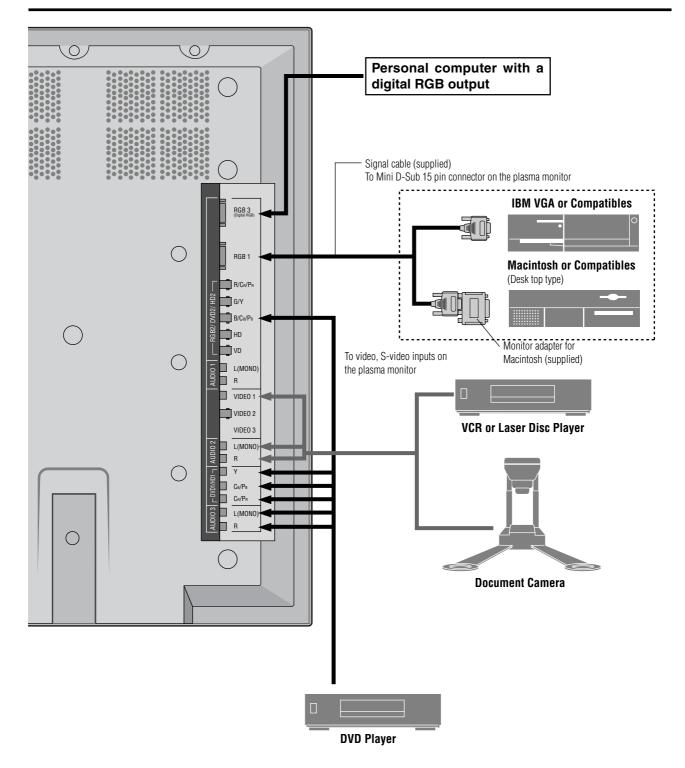
- * Use the remote controller within a distance of about 7 m / 23ft. from the front of the monitor's remote control sensor and at a horizontal angle of within 30°.
- * The remote control operation may not function if the monitor's remote control sensor is exposed to direct sunlight or strong artificial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



Handling the remote controller

- Do not drop or mishandle the remote control unit.
- Do not get the remote control unit wet. If the remote gets wet, wipe it dry immediately.
- Avoid heat and humidity.
- When not using the remote control unit 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 unit in the wireless condition, be sure to unplug the remote cable from the RE-MOTE CONTROL terminal on the monitor.

Installation



Connecting Your PC Or Macintosh Computer

Connecting your PC or Macintosh computer to your plasma monitor will enable you to display your computer's screen image for an impressive presentation. The plasma monitor supports the signals described on page 44.

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

- 1. Turn off the power to your plasma monitor and computer.
- If your PC does not support XGA/SVGA/VGA you will need to install an XGA/SVGA/VGA graphics board. Consult your computer's owner's manual for your XGA/SVGA/VGA configuration. If you need to install a new board, see the manual that comes with your new graphics board for installation instructions.
- 3. The plasma monitor provides signal compatibility up to VESA 1280×1024@60Hz (SXGA). However, it is not recommended to use this resolution due to image readability on the monitors 853×480 native pixel resolution panel.
- 4. Use the signal cable that's supplied to connect your PC or Macintosh computer to the plasma monitor. For Macintosh, use the supplied monitor adapter to connect to your computer's video port.
- 5. Turn on the plasma monitor and the computer.
- 6. If the plasma monitor goes blank after a period of inactivity, it may be caused by a screen saver installed on the computer you've connected to the plasma monitor.

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

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

The 13" fixed mode is recommended for the plasma monitor.

Connections with Equipment that has a Digital Interface

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

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

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

Note:

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

Connecting Your Document Camera

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

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

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

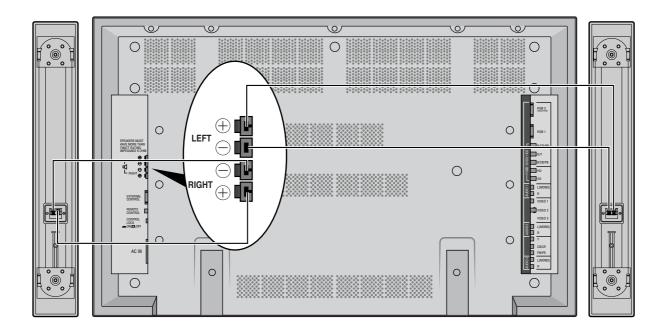
Note: Refer to your VCR or laser disc player owner's manual for more information about your equipment's video output requirements.

Connecting Your DVD Player

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

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

External Speaker Connections



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

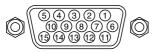
External speakers may be connected directly to the SPEAK-ERS terminals or indirectly by connecting a stereo system amplifier to the audio outputs.

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

To connect external speakers directly to the plasma monitor:

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

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



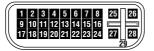
Pin No.	Signal (Analog)
1	Red
2	Green or sync-on-green
3	Blue
4	No connection
5	Ground
6	Red ground
7	Green ground
8	Blue ground
9	No connection
10	Sync signal ground
11	No connection
12	Bi-directional DATA (SDA)
13	Horizontal sync
14	Vertical sync
15	SCL

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

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

(TMDS can be used for one link only)

RGB 3



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

Basic Operations

POWER

To turn the unit ON and OFF:

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

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

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

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

VOLUME

To adjust the volume:

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

MUTE

To cancel the sound:

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

DISPLAY

To check the settings:

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

DIGITAL ZOOM

Digital zoom specifies the picture position and enlarges the picture.

1. Press the pointer button to display the pointer. () To change the size of the picture:

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

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

To change the picture position:

Select the position with the $\blacktriangle \lor \blacklozenge \lor$ buttons.

