

Operation Manual

(Enhanced split screen Model)

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

NEC


NEC Solutions (America), Inc.

Important Information


Precautions

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

CAUTION



**RISK OF ELECTRIC SHOCK
DO NOT OPEN**



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

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

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

WARNING

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

Warnings and Safety Precaution

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

The plasma display panel consists of fine picture elements (cells) with more than 99.99 percent active cells. There may be some cells that do not produce light or remain lit.

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

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

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

2. Do not use this unit's polarized plug with extension cords or outlets unless the prongs can be completely inserted.
3. Do not expose the unit to water or moisture.
4. Avoid damage to the power cord, and do not attempt to modify the power cord.
5. Unplug the power cord during electrical storms or if the unit will not be used over a long period.
6. Do not open the cabinet which has potentially dangerous high voltage components inside. If the unit is damaged in this way the warranty will be void. Moreover, there is a serious risk of electric shock.
7. Do not attempt to service or repair the unit. The manufacturer is not liable for any bodily harm or damage caused if unqualified persons attempt service or open the back cover. Refer all service to authorized Service Centers.

To avoid damage and prolong operating life:

1. Use only with 100-240V 50/60Hz AC power supply. Continued operation at line voltages greater than 100-240 Volts AC will shorten the life of the unit, and might even cause a fire hazard.
2. Handle the unit carefully when installing it and do not drop.
3. Set the unit away from heat, excessive dust, and direct sunlight.
4. Protect the inside of the unit from liquids and small metal objects. In case of accident, unplug the power cord and have it serviced by an authorized Service Center.
5. Do not hit or scratch the panel surface as this causes flaws on the surface of the screen.
6. For correct installation and mounting it is strongly recommended to use a trained, authorized dealer.
7. As is the case with any phosphor-based display (like a CRT monitor, for example) light output will gradually decrease over the life of a Plasma Display Panel.
8. To avoid sulfurization it is strongly recommended not to place the unit in a dressing room in a public bath or hot spring bath.
9. Do not use in a moving vehicle, as the unit could drop or topple over and cause injuries.
10. Do not place the unit on its side, upside-down or with the screen facing up or down, to avoid combustion or electric shock.

Plasma monitor cleaning procedure:

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

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

your investment in this plasma monitor, please adhere to the following guidelines and recommendations for minimizing the occurrence of image burn:

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

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

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

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


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

Recommandations importantes


Précautions

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

ATTENTION



**RISQUE D'ELECTROCUTION
NE PAS OUVRIR**



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

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

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

AVERTISSEMENT

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

Mises en garde et précautions de sécurité

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

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

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

1. Laisser suffisamment d'espace autour de l'appareil pour la ventilation et éviter toute augmentation excessive de la température interne. Ne pas couvrir les événements ou l'installer dans un endroit trop exigü.
- Si vous installez l'appareil dans un espace clos, assurez-vous qu'il y ait suffisamment d'espace au-dessus pour permettre à l'air chaud de s'élever et de s'évacuer. Si la température du moniteur devient excessive, la protection contre les surchauffes entrera en action et coupera l'alimentation. Dans ce cas, éteindre l'appareil et débrancher le câble d'alimentation. Si la température de la pièce dans laquelle se trouve le moniteur est particulièrement élevée, déplacer celui-ci dans un endroit plus frais et attendre environ 60 minutes qu'il refroidisse. Si le problème persiste, prendre contact avec votre revendeur.
2. Ne pas raccorder la prise d'alimentation polarisée de ce périphérique à une rallonge ou une prise murale si les fiches ne peuvent pas être complètement insérées.
3. Ne pas exposer à l'eau ou à l'humidité.
4. Eviter d'endommager le cordon d'alimentation, et ne pas modifier le cordon d'alimentation.
5. Débrancher le câble d'alimentation électrique pendant les orages ou les longues périodes d'inactivité.
6. Ne pas ouvrir le coffret. Des composants de haute tension se trouvent à l'intérieur. Si l'appareil est endommagé de cette manière, la garantie devient caduque. De plus, il y a un risque d'électrocution.
7. Ne pas essayer d'intervenir ou de réparer l'appareil. Le

fabricant décline toute responsabilité en cas de blessure corporelle ou de dégâts matériels résultant d'une opération d'entretien quelconque effectuée par des personnes non qualifiées ou résultant de l'ouverture du couvercle arrière. S'adresser aux services après-vente autorisés.

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

1. N'utiliser qu'une source d'alimentation de 100-240 V 50/60 Hz CA. Le fait d'utiliser l'appareil en continu à des tensions de ligne supérieures à 100-240 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. Éviter que des liquides et des petits objets métalliques pénètrent à l'intérieur de l'appareil. En cas d'incident de ce genre, débrancher le câble d'alimentation électrique et confier le moniteur à un service après-vente agréé.
5. Ne pas frapper ou rayer la surface de la écran plasma, car des défauts risquent de se produire sur la surface de la écran plasma.
6. Pour un montage et une installation correcte, il est fortement recommandé de faire appel à un revendeur agréé et qualifié.
7. Comme c'est le cas pour tout affichage à base de phosphore (comme un moniteur CRT, par exemple), la puissance de lumière baisse graduellement au cours de la vie du Panneau d'Affichage à Plasma.
8. Pour éviter tout risque de sulfuration, il est fortement conseillé de ne pas installer l'appareil dans un vestiaire, un bain public ou un bain de source thermale.
9. Ne pas utiliser dans un véhicule en marche car l'unité pourrait tomber ou glisser et provoquer des blessures.
10. Pour éviter l'inflammation ou les chocs électriques, ne pas placer l'unité sur la tranche, à l'envers ou avec l'écran vers le bas ou vers le haut.

Méthode de nettoyage du moniteur à plasma:

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

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

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

- Assurez-vous de mettre en marche et d'utiliser 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.
- Changez la position de l'affichage de menu de temps à autre.
- Coupez toujours l'alimentation lorsque vous avez terminé d'utiliser la moniteur.

Si le moniteur est en usage continu ou longue durée, prenez les mesures suivantes afin d'éviter l'occurrence le brûlage du luminophore:

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

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

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

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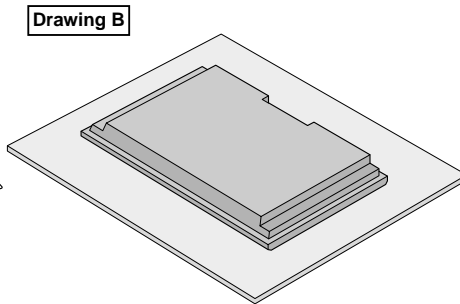
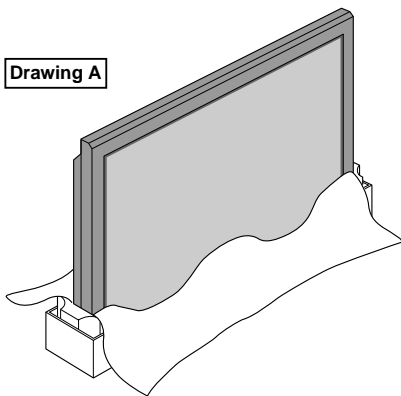
Installation

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

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

- **This device cannot be installed on its own. Be sure to use a stand or original mounting unit. (Wall mount unit, Stand, etc.)**
 - * See page 5.
 - **For correct installation and mounting it is strongly recommended to use a trained, authorized dealer.**
- Failure to follow correct mounting procedures could result in damage to the equipment or injury to the installer.**
- Product warranty does not cover damage caused by improper installation.**

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

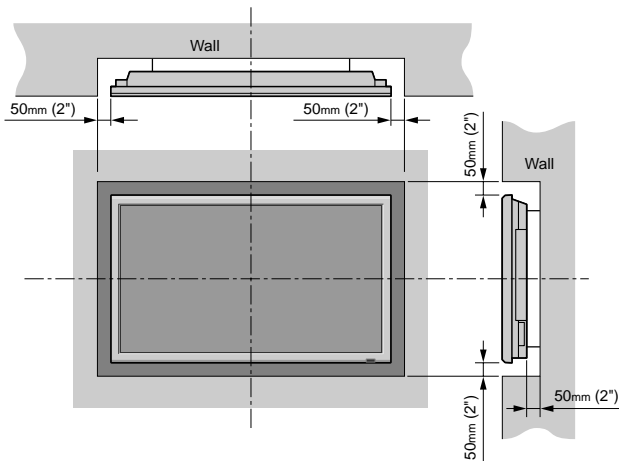


When installing or carrying, use the handles attached to the upper back of the display.



Ventilation Requirements for enclosure mounting

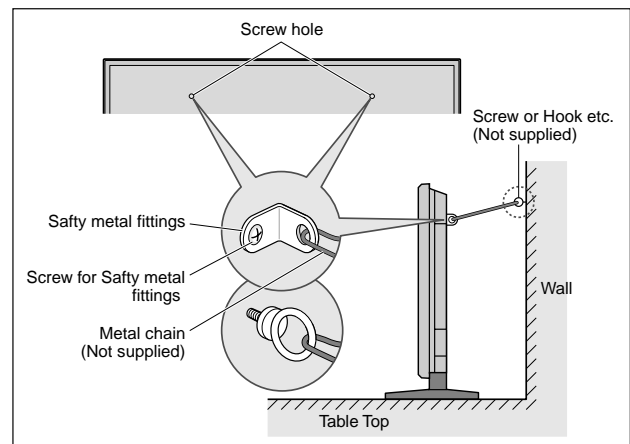
To allow heat to disperse, leave space between surrounding objects as shown on the diagram below when installing.



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

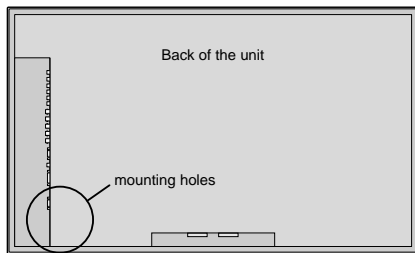
These are fittings for fastening the unit to a wall to prevent tipping due to external shock when using the stand (optional). Fasten the safety fittings to the holes in the back of the monitor using the safety fitting mount screws.

* Safety metal fittings will differ according to the model.

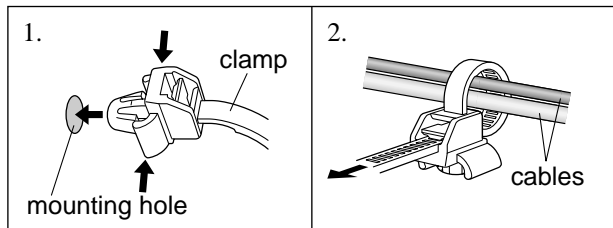


Cable Management

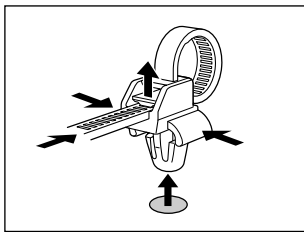
Using the cable clamps provided with the plasma display, bundle at the back of the unit the signal and audio cables connected to the display.



To attach



To detach

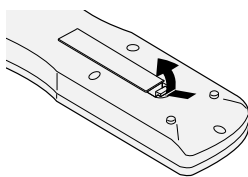


How to use the remote control

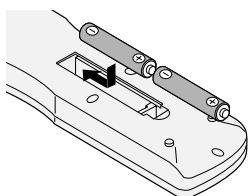
Battery Installation and Replacement

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

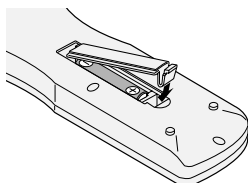
1. Press and open the cover.