2. Press the pointer button to delete the pointer.

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 \mathbf{30} \rightarrow \mathbf{60} \rightarrow \mathbf{90} \rightarrow \mathbf{120} \rightarrow \mathbf{0} \longrightarrow \mathbf{0} \rightarrow \mathbf{0} \rightarrow \mathbf{0} \longrightarrow \mathbf{0} \rightarrow \mathbf{0} \rightarrow \mathbf{0} \rightarrow \mathbf{0} \longrightarrow \mathbf{0} \rightarrow \mathbf{
```

④ OFF T	IMER30	

Canceling the off timer

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

④ OFF TIMER0

Note:

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

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 TIMER28

WIDE Operations

Watching with a wide screen (manual)

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

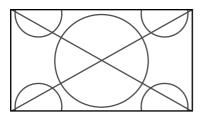
When watching videos or digital video discs

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

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

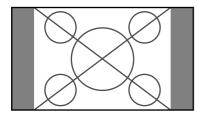
ightarrow ZOOM ightarrow NORMAL ightarrow FULL ightarrow STADIUM -

ZOOM size screen



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

NORMAL size screen (4:3)

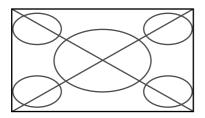


The normal size screen is displayed.

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

4.5 aspect fatio.

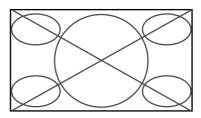
FULL size screen



The image is expanded in the horizontal direction.

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

STADIUM size screen



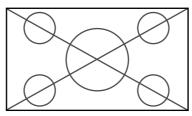
The picture is expanded in the horizontal and vertical directions at different ratios.

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

When watching high definition video source

1. Press the "WIDE" button on the remote controller.

FULL size screen (16:9)



The full size screen is displayed.

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

Watching computer images with a wide screen

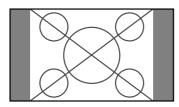
Switch to the wide screen mode to expand the 4 : 3 image to fill the entire screen.

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

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

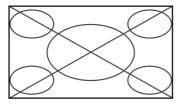
 \rightarrow NORMAL \rightarrow FULL -

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



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

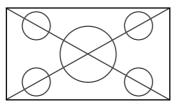
FULL size screen



The image is expanded in the horizontal direction.

When using a graphic accelerator board that is capable of displaying 848×480 .

FULL size screen



Information

Supported resolution

- See page 44 for details on the display output of the various VESA signal standards supported by the monitor.
- When 852 dot×480 line wide VGA (*) signals with a vertical frequency of 60 Hz and horizontal frequency of 31.72 kHz are input, select "WIDE" for the "RGB SELECT" setting. Since selecting an 848×480 signal automatically displays the image in correct size, it is not necessary to change the RGB SELECT setting.
- * "IBM PC/AT" and "VGA" are registered trademarks of IBM, Inc. of the United States.

OSM(On Screen Menu) **Controls**

Menu Operations

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

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

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



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

1. Press the PROCEED button on the remote controller to display the MAIN MENU.

PICTUF SOUND SCREE FIFUNCTI OPTION INFORM		IU
\$ SEL.	PROCEED OK	

- 2. Press the cursor buttons ▲ ▼ on the remote controller to highlight the menu you wish to enter.
- 3. Press the PROCEED button on the remote controller to select a submenu or item.

PICTU	JRE
CONTRAST SRIGHTNESS SHARPNESS	
 OCLOR M TINT 	• • •
PICTURE MODE 입 COLOR TEMP. 聞 NR	: MEMORY : 2 : NR-2
🔷 SEL. 🔹 ADJ	. EXIT RETURN

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

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

BRIGHTNESS SHARNESS Adjusts the brightness. COLOR Center Contert COUR Adjusts the olor. Center Contert	Main menu	Sub menu	Functions	Default	Rese
SHARPNESS COLOR Adjusts the sharpness. Center Conter	PICTURE	CONTRAST	Adjusts the contrast.	Max	0
COLOR Adjusts the color. Center		BRIGHTNESS	Adjusts the brightness.	Center	0
TINT Adjusts the funt. Center Cent		SHARPNESS	Adjusts the sharpness.	Center	0
PICTURE MODE Sets the picture mode according to the VIDEO environment and image software. MEMORY C COLOR TEMP Adjusts the color temperature and white balance. 2 C NR Reduces noise visible in image. NR-1 C Main menu Sub menu Functions Default Res SOUND BASS Sets the bass. Center C Main menu Sub menu Functions Default Ree SCREEN V-POSITION Adjusts the vertical position Center C SCREEN V-POSITION Adjusts the vertical size Min C AUTO PICTURE Adjusts the vertical size Min C AUTO PICTURE Turn this on to have the monitor automatically adjust "FINE PICTURE" OFF+ × and "PICTURE ADJ" FINE PICTURE ADJ Adjusts to striped paterns on the computer image Min*1 C FUNCTION OSM Turns the on-screen display (screen mode, etc.) off (when set to "OFF"). × Adjusts the vertical and horizontal position of the monu display. 1 C FUNCTION		COLOR	Adjusts the color.	Center	0
age software: QLOR TEMP Adjusts the color temperature and white balance. NR 2 CC Main menu Sub menu Functions Default Res SOUND BASS Sets the bass. Center CC TREBLE Sets the trable. Center CC Main menu Sub menu Functions Default Res SCREEN V-POSITION Adjusts the vertical position Center CC H-POSITION Adjusts the vertical position Center CC V-HEIGHT Adjusts the vertical position Center CC H-WIDTH Adjusts the vertical size Min CC AUTO PICTURE Turn this on to have the monitor automatically adjust "FINE PICTURE" Min" CC FINE PICTURE Adjusts for striped patterns on the computer image Min" CC Main menu Sub menu Functions Default Res FUNCTION OSM Turns the on-screen display (screen mode, etc.) off (when set to "OFF"). ON C Main menu Sub menu Functions Default Res FUNCTIO		TINT	Adjusts the tint.	Center	0
COLOR TEMP NR Adjusts the color temperature and white balance. 2 C Main menu Sub menu Functions Default Res SOUND BASS Sets the bass. Center C Main menu Sub menu Functions Default Res SGUND BASS Sets the tetle. Center C Main menu Sub menu Functions Default Res SGREEN V-POSITION Adjusts the vertical position Center C H-WODTH Adjusts the vertical position Center C AUTO PICTURE Turn this on to have the monitor automatically adjust "FINE PICTURE" Min C H-WIDTH Adjusts for likering on the computer image Min*1 C PICTURE ADJ. Adjusts for striped patterns on the computer image Center*1 C Main menu Sub menu Functions Default Res FUNCTION OSM Turns the on-screen display (screen mode, etc.) off (when set to 'OFF?). ON C GRAY LEVEL Adjusts the vertical and horizontal positions of the menu display. 1 C <tr< td=""><td></td><td>PICTURE MODE</td><td></td><td>MEMORY</td><td>0</td></tr<>		PICTURE MODE		MEMORY	0
NR Reduces noise visible in image. NR-1 C Main menu Sub menu Functions Default Res SOUND BASS Sets the bass. Center C TREBLE Sets the reble. Center C Main menu Sub menu Functions Default Res SCREEN V-POSITION Adjusts the vertical position Center C V-HEIGHT Adjusts the vertical position Center C V-HEIGHT Adjusts the vertical size Min C AUTO PICTURE Adjusts the horizontal size Min C AUTO PICTURE Adjusts for flickering on the computer image Min*1 C PICTURE ADJ. Adjusts for striped paterns on the computer image Center*1 C When set to 'OW', the on-screen display (screen mode, etc.) off (when set to "OFF*) N C OSM Turns the on-screen display (screen mode, etc.) off when set to "OFF*) N C OSM ADJ. Adjusts the vertical and horizontal positions of the menu display. 1 C		COLOR TEMP	-	2	0
SOUND BASS Sets the bass. Center C TREBLE Sets the treble. Center Center C Main menu Sub menu Functions Default Res SCREEN V-POSITION Adjusts the vertical position Center C V-POSITION Adjusts the vertical size Min C H-WIDTH Adjusts the vertical size Min C H-WIDTH Adjusts the vertical size Min C AUTO PICTURE Turn this on to have the monitor automatically adjust "FINE PICTURE" OFF*1 × AUTO PICTURE Adjusts for striped patterns on the computer image Center*1 C FUNCTION OSM Turns the on-screen display (screen mode, etc.) off (when set to "OFF") ON C VPOWER MGT Sets the monitor ror use as an energy-saving displayed. OFF C OSM ADJ Adjusts the vertical and horizontal positions of the menu display. 1 C CINEMA MODE Set the brightness level to the minitum in conjunction with the inverse function. AUTO C CIN					0
TREBLE Sets the treble. Center Cen	Main menu	Sub menu	Functions	Default	Rese
BALANCE Sets the left/right balance. Center C Main menu Sub menu Functions Default Res SCREEN V-POSITION Adjusts the vertical position Center C H-POSITION Adjusts the vertical position Center C H-HOSITION Adjusts the vertical size Min C H-WIDTH Adjusts the horizontal size Min C AUTO PICTURE Turn this on to have the monitor automatically adjust "FINE PICTURE" OFF*1 > AUTO PICTURE ADJ Adjusts for tisking on the computer image Min*1 C PICTURE ADJ. Adjusts for tisking on the computer image Min*1 C Main menu Sub menu Functions Default Res FUNCTION OSM Turns the on-screen display (screen mode, etc.) off (when set to "OFF"). ON C VencTION OSM ADJ. Adjusts the vertical and horizontal positions of the menu display. 1 C POWER MGT Sets the binghtness level to the minimum in conjunction with the inverse function. AUTO C	SOUND	BASS	Sets the bass.	Center	0
Main menu Sub menu Functions Default Res SCREEN V-POSITION Adjusts the vertical position Center C V-HEIGHT Adjusts the vertical size Min C AUTO PICTURE Adjusts the horizontal size Min C AUTO PICTURE Adjusts the horizontal size Min C AUTO PICTURE Adjusts for striped patterns on the computer image Min*! C PICTURE ADJ. Adjusts for striped patterns on the computer image Center*! C Main menu Sub menu Functions Default Res FUNCTION OSM Turns the on-screen display (screen mode, etc.) off (when set to "OFF"). ON C When set to "ON", the on-screen display is displayed. OSM G C OSM ADJ. Adjusts the vertical and horizontal positions of the menu display. 1 C POWER MGT Sets the brightness level to the minimum in conjunction with the inverse function. AUTO C RESET Resets all the settings (PICTURE, SOUND, SCREEN, FUNCTION, - - - -		TREBLE	Sets the treble.	Center	0
SCREEN V-POSITION Adjusts the vertical position Center C H-POSITION Adjusts the horizontal position Center C V-HEIGHT Adjusts the horizontal size Min C H-WDITH Adjusts the norizontal size Min C AUTO PICTURE Turn this on to have the monitor automatically adjust "FINE PICTURE" OFF** × and "PICTURE ADJ" FINE PICTURE Adjusts for flickering on the computer image Min** C Main menu Sub menu Functions Default Res FUNCTION OSM Turns the on-screen display (screen mode, etc.) off (when set to "OFF"). ON C VBM menu Functions Default Res FUNCTION OSM ADJ. Adjusts the vertical and horizontal positions of the menu display. 1 C OSM ADJ. Adjusts the vertical and horizontal positions of the menu display. 1 C C POWER MGT Sets the monitor for use as an energy-saving display when used with a OFF C C RGAY LEVEL In case of 4 : 3, sets the liminimum in cojunction with the inverse function. AUTO C <		BALANCE	Sets the left/right balance.	Center	0
H-POSITION Adjusts the horizontal position Center C V-HEIGHT Adjusts the vertical size Min C H-WIDTH Adjusts the horizontal size Min C AUTO PICTURE Adjusts for brized size Min C and "PICTURE ADJ" FINE PICTURE Adjusts for striped patterns on the computer image Min*1 C PICTURE ADJ Adjusts for striped patterns on the computer image Center*1 C Main menu Sub menu Functions Default Res FUNCTION OSM Turns the on-screen display (screen mode, etc.) off (when set to "OFF"). ON C OSM ADJ. Adjusts the vertical and horizontal positions of the menu display. 1 C POWER MGT Sets the monitor for use as an energy-saving display when used with a computer. GRAY LEVEL In case of 4 : 3, sets the luminance of both sides. 3 C PLE+INVERSE Set the brightness level to the minimum in conjunction with the inverse function. AUTO C RESET Resets all the settings (PICTURE, SOUND, SCREEN, FUNCTION, - - - RESET Setting the BICconnectors. RGB C	Main menu	Sub menu	Functions	Default	Rese
V-HEIGHT Adjusts the vertical size Min C H-WIDTH Adjusts the horizontal size Min C AUTO PICTURE Turn this on to have the monitor automatically adjust "FINE PICTURE" and "PICTURE ADJ." OFF"' X FINE PICTURE Adjusts for flickering on the computer image Min*' C Main menu Sub menu Functions Default Res FUNCTION OSM Turns the on-screen display (screen mode, etc.) off (when set to "OFF"). ON C VMen set to "ON", the on-screen display is displayed. 0FF C C OSM ADJ. Adjusts the vertical and horizontal positions of the menu display. 1 C POWER MGT Sets the monitor for use as an energy-saving display when used with a computer. 0FF C GRAY LEVEL In case of 4 : 3, sets the luminance of both sides. 3 C PLE+INVERSE Set the brightness level to the minimum in conjunction with the inverse function. AUTO C RESET Resets all the settings (PICTURE, SOUND, SCREEN, FUNCTION, etc.) to the factory default values. RefB C OPTION AUDIO INPUT Setting the picture to suit the movine. RefB C	SCREEN	V-POSITION	Adjusts the vertical position	Center	0
H-WIDTH Adjusts the horizontal size Min C AUTO PICTURE Turn this on to have the monitor automatically adjust "FINE PICTURE" OFF*1 × and "PICTURE ADJ" FINE PICTURE Adjusts for flickering on the computer image Min *1 C Main menu Sub menu Functions Default Res FUNCTION OSM Turns the on-screen display (screen mode, etc.) off (when set to "OFF"). ON C VMen set to "ON", the on-screen display is displayed. OSM ADJ. Adjusts the vertical and horizontal positions of the menu display. 1 C POWER MGT Sets the monitor or use as an energy-saving display when used with a computer. 0FF C GRAY LEVEL In case of 4:3, sets the luminance of both sides. 3 C PLE+INVERSE Set the brightness level to the minimum in conjunction with the inverse function. AUTO C RESET Resets all the settings (PICTURE, SOUND, SCREEN, FUNCTION, - - - - RESET Sets the appropriate mode for the computer image. RGB C G OPTION AUDIO INPUT Setting the BNC connectors. *2 C G RGB SELECT </td <td></td> <td>H-POSITION</td> <td>Adjusts the horizontal position</td> <td>Center</td> <td>0</td>		H-POSITION	Adjusts the horizontal position	Center	0
AUTO PICTURE Turn this on to have the monitor automatically adjust "FINE PICTURE" and "PICTURE ADJ" OFF*1 >> FINE PICTURE ADJ. Adjusts for flickering on the computer image PICTURE ADJ. Adjusts for striped patterns on the computer image Min*1 C Main menu Sub menu Functions Default Res FUNCTION OSM Turns the on-screen display (screen mode, etc.) off (when set to "OFF"). When set to "ON", the on-screen display is displayed. O OSM ADJ. Adjusts the vertical and horizontal positions of the menu display. 1 C POWER MGT Sets the monitor for use as an energy-saving display when used with a computer. OFF C GRAY LEVEL In case of 4 : 3, sets the luminance of both sides. 3 C PLE-HINVERSE Set the brightness level to the minimum in conjunction with the inverse function. AUTO C RESET Resets all the settings (PICTURE, SOUND, SCREEN, FUNCTION, etc.) to the factory default values. - - Main menu Sub menu Functions Default Res OPTION AUDIO INPUT Setting the allocation of the audio connectors. *2 C RGB SELECT Sets the appropriate mode for the computer image. RGB (CG A signals),		V-HEIGHT	Adjusts the vertical size	Min	0
and "PICTURE ADJ" FINE PICTURE Adjusts for flickering on the computer image Min*1 Center*1 Main menu Sub menu Functions Default Res FUNCTION OSM Turns the on-screen display (screen mode, etc.) off (when set to "OFF"). ON ON FUNCTION OSM ADJ. Adjusts the vertical and horizontal positions of the menu display. 1 C POWER MGT Sets the monitor for use as an energy-saving display when used with a computer. OFF C GRAY LEVEL In case of 4 : 3, sets the luminance of both sides. 3 C PLE-INVERSE Set the brightness level to the minimum in conjunction with the inverse function. AUTO C RESET Resets all the settings (PICTURE, SOUND, SCREEN, FUNCTION, - - - - OPTION AUDIO INPUT Setting the allocation of the audio connectors. *2 C C RGB SELECT Sets the digital broadcasting (1080A, 1080B) or the High Vision (1025). 1080B × Main menu Sub menu Functions PGE C OPTION AUDIO INPUT Setting the BNC connectors. RGB C RGB VGA signals), VIDEO (Movi		H-WIDTH	Adjusts the horizontal size	Min	0
PICTURE ADJ. Adjusts for striped patterns on the computer image Center*1 Main menu Sub menu Functions Default Res FUNCTION OSM Turns the on-screen display (screen mode, etc.) off (when set to "OFF"). ON ON ON OSM ADJ. Adjusts the vertical and horizontal positions of the menu display. 1 O POWER MGT Sets the monitor for use as an energy-saving display when used with a computer. OFF O GRAY LEVEL In case of 4 : 3, sets the luminance of both sides. 3 O PLE+INVERSE Set the brightness level to the minimum in conjunction with the inverse function. AUTO O CINEMA MODE Setting the picture to suit the movie. AUTO O RESET Resets all the settings (PICTURE, SOUND, SCREEN, FUNCTION, - - - RESET Sets the appropriate mode for the computer image. RGB G OPTION AUDIO INPUT Setting the BNC connectors. RGB G RGB SELECT Sets the appropriate mode for the computer image. RGB G RGB SADJ Adjusts the display position in the RGB3 input. 1 O Main menu		AUTO PICTURE		OFF ^{*1}	×
PICTURE ADJ. Adjusts for striped patterns on the computer image Center*1 Center*1 Main menu Sub menu Functions Default Res FUNCTION OSM Turns the on-screen display (screen mode, etc.) off (when set to "OFF"). When set to "ON", the on-screen display is displayed. ON C OSM ADJ. Adjusts the vertical and horizontal positions of the menu display. 1 C POWER MGT Sets the monitor for use as an energy-saving display when used with a computer. OFF C GRAY LEVEL In case of 4 : 3, sets the luminance of both sides. 3 C PLE+INVERSE Set the brightness level to the minimum in conjunction with the inverse function. AUTO C CINEMA MODE Setting the picture to suit the movie. AUTO C RESET Resets all the settings (PICTURE, SOUND, SCREEN, FUNCTION, etc.) to the factory default values. - - Main menu Sub menu Functions Default Res OPTION AUDIO INPUT Setting the allocation of the audio connectors. *2 C BNC SELECT Sets the appropriate mode for the computer image. RGB C RGB SELECT Sets the display position		FINE PICTURE	Adjusts for flickering on the computer image	Min*1	0
FUNCTION OSM Turns the on-screen display (screen mode, etc.) off (when set to "OFF"). ON		PICTURE ADJ.		Center*1	0
When set to "ON", the on-screen display is displayed. 1 OSM ADJ. Adjusts the vertical and horizontal positions of the menu display. 1 POWER MGT Sets the monitor for use as an energy-saving display when used with a computer. 0FF GRAY LEVEL In case of 4 : 3, sets the luminance of both sides. 3 PLE+INVERSE Set the brightness level to the minimum in conjunction with the inverse function. AUTO CINEMA MODE Setting the picture to suit the movie. AUTO RESET Resets all the settings (PICTURE, SOUND, SCREEN, FUNCTION, etc.) to the factory default values. - Main menu Sub menu Functions Default Res OPTION AUDIO INPUT Setting the allocation of the audio connectors. *2 C BNC SELECT Sets the digital broadcasting (1080A,1080B) or the High Vision (1035I). 1080B × RGB SELECT Sets the digital broadcasting (1080A,1080B) or the High Vision (1035I). 1080B × NGB3 ADJ Adjusts the frequency and synchronizing polarities of the signal currently being inputted. - - INFORMATION FREQUENCY Used to check the frequency and synchronizing polarities of the signal currently being inputted. - -	Main menu	Sub menu	Functions	Default	Rese
OSM ADJ. Adjusts the vertical and horizontal positions of the menu display. 1 C POWER MGT Sets the monitor for use as an energy-saving display when used with a computer. OFF C GRAY LEVEL In case of 4 : 3, sets the luminance of both sides. 3 C PLE+INVERSE Set the brightness level to the minimum in conjunction with the inverse function. AUTO C CINEMA MODE Setting the picture to suit the movie. AUTO C RESET Resets all the settings (PICTURE, SOUND, SCREEN, FUNCTION, - etc.) to the factory default values. - - Main menu Sub menu Functions Default Reset OPTION AUDIO INPUT Setting the allocation of the audio connectors. *2 C BNC SELECT Sets the appropriate mode for the computer image. RGB C RGB SELECT Sets the adjight broadcasting (1080A, 1080B) or the High Vision (1035I). 1080B × RGB3 ADJ Adjusts the display position in the RGB3 input. 1 C Main menu Sub menu Functions Default Res INFORMATION FREQUENCY Used to check the frequency and synchronizing polarities of the signal currently bei	FUNCTION	OSM		ON	0
POWER MGT Sets the monitor for use as an energy-saving display when used with a computer. OFF OFF GRAY LEVEL In case of 4 : 3, sets the luminance of both sides. 3 C PLE+INVERSE Set the brightness level to the minimum in conjunction with the inverse function. AUTO C CINEMA MODE Setting the picture to suit the movie. AUTO C RESET Resets all the settings (PICTURE, SOUND, SCREEN, FUNCTION, - - - wetry - - - - Main menu Sub menu Functions Default Reset OPTION AUDIO INPUT Setting the allocation of the audio connectors. *2 C BNC SELECT Setting the BNC connectors. RGB C RGB SELECT Sets the digital broadcasting (1080A, 1080B) or the High Vision (1035I). 1080B × Main menu Sub menu Functions Default Res INFORMATION FREQUENCY Used to check the frequency and synchronizing polarities of the signal currently being inputted. - - INFORMATION FREQUENCY Used to check the frequency and synchronizing polarities of the signal currently being inputted. - </td <td></td> <td>OSM ADJ.</td> <td>Adjusts the vertical and horizontal positions of the menu display.</td> <td>1</td> <td>0</td>		OSM ADJ.	Adjusts the vertical and horizontal positions of the menu display.	1	0