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

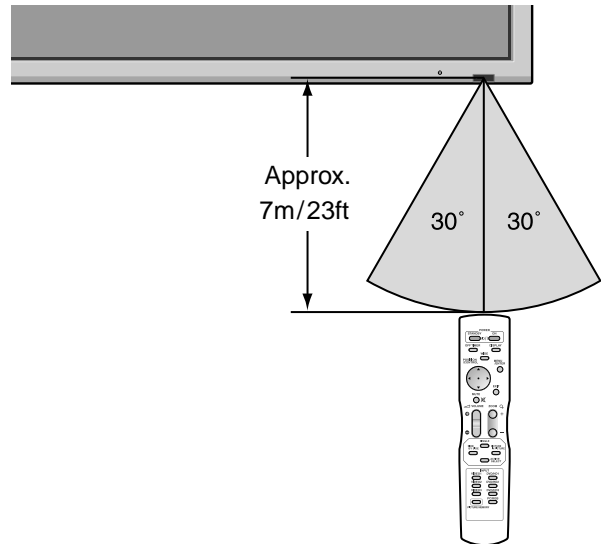


3. Replace the cover.



Operating Range

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

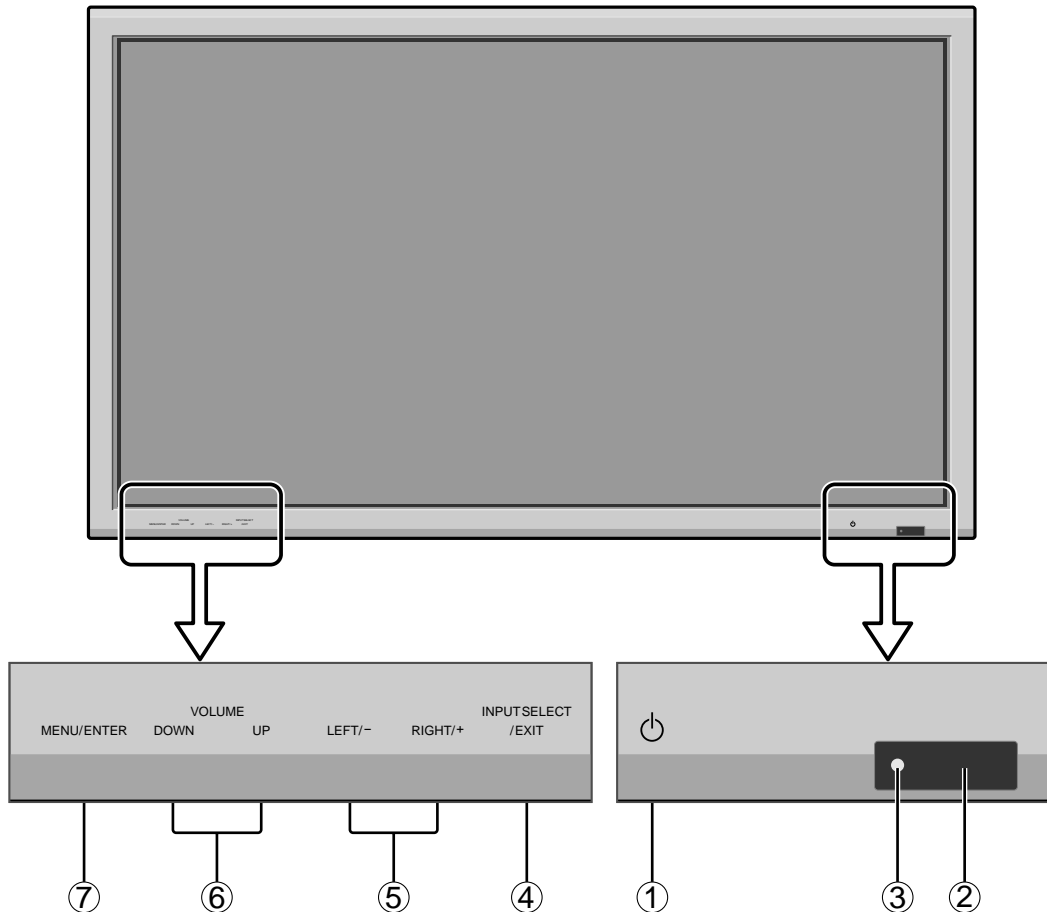


Handling the remote control

- Do not drop or mishandle the remote control.
- Do not get the remote control wet. If the remote control gets wet, wipe it dry immediately.
- Avoid heat and humidity.
- When not using the remote control for a long period, remove the batteries.
- Do not use new and old batteries together, or use different types together.
- Do not take apart the batteries, heat them, or throw them into a fire.

Part Names and Function

Front View

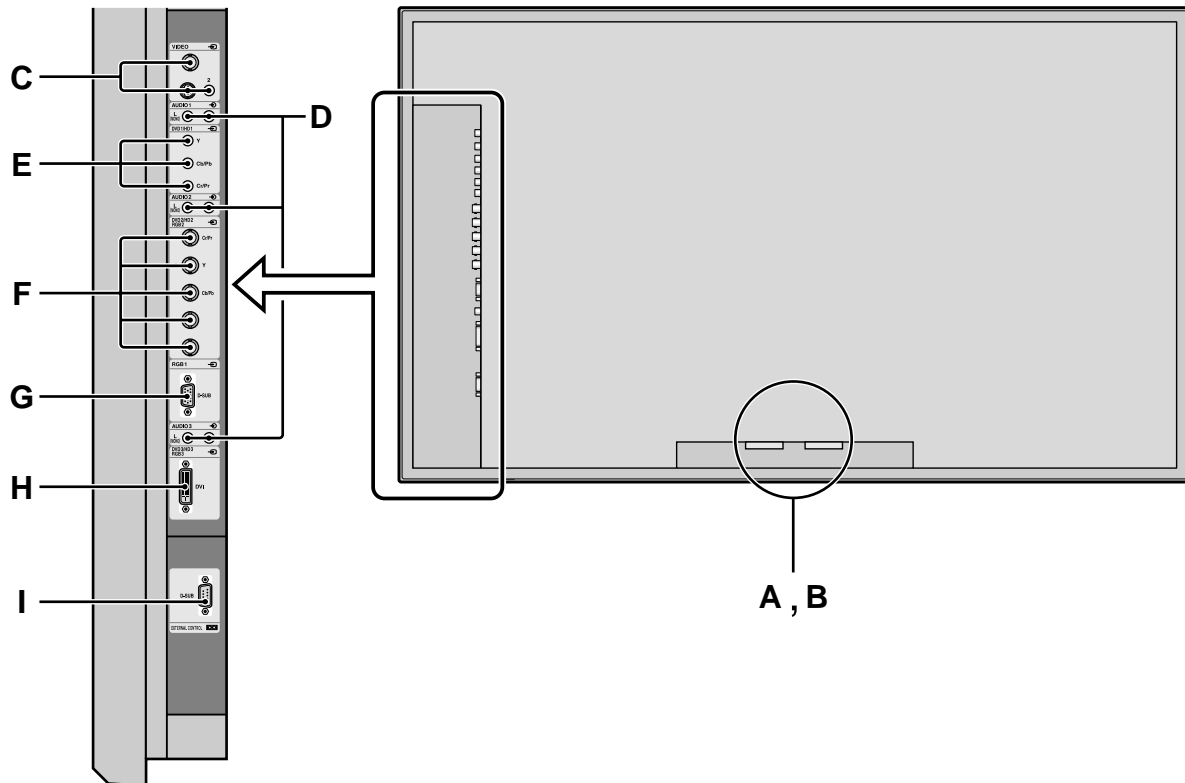


- ① **Power**
Turns the monitor's power on and off.
- ② **Remote sensor window**
Receives the signals from the remote control.
- ③ **POWER/STANDBY indicator**
When the power is on Lights green.
When the power is in the standby mode ... Lights red.
- ④ **INPUT SELECT / EXIT**
Switches the input.
The available inputs depend on the setting of "BNC INPUT", "RGB SELECT" and "DVI SET UP".
Functions as the EXIT buttons in the On-Screen Menu (OSM) mode.
- ⑤ **LEFT/- and RIGHT/+**
Enlarges or reduces the image. Functions as the CURSOR (◀ / ▶) buttons in the On-Screen Menu (OSM) mode.
- ⑥ **VOLUME DOWN and UP**
Adjusts the volume. Functions as the CURSOR (▲ / ▼) buttons in the On-Screen Menu (OSM) mode.
- ⑦ **MENU/ENTER**
Sets the On-Screen Menu (OSM) mode and displays the main menu.

WARNING

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

Rear View/ Terminal Board



A AC IN

Connect the included power cord here.

B EXT SPEAKER L and R

Connect speakers (optional) here. Maintain the correct polarity. Connect the \oplus (positive) speaker wire to the \oplus EXT SPEAKER terminal and the \ominus (negative) speaker wire to the \ominus EXT SPEAKER terminal on both LEFT and RIGHT channels.

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

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

Connect VCR's, DVD's or Video Cameras, etc. here.

D AUDIO1, AUDIO2, AUDIO3

These are audio input terminals.

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

E DVD1 / HD1

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

F DVD2/ HD2, RGB2

DVD2/ HD2: You can connect DVDs, High Definition sources, Laser Discs, etc. here.

This input can be set for use with an RGB or component source. (see page 23)

RGB2: You can connect an analog RGB signal and the synchronization signal.

G RGB1 (D-Sub)

Connect an analog RGB signal from a computer, etc. here.

H DVD3/ HD3, RGB3 (DVI)

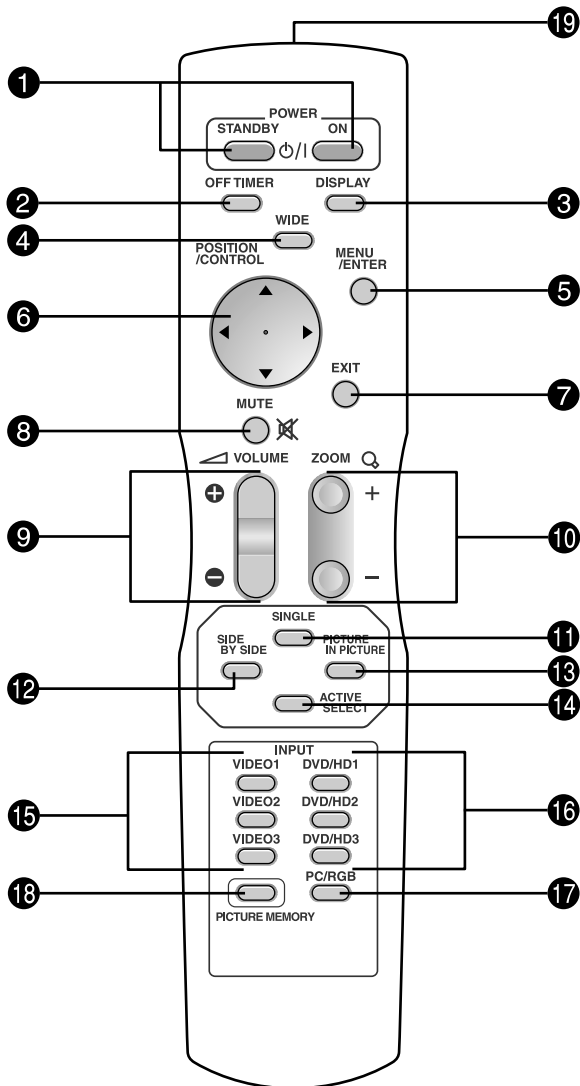
Connect a digital signal (TMDS) from a source with a DVI output.