GRAY LEVEL In case of 4 : 3, sets the luminance of both sides. 3 C PLE+INVERSE Set the brightness level to the minimum in conjunction with the inverse function. AUTO C CINEMA MODE Setting the picture to suit the movie. AUTO C RESET Resets all the settings (PICTURE, SOUND, SCREEN, FUNCTION, - etc.) to the factory default values. - - Main menu Sub menu Functions Default Reset OPTION AUDIO INPUT Setting the allocation of the audio connectors. *2 C BNC SELECT Sets the appropriate mode for the computer image. RGB C RGB SELECT Sets the digital broadcasting (1080A, 1080B) or the High Vision (1035I). 1080B × Main menu Sub menu Functions Default Reset MGB (VGA signals), VIDEO (Moving picture), WIDE (WIDE VGA) DTV. HD SELECT Sets the digital broadcasting (1080A, 1080B) or the High Vision (1035I). 1080B × Main menu Sub menu Functions Default Reset INFORMATION FREQUENCY Used to check the frequency and synchronizing polarities of the signal - currently being inputted. - - LAN		POWER MGT	Sets the monitor for use as an energy-saving display when used with a	OFF	0
PLE+INVERSE CINEMA MODE Set the brightness level to the minimum in conjunction with the inverse function. AUTO C RESET Resets all the settings (PICTURE, SOUND, SCREEN, FUNCTION, etc.) to the factory default values. - - - Main menu Sub menu Functions Default Reset OPTION AUDIO INPUT Setting the allocation of the audio connectors. *2 C BNC SELECT Setting the BNC connectors. RGB C RGB SELECT Sets the appropriate mode for the computer image. RGB C RGB SELECT Sets the digital broadcasting (1080A, 1080B) or the High Vision (1035I). 1080B × Main menu Sub menu Functions Default Resets MGB (VGA signals), VIDEO (Moving picture), WIDE (WIDE VGA) DTV. T T C Main menu Sub menu Functions Default Resets INFORMATION FREQUENCY Used to check the frequency and synchronizing polarities of the signal currently being inputted. - - LANGUAGE Sets the language of the menus (Japanese, English, German, French, Swedish, Italian or Spanish). English × COLOR SYSTEM Sets the		GRAY LEVEL		3	0
CINEMA MODE RESET Setting the picture to suit the movie. AUTO Resets all the settings (PICTURE, SOUND, SCREEN, FUNCTION, etc.) to the factory default values. – – Main menu Sub menu Functions Default Resets OPTION AUDIO INPUT Setting the allocation of the audio connectors. *2 C BNC SELECT Setting the BNC connectors. RGB C RGB SELECT Sets the appropriate mode for the computer image. RGB (VGA signals), VIDEO (Moving picture), WIDE (WIDE VGA) DTV. RGB HD SELECT Sets the digital broadcasting (1080A,1080B) or the High Vision (1035I). 1080B Main menu Sub menu Functions Default Resets INFORMATION FREQUENCY Used to check the frequency and synchronizing polarities of the signal currently being inputted. – – LANGUAGE Sets the language of the menus (Japanese, English, German, French, Swedish, Italian or Spanish). English × COLOR SYSTEM Sets the VIDEO format (AUTO1, AUTO2, PAL, PAL-M, PAL-N, PAL60, AUTO1 ×					0
RESET Resets all the settings (PICTURE, SOUND, SCREEN, FUNCTION, etc.) to the factory default values. - - Main menu Sub menu Functions Default Resets OPTION AUDIO INPUT Setting the allocation of the audio connectors. *2 - BNC SELECT Setting the BNC connectors. RGB - - RGB SELECT Sets the appropriate mode for the computer image. RGB - - RGB SELECT Sets the digital broadcasting (1080A, 1080B) or the High Vision (1035I). 1080B × Main menu Sub menu Functions Default Resets INFORMATION FREQUENCY Used to check the frequency and synchronizing polarities of the signal currently being inputted. - - LANGUAGE Sets the language of the menus (Japanese, English, German, French, English swedish, Italian or Spanish). Swedish, Italian or Spanish). COLOR SYSTEM Sets the VIDEO format (AUTO1, AUTO2, PAL, PAL-M, PAL-N, PAL60, AUTO1 >		CINEMA MODE	-	AUTO	0
OPTION AUDIO INPUT Setting the allocation of the audio connectors. *2 BNC SELECT Setting the BNC connectors. RGB RGB SELECT Sets the appropriate mode for the computer image. RGB RGB (VGA signals), VIDEO (Moving picture), WIDE (WIDE VGA) DTV. HD SELECT Sets the digital broadcasting (1080A, 1080B) or the High Vision (1035I). 1080B Main menu Sub menu Functions 1 C Main menu Sub menu Functions Default Res INFORMATION FREQUENCY Used to check the frequency and synchronizing polarities of the signal - - LANGUAGE Sets the language of the menus (Japanese, English, German, French, Swedish, Italian or Spanish). English × COLOR SYSTEM Sets the VIDEO format (AUTO1, AUTO2, PAL, PAL-M, PAL-N, PAL60, AUTO1 ×		RESET	Resets all the settings (PICTURE, SOUND, SCREEN, FUNCTION,	-	-
BNC SELECT Setting the BNC connectors. RGB RGB RGB SELECT Sets the appropriate mode for the computer image. RGB RGB RGB (VGA signals), VIDEO (Moving picture), WIDE (WIDE VGA) DTV. HD SELECT Sets the digital broadcasting (1080A, 1080B) or the High Vision (1035I). 1080B HD SELECT Sets the digital broadcasting (1080A, 1080B) or the High Vision (1035I). 1080B 1 Main menu Sub menu Functions Default Res INFORMATION FREQUENCY Used to check the frequency and synchronizing polarities of the signal – currently being inputted. – – LANGUAGE Sets the language of the menus (Japanese, English, German, French, Swedish, Italian or Spanish). English × COLOR SYSTEM Sets the VIDEO format (AUTO1, AUTO2, PAL, PAL-M, PAL-N, PAL60, AUTO1 ×	Main menu	Sub menu	Functions	Default	Rese
RGB SELECT Sets the appropriate mode for the computer image. RGB (VGA signals), VIDEO (Moving picture), WIDE (WIDE VGA) DTV. RGB HD SELECT Sets the digital broadcasting (1080A, 1080B) or the High Vision (1035l). 1080B RGB3 ADJ Adjusts the display position in the RGB3 input. 1 Main menu Sub menu Functions Default Res INFORMATION FREQUENCY Used to check the frequency and synchronizing polarities of the signal currently being inputted. - - LANGUAGE Sets the language of the menus (Japanese, English, German, French, Swedish, Italian or Spanish). English × COLOR SYSTEM Sets the VIDEO format (AUTO1, AUTO2, PAL, PAL-M, PAL-N, PAL60, AUTO1 ×	OPTION	AUDIO INPUT	Setting the allocation of the audio connectors.	*2	0
Main menu Sub menu Functions Default Res Main menu Sub menu Functions Default Res INFORMATION FREQUENCY Used to check the frequency and synchronizing polarities of the signal – currently being inputted. – – LANGUAGE Sets the language of the menus (Japanese, English, German, French, Swedish, Italian or Spanish). English × COLOR SYSTEM Sets the VIDEO format (AUTO1, AUTO2, PAL, PAL-M, PAL-N, PAL60, AUTO1 ×		BNC SELECT	Setting the BNC connectors.	RGB	0
RGB3 ADJ Adjusts the display position in the RGB3 input. 1 Main menu Sub menu Functions Default Res INFORMATION FREQUENCY Used to check the frequency and synchronizing polarities of the signal – currently being inputted. – – – LANGUAGE Sets the language of the menus (Japanese, English, German, French, Swedish, Italian or Spanish). English × COLOR SYSTEM Sets the VIDEO format (AUTO1, AUTO2, PAL, PAL-M, PAL-N, PAL60, AUTO1 ×		RGB SELECT		RGB	0
RGB3 ADJ Adjusts the display position in the RGB3 input. 1 Main menu Sub menu Functions Default Res INFORMATION FREQUENCY Used to check the frequency and synchronizing polarities of the signal – currently being inputted. – – – LANGUAGE Sets the language of the menus (Japanese, English, German, French, Swedish, Italian or Spanish). English × COLOR SYSTEM Sets the VIDEO format (AUTO1, AUTO2, PAL, PAL-M, PAL-N, PAL60, AUTO1 ×		HD SELECT	Sets the digital broadcasting (1080A, 1080B) or the High Vision (1035I).	1080B	×
INFORMATION FREQUENCY Used to check the frequency and synchronizing polarities of the signal - - currently being inputted. LANGUAGE Sets the language of the menus (Japanese, English, German, French, English) English × Swedish, Italian or Spanish). COLOR SYSTEM Sets the VIDEO format (AUTO1, AUTO2, PAL, PAL-M, PAL-N, PAL60, AUTO1 ×		RGB3 ADJ			0
currently being inputted. LANGUAGE Sets the language of the menus (Japanese, English, German, French, English × Swedish, Italian or Spanish). COLOR SYSTEM Sets the VIDEO format (AUTO1, AUTO2, PAL, PAL-M, PAL-N, PAL60, AUTO1 ×	Main menu	Sub menu	Functions	Default	Rese
LANGUAGESets the language of the menus (Japanese, English, German, French, Swedish, Italian or Spanish).EnglishCOLOR SYSTEMSets the VIDEO format (AUTO1, AUTO2, PAL, PAL-M, PAL-N, PAL60, AUTO1AUTO1	INFORMATION	FREQUENCY		-	-
COLOR SYSTEM Sets the VIDEO format (AUTO1, AUTO2, PAL, PAL-M, PAL-N, PAL60, AUTO1 ×		LANGUAGE	Sets the language of the menus (Japanese, English, German, French,	English	×
		COLOR SYSTEM	Sets the VIDEO format (AUTO1, AUTO2, PAL, PAL-M, PAL-N, PAL60,	AUTO1	×

*1 RGB/PC only. *2 AUDIO1: RGB1 AUDIO2: VIDEO1 AUDIO3: HD/DVD1

Picture Settings Menu

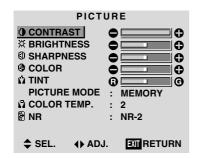
Adjusting the picture

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

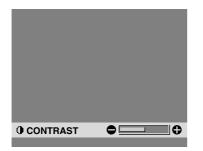
Example: Adjusting the contrast

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

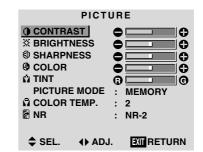
- Use the ▲ and ▼ buttons to select "PICTURE", then press the "PROCEED" button. The "PICTURE" screen appears.
- 2. Use the \blacktriangle and \blacktriangledown buttons to select "CONTRAST".



3. Use the \triangleleft and \blacktriangleright buttons to adjust the picture.



* If neither the destrip or button is pressed within 5 seconds, the current setting is set and the previous screen reappears. 4. Press the "PROCEED" button. The contrast adjustment is completed.



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

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

Information

■ Picture adjustment screen CONTRAST Changes the picture's contrast. BRIGHTNESS Changes the picture's brightness. SHARPNESS Changes the picture's sharpness. Adjusts picture detail of VIDEO display.

COLOR Changes the color density. TINT Changes the picture's tint. Adjust for natural colored skin, back-

ground, etc.

Adjusting the computer image

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

Restoring the factory default settings

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

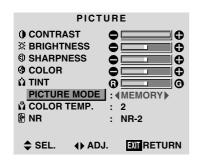
Setting the picture mode according to the brightness of the room

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

Example: Setting the "THEATER" mode

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

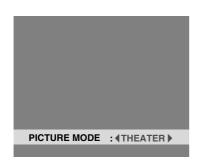
- Use the ▲ and ▼ buttons to select "PICTURE", then press the "PROCEED" button. The "PICTURE" screen appears.
- 2. Use the \blacktriangle and \triangledown buttons to select "PICTURE MODE".



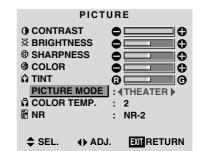
3. To set to "THEATER" ...

Use the \triangleleft and \triangleright buttons to select "THEATER". The mode switches as follows when the \triangleleft and \triangleright buttons are pressed:

```
\mapsto MEMORY \leftrightarrow THEATER \leftrightarrow NORMAL \leftrightarrow RESET \leftarrow
```



* If neither the ◀ or ► button is pressed within 5 seconds, the current selection is set and the previous screen reappears. 4. Press the "PROCEED" button. The picture mode is set to "THEATER".



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

Information

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

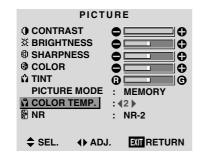
Setting the color temperature

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

Example: Setting "1"

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

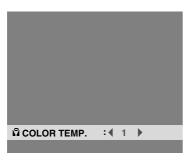
- Use the ▲ and ▼ buttons to select "PICTURE", then press the "PROCEED" button. The "PICTURE" screen appears.
- 2. Use the \blacktriangle and \blacktriangledown buttons to select "COLOR TEMP.".



3. Use the ◄ and ▶ buttons to select "1". The mode switches as follows when the ◄ and ▶ buttons are pressed:

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

* See page 21 to set "PRO".



If neither the \triangleleft or \triangleright button is pressed within 5 seconds, the current selection is set and the previous screen reppears.

4. Press the "PROCEED" button.

The "COLOR TEMP." is set to "1".

PICTURE
🔅 BRIGHTNESS 🕒
I SHARPNESS
Ω TINT B G
PICTURE MODE : MEMORY
COLOR TEMP. : (1)
NR : NR-2
♦ SEL. ♦ ADJ. INTRETURN

 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

- 1 High (bluer)
- 2 Middle (Standard)
- 3 Low (redder)

Restoring the factory default settings

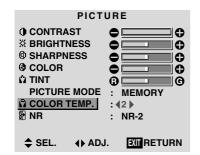
Adjusting the color to the desired quality

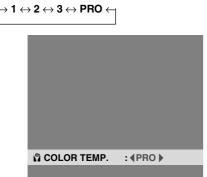
Use this procedure to adjust the white balance for bright pictures and dark pictures to achieve the desired color quality.

Example: Adjusting the "WHITE BALANCE"

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

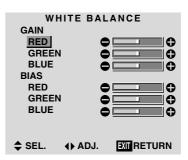
- Use the ▲ and ▼ buttons to select "PICTURE", then press the "PROCEED" button. The "PICTURE" screen appears.
- 2. Use the \blacktriangle and \blacktriangledown buttons to select "COLOR TEMP.".



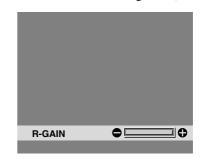


If neither the \triangleleft or \triangleright button is pressed within 5 seconds, the current selection is set and the previous screen reppears.

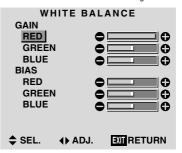
- 4. Press the "PROCEED" button. The "WHITE BALANCE" screen appears.
- 5. Use the \blacktriangle and \triangledown buttons to select "RED-GAIN".



6. Adjusts the white balance using the \triangleleft and \triangleright buttons.



- * If neither the destrip or button is pressed within 5 seconds, the current setting is set and the previous screen reappears.
- 7. Press the "PROCEED" button. The white balance has now been adjusted.



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

Information

Adjusting the white balance

- RGB-GAIN White balance adjustment for signal level
- RGB-BIAS White balance adjustment for black level

Restoring the factory default settings

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

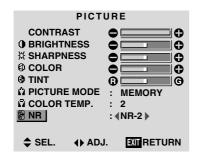
Reducing noise in the picture

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

Example: Setting "NR-3"

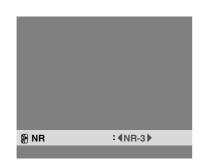
Press the PROCEED button on the remote controller to display the MAIN MENU on the screen, then...

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

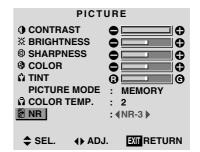


 Use the and buttons to select "NR-3". The mode switches as follows when the and buttons are pressed:

```
\rightarrow OFF \leftrightarrow NR–1 \leftrightarrow NR–2 \leftrightarrow NR–3 \leftarrow
```



* If neither the ◀ or ► button is pressed within 5 seconds, the current selection is set and the previous screen reappears. 4. Press the "PROCEED" button. The noise reduction mode is set to "NR-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

NR

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

Types of noise reduction

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

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

OFF Turns the noise reduction function off.

Sound Settings Menu

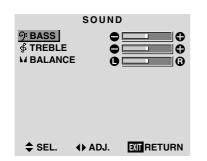
Adjusting the treble, bass and left/right balance

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

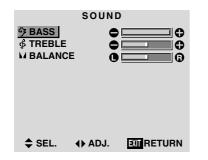
Example: Adjusting the bass

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

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

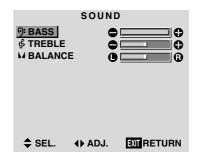


3. Adjust the bass using the \triangleleft and \triangleright buttons.



* If neither the ◀ or ► button is pressed within 5 seconds, the current selection is set and the previous screen reappears. *To continue adjusting the sound* ... Repeat from step 2.

4. Press the "PROCEED" button. The bass has now been adjusted.



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

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

Information Sound settings menu BASSChanges the level of low frequency

ound.
Changes the level of high frequency ound.
Changes the balance of the left and ight channels.

Restoring the factory default settings

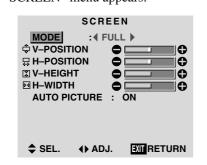
Screen Settings Menu

Adjusting the Position, Size, Fine Picture, Picture Adj The position of the image can be adjusted and flickering of the image can be corrected.

Example: Adjusting the vertical position in the normal mode

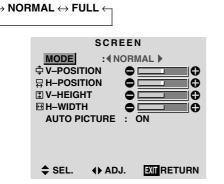
Press the PROCEED button on the remote controller to display the MAIN MENU on the screen, then...

1. Use the \blacktriangle and \triangledown buttons to select "SCREEN", then press the "PROCEED" button. The "SCREEN" menu appears.



2. To adjust the normal mode ...

Use the \triangleleft and \triangleright buttons to select "NORMAL". The mode switches as follows when the \triangleleft and \triangleright buttons are pressed:

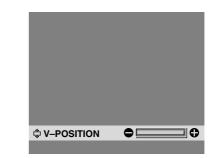


* The mode can also be switched by pressing the "WIDE" button on the remote controller.

3. To adjust the vertical position ... Use the \blacktriangle and \blacktriangledown buttons to select "V-POSITION".

	SCREEN
MODE	: NORMAL
₽ H-POSIT	
🖫 V–HEIGH	
H-WIDTH	
AUTO PIO	TURE : ON
\$ SEL.	♦ ADJ. EXIT RETURN

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



* If neither the \triangleleft or \triangleright button is pressed within 5 seconds, the current adjustment is set and the previous screen reappears.

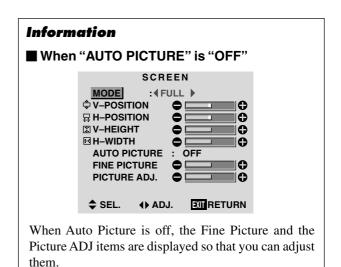
To continue making other computer image adjustments

Repeat from step 3.

5. Press the "PROCEED" button. The vertical position of the computer's image has now been adjusted.

SCREEN	l
MODE : NORM	IAL
🗘 V–POSITION 🕒	
	•
🖫 V–HEIGHT 🛛 🖨	
H–WIDTH	
AUTO PICTURE : C	DN .
♦ SEL. ◆ ADJ.	
V SEL. V ADJ.	EAL REI URIN

6. 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.



24 Download from Www.Somanuals.com. All Manuals Search And Download.

Information

Adjusting the Auto Picture

ON The Picture ADJ and Fine Picture adjustments are made automatically.
OFF The Picture ADJ and Fine Picture adjustments are made 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 im- age. (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 avail-
able only when the "Auto Picture" is off,.

* The AUTO PICTURE, FINE PICTURE and PIC-TURE ADJ. are not available for VIDEO and HD/ DVD source.

Restoring the factory default settings

Select "RESET" under the function menu. Note that this also restores other settings to the factory defaults also restores other settings to the factory defaults except that the Auto Picture is not reset.

Function Settings Menu

Setting the on-screen display

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

Example: Turning the on-screen display mode off

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

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

FUNCTION			
OSM		:•	(ON)
OSM AD	J.	:	1
POWER	MGT	:	OFF
GRAY LE	EVEL	:	3
PLE+INV	ERSE	:	AUTO
CINEMA	MODE	:	AUTO
RESET			
🗢 SEL.	<₽ AD.	J.	

3. To turn the on-screen display mode off ... Use the ◀ and ▶ buttons to select "OFF". The mode switches as follows each time the ◀ or ▶ button is pressed:
ON ↔ OFF

FUNCTION				
OSM OSM ADJ. POWER MGT GRAY LEVEL PLE+INVERSE CINEMA MODE RESET	: 4 OFF) : 1 : OFF : 3 : AUTO : AUTO			
\$ SEL. ♦ AD.	J. EXIT RETURN			

4. Once the setting is completed ...

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

Information

OSM modes

ON The on-screen display appears. OFF The on-screen display does not appear.

Restoring the factory default settings

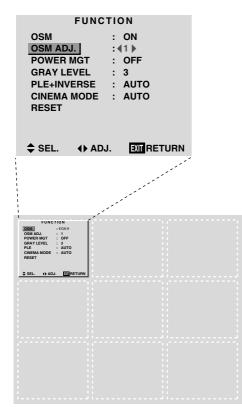
Adjusting the position of the menu display

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

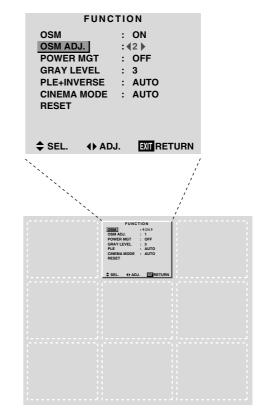
Example: Adjusting the position of the menu display

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

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



To adjust the position...
 Adjust using the ◀ and ► buttons.



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

Information

Adjusting the position of the menu display

 1
 2
 3

 4
 5
 6

 7
 8
 9

The position can be set between 1 and 9.

Restoring the factory default settings

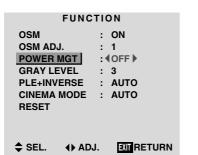
Setting the power management for computer images

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

Example: Turning the power management function on

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

- Use the ▲ and ▼ buttons to select "FUNCTION", then press the "PROCEED" button. The "FUNCTION" screen appears.
- 2. Use the \blacktriangle and \blacktriangledown buttons to select "POWER 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:



FUNC	TION
OSM OSM ADJ. POWER MGT GRAY LEVEL PLE+INVERSE CINEMA MODE RESET	: ON : 1 : ◀ON ► : 3 : AUTO : AUTO
\$ SEL. ↔ AD	J. EXT 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 conforming to the VESA DPMS format.
- * If the computer's power is not turned on or if the computer and selector tuner are not properly connected, the system is set to the off state.
- * For instructions on using the computer's power management function, refer to the computer's operating instructions.

Power management settings

- ONIn this mode the power management function is turned on.
- OFFIn 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 28 for indicator status and description.

Restoring the factory default settings

POWER/STANDBY indicator

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

Setting the gray level for the sides of the screen

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

Example: Adjusting the "GRAY LEVEL"

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

- Use the ▲ and ▼ buttons to select "FUNCTION", then press the "PROCEED" button. The "FUNCTION" screen appears.
- 2. Use the \blacktriangle and \triangledown buttons to select "GRAY LEVEL".



SEL. ↓ ADJ. EXIT RETURN

3. *To adjust the "GRAY LEVEL"...* Use the *◄* and *▶* buttons to adjust the GRAY LEVEL.

FUNCTION				
OSM	: ON			
OSM ADJ.	: 1			
POWER MGT	: OFF			
GRAY LEVEL	:49)			
PLE+INVERSE	: AUTO			
CINEMA MODE	: AUTO			
RESET				

SEL. ♦ ADJ. EXIT RETURN

5. Once the setting is completed ...

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

Information

GRAY LEVEL

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

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

Restoring the factory default settings

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

Setting the brightness level to the minimum

Locking this mode allows you to dim the picture.

Example: Setting the "PLE+INVERSE" to "LOCK"

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

- Use the ▲ and ▼ buttons to select "FUNCTION", then press the "PROCEED" button. The "FUNCTION" screen appears.
- 2. Use the \blacktriangle and \triangledown buttons to select "PLE+INVERSE".

FUNCTION		
OSM	: ON	
OSM ADJ.	: 1	
POWER MGT	: OFF	
GRAY LEVEL	: 3	
PLE+INVERSE	: AUTO	
CINEMA MODE	: AUTO	
RESET		

♦ SEL. ♦ ADJ. EXT RETURN

3. To set the PLE+INVERSE to "LOCK" ...
Use the ◀ and ▶ buttons to select "LOCK". The mode switches as follows each time the ◀ or ▶ button is pressed:
AUTO ↔ LOCK ↔ LOCK+ON ↔ AUTO+ON ¬

FUNC	FUNCTION				
OSM	: ON				
OSM ADJ.	: 1				
POWER MGT	: OFF				
GRAY LEVEL	: 3				
PLE+INVERSE	: (LOCK)				
CINEMA MODE	: AUTO				
RESET					
♦ SEL. () ADJ	. XII RETURN				

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

Information

PLE+INVERSE

AUTO Normally set to AUTO. LOCK Sets the brightness level to the mini-

mum. AUTO+ON Turns on the inverse function.

LOCK+ON Turns on the inverse function as well

as the lock function. ■ Restoring the factory default settings

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, 480I(60Hz) only]

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

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

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

FUNCTION	
OSM OSM ADJ. POWER MGT GRAY LEVEL PLE+INVERSE CINEMA MODE	: ON : 1 : OFF : 3 : AUTO : (AUTO)
RESET	,

♦ SEL. ♦ ADJ. EXT RETURN

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

FUNCTION	
OSM	: ON
OSM ADJ.	: 1
POWER MGT	: OFF
GRAY LEVEL	: 3
PLE+INVERSE	: AUTO
CINEMA MODE	: (ON)
RESET	
112021	

♦ SEL. ♦ ADJ. EXTRETURN

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	
AUTO Automatic dise and projection	crimination of the image in cinema mode.
ON All images an mode.	
OFF Cinema mode	does not function.
Restoring the factory dependence of the sector of the s	ofault cottings

Restoring the factory default settings

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

Resetting to the default values

Use these operations to restore all the picture adjustments, audio settings, to the factory default values. Refer to page 17 for items to be reset.

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

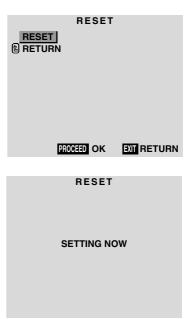
- Use the ▲ and ▼ buttons to select "FUNCTION", then press the "PROCEED" button. The "FUNCTION" screen appears.
- 2. Use the ▲ and ▼ buttons to select "RESET", then press the "PROCEED" button.

FUNCTION		
OSM	: ON	
OSM ADJ.	: 1	
POWER MGT	: OFF	
GRAY LEVEL	: 3	
PLE+INVERSE	: AUTO	
CINEMA MODE	: AUTO	
RESET		

SEL. PROCEED OK EXIT RETURN

The "RESET" screen appears.

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



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

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

Option Setting Menu

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

Example: Set AUDIO 1 to RGB 2.

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

- 1. Use the \blacktriangle and \triangledown buttons to select "OPTION", then press the "PROCEED" button. The "OPTION" screen appears.
- 2. Use the \blacktriangle and \bigtriangledown buttons to select "AUDIO 1".

OPTION	
AUDIO INPUT AUDIO1 AUDIO2 AUDIO3 BNC SELECT RGB SELECT HD SELECT RGB3 ADJ.	: (RGB1) : VIDEO1 : HD/DVD1 : RGB : RGB : 1080B : 1

EXIT RETURN \$ SEL. ♦ ADJ.

3. To set the AUDIO1 to "RGB2"... Use the \blacktriangle and \blacktriangledown buttons to select "AUDIO1". Use the \triangleleft and \triangleright buttons to select "RGB2". The mode switches as follows each time the \triangleleft or \blacktriangleright button is pressed:

ightarrow VIDE01 \leftrightarrow VIDE02 \leftrightarrow VIDE03 \leftrightarrow HD/DVD1 \leftrightarrow RGB1 \leftrightarrow RGB2 \leftrightarrow RGB3 \leftarrow

OPT AUDIO INPUT AUDIO1 AUDIO2 AUDIO3 BNC SELECT RGB SELECT HD SELECT	: (RGB2) : VIDEO1 : HD/DVD1 : RGB : RGB : 1080B
RGB3 ADJ.	: 1
\$ SEL. ♦ AD.	J. EXTRETURN

4. Once setting is completed...

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

Information

AUDIO INPUT

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

Restoring the factory default settings

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

Setting the BNC connectors

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

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

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

- 1. Use the \blacktriangle and \triangledown buttons to select "OPTION", then press the "PROCEED" button. The "OPTION" screen appears.
- 2. Use the \blacktriangle and \blacktriangledown buttons to select "BNC SELECT".

OPTION	
AUDIO INPUT	
AUDIO1	: RGB1
AUDIO2	: VIDEO1
AUDIO3	: HD/DVD1
BNC SELECT	: (RGB)
RGB SELECT	: RGB
HD SELECT	: 1080B
RGB3 ADJ.	: 1
≜ SEL ↔ AD	

3. To set the BNC SELECT mode to "COMP"... Use the \triangleleft and \triangleright buttons to select "COMP". The mode switches as follows each time the \triangleleft or \blacktriangleright button is pressed:

COMP.

OPTION		
AUDIO INPUT		
AUDIO1	: RGB1	
AUDIO2	: VIDEO1	
AUDIO3	: HD/DVD1	
BNC SELECT	: (COMP.)	
RGB SELECT	: RGB	
HD SELECT	: 1080B	
RGB3 ADJ.	: 1	
🗢 SEL. 🔹 AD	J. EXIT RETURN	

4. Once setting is completed...

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

Information

BNC SELECT

RGB Uses the 5BNC terminal for RGB input. COMP. Use the 3BNC terminal for component input.

Restoring the factory default settings

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

Setting a computer image to the correct RGB select screen

On the computer image select the RGB mode, moving image (video) mode, wide mode or digital broadcast.

Example: Setting the RGB SELECT mode to "VIDEO"

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

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

OPTION	
AUDIO INPUT AUDIO1 AUDIO2 AUDIO3 BNC SELECT RGB SELECT HD SELECT RGB3 ADJ.	: RGB1 : VIDEO1 : HD/DVD1 : RGB : ∢RGB ▶ : 1080B : 1
≜ SEL. ↔ AD.	

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

ightarrow RGB \leftrightarrow VIDEO \leftrightarrow WIDE \leftrightarrow DTV \leftarrow

OPTION	
AUDIO INPUT	
AUDIO1	: RGB1
AUDIO2	: VIDEO1
AUDIO3	: HD/DVD1
BNC SELECT	: RGB
RGB SELECT	: (VIDEO)
HD SELECT	: 1080B
RGB3 ADJ.	: 1
♦ SEL. ♦ AD	J. XII 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

RGB SELECT modes

One of these 4 modes must be selected in order to display the following signals correctly.

- RGBVESA 640×480@60Hz (Use this mode for normal computer images.)
- VIDEO To display the video signal that is converted to the RGB signal, set this mode.
- WIDE When an 852 dot \times 480 line signal with a horizontal frequency of 31.72 KHz is input, the image may be compressed horizontally. To prevent this, set RGB SELECT to WIDE.
- DTV Set this model when watching digital broad casting (480P).

Restoring the factory default settings

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

Setting high definition images to the suitable screen size

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

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

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

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

OPTION	
AUDIO INPUT	
AUDIO1	: RGB1
AUDIO2	: VIDEO1
AUDIO3	: HD/DVD1
BNC SELECT	: RGB
RGB SELECT	: RGB
HD SELECT	: 1080B
RGB3 ADJ.	: 1
\$ SEL. ♦ AD.	J. EXIT RETURN

3. To set the HD SELECT mode to "10351" ... Use the ◄ and ▶ buttons to select "10351". The mode switches as follows each time the ◄ or ▶ button is pressed:

 $-1080A \leftrightarrow 1080B \leftrightarrow 1035I - ----$

OPTION
AUDIO INPUT
AUDIO1 : RGB1
AUDIO2 : VIDEO1
AUDIO3 : HD/DVD1
BNC SELECT : RGB
RGB SELECT : RGB
HD SELECT : (10351)
RGB3 ADJ. : 1
♦ 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

HD SELECT modes

These 3 mode are not displayed in correct image automatically.

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

Adjusting the display position in the RGB3 input mode

If the image is not stable when in the RGB3 input mode, switch the "RGB3 ADJ." number to 2 or 3.

Example: Setting the "1" mode to "2"

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

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

OPTIO	N
AUDIO INPUT	
AUDIO1 :	RGB1
AUDIO2 :	VIDEO1
AUDIO3 :	HD/DVD1
BNC SELECT :	RGB
RGB SELECT :	RGB
HD SELECT :	1080B
RGB3 ADJ.	∢1 ▶
\$ SEL. ♦ ADJ.	

3. To set RGB3 ADJ. mode to "2"...

Use the \triangleleft and \triangleright buttons to select "2". The mode switches as follows when the \triangleleft or \triangleright buttons are pressed:

 $\rightarrow 1 \leftrightarrow 2 \leftrightarrow 3 \leftarrow$

OPTION	
AUDIO INPUT	
AUDIO1 : RGB1	
AUDIO2 : VIDEO1	
AUDIO3 : HD/DVD1	
BNC SELECT : RGB	
RGB SELECT : RGB	
HD SELECT : 1080B	
RGB3 ADJ. : €2 ►	
SEL. () ADJ. EXIT RETUR	N

 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

RGB3 ADJ.

The display position will change when the number is changed; when using the unit with "AUTO PICTURE" ON, switch it OFF and then back ON again to return the display position to its original location.

When using the unit with "AUTO PICTURE" OFF, please perform the display position adjustment again.

Restoring the factory default settings

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

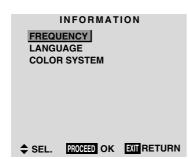
Information Menu

Checking the frequencies and polarities of input signals

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

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

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



3. The frequency is displayed.

FR	EQUENCY
H. FREQ	: 37.5KHz
V. FREQ	:75.0Hz
H. POL	:NEG.
V. POL	:NEG.

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

Setting the language for the menus

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

Example: Setting the menu display to "DEUTSCH"

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

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



The "LANGUAGE" screen appears.

3. *To select* " *DEUTSCH* " ... Use the ◀ and ▶ buttons to select " DEUTSCH ". The mode switches as follows when the ◀ and ▶]

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

ightarrow ENGLISH ↔ DEUTSCH ↔ FRANÇAIS ← → 日本語 ↔ SVENSKA ↔ ITALIANO ↔ ESPAÑOL ←



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

Information

Language settings

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

34

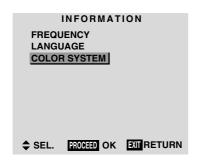
Setting the video signal format

Use these operations to set the video signal format.

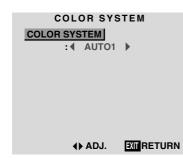
Example: Setting the video signal format to "3.58 NTSC"

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

- 1. Use the \blacktriangle and \triangledown buttons to select "INFORMATION", then press the "PROCEED" button. The "INFORMATION" screen appears.
- 2. Use the \blacktriangle and \triangledown buttons to select "COLOR SYSTEM", then press the "PROCEED" button.



The "COLOR SYSTEM" screen appears.



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

The color system is set to "3.58 NTSC".

Information

Video signal formats

Different countries use different formats for video signals. Set to the format used in your current country. AUTO1/2 The video signals are automatically detected and the format is set accordingly. AUTO1: 3.58NTSC, 4.43NTSC, PAL, SECAM, PAL60 AUTO2: PAL-M, PAL-N, 3.58NTSC PAL(B.G) This is the standard format used mainly in the United Kingdom and Germany. SECAM This is the standard format used mainly in France and Russia. 4.43 NTSC, PAL60 This format is used for videos in countries using PAL and SECAM video signals. 3.58 NTSC This is the standard format used mainly in Japan and the United States. PAL-M..... This is the standard format used mainly in Brazil. PAL-N This is the standard format used mainly in Argentina.

3. To select "3.58 NTSC" ...

Use the \triangleleft and \triangleright buttons to select "3.58 NTSC". The mode switches as follows when the \triangleleft and \triangleright buttons are pressed:

```
\label{eq:auto1} \begin{array}{c} \mathsf{AUTO1} \leftrightarrow \mathsf{AUTO2} \leftrightarrow 3.58\mathsf{NTSC} \leftrightarrow 4.43\mathsf{NTSC} \leftarrow \\ \hookrightarrow \mathsf{SECAM} \leftrightarrow \mathsf{PAL}\text{-}\mathsf{M} \leftrightarrow \mathsf{PAL}\text{-}\mathsf{N} \leftrightarrow \mathsf{PAL60} \leftrightarrow \mathsf{PAL} \leftarrow \end{array}
```

COLOR SYSTEM COLOR SYSTEM : 4 3.58NTSC >
∢) ADJ. EXTRETURN

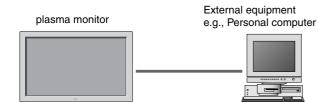
External Control

Application

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

Connections

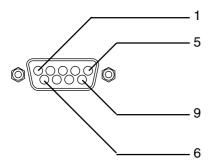
Connections are made as described below.



1) Connector on the plasma monitor side: EXTERNAL CONTROL connector.

Type of connector: D-Sub 9-pin male

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



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

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

3) Wiring

Use a crossed (reverse) cable.

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

Communication Parameters

Asynchronous

RS-232C

9600 bps

8 bits

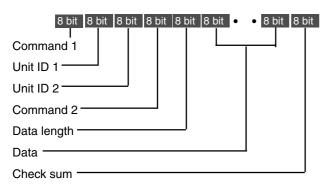
Odd

1 bit

Hex

- (1) Communication system
- (2) Interface
- (3) Baud rate
- (4) Data length
- (5) Parity
- (6) Stop bit
- (7) Communication code

Communication Format



Command 1

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

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

Unit ID 1 and Unit ID 2

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

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

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

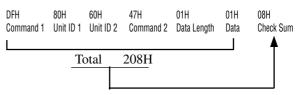
Command 2

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

Check Sum (CKS), Error Processing, and ACK

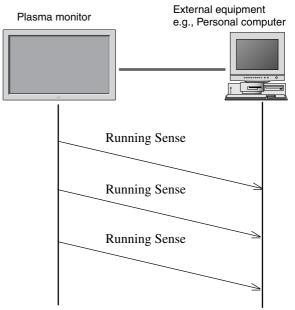
 The check sum described below and RS-232C odd parity are used together for a check of the received data. The check sum is the lower order 8 bits of one frame of sent or received data comprising the sum total of Command 1, Unit ID 1 and 2, Command 2, Data Length, and Data.

Check Sum Example



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

Communications Flow



The plasma monitor regularly transmits a Running Sense command at an interval of approximately 1 second. (Running Sense command: 1FH 60H E0H 88H 00H E7H) This command is used to recognize optional equipment. The return of an ACK is not required when external equipment such as a personal computer has been connected. Note that destruction of this data is recommended when it is taken in.

When various commands are to be sent from external equipment such as a personal computer, the plasma monitor is always receive enabled.

Note that when an ACK has not been returned from the plasma monitor in 1.5 seconds, a resending of the command is recommended.

Command Reference List

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

01. Power ON

Function

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

9FH 80H 60H 4EH 00H CKS

ACK

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

3FH 60H 80H 4EH 00H CKS

02. Power OFF

Function

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

9FH 80H 60H 4FH 00H		000	4F N	υυπ	UNO
---------------------	--	-----	------	-----	-----

ACK

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

3FH 60H 80H 4FH 00H CKS

03. Input Switch Change

Function

The external control equipment switches the input of the plasma monitor. *Transmission Data*

DFH	80H	60H	47H	01H	DATA00	CKS	
DFH DATA00		60H out Sele		01H	01H: Video1 02H: Video2 03H: Video3	or DTV or DTV1) V2) C1	
					OCH: RGB3/P	C3	

ACK

The plasma monitor returns the following ACK when the input is switched. 3FH 60H 80H 47H 00H CKS

04. VOLUME Gain Data

Function

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

Transmission Data

DFH	80H	60H	7FH	03H	DATA00 DATA01 DATA02 CKS		
DATA00	USE	R SOUI	ND Gaiı	n Flag	05H		
DATA01	VOL	UME G	ain Fla	g	01H		
DATA02 VOLUME Gain					00H: Step 0 		
	0AH: Step 10 (Default) 						
					2AH: Step 42		
ACK							
7FH	60H	80H	7FH	02H	DATA00 DATA01 CKS		
DATA00	USE	R SOU	ND Gaiı	n Flag	05H		

05. SCREEN MODE Select

DATA01 VOLUME Gain Flag

Function

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

01H

Transm	iissior	ı Data				
DFH	80H	60H	51H	01H	DATA00	CKS
DATA00		: STA	•			
	03H	: ZOC	М			
	04H	: NOF	MAL			
	05H	: FUL	L			
ACK						
7FH	60H	80H	51H	01H	DATA00	CKS
DATA00	02H	: STA	DIUM			
	03H	: ZOO	М			
	04H	: NOF	MAL			
	05H	: FUL	L			

06. AUDIO Mute On

Function

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

Transmission Data

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

07. AUDIO Mute Off

Function

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

Transmission Data

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

08. OSM Select

Function

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

Transmission Data

DFH	80H	60H	58H	01H	DATA00	CKS			
DATA00	02H : Screen display Off								
ACK									
7FH	60H	80H	58H	01H	DATA00	CKS			
DATA00			en disp en disp	,					

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

*Operation is as described in the table below.

09. COLOR Gain Data

Function

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

Transmission Data

DFH	80H	60H	7FH	03H	DATAOO	DATA01	DATA02	CKS	
DATA00	USE	R PICTI	JRE Ga	in Flag		01H			
DATA01	COL	OR Gai	n Flag			04H			
DATA02	COL	.OR Gaiı	n			EAH: -	22		
						FFH: -	01		
						00H: 0	1		
						01H: +	01		
						16H: +	22		
ACK									
7FH	60H	80H	7FH	02H	DATAOO	DATA01	CKS		
DATA00	USE	R PICTI	JRE Ga	in Flag		01H			

DATA00:	USEF	R PICTURE Gai	in Flag	01H
DATA01:	COL	OR Gain Flag		04H

10. TINT Gain Data

Function

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

Transmission Data

DFH	80H	60H	7FH	03H	DATAOO	DATA01	DATA02	CKS	
DATA00:	: USE	R PICTI	JRE Ga	in Flag		01H			
DATA01:	: TINT	Gain F	lag			05H			
DATA02	: TINT	Gain				EAH:	-22		
						FFH: ·	-01		
						00H: (D		
						01H: -	+01		
						16H: ·	+22		
ACK									
7FH	60H	80H	7FH	02H	DATA00	DATA01	CKS		
		ודמום ם				0411			

/FH	60H	80H	/FH	02H	DATAOO	DAIA01	CKS	
DATA00:	USE	R PICT	URE Ga	ain Flag		01H		
DATA01:	TINT	Gain I	Flag			05H		

		On-Screen D	isplay (OSD)		
Operation	Display of items and adjust	ments on the menu	Volume display, input display, and screen size display		
	When screen display is ON	When screen display is OFF	When screen display is ON	When screen display is OFF	
Remote control operation	Yes	Yes	Yes	No	
Personal computer control operation	No	No	Yes	No	

11. SHARPNESS Gain Data

Function

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

Transmission Data

DFH	80H	60H	7FH	03H	DATAOO	DATA01	DATA02	CKS	
DATA00	: USE	R PICTI	JRE Ga	in Flag		01H			
DATA01	: SHA	RPNES	S Gain	Flag		06H			
DATA02	: SHA	RPNES	S Gain			FOH: ·	-16		
						FFH: ·	-01		
						00H: ()		
						01H: -	+01		
						10H:+	16		
ACK									
7FH	60H	80H	7FH	02H	DATA00	DATA01	CKS		

DATA00:	USER PICTURE Gain Flag	01H
DATA01:	SHARPNESS Gain Flag	06H

12. CONTRAST Gain Data

Function

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

Transmission Data

	DFH	80H	60H	7FH	03H	DATA00	DATA01	DATA02	CKS	
ļ	DATA00:	USE	R PICTI	JRE Ga	in Flag		01H			
	DATA01:	CON	ITRAST	Gain Fl	ag		07H			
	DATA02	CON	ITRAST	Gain			00H :	0		
							34H: -	+52		

ACK

7FH	60H	80H	7FH	02H	DATAOO	DATA01	CKS	
DATA00:	USE	R PICT	URE Ga	in Flag		01H		
DATA01:	CON	ITRAST	Gain F	lag		07H		

13. BRIGHT Gain Data

Function

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

Transmission Data

DFH	80H	60H	7FH	03H	DATA00	DATA01	DATA02	CKS	
DATA00				in Flag		01H			
DATA01	: BRI	GHT Gai	n Flag			08H			
DATA02	: BRI	GHT Gai	n			EOH: ·	-32		
						FFH: ·	-01		
						00H: (C		
						01H: -	+01		
						20H: -	+32		

ACK

7FF	ł	60H	80H	7FH	02H	DATAOO	DATA01	CKS	
DATA	.00:	USE	R PICTI	JRE Ga	in Flag		01H		
DATA	.01:	BRIG	iHT Gai	n Flag			08H		

14. Input MODE Request

Function

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

Transmission Data

1FH	80H	60H	41H	00H	CKS	
ACK						
7FH	60H	80H	41H	01H	DATA00	CKS
DATA00:	01H 03H 05H 0AH	t Select : Video : Video : RGB1, :DVD (I :DVD2	1 3 (PC1	04H: 06H: 0CH:	Video2 HD (HD1 or E RGB2/PC2 HD2 (DTV2) RGB3/PC3)TV or DTV1)

15. RESET

Function

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

Transmission Data

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

16. COLOR TEMP SELECT

Function

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

Transm	ission E	Data					
DFH	80H	60H	00H	01H	DATA00	CKS	
DATA00)						
C	0H: 1						
C	1H: 2						
C	2H: 3						
C	3H: PR	0					
ACK							
7FH	60H	80H	00H	01H	DATA00	CKS	
DATA00):						
C	0H: 1						
C	1H: 2						
C	2H: 3						
C	3H: PR	0					
						or 3 of COLOR TEN	
	-		-			cannot be accepte	ed.
(This	must	be ope	rated i	n the s	same way a	is OSD menu.)	

17. RED Gain Data

Function

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

Transmission Data

[)FH	80H	60H	7FH	04H	DATA00 to DATA03 CKS	
DA	TA00	: USER	PICTU	RE Gair	n Flag	01H	
DA	TA01	: RED (Gain Fla	g		01H	
DA	TA02	: RED (Gain 1 (Bias)		D8H: -40	
						 FFH: -1 00H: 0 28H: +40	
DA	TA03	:RED G	ain 2 ([Drive)		D8H: -40 FFH: -1 00H: 0	
AC	:к					 28H: +40	

19. BLUE Gain Data

DATA00: USER PICTURE Gain Flag

DATA01: BLUE Gain Flag

Function

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

Transmission Data

DFH	80H	60H	7FH	04H	DATA00 to DATA03 CKS	
DATA00	: USER	PICTU	RE Gair	n Flag	01H	
DATA01	: BLUE	Gain Fl	ag		03H	
DATA02	: BLUE	Gain1(Bias)		D8H:-40	
					FFH:-1	
					00H: 0	
					28H: +40	
DATA03	: BLUE	Gain2(Drive)		D8H: -40	
					FFH:-1	
					00H: 0	
					28H:+40	
ACK						
ACT						

01H

03H

ACK

7FH	60H	80H	7FH	02H	DATAOO	DATA01	CKS	
DATA00	: USER	PICTU	RE Gair	n Flag		01H		
DATA01	: RED G	ain Fla	g			01H		

18. GREEN Gain Data

Function

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

Transmission Data

DFH 80H 60H	7FH	04H	DATA00 to DATA03	CKS
DATA00: USER PICTUR	RE Gair	n Flag	01H	
DATA01: GREEN Gain I	Flag		02H	
DATA02: GREEN Gain	1 (Bias)	D8H: -40	
			FFH: -1	
			00H: 0	
			28H: +40	
DATA03: GREEN Gain2	l (Drive)	D8H: -40	
			FFH: -1	
			00H: 0	
			28H: +40	
ACK				
7FH 60H 80H	7FH	02H	DATAOO DATAO1 CKS	
DATA00: USER PICTUR	RE Gair	n Flag	01H	
DATA01: GREEN Gain I	Flag		02H	

20. VIDEO A Function	ADJ Req	uest		DATA05: SHARPNESS Gain	F0H: -16
	ns the video a	Idjustm	ents information by the external cont	rol	FFH: -01
equipment's requ	iest.				00H: 0
Transmission I				_	01H: +01
1FH 80H 6	60H 45H	00H	CKS		
ACK					10H: +16
7FH 60H 8	80H 45H	0CH	DATA00 to DATA0B CKS		0011 0
DATA00: RED Ga	iin(Bias)		D8H: -40	DATA06: CONTRAST Gain	00H: 0 I
					I 34Н: +52
			FFH: -1		JHII. TJZ
			00H: 0	DATA07: BRIGHT Gain	E0H: -32
			28H: +40		, FFH: -01
	0 · (D')				00H: 0
DATA01: GREEN	Gain(Bias)		D8H: -40		01H: +01
			 FFH: -1		
			00H: 0		20H: +32
			1 28H: +40	DATA08: RED Gain(Drive)	D8H: -40
DATA02: BLUE G	ain(Bias)		D8H: -40		FFH: -1
	(,				00H: 0
			FFH: -1		
			00H: 0		28H: +40
			28H: +40	DATA09: GREEN Gain(Drive)	D8H: -40 I