This input can be set for use with an RGB3 or DVD3/ HD3 source. (see page 24)

I EXTERNAL CONTROL (D-Sub)

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

Remote Control



- ⑧ **MUTE**
Mutes the audio.
- ⑨ **VOLUME (+ /-)**
Adjusts the audio volume.
- ⑩ **ZOOM (+ /-)**
Enlarges or reduces the image.
- ⑪ **SINGLE**
Cancels the split screen mode.
- ⑫ **SIDE BY SIDE**
Press this button to show a couple of pictures in the side-by-side mode.
- ⑬ **PICTURE IN PICTURE**
Press this button to show a couple of pictures in the picture-in-picture mode.
- ⑭ **ACTIVE SELECT**
Press this button to make the desired picture activate during split screen mode.
- ⑮ **VIDEO1, 2, 3**
Press this button to select VIDEO as the source. VIDEO can also be selected using the INPUT SELECT button on the monitor.
- ⑯ **DVD/HD1, 2, 3**
Press this button to select DVD/HD as the source. DVD/HD can also be selected using the INPUT SELECT button on the monitor.
- ⑰ **PC/RGB**
Press this button to select PC/RGB as the source. PC/RGB can also be selected using the INPUT SELECT button on the monitor.
- ⑱ **PICTURE MEMORY**
Switches sequentially between picture memory settings 1 to 6.
- ⑲ **Remote control signal transmitter**
Transmits the remote control signals.

- ① **POWER ON/STANDBY**
Switches the power on/standby.
(This does not operate when POWER/STANDBY indicator of the main unit is off.)
- ② **OFF TIMER**
Activates the off timer for the unit.
- ③ **DISPLAY**
Displays the source settings on the screen.
- ④ **WIDE**
Automatically detects the signal and sets the aspect ratio.
Wide button is not active for all signals.
- ⑤ **MENU/ENTER**
Press this button to access the OSM controls.
Press this button during the display of the main menu to go to the sub menu.
- ⑥ **CURSOR (▲ / ▼ / ◀ / ▶)**
Use these buttons to select items or settings and to adjust settings or switch the display patterns.
- ⑦ **EXIT**
Press this button to exit the OSM controls in the main menu. Press this button during the display of the sub menu to return to the previous menu.

Basic Operations

POWER

To turn the unit ON and OFF:

1. Plug the power cord into an active AC power outlet.
2. Press the Power button (on the unit).
The monitor's POWER/STANDBY indicator turns red and the standby mode is set.
3. Press the POWER ON button (on the remote control) to turn on the unit.
The monitor's POWER/STANDBY indicator will light up (green) when the unit is on.
4. Press the POWER STANDBY button (on the remote control) or the Power button (on the unit) to turn off the unit.
The monitor's POWER/STANDBY indicator turns red and the standby mode is set (only when turning off the unit with the remote control).

VOLUME

To adjust the sound volume:

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

MUTE

To mute the audio:

Press the MUTE button on the remote control to mute the audio; 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. (Be sure ZOOM NAV is off.)
Press the ZOOM (+ or -) button to display magnifying glass. (🔍)

To change the size of the picture:

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

To change the picture position:

- Select the position with the ▲▼◀▶ buttons.
2. Press the EXIT button to delete the pointer.

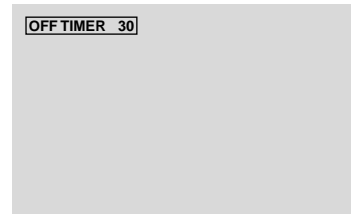
OFF TIMER

To set the off timer:

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

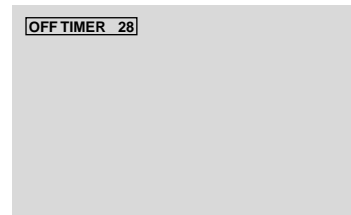
1. Press the OFF TIMER button to start the timer at 30 minutes.
2. Press the OFF TIMER button to the desired time.
3. The timer starts when the menu turns off.

→ 30 → 60 → 90 → 120 → 0



To check the remaining time:

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



To cancel the off timer:

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



Note:

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

WIDE Operations

Wide Screen Operation (manual)

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

When viewing videos or digital video discs

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

Press the WIDE button again.

The screen size switches as follows:

→ NORMAL → ANAMORPHIC → STADIUM → ZOOM → 2.35:1 → 14:9

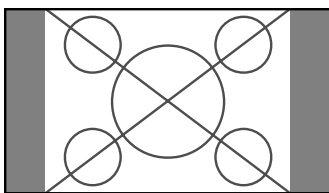
When a 720P or 1080I signal is input:

ANAMORPHIC ↔ 2.35:1

When displaying enhanced split screen:

NORMAL ↔ ANAMORPHIC

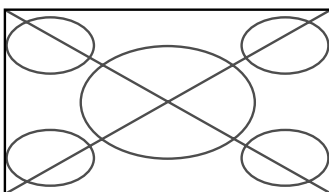
NORMAL size screen (4:3)



The normal size screen is displayed.

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

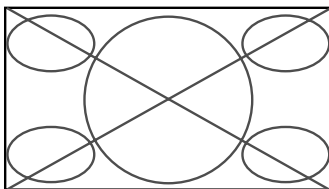
ANAMORPHIC size screen



The image is expanded in the horizontal direction.

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

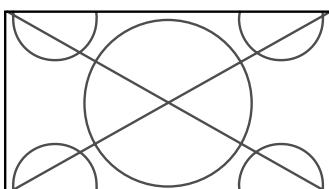
STADIUM size screen



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

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

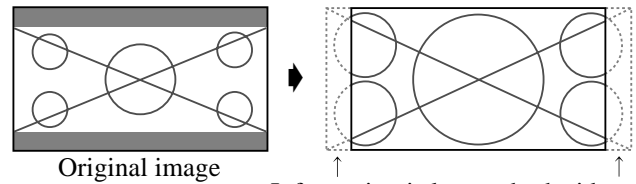
ZOOM size screen



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

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

2.35:1 size screen



Original image

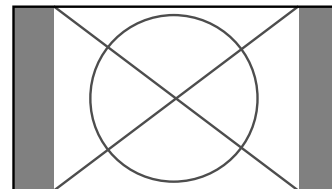
Information is lost on both sides.

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

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

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

14:9 size screen



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

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

Note:

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

Wide Screen Operation with Computer Signals

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

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

Press the WIDE button again.

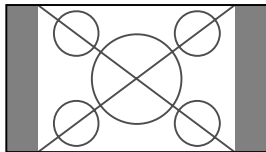
The screen size switches as follows:

→ NORMAL → ANAMORPHIC → ZOOM →

When displaying enhanced split screen:

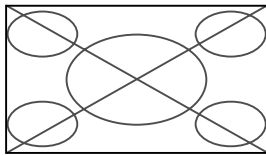
NORMAL ↔ ANAMORPHIC

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



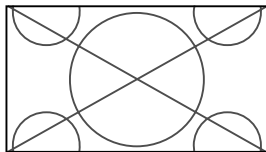
The picture has the same size as the normal computer image.

ANAMORPHIC size screen



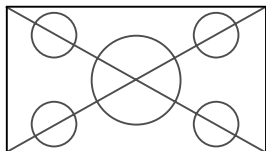
The image is expanded in the horizontal direction.

ZOOM size screen



When wide signals are input.

ANAMORPHIC size screen



Information

■ Supported resolution

See page 7 of Model Information for details on the display output of the various VESA signal standards supported by the monitor.

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

Select an appropriate setting for RGB SELECT mode referring to the “Table of Signals Supported” on page 7 of Model Information.

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

Note:

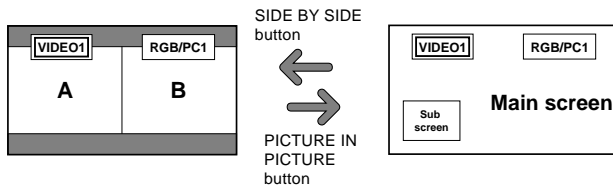
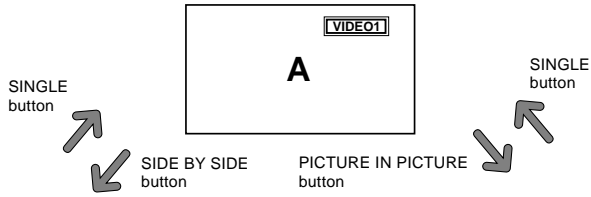
Do not allow the displayed in 4:3 mode for an extended period. This can cause a phosphor burn-in.

SPLIT SCREEN Operations

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

* An RGB-input picture may not be displayed in these modes, depending on the input signal specifications.

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



Note:

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

Information

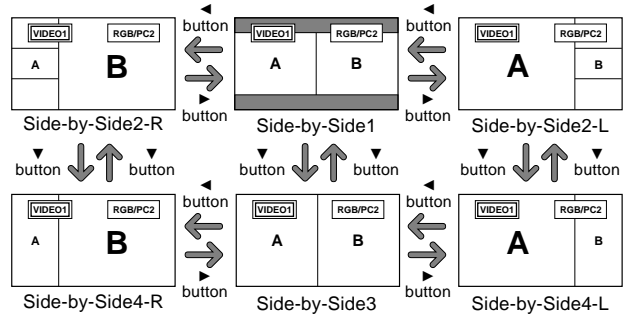
Split screen operations may not function depending on the combination of input signals. In the table below, "○" means Yes, "×" means No.

		Pictures displayed on the right/main screen (Select1)						
		VIDEO1	VIDEO2	VIDEO3	HD/DVD1	HD/DVD2	RGB/PC1	HD/DVD3
Pictures displayed on the left/sub screen (Select2)	VIDEO1	×	×	×	○	○	○	○
	VIDEO2	×	×	×	○	○	○	○
	VIDEO3	×	×	×	○	○	○	○
	HD/DVD1	○	○	○	×	○	○	○
	HD/DVD2	○	○	○	○	×	○	○
	RGB2	○	○	○	○	○	×	○
	RGB/PC1	○	○	○	○	○	○	×
	HD/DVD3	○	○	○	○	○	○	×

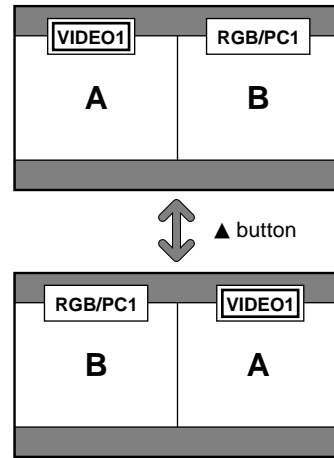
■ Split screen operations may not function depending on the type of the RGB signals.

Operations in the Side-by-side mode

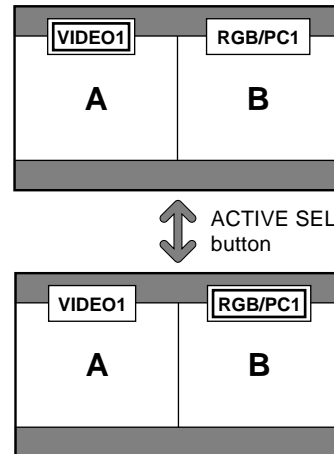
To change the picture size, press the cursor ◀▶ or ▼ button.



To swap the picture on the right and the left, press the cursor ▲ button.

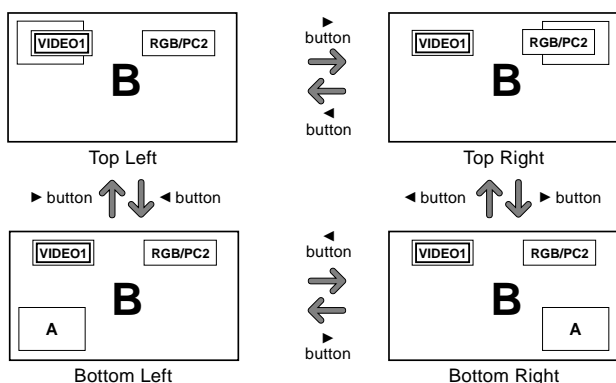


To make the desired picture active, press the ACTIVE SELECT button.