					l FFH: -1
DATA03: COLOR	Gain		EAH: -22		00H: 0
			FFH: -01		28H: +40
			00H: 0		
			01H: +01	DATA0A: BLUE Gain(Drive)	D8H: -40
			l 16H: +22		
			100. +22		FFH: -1
DATA04: TINT Ga	ain		EAH: -22		00H: 0
Drinton. Hini de	2111				
			FFH: -01		28H: +40
			00H: 0		
			01H: +01	DATA0B: COLOR TEMP	00H: 1
					01H: 2
			16H: +22		02H: 3
					03H: PRO

21. Audio Select Set

Function

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

Transmission Data

DFH	80H	60H	70H	02H	DATA00	DATA01	CKS
DATA00	: AUI	dio inf	PUT				
	01H	4:	AUDIO) 1			
	02H	H:	AUDIO	2			
	03F	H:	AUDIO) 3			
DATA01	: VIS	UAL IN	PUT				
	01H	4:	Video	1			
	02H	4:	Video	2			
	03F	H:	Video	3			
	05H	4:	HD (H	D1 or E	DTV or DTV1)		
	06H	4:	HD2 ([DTV2)			
	07H	H:	RGB 1	/ PC 1			
	08H	4:	RGB 2	/ PC 2			
	0CI	H:	RGB 3	/ PC 3			

ACK

The plasma monitor returns the following ACK when the input is switched. 3FH 60H 80H 70H 00H CKS

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

Example:

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

22. Audio Select Request

Function

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

Transmission Data

1FH	80H	60H	6FH	00H	CKS

ACK							
The plasr	na monitor r	eturns th	ne follov	wing AC	K:		
7FH	60H 80H	6FH	03H	DATA00	DATA01	DATA02	CKS
DATA00:	AUDIO 1						
DATA01:	AUDIO 2						
DATA02:	AUDIO 3						
	VISUAL IN	NPUT DA	ATA				
	01H:	Video	1				
	02H:	Video	2				
	03H:	Video	3				
	05H:	HD (HI	D1 or D	TV or D	TV 1)		
	06H:	HD2 ([DTV2)				
	07H:	RGB 1	/PC 1				
	08H:	RGB 2	/PC 2				
	OCH:	RGB 3	/PC 3				

23. PLE_INVERSE Set

Function

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

Transmission Data

	DFH	80H	60H	6AH	02H	DATA00	DATA01	CKS
	DATA00	: Pl	E					
		01H	4:	AUTO				
		02H	H:	LOCK				
	DATA01	: IN	VERSE					
		01H	H:	ON				
		02H	4:	OFF				
,	ACK							
	T I I							

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

3FH 60H 80H 6AH 00H CKS

24. Failure Mode Request

Function

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

Transmission Data

1FH 80H 60H 3FH CKS 00H

ACK

The plasma monitor returns the following ACK:

7FH	60H	80H	3FH	02H	DATAOO	DATA01	CKS

Bit 0 :	PDP MODULE
	0: Abnormal
	1: Normal
Bit 1 :	fixed (backup)
Bit 2 :	TEMPERATURE
	0: Abnormal
	1: Normal
Bit 3 :	FAN
	0: Abnormal
	1: Normal
Bit 4 :	fixed (backup)
Bit 5 :	fixed (backup)
Bit 6 :	fixed (backup)
Bit 7 :	fixed (backup)
DATA00:FILURE MOD	E 2
Bit 0–7 :	fixed (backup)

Table for Signals Supported

Supported resolution

- When screen mode is NORMAL, each signal is converted to a 640 dots × 480 lines signal. (Except for *3)
- When screen mode is FULL, each signal is converted to a 853 dots \times 480 lines signal. (Except for *2)

Model	Dots $ imes$ lines	Vertical	Horizontal	Screen mode	
Model	DOIS × IIIIes	frequency (Hz)	frequency (kHz)	NORMAL	FULL
	640×400	70.1	31.5	YES*1	YES*1
	640×480	59.9	31.5	YES	YES
		72.8	37.9	YES	YES
		75.0	37.5	YES	YES
		85.0	43.3	YES	YES
		100.0	51.1	YES	YES
		120.0	61.3	YES	YES
*IBM PC/AT compatible	848×480*2	60.0	31.0		YES
computers	800×600	56.3	35.2	YES	YES
		60.3	37.9	YES	YES
		72.2	48.1	YES	YES
		75.0	46.9	YES	YES
		85.0	53.7	YES	YES
		100.0	63.0	YES	YES
		120.0	75.7	YES	YES
	1024×768	60.0	48.4	YES	YES
		70.0	56.5	YES	YES
		75.0	60.0	YES	YES
		85.0	68.7	YES	YES
		100.0	80.5	YES	YES
	1280×1024	60.0	64.0	YES*3	YES
	640×480	66.6	35.0	YES	YES
*Apple Macintosh	832×624	74.6	49.7	YES	YES
	1024×768	74.9	60.2	YES	YES
	1152×870	75.1	68.7	YES	YES

Computer input signals supported on this system

*1 Display only 400 lines with the screen center of the vertical orientation located at the center.

*2 Only when using a graphic accelerator board that is capable of displaying 848×480 .

*3 Aspect ratio is 5:4. This signal is converted to a 600 dots \times 480 lines signal.

NOTE:

• With digital inputs some signals are not accepted.

• The sync may be disturbed when non standard signals other than the aforementioned are input.

• When connecting a composite sync signal, use the HD terminal.

* "IBM PC/AT" and "VGA" are a registered trademark 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. Sound is noisy. Remote control unit operates errone- ously.	 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 controller does not work.	 Are the remote controller's batteries worn out? 	Replace both batteries with new ones.
Monitor's power does not turn on when the remote controller's power button is	 Is the monitor's power cord plugged into a power outlet? 	 Plug the monitor's power cord into a power outlet.
pressed.	Are all the monitor's indicators off?	 Press the power button on the monitor to turn on the power.
	 Are the remote controller's batteries worn out? 	Replace both batteries with new ones.
Monitor does not operate when the re- mote controller's buttons are pressed.	 Is the remote controller pointed at the monitor, or is there an obstacle between the remote controller and the monitor? 	 Point the remote controller at the monitor's remote control sensor when pressing but- tons, 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, point- ing the light in a different direction, etc.
	 Are the remote controller's batteries worn out? 	Replace both batteries with new ones.
	The remote cable is plugged into the REMOTE IN terminal (Wired)	Unplung the remote cable from the monitor.
	 The front panel buttons of the main unit do not function. 	 The front panel buttons do not function during Control Lock.
No sound or picture is produced.	 Is the monitor's power cord plugged into a power outlet? 	 Plug the monitor's power cord into a power outlet.
Picture appears but no sound is pro- duced.	 Is the volume set at the minimum? Is the mute mode set? Are the speakers properly connected? Is AUDIO INPUT set correctly? 	Increase the volume. Press the remote controller's mute button. Connect the speakers properly. Set AUDIO INPUT on the OPTION menu
Poor picture with VIDEO signal input.	 Improper control setting. Local interference. Cable interconnections. Input impedance is not correct level. 	 Correctly. Adjust picture control as needed. Try another location for the monitor. Be sure all connections are secure.
Poor picture with RGB signal input.	Improper control setting. Incorrect 15 PIN connector pin connections.	Adjust picture controls as needed. Check pin assignments and connections.
Tint is poor or colors are weak.	• Are the tint and colors properly adjusted?	Adjust the tint and color (under "PICTURE").
Nothing appears on screen.	 Is the computer's power turned on? Is a source connected? Is the power manager function in the 	 Turn on the computer's power. Connect source to the monitor. Operate the computer (move the mouse, etc.).
Part of picture is cut off or picture is not	standby or off mode?Is the position adjustment appropriate?	Adjust the "SCREEN" properly.
centered. Image is too large or too small.	 Is the screen size adjustment appropri- ate? 	 Press the "WIDE" button on the remote controller and adjust properly.
Picture is unstable.	 Is the computer's resolution setting appropriate? 	Set to the proper resolution.
POWER/STANDBY indicator is lighted in orange or red.	 Horizontal and / or vertical sync signal is not present when the Intelligent Power Manager control is on. 	Check the input signal.
POWER/STANDBY indicator is blinking in red.	 The temperature inside the main unit has become too high and has activated the protector. 	 Promptly switch off the power of the main unit and wait until the internal temperature drops. See*1.
POWER/STANDBY indicator is blinking in green.		 Prompty switch off the power of the main unit. See *2.

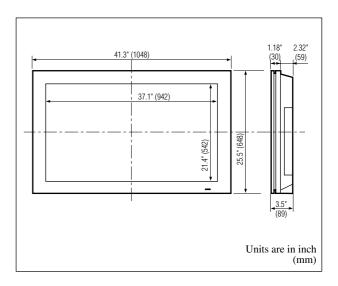
*1 Overheat protector

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

*2 In the following case, power off the monitor immediately and contact your dealer or authorized NEC Center. The monitor turns off 5 seconds after powering on and then the POWER/STANDBY indicator blinks. It indicators that the power supply circuit or, one more fans have been damaged.

Specifications

Product Name	PlasmaSync TM 42MP1 Plasma Monitor
Product Code	PX-42VM1A
Screen Size	36.3"(H)×20.4"(V) inches
	$921(H) \times 518.4(V) \text{ mm}$
	diagonal 42"
Aspect Ratio	16:9
Resolution	$853(H) \times 480(V)$ pixels
Pixel Pitch	$0.04"(H) \times 0.04"(V)$ inches
	$1.08(H) \times 1.08(V) \text{ mm}$
Color Reproduction	256 levels, 16,770,000 colors
Signals	
· · · · · -	Horizontal: 15.5 to 80.5 kHz
, ,	(automatic : step scan)
	Vertical : 50.0 to 120 Hz
	(automatic : step scan)
Input Signals	RGB, NTSC (3.58/4.43), PAL (B,G,M,N),
input orginalo	PAL60, SECAM, HD* ¹ , DVD* ¹ , DTV* ¹
Input Terminals	
RGB	
	mini D-sub 15-pin $\times 1$
(,	BNC (R, G, B, H/CS, V) \times 1
visual 5 (Digital)	DVI-I 29-pin $\times 1^{*2}$
Video	(Not compatible with analog input)
Visual 1	RCA-pin×1
Visual 2	BNC×1
Visual 3	S-Video: DIN 4-pin×1
DVD/HD/DTV	
Visual	RCA-pin (Y, PB[CB], PR[CR])
Audio	Stereo RCA×3
External Control	D-sub 9-pin × 1(RS-232C)
Sound output	7W+7W at 6 ohm
Power Supply	AC120V 50/60Hz
Current Rating	4.2A (maximum)
Power Consumption	395W (typical)
Dimensions	$41.3 \text{ (W)} \times 25.5 \text{ (H)} \times 3.5 \text{ (D)}$ inch
Walahi	$1048 (W) \times 648 (H) \times 89 (D) mm$
Weight Environmental Considerations	70.6 lbs / 32 kg
Operating Temperature	0°C to 40°C / 32°F to 104°F
Humidity	20 to 80%
Altitude	0 to 1900m / 0 to 6230ft
Storage Temperature	-10°C to 50°C / 14°F to 122°F
Humidity	10 to 90%
Altitude	0 to 3000m / 0 to 9840ft
Front Panel User Controls	Power on/off, Input source select,
	Volume up/down/ OSM control
Remote Control Functions	Power on/off, Input source selct, OSM control,
	Volume up/down, Cursor (UP, DOWN, LEFT,
	RIGHT), Pointer, Zoom up/down, Off timer,
	Wireless/Wired remote control
OSM Functions	Picture (Contrast / Brightness / Sharpness /
	Color / Tint / Picture mode/ Color tempera-
	ture / Noise reductions), Sound (Bass / Tre-
	ble / Balance), Screen (V-Position / H-Position
	/ V-Height/ H-Width/ Auto Picture/ Fine
	picture/ Picture adjustment), Function (OSM/
	OSM adjustment/ Power management/ Gray
	level/ PLE+INVERSE/ Cinema mode/
	Reset)/ Option (Audio input/ BNC select/
	RGB select/ HD select/ RGB3 Adjustment),
	Information (Frequency / Language / Color
	system)



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

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

Other Features	Power management, plug and play (DDC1,		
	DDC2b, RGB3: DDC2b only), Control lock		
Accessories	Remote controller with two AAA batteries,		
	Wired Remote cable, Adapter for Macintosh,		
	RGB cable (Mini D-Sub 15-pin to Mini D-Sub		
	15-pin connector), Power cord, User's Manual,		
	Safty metal fitting, Screw for safty metal fitting,		
	Ferrite core		
Regulations	UL Approved (UL 1950/ CSA 950)		
	DOC Canada requirements		
	Meets FCC class A requirements		



NEC Technologies, Inc. 1250 N. Arlington Heights Road, Suite 500 Itasca, Illinois 60143-1248

Printed on recycled paper

Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com