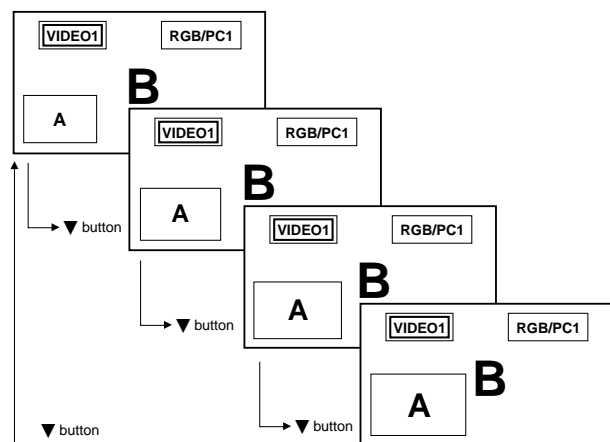


Operations in the Picture-in-picture mode

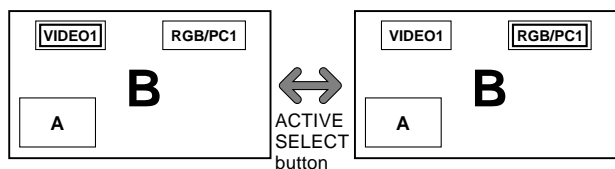
To move the position of the sub screen, press the cursor ◀ or ▶ button.



To change the size of the sub screen, press the ▼ button.



To make the desired picture active, press the ACTIVE SELECT button.



Selecting the input signals to be displayed

1. Press the ACTIVE SELECT button to make the desired picture active.
2. Press the PC/RGB, VIDEO1, 2, 3, or DVD/HD1, 2, 3 button to change the selection of the input signal. The INPUT SELECT button on the monitor can also be used to change the selection.

Zooming up pictures

1. Press the ACTIVE SELECT button to make the desired picture active.
2. Use the ZOOM (+ or -) button to enlarge the picture. For details, see "DIGITAL ZOOM" on page 11.

Adjusting the OSM controls

1. Press the ACTIVE SELECT button to make the desired picture active.
2. Press the MENU/ENTER button to display the MAIN MENU.
3. Adjust the setting to your preference. For details, see "OSM (On Screen Menu) Controls" on page 16.

Note:

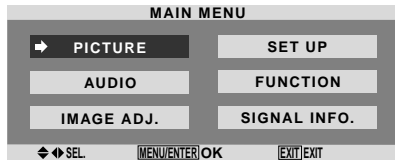
During enhanced split screen, some functions of OSM controls are not available.

OSM (On Screen Menu) Controls

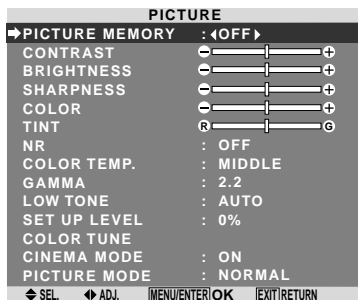
Menu Operations

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

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



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



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



5. The adjustments or the settings that are stored in memory. The change is stored until you change it again.
 6. Repeat steps 2 – 5 to adjust an additional item, or press the EXIT button on the remote control to return to the main menu.
- * When adjusting using the bar at the bottom of the screen, press the ◀ or ▶ button within 5 seconds. If not, the current setting is set and the previous screen appears.

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

Menu Tree

: Shaded areas indicate the default value.

← → + : Press the ◀ or ▶ button to adjust. The default value is at the center.

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE	
PICTURE	PICTURE MEMORY	OFF/MEMORY1-6			YES	19	
	CONTRAST	← → + 0 ← 52 → 72			YES	19	
	BRIGHTNESS	← → + 0 ← 32 → 64			YES	19	
	SHARPNESS	← → + 0 ← 16 → 32			YES	19	
	COLOR	← → + 0 ← 32 → 64			YES	19	
	TINT	R ← → G 0 ← 32 → 64			YES	19	
	NR	OFF/NR-1/NR-2/NR-3			YES	19	
	COLOR TEMP.	LOW/MIDDLE LOW/MIDDLE/HIGH			YES	20	
	WHITE BALANCE	GAIN RED	← → + 0 ← → 70			YES	20
		GAIN GREEN	← → + 0 ← → 70			YES	20
		GAIN BLUE	← → + 0 ← → 70			YES	20
		BIAS RED	← → + 0 ← → 70			YES	20
		BIAS GREEN	← → + 0 ← → 70			YES	20
		BIAS BLUE	← → + 0 ← → 70			YES	20
		RESET	OFF ← → ON			YES	20
		GAMMA	2.1 ← 2.2 ← 2.3 → 2.4			YES	20
	LOW TONE	AUTO ← → 1 ← → 3			YES	20	
	SET UP LEVEL	0% ← → 3.75% ← → 7.5%			YES	21	
	COLOR TUNE	RED	Y ← → M 0 ← → 64			YES	21
		GREEN	C ← → Y 0 ← → 64			YES	21
		BLUE	M ← → C 0 ← → 64			YES	21
		YELLOW	G ← → R 0 ← → 64			YES	21
		MAGENTA	R ← → B 0 ← → 64			YES	21
		CYAN	B ← → G 0 ← → 64			YES	21
		RESET	OFF ← → ON			YES	21
		CINEMA MODE	ON ← → OFF			YES	21
	PICTURE MODE	DEFAULT/THEATER1/THEATER2/NORMAL/BRIGHT			YES	21	

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
AUDIO	BASS	← → + 0 ← 13 → 26			YES	22
	TREBLE	← → + 0 ← 13 → 26			YES	22
	BALANCE	L ← → R -22 ← 0 → +22			YES	22
	AUDIO INPUT1	VIDEO 1-3 / HD/DVD 1-3 / RGB 1-3			YES	22
	AUDIO INPUT2	VIDEO 1-3 / HD/DVD 1-3 / RGB 1-3			YES	22
	AUDIO INPUT3	VIDEO 1-3 / HD/DVD 1-3 / RGB 1-3			YES	22

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
IMAGE ADJUST	ASPECT MODE	ZOOM/NORMAL/ANAMORPHIC/STADIUM/14:9/2.35:1			NO	22
	V-POSITION	← → + -64 ← 0 → +64			YES	22
	H-POSITION	← → + -128 ← 0 → +127			YES	22
	V-HEIGHT	← → + 0 ← → 64			YES	22
	H-WIDTH	← → + 0 ← → 64			YES	22
	AUTO PICTURE	ON ← → OFF*2			NO	22
	FINE PICTURE*1	← → + *2 0 ← → 64			YES	22
	PICTURE ADJ.*1	← → + *2 0 ← → 128			YES	22

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE	
SET UP	LANGUAGE	ENGLISH/DEUTSCH/FRANÇAIS/ESPAÑOL/ITALIANO/SVENSKA/中文/РУССКИЙ			NO	23	
	BNC INPUT	RGB ← → COMPONENT			YES	23	
	D-SUB INPUT	RGB			YES	23	
	HD SELECT	1080I/1035I/540P			NO	23	
	RGB SELECT	AUTO/STILL/MOTION/WIDE1/WIDE2/WIDE3/DTV			YES	23	
	DVI SET UP	PLUG/PLAY	PC ← → STB/DVD			NO	24
		BLACK LEVEL	LOW ← → HIGH			NO	24
		COLOR SYSTEM	AUTO/PAL/PAL-M/PAL-N/PAL 60/SECAM/4.43 NTSC/3.58NTSC			NO	24
	BACK GROUND	BLACK/GRAY			YES	24	
	GRAY LEVEL	0 ← → 3 ← → 15			YES	25	
	S1/S2	AUTO ← → OFF			YES	25	
	DISPLAY OSM	ON ← → OFF			YES	25	
	OSM ADJ.	TOP LEFT ← → TOP CENTER ← → TOP RIGHT ← → BTM LEFT ← → BTM CENTER ← → BTM RIGHT			YES	25	
	ALL RESET	ON ← → OFF			—	25	

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE			
FUNCTION	POWER MGT.	ON←→OFF			YES	26			
	INPUT SKIP	ON←→OFF			YES	26			
	SUB. P DETECT	AUTO←→OFF			YES	26			
	ZOOM NAV	OFF←→S BY S	←→BTM LEFT	←→BTM RIGHT	←→TOP RIGHT	←→TOP LEFT	YES	27	
	PICTURE FREEZE	OFF←→S BY S1	←→S BY S2	←→BTM LEFT	←→BTM RIGHT	←→TOP RIGHT	←→TOP LEFT	YES	27
	PDP SAVER	MANUAL/AUTO				YES	27		
		PEAK BRIGHT	100%/75%/50%/25%			YES	28		
		ORBITER	OFF/AUTO1/AUTO2			YES	28		
		INVERSE/WHITE	OFF/INVERSE/WHITE			YES	28		
		SCREEN WIPER	ON/OFF			YES	28		
		SOFT FOCUS	OFF/LEVEL1-4			YES	28		
		OSM ORBITER	ON/OFF			YES	29		
		OSM CONTRAST	LOW/NORMAL			YES	29		
		CLOSED CAPTION	OFF/CAPTION1-4/TEXT1-4			YES	29		
		CAPTION CONT	LOW/NORMAL			YES	29		

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
SIGNAL INFO.					—	29

*1 Only when AUTO PICTURE is OFF.

*2 RGB/PC only

Information

■ Restoring the factory default settings

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

Picture Settings Menu

Storing picture settings

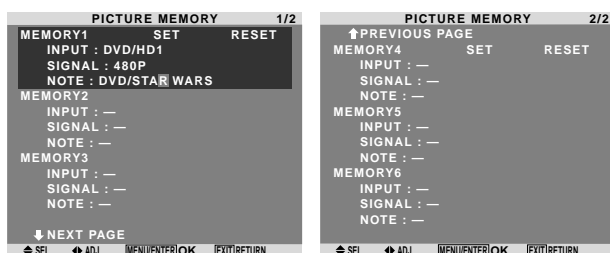
This function allows you to store in memory the current input signal and PICTURE menu settings and to recall these settings when necessary.

There are six picture memories, and notes of up to 15 characters can be added to each.

Example: Storing picture settings at MEMORY1

On "PICTURE MEMORY" of "PICTURE" menu, select "MEMORY1", then press the MENU/ENTER button.

The "PICTURE MEMORY" screen appears.



Information

PICTURE MEMORY Settings

OFF: Picture memory not used.

MEMORY1 to 6: Picture memory with the specified number used. Maximum memories are 6, not depending on inputs.

Setting the memory

- Use the ▲ and ▼ button to select the desired memory place, MEMORY1 to MEMORY6.
- Use the ◀ and ▶ buttons to select "SET", then press the MENU/ENTER button.
- If necessary, input a note.

Resetting the memory

Use the ▲ and ▼ button to select the desired memory place, MEMORY1 to MEMORY6, then use the ◀ and ▶ buttons to select "RESET", and finally press the MENU/ENTER button.

The memory is cleared, and "—" is displayed in the "INPUT", "SIGNAL" and "NOTE" columns.

Inputting notes

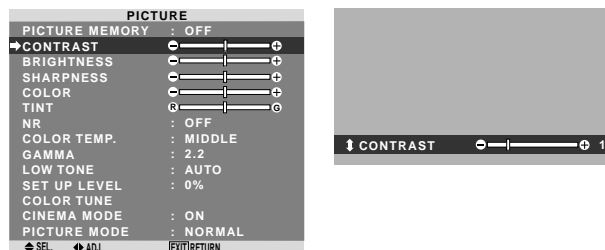
- Use the ◀ and ▶ buttons to select "NOTE", then press the MENU/ENTER button.
- Input the note.
 - Use the ▲ and ▼ button to select the character.
 - Use the ◀ and ▶ buttons to move the cursor.
 - Use the EXIT button to delete the character at the cursor position.
- When you have finished inputting the note, press the MENU/ENTER button.

Adjusting the picture

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

Example: Adjusting the contrast

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



Note: If "CAN NOT ADJUST" appears ...

When trying to enter the PICTURE submenu, make sure PICTURE MODE is not set to DEFAULT.

Information

Picture adjustment screen

CONTRAST: Changes the picture's white level.

BRIGHTNESS: Changes the picture's black level.

SHARPNESS: Changes the picture's sharpness.

Adjusts picture detail of VIDEO display.

COLOR: Changes the color density.

TINT: Changes the picture's tint. Adjust for natural colored skin, background, etc.

Adjusting the computer image

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

Restoring the factory default settings

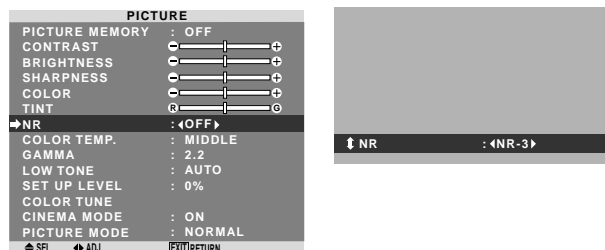
Select "DEFAULT" under the "PICTURE MODE" settings.

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"

On "NR" of "PICTURE" menu, select "NR-3".



Information

NR

* "NR" stands for Noise Reduction.

* This function reduces noise in the picture.

Types of noise reduction

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

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

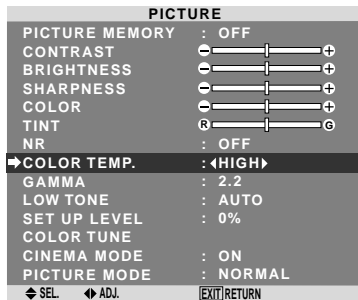
OFF: Turns the noise reduction function off.

Setting the color temperature

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

Example: Setting "HIGH"

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



Information

■ Setting the color temperature

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

Adjusting the color to the desired level

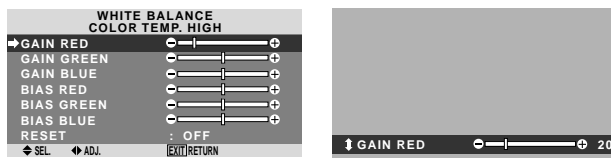
Use this procedure to adjust the white balance for each color temperature to achieve the desired color quality.

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

On "COLOR TEMP." of "PICTURE" menu, select "HIGH", then press the MENU/ENTER button.

The "WHITE BALANCE" screen appears.

On "GAIN RED", adjust the white balance.



Information

■ Adjusting the white balance

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

■ Restoring the factory default settings

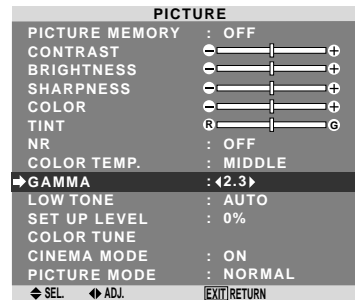
Select "RESET" under the WHITE BALANCE menu.

Changing the Gamma Curve

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

Example: Setting "2.3"

On "GAMMA" of "PICTURE" menu, select "2.3".



Information

■ GAMMA settings

The picture becomes darker as the number increases (in the sequence of 2.1, 2.2, 2.3, 2.4).

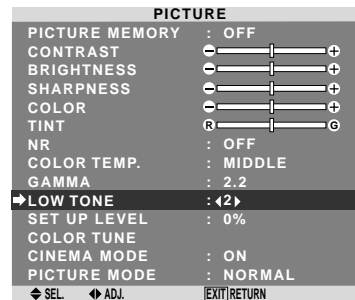
* These values are approximate.

Making the Low Tone adjustments

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

Example: Setting "2"

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



Information

■ LOW TONE settings

AUTO: Will automatically appraise the picture and make adjustments.

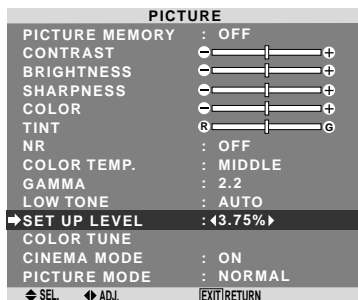
- 1: Will apply the dither method suitable for still pictures.
- 2: Will apply the dither method suitable for motion pictures.
- 3: Will apply the error diffusion method.

Adjusting the pedestal level (black level)

This feature adjusts the video black level in a video image.

Example: Setting "3.75%"

On "SET UP LEVEL" of "PICTURE" menu, select "3.75%".



Information

■ SET UP LEVEL settings

0%: Normal status

3.75%: 3.5% lower than normal

7.5%: 7.5% lower than normal

Adjusting the colors

Use this procedure to adjust hue and color density for red, green, blue, yellow, magenta and cyan.

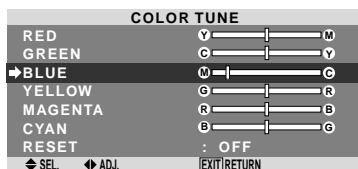
You can accentuate the green color of trees, the blue of the sky, etc.

Example: Adjusting the color tune for blue

On "PICTURE" menu, select "COLOR TUNE", then press the MENU/ENTER button.

The "COLOR TUNE" screen appears.

On "BLUE" of "COLOR TUNE", adjust the color tune.



Information

■ COLOR TUNE settings

RED: Makes red's adjustment

GREEN: Makes green's adjustment

BLUE: Makes blue's adjustment

YELLOW: Makes yellow's adjustment

MAGENTA: Makes magenta's adjustment

CYAN: Makes cyan's adjustment

RESET: Resets settings to the factory default value.

Use ◀ and ▶ buttons to select "ON", then press the MENU/ENTER button.

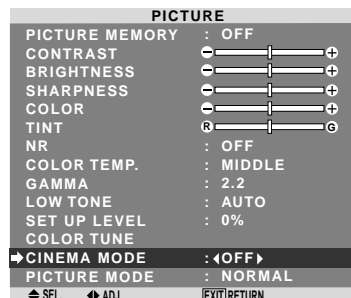
Setting the picture to suit the movie

The film image is automatically discriminated and projected in an image mode suited to the picture.

[NTSC, PAL, PAL60, 480I (60Hz), 525I (60Hz), 576I (50Hz), 625I (50Hz), 1035I (60Hz), 1080I (60Hz) only]

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

On "CINEMA MODE" of "PICTURE" menu, select "OFF".



Information

■ CINEMA MODE

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

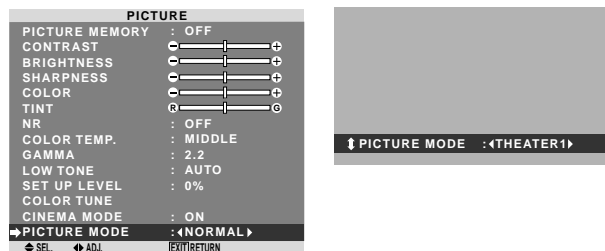
OFF: Cinema mode does not function.

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 "THEATER1" mode

On "PICTURE MODE" of "PICTURE" menu, select "THEATER1".



Information

■ Types of picture modes

THEATER1, 2: Set this mode when watching video in a dark room.

This mode provides darker, finer pictures, like the screen in movie theaters.

For a darker image, select THEATER2.

NORMAL: Set this mode when watching video in a bright room.

This mode provides dynamic pictures with distinct differences between light and dark sections.

BRIGHT: This mode provides brighter pictures than NORMAL.

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

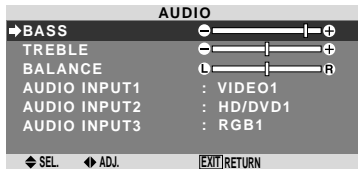
Audio Settings Menu

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

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

Example: Adjusting the bass

On "BASS" of "AUDIO" menu, adjust the bass.



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

Information

■ Audio settings menu

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

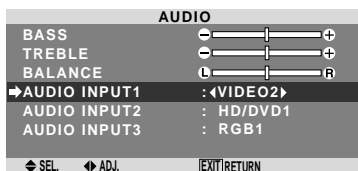
Setting the allocation of the audio connectors

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

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

On "AUDIO INPUT1" of "AUDIO" menu, select "VIDEO2".

The available sources depend on the settings of input.



Information

■ AUDIO INPUT

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

Image Adjust Settings Menu

Adjusting the Position, Size, Fine Picture, Picture Adj

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

Example: Adjusting the vertical position in the normal mode

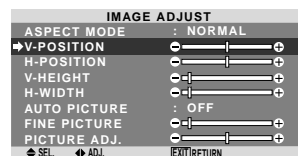
On "V-POSITION" of "IMAGE ADJUST" menu, adjust the position.

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

NORMAL ↔ **ANAMORPHIC**

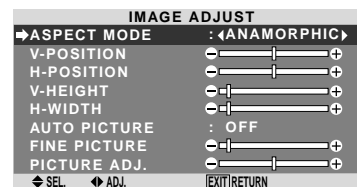
* The mode can also be switched by pressing the WIDE button on the remote control.

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



Information

■ When "AUTO PICTURE" is "OFF"



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

■ Adjusting the Auto Picture

ON: The Picture ADJ., Fine Picture and Position adjustments are made automatically.

Not available for digital ZOOM.

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

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

■ Adjusting the position of the image

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

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

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

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

FINE PICTURE*: Adjusts for flickering.

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

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

* The AUTO PICTURE, FINE PICTURE and PICTURE ADJ. are available only for RGB signals.

But, these features are not available for moving pictures on VIDEO, HD/DVD or RGB.

SET UP Settings Menu

Setting the language for the menus

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

Example: Setting the menu display to "DEUTSCH"

On "LANGUAGE" of "SET UP" menu, select "DEUTSCH".

SET UP	
→ LANGUAGE	: <DEUTSCH>
BNC INPUT	: COMPONENT
D-SUB INPUT	: RGB
HD SELECT	: 1080I
RGB SELECT	: AUTO
DVI SET UP	
COLOR SYSTEM	: AUTO
BACK GROUND	: GRAY
GRAY LEVEL	: 3
S1/S2	: OFF
DISPLAY OSM	: ON
OSM ADJ.	: TOP LEFT
ALL RESET	: OFF
◀ SEL	▶ ADJ. [EXIT] RETURN

Information

■ Language settings

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

Setting the BNC connectors

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

Example: Set the BNC INPUT mode to "RGB"

On "BNC INPUT" of "SET UP" menu, select "RGB".

SET UP	
LANGUAGE	: ENGLISH
→ BNC INPUT	: <RGB>
D-SUB INPUT	: RGB
HD SELECT	: 1080I
RGB SELECT	: AUTO
DVI SET UP	
COLOR SYSTEM	: AUTO
BACK GROUND	: GRAY
GRAY LEVEL	: 3
S1/S2	: OFF
DISPLAY OSM	: ON
OSM ADJ.	: TOP LEFT
ALL RESET	: OFF
◀ SEL	▶ ADJ. [EXIT] RETURN

Information

■ BNC INPUT Settings

RGB: Use the 5BNC terminals for RGB input.

COMPONENT: Use the 3BNC terminals for component input.

Checking the signal being transmitted to RGB1 terminal

Use this to confirm the signal being transmitted to the RGB1 terminal.

It is set to RGB and can not be adjusted.

SET UP	
LANGUAGE	: ENGLISH
BNC INPUT	: COMPONENT
→ D-SUB INPUT	: RGB
HD SELECT	: 1080I
RGB SELECT	: AUTO
DVI SET UP	
COLOR SYSTEM	: AUTO
BACK GROUND	: GRAY
GRAY LEVEL	: 3
S1/S2	: OFF
DISPLAY OSM	: ON
OSM ADJ.	: TOP LEFT
ALL RESET	: OFF
CAN NOT ADJUST	

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 1080I or 1035I or 540P.

Example: Setting the "HD SELECT" mode to "1035I"

On "HD SELECT" of "SET UP" menu, select "1035I".

SET UP	
LANGUAGE	: ENGLISH
BNC INPUT	: COMPONENT
D-SUB INPUT	: RGB
→ HD SELECT	: <1035I>
RGB SELECT	: AUTO
DVI SET UP	
COLOR SYSTEM	: AUTO
BACK GROUND	: GRAY
GRAY LEVEL	: 3
S1/S2	: OFF
DISPLAY OSM	: ON
OSM ADJ.	: TOP LEFT
ALL RESET	: OFF
◀ SEL	▶ ADJ. [EXIT] RETURN

Information

■ HD SELECT modes

These 3 modes are not displayed in correct image automatically.

1080I: Standard digital broadcasts

1035I: Japanese "High Vision" signal format

540P: Special Digital broadcasts (for example : DTC100)

Setting a computer image to the correct RGB select screen

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

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

On "RGB SELECT" of "SET UP" menu, select "MOTION".

SET UP	
LANGUAGE	: ENGLISH
BNC INPUT	: COMPONENT
D-SUB INPUT	: RGB
HD SELECT	: 1080I
→ RGB SELECT	: <MOTION>
DVI SET UP	: 1024×768
COLOR SYSTEM	: AUTO
BACK GROUND	: GRAY
GRAY LEVEL	: 3
S1/S2	: OFF
DISPLAY OSM	: ON
OSM ADJ.	: TOP LEFT
ALL RESET	: OFF
◀ SEL	▶ ADJ. [EXIT] RETURN

Information

■ RGB SELECT modes

One of these 7 modes must be selected in order to display the following signals correctly.

AUTO: Select the suitable mode for the specifications of input signals as listed in the table "Computer input signals supported by this system" on page 7 of Model Information.

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

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

WIDE1: When an 852 dot × 480 line signal with a horizontal frequency of 31.7kHz is input, the image may be compressed horizontally. To prevent this, set RGB SELECT to WIDE1.

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

WIDE3: When an 1920 dot × 1200 line signal with a horizontal frequency of 74.0 kHz is input, the image may be compressed horizontally. To prevent this, set RGB SELECT to WIDE3.

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

See page 7 of Model Information for the details of the above settings.

Setting the signal and black level for DVI signal

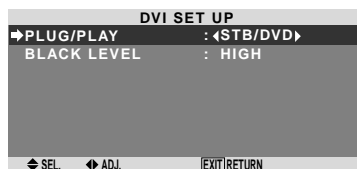
Choose the signal for the DVI connector (PC or STB/DVD) and set the black level.

Example: Setting the "PLUG/PLAY" mode to "STB/DVD"

On "SET UP" menu, select "DVI SET UP", then press the MENU/ENTER button.

The "DVI SET UP" screen appears.

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



Information

■ PLUG/PLAY settings

PC: When connected to the PC signal.

BLACK LEVEL is set to "LOW" automatically.

STB/DVD: When connected to the SET TOP BOX, DVD etc.

BLACK LEVEL is set to "HIGH" automatically.

■ BLACK LEVEL settings

LOW: When connected to the PC signal.

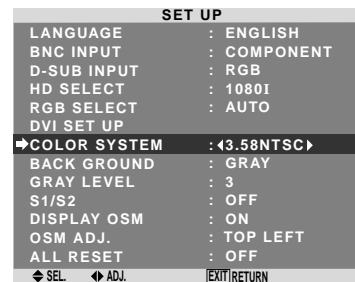
HIGH: When connected to the SET TOP BOX, DVD etc. Change "HIGH" into "LOW" if the black level appears gray.

Setting the video signal format

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

Example: Setting the color system to "3.58 NTSC"

On "COLOR SYSTEM" of "SET UP" menu, select "3.58NTSC".



Information

■ Video signal formats

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

AUTO: The color systems are automatically identified and the format is set accordingly.

PAL: This is the standard format used mainly in the United Kingdom and Germany.

SECAM: This is the standard format used mainly in France and Russia.

4.43 NTSC, PAL60: This format is used for videos in countries using PAL and SECAM video signals.

3.58 NTSC: This is the standard format used mainly in the United States and Japan.

PAL-M: This is the standard format used mainly in Brazil.

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

Setting the background color when no signal is being input

The color displayed on the background when there is no signal can be set to gray.

Example: Setting "BACK GROUND" to "BLACK"

On "BACK GROUND" of "SET UP" menu, select "BLACK".



Information

■ BACK GROUND Settings

BLACK: Sets the background color to black.

GRAY: Sets the background color to gray.

Setting this makes it easier to see that there is no signal.

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: Setting "GRAY LEVEL" to "5"

On "GRAY LEVEL" of "SET UP" menu, select "5".

SET UP	
LANGUAGE	: ENGLISH
BNC INPUT	: COMPONENT
D-SUB INPUT	: RGB
HD SELECT	: 1080I
RGB SELECT	: AUTO
DVI SET UP	
COLOR SYSTEM	: AUTO
BACK GROUND	: GRAY
GRAY LEVEL	: 5
S1/S2	: OFF
DISPLAY OSM	: ON
OSM ADJ.	: TOP LEFT
ALL RESET	: OFF
◀SEL. ▶ADJ.	[EXIT]RETURN

Information

■ GRAY LEVEL settings

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

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

Setting the screen size for S1/S2 video input

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

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

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

On "S1/S2" of "SET UP" menu, select "AUTO".

SET UP	
LANGUAGE	: ENGLISH
BNC INPUT	: COMPONENT
D-SUB INPUT	: RGB
HD SELECT	: 1080I
RGB SELECT	: AUTO
DVI SET UP	
COLOR SYSTEM	: AUTO
BACK GROUND	: GRAY
GRAY LEVEL	: 3
S1/S2	: AUTO
DISPLAY OSM	: ON
OSM ADJ.	: TOP LEFT
ALL RESET	: OFF
◀SEL. ▶ADJ.	[EXIT]RETURN

Information

■ S1/S2 settings

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

OFF: Turns the S1/S2 function off.

Turning on/off the menu display

When this is set to OFF, the menu will not displayed even if you press the MENU/ENTER button.

Example: Turning the DISPLAY OSM off

On "DISPLAY OSM" of "SET UP" menu, select "OFF".

SET UP	
LANGUAGE	: ENGLISH
BNC INPUT	: COMPONENT
D-SUB INPUT	: RGB
HD SELECT	: 1080I
RGB SELECT	: AUTO
DVI SET UP	
COLOR SYSTEM	: AUTO
BACK GROUND	: GRAY
GRAY LEVEL	: 3
S1/S2	: OFF
DISPLAY OSM	: OFF
OSM ADJ.	: TOP LEFT
ALL RESET	: OFF
◀SEL. ▶ADJ.	[EXIT]RETURN

Information

■ DISPLAY OSM settings

ON: The on-screen menu appears.

OFF: The on-screen menu does not appear.

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

Setting the position of the menu

Adjusts the position of the menu when it appears on the screen.

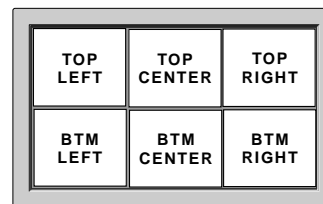
Example: Set the position to "TOP CENTER"

On "OSM ADJ." of "SET UP" menu, select "TOP CENTER".

SET UP	
LANGUAGE	: ENGLISH
BNC INPUT	: COMPONENT
D-SUB INPUT	: RGB
HD SELECT	: 1080I
RGB SELECT	: AUTO
DVI SET UP	
COLOR SYSTEM	: AUTO
BACK GROUND	: GRAY
GRAY LEVEL	: 3
S1/S2	: OFF
DISPLAY OSM	: ON
OSM ADJ.	: TOP CENTER
ALL RESET	: OFF
◀SEL. ▶ADJ.	[EXIT]RETURN

Information

■ OSM ADJUST settings



Resetting to the default values

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

Refer to page 17 for items to be reset.

On "ALL RESET" of "SET UP" menu, select "ON", then press the MENU/ENTER button.

SET UP	
LANGUAGE	: ENGLISH
BNC INPUT	: COMPONENT
D-SUB INPUT	: RGB
HD SELECT	: 1080I
RGB SELECT	: AUTO
DVI SET UP	
COLOR SYSTEM	: AUTO
BACK GROUND	: GRAY
GRAY LEVEL	: 3
S1/S2	: OFF
DISPLAY OSM	: ON
OSM ADJ.	: TOP LEFT
ALL RESET	: ON
◀SEL. ▶ADJ.	[EXIT]RETURN



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

Function Settings Menu

Setting the power management for computer images

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

Example: Turning the power management function on

On "POWER MGT." of "FUNCTION" menu, select "ON".

FUNCTION	
→POWER MGT.	: <ON>
INPUT SKIP	: OFF
SUB. P DETECT	: AUTO
ZOOM NAV	: BTM LEFT
PICTURE FREEZE	: S BY S1
PDP SAVER	: MANUAL
CLOSED CAPTION	: OFF
CAPTION CONT	: LOW
◀SEL	▶ADJ. [EXIT]RETURN

Information

■ Power management function

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

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

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

■ Power management settings

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

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

■ Power management function and POWER/STANDBY indicator

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

POWER/STANDBY indicator

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

Setting the Input Skip

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

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

Example: Set to "ON"

On "INPUT SKIP" of "FUNCTION" menu, select "ON".

FUNCTION	
POWER MGT.	: OFF
→INPUT SKIP	: <ON>
SUB. P DETECT	: AUTO
ZOOM NAV	: BTM LEFT
PICTURE FREEZE	: S BY S1
PDP SAVER	: MANUAL
CLOSED CAPTION	: OFF
CAPTION CONT	: LOW
◀SEL	▶ADJ. [EXIT]RETURN

Information

■ INPUT SKIP settings

OFF: Regardless of the presence of the signal, scan and display all signals.

ON: If no input signal is present, skip that signal.

* "SETTING NOW" will appear during the input search.

Erasing the sub screen image when there is no input signal

This function automatically erases the black frame of the sub screen when there is no sub screen input signal.

This feature is available only when the picture-in-picture mode is selected.

Example: Set to "OFF"

On "SUB. P DETECT" of "FUNCTION" menu, select "OFF".

FUNCTION	
POWER MGT.	: OFF
INPUT SKIP	: OFF
→SUB. P DETECT	: <OFF>
ZOOM NAV	: BTM LEFT
PICTURE FREEZE	: S BY S1
PDP SAVER	: MANUAL
CLOSED CAPTION	: OFF
CAPTION CONT	: LOW
◀SEL	▶ADJ. [EXIT]RETURN

Information

■ SUB. P DETECT Function

* The sub screen disappears when the input signal is lost.

* Loss of the input signal means a condition in which the video signal and the sync signal are not present.

* Under conditions in which the sub screen has disappeared, the ZOOM NAV and PICTURE FREEZE functions will not work. The WIDE button will not function either.

■ SUB. P DETECT settings

AUTO: The black frame disappears 3 seconds after the input signal is lost.

OFF: Turns off the SUB. P DETECT function.

Displaying the entire image during DIGITAL ZOOM operations

Use this function to display the entire image within the sub screen together with an enlarged image on the main screen.

Example: Setting "ZOOM NAV" to "S BY S"

On "ZOOM NAV" of "FUNCTION" menu, select "S BY S".

FUNCTION	
POWER MGT.	: OFF
INPUT SKIP	: OFF
SUB. P DETECT	: AUTO
→ ZOOM NAV	: S BY S
PICTURE FREEZE	: S BY S1
PDP SAVER	: MANUAL
CLOSED CAPTION	: OFF
CAPTION CONT	: LOW
◀ SEL	▶ ADJ. [EXIT] RETURN

Information

■ ZOOM NAV Function

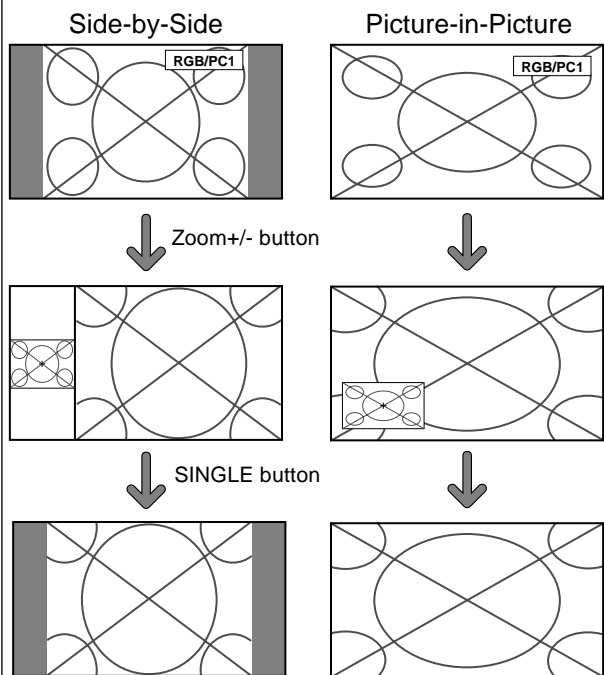
- * This feature is available only for RGB1 or RGB2 input signals.
- * This feature does not function during multi screen mode.
- * This feature does not function while PICTURE FREEZE is operating.
- * Providing a 2-screen display will cancel this function.

■ ZOOM NAV settings

OFF: Will not show the entire image on the sub screen.

S BY S: Will show the entire image on the sub screen of side-by-side mode.

BTM LEFT~TOP LEFT: Will show the entire image on the sub screen of picture-in-picture mode.



Displaying still images in the sub screen

This feature enables display in the sub screen of still images captured by pressing the ACTIVE SELECT button.

Example: Setting "PICTURE FREEZE" to "BTM LEFT"

On "PICTURE FREEZE" of "FUNCTION" menu, select "BTM LEFT".

FUNCTION	
POWER MGT.	: OFF
INPUT SKIP	: OFF
SUB. P DETECT	: AUTO
ZOOM NAV	: BTM LEFT
→ PICTURE FREEZE	: BTM LEFT
PDP SAVER	: MANUAL
CLOSED CAPTION	: OFF
CAPTION CONT	: LOW
◀ SEL	▶ ADJ. [EXIT] RETURN

Information

■ PICTURE FREEZE Function

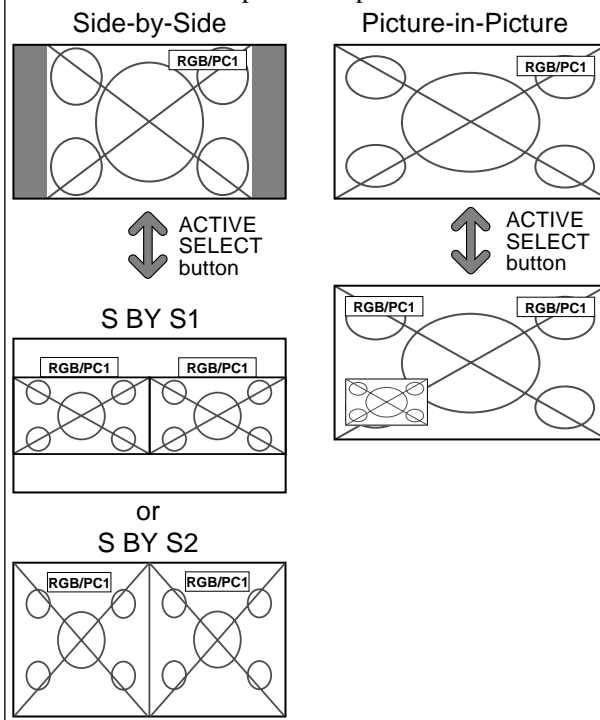
- * This feature is available only for RGB1 or RGB2 input signals.
- * This feature does not function during multi screen mode.
- * Digital zoom is not available while this function is operating.
- * A further press of the ACTIVE SELECT button while this function is operating will cancel this function.
- * Providing a 2-screen display will cancel this function.

■ PICTURE FREEZE settings

OFF: Will not show the still image.

S BY S1, 2: The still images captured by pressing the ACTIVE SELECT button will be shown on the sub screen of side-by-side mode.

BTM LEFT~TOP LEFT: The still images captured by pressing the ACTIVE SELECT button will be shown on the sub screen of picture-in-picture mode.



Reducing burn-in of the screen

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

On "PDP SAVER" of "FUNCTION" menu, select "MANUAL", then press the MENU/ENTER button.

The "PDP SAVER" screen appears.

PDP SAVER	
→ PEAK BRIGHT	: 100%
ORBITER	: OFF
INVERSE/WHITE	: OFF
SCREEN WIPER	: OFF
SOFT FOCUS	: OFF
OSM ORBITER	: ON
OSM CONTRAST	: LOW
◀ SEL	▶ ADJ. [EXIT] RETURN

Information

■ When set to AUTO

Set automatically, as described below.

PEAK BRIGHT: 100%
ORBITER: ON
INVERSE/WHITE: OFF
SCREEN WIPER: OFF
SOFT FOCUS: OFF
OSD ORBITER: ON
OSD CONTRAST: LOW

PEAK BRIGHT

Use this to activate the brightness limiter.

Example: Setting "PEAK BRIGHT" to "75%"

On "PEAK BRIGHT" of "PDP SAVER" menu, select "75%".

PDP SAVER	
▶ PEAK BRIGHT	: 75% ▶
ORBITER	: OFF
INVERSE/WHITE	: OFF
SCREEN WIPER	: OFF
SOFT FOCUS	: OFF
OSM ORBITER	: ON
OSM CONTRAST	: LOW
◀ SEL	▶ ADJ. [EXIT] RETURN

Information

■ PEAK BRIGHT settings

100%: The brightness of the screen is adjusted automatically to suit the picture quality.

75%, 50%, 25%: Sets maximum brightness.

The brightness level decreases in the order of 75%, 50%, 25%. 25% provides minimum brightness.

* These values are approximate.

ORBITER

Use this to set the picture shift.

Example: Setting "ORBITER" to "AUTO1"

On "ORBITER" of "PDP SAVER" menu, select "AUTO1".

PDP SAVER	
PEAK BRIGHT	: 100%
▶ ORBITER	: AUTO1 ▶
INVERSE/WHITE	: OFF
SCREEN WIPER	: OFF
SOFT FOCUS	: OFF
OSM ORBITER	: ON
OSM CONTRAST	: LOW
◀ SEL	▶ ADJ. [EXIT] RETURN

Information

■ ORBITER settings

OFF: Orbiter mode does not function.

This is the default setting when RGB is input.

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

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

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

INVERSE/WHITE

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

Example: Setting "INVERSE/WHITE" to "WHITE"

On "INVERSE/WHITE" of "PDP SAVER" menu, select "WHITE".

PDP SAVER	
PEAK BRIGHT	: 100%
ORBITER	: OFF
▶ INVERSE/WHITE	: WHITE ▶
SCREEN WIPER	: OFF
SOFT FOCUS	: OFF
OSM ORBITER	: ON
OSM CONTRAST	: LOW
◀ SEL	▶ ADJ. [EXIT] RETURN

Information

■ INVERSE/WHITE Settings

OFF: Inverse/white mode does not function.

INVERSE: The picture is displayed alternately between positive image and negative image.

WHITE: The entire screen turns white.

SCREEN WIPER

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

Example: Setting "SCREEN WIPER" to "ON"

On "SCREEN WIPER" of "PDP SAVER" menu, select "ON".

PDP SAVER	
PEAK BRIGHT	: 100%
ORBITER	: OFF
INVERSE/WHITE	: OFF
▶ SCREEN WIPER	: ON ▶
SOFT FOCUS	: OFF
OSM ORBITER	: ON
OSM CONTRAST	: LOW
◀ SEL	▶ ADJ. [EXIT] RETURN

Information

■ SCREEN WIPER

ON: The white vertical bar appears.

OFF: Screen wiper mode does not function.

SOFT FOCUS

Reduces edges and softens the image.

Example: Setting "SOFT FOCUS" to "LEVEL2"

On "SOFT FOCUS" of "PDP SAVER" menu, select "LEVEL2".

PDP SAVER	
PEAK BRIGHT	: 100%
ORBITER	: OFF
INVERSE/WHITE	: OFF
SCREEN WIPER	: OFF
▶ SOFT FOCUS	: LEVEL2 ▶
OSM ORBITER	: ON
OSM CONTRAST	: LOW
◀ SEL	▶ ADJ. [EXIT] RETURN

Information

■ SOFT FOCUS settings

OFF: Turns the SOFT FOCUS function off.

LEVEL1, 2, 3, 4: Activates the SOFT FOCUS setting.

The higher numbers create a softer image.

"SHARPNESS" can not be adjusted on the "PICTURE" menu.

OSM ORBITER

Use this to set OSM menu shift.

Example: Setting "OSM ORBITER" to "OFF"

On "OSM ORBITER" of "PDP SAVER" menu, select "OFF".

PDP SAVER	
PEAK BRIGHT	: 100%
ORBITER	: OFF
INVERSE/WHITE	: OFF
SCREEN WIPER	: OFF
SOFT FOCUS	: OFF
OSM ORBITER	: <OFF>
OSM CONTRAST	: LOW
SEL	ADJ. EXIT/RETURN

Information

OSM ORBITER settings

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

OFF: OSM will be displayed at the same position.

OSM CONTRAST

Use this to reduce the brightness of OSM menu.

Example: Setting "OSM CONTRAST" to "NORMAL"

On "OSM CONTRAST" of "PDP SAVER" menu, select "NORMAL".

PDP SAVER	
PEAK BRIGHT	: 100%
ORBITER	: OFF
INVERSE/WHITE	: OFF
SCREEN WIPER	: OFF
SOFT FOCUS	: OFF
OSM ORBITER	: ON
OSM CONTRAST	: <NORMAL>
SEL	ADJ. EXIT/RETURN

Information

OSM CONTRAST settings

NORMAL: OSM brightness is set to normal.

LOW: OSM brightness is set to lower.

Setting Closed Caption

This function sets several closed caption modes that allows text to be superimposed on display.

Example: Setting "CAPTION2"

On "CLOSED CAPTION" of "FUNCTION" menu, select "CAPTION2".

FUNCTION	
POWER MGT.	: OFF
INPUT SKIP	: OFF
SUB. P DETECT	: AUTO
ZOOM NAV	: BTM LEFT
PICTURE FREEZE	: S BY S1
PDP SAVER	: MANUAL
CLOSED CAPTION	: <CAPTION2>
CAPTION CONT	: LOW
SEL	ADJ. EXIT/RETURN

Information

CLOSED CAPTION settings

OFF: This exits the closed caption mode.

CAPTION1~4: Text is superimposed.

TEXT1~4: Text is displayed in full screen.

A closed caption signal may not be decoded in the following signature;

1. when a video tape has been dubbed.
2. when the signal reception is weak.
3. when the signal reception is nonstandard.

When using closed captioned channel or the text mode, the text screen always appears.

When there is no signal, however, the text screen will not display text characters.

Reducing the brightness of Closed Caption

Use this to reduce the brightness of Closed Caption.

Example: Setting "NORMAL"

On "CAPTION CONT" of "FUNCTION" menu, select "NORMAL".

FUNCTION	
POWER MGT.	: OFF
INPUT SKIP	: OFF
SUB. P DETECT	: AUTO
ZOOM NAV	: BTM LEFT
PICTURE FREEZE	: S BY S1
PDP SAVER	: MANUAL
CLOSED CAPTION	: OFF
CAPTION CONT	: <NORMAL>
SEL	ADJ. EXIT/RETURN

Information

CAPTION CONT settings

NORMAL: Closed Caption brightness is set to normal.

LOW: Closed Caption brightness is set to lower.

Signal Information Menu

Checking the frequencies, polarities of input signals, and resolution

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

On "MAIN MENU", select "SIGNAL INFO.", then press the MENU/ENTER button.

The "SIGNAL INFORMATION" is displayed.

SIGNAL INFORMATION	
H. FREQUENCY	: 48.4KHz
V. FREQUENCY	: 60.0Hz
H. POLARITY	: NEGATIVE
V. POLARITY	: NEGATIVE
MEMORY	: 24
RESOLUTION	: 1024×768
SEL	ADJ. EXIT/RETURN

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

External Control

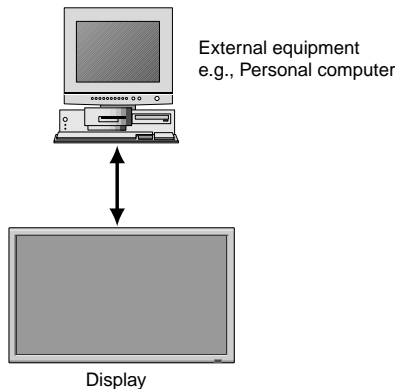
Pin Assignments

Application

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

Connections

Connections are made as described below.

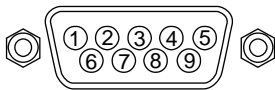


Connector on the plasma monitor side: EXTERNAL CONTROL connector.

Use a crossed (reverse) cable.

Type of connector: D-Sub 9-pin male

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



Communication Parameters

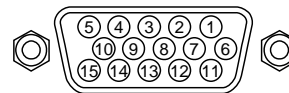
- | | |
|--------------------------|--------------|
| (1) Communication system | Asynchronous |
| (2) Interface | RS-232C |
| (3) Baud rate | 9600 bps |
| (4) Data length | 8 bits |
| (5) Parity | Odd |
| (6) Stop bit | 1 bit |
| (7) Communication code | Hex |

External Control Codes (Reference)

FUNCTION	CODE DATA
Power ON	9FH 80H 60H 4EH 00H CDH
OFF	9FH 80H 60H 4FH 00H CEH
Input Switch	
Video1 (BNC)	DFH 80H 60H 47H 01H 01H 08H
Video2 (RCA)	DFH 80H 60H 47H 01H 02H 09H
Video3 (S-Video)	DFH 80H 60H 47H 01H 03H 0AH
DVD1/HD1 (RCA)	DFH 80H 60H 47H 01H 05H 0CH
DVD2/HD2 (BNC)	DFH 80H 60H 47H 01H 06H 0DH
DVD3/HD3 (DVI)	DFH 80H 60H 47H 01H 0EH 15H
RGB1 (mini D-sub 15-pin)	DFH 80H 60H 47H 01H 07H 0EH
RGB2 (5BNC)	DFH 80H 60H 47H 01H 08H 0FH
RGB3 (DVI)	DFH 80H 60H 47H 01H 0CH 13H
Audio Mute	
ON	9FH 80H 60H 3EH 00H BDH
OFF	9FH 80H 60H 3FH 00H BEH
Picture Mode	
NORMAL	DFH 80H 60H 0AH 01H 01H CBH
THEATER 1	DFH 80H 60H 0AH 01H 02H CCH
THEATER 2	DFH 80H 60H 0AH 01H 03H CDH
DEFAULT	DFH 80H 60H 0AH 01H 04H CEH
BRIGHT	DFH 80H 60H 0AH 01H 05H CFH
Screen Mode	
STADIUM	DFH 80H 60H 51H 01H 02H 13H
ZOOM	DFH 80H 60H 51H 01H 03H 14H
NORMAL	DFH 80H 60H 51H 01H 04H 15H
ANAMORPHIC	DFH 80H 60H 51H 01H 05H 16H
14 : 9	DFH 80H 60H 51H 01H 09H 1AH
2.35 : 1	DFH 80H 60H 51H 01H 0AH 1BH
Auto Picture	
ON	DFH 80H 60H 7FH 03H 03H 09H 00H 4DH
OFF	DFH 80H 60H 7FH 03H 03H 09H 01H 4EH
Cinema Mode	
ON	DFH 80H 60H C1H 01H 01H 82H
OFF	DFH 80H 60H C1H 01H 02H 83H

mini D-Sub 15-pin connector (Analog)

RGB 1



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

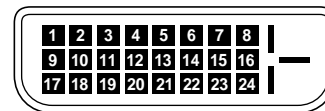
DVI-D 24-pin connector (Digital)

The unit is equipped with a type of connector commonly used for digital.

(This cannot be used for an analog input.)

(TMDS can be used for one link only.)

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 -

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

Troubleshooting

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

Symptom	Checks	Remedy
Mechanical sound is heard.	<ul style="list-style-type: none"> • Maybe the sound from the cooling fans used to prevent over heating. 	
The unit emits a crackling sound.	<ul style="list-style-type: none"> • Are the image and sound normal? 	<ul style="list-style-type: none"> • If there are no abnormalities in the image and sound, the noise is caused by the cabinet reacting to changes in temperature. This will not affect performance.
Picture is disturbed. Sound is noisy. Remote control operates erroneously.	<ul style="list-style-type: none"> • Is a connected component set directly in front or at the side of the display? 	<ul style="list-style-type: none"> • Leave some space between the display and the connected components.
The remote control does not work.	<ul style="list-style-type: none"> • Are the remote control's batteries worn out? 	<ul style="list-style-type: none"> • Replace both batteries with new ones.
Monitor's power does not turn on when the remote control's power button is pressed.	<ul style="list-style-type: none"> • Is the monitor's power cord plugged into a power outlet? 	<ul style="list-style-type: none"> • Plug the monitor's power cord into a power outlet.
	<ul style="list-style-type: none"> • Are all the monitor's indicators off? 	<ul style="list-style-type: none"> • Press the power button on the monitor to turn on the power.
	<ul style="list-style-type: none"> • Are the remote control's batteries worn out? 	<ul style="list-style-type: none"> • Replace both batteries with new ones.
Monitor does not operate when the remote control's buttons are pressed.	<ul style="list-style-type: none"> • Is the remote control pointed at the monitor, or is there an obstacle between the remote control and the monitor? 	<ul style="list-style-type: none"> • Point the remote control at the monitor's remote control sensor when pressing buttons, or remove the obstacle.
	<ul style="list-style-type: none"> • Is direct sunlight or strong artificial light shining on the monitor's remote control sensor? 	<ul style="list-style-type: none"> • Eliminate the light by closing curtains, pointing the light in a different direction, etc.
	<ul style="list-style-type: none"> • Are the remote control's batteries worn out? 	<ul style="list-style-type: none"> • Replace both batteries with new ones.
No sound or picture is produced.	<ul style="list-style-type: none"> • Is the monitor's power cord plugged into a power outlet? 	<ul style="list-style-type: none"> • Plug the monitor's power cord into a power outlet.
Picture appears but no sound is produced.	<ul style="list-style-type: none"> • Is the volume set at the minimum? 	<ul style="list-style-type: none"> • Increase the volume.
	<ul style="list-style-type: none"> • Is the mute mode set? 	<ul style="list-style-type: none"> • Press the remote control's MUTE button.
	<ul style="list-style-type: none"> • Are the speakers properly connected? 	<ul style="list-style-type: none"> • Connect the speakers properly.
	<ul style="list-style-type: none"> • Is AUDIO INPUT set correctly? 	<ul style="list-style-type: none"> • Set AUDIO INPUT on the AUDIO menu correctly.
Poor picture with VIDEO signal input.	<ul style="list-style-type: none"> • Improper control setting. • Local interference. • Cable interconnections. • Input impedance is not correct level. 	<ul style="list-style-type: none"> • Adjust picture control as needed. • Try another location for the monitor. • Be sure all connections are secure.
Poor picture with RGB signal input.	<ul style="list-style-type: none"> • Improper control setting. • Incorrect 15 PIN connector pin connections. 	<ul style="list-style-type: none"> • Adjust picture controls as needed. • Check pin assignments and connections.
Tint is poor or colors are weak.	<ul style="list-style-type: none"> • Are the tint and colors properly adjusted? 	<ul style="list-style-type: none"> • Adjust the tint and color (under PICTURE).
Nothing appears on screen.	<ul style="list-style-type: none"> • Is the computer's power turned on? 	<ul style="list-style-type: none"> • Turn on the computer's power.
	<ul style="list-style-type: none"> • Is a source connected? 	<ul style="list-style-type: none"> • Connect source to the monitor.
	<ul style="list-style-type: none"> • Is the power management function in the standby or off mode? 	<ul style="list-style-type: none"> • Operate the computer (move the mouse, etc.).
Part of picture is cut off or picture is not centered.	<ul style="list-style-type: none"> • Is the position adjustment appropriate? 	<ul style="list-style-type: none"> • Adjust the IMAGE ADJUST properly.
Image is too large or too small.	<ul style="list-style-type: none"> • Is the screen size adjustment appropriate? 	<ul style="list-style-type: none"> • Press the WIDE button on the remote control and adjust properly.
Picture is unstable.	<ul style="list-style-type: none"> • Is the computer's resolution setting appropriate? 	<ul style="list-style-type: none"> • Set to the proper resolution.
POWER/STANDBY indicator is lighted in red.	<ul style="list-style-type: none"> • Horizontal and / or vertical sync signal is not present when the Intelligent Power Manager control is on. 	<ul style="list-style-type: none"> • Check the input signal.
POWER/STANDBY indicator is blinking in red.	<ul style="list-style-type: none"> • The temperature inside the main unit has become too high and has activated the protector. 	<ul style="list-style-type: none"> • Promptly switch off the power of the main unit and wait until the internal temperature drops. See*1.
POWER/STANDBY indicator is blinking in green and red, or green.		<ul style="list-style-type: none"> • Promptly switch off the power of the main unit. See *2.

***1 Overheat protector**

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

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

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

Limited Warranty

Residential Entertainment Plasma Monitors

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

HOW LONG IS THE WARRANTY?

Parts and Labor: Parts and Labor (**Excluding the PDP**) are warranted for (3) three years from the date of the first customer purchase.

PDP (Plasma Display Panel): The PDP is warranted for (1) one year from the date of the first customer purchase.

WHO IS PROTECTED?

This warranty may be enforced only by the first purchaser.

WHAT IS COVERED AND WHAT IS NOT COVERED

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

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

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

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

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

HOW YOU CAN GET WARRANTY SERVICE

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

LIMITATIONS OF LIABILITY

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

EXCLUSION OF DAMAGES

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

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

HOW STATE LAW RELATES TO THE WARRANTY

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

FOR MORE INFORMATION,
TELEPHONE 800-836-0655
NEC SOLUTIONS (AMERICA), INC.
1250 N. Arlington Heights Road, Suite 400
Itasca, Illinois 60143-1248

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

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