marantz ®

Model PD4201 User Guide

Plasma Monitor

IMPORTANT SAFETY INSTRUCTIONS
Read before operating equipment

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and third grounding prong. The wide blade or third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

(Additional Safety Information)

15. This product may contain lead or mercury. Disposal of these materials may be regulated due to environmental considerations.
    For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org.
16. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
    A. The power supply cord or the plug has been damaged; or
    B. Objects have fallen, or liquid has been spilled into the appliance; or
    C. The appliance has been exposed to rain; or
    D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
    E. The appliance has been dropped, or the enclosure damaged.
17. **Tilt/Stability** - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinets design.
    • Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product.
    • Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.
18. **Wall Mounting** - The appliance should be mounted to a wall only as recommended by the manufacturer.
19. **Power Lines** - An outdoor antenna should be located away from power lines.
20. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code, ANSI/NFPA No. 70- 1984, provides information with respect to proper grounding of the mats and supporting structure grounding of the lead-in wire to an antenna-discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode.
21. **Objects and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

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

WARNING

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

PRÉCAUTIONS IMPORTANTES DE SÉCURITÉ
A lire avant de faire fonctionner l'appareil

1. Lire ces instructions.
2. Garder ces instructions.
3. Respecter tous les avertissements.
4. Suivre toutes les instructions.
5. Ne pas utiliser cet appareil près de l'eau.
6. Nettoyer seulement avec un chiffon sec.
7. Ne pas boucher les ouvertures d'aération. Installer selon les instructions du fabricant.
8. Ne pas installer près d'une source de chaleur telle qu'un radiateur, une bouche de chauffage, une cuisinière ou d'autre matériel (y compris des amplificateurs) qui produit de la chaleur.
9. Ne pas contourner la sécurité fournie par la fiche polarisée ou la fiche de mise à la terre. Une fiche polarisée possède deux lames dont une plus large que l'autre. Une fiche de mise à la terre possède deux lames et une broche de mise à la terre. La lame large ou la broche est fournie pour votre sécurité. Si la fiche fournie ne va pas dans la prise, demander à un électricien de remplacer la prise démodée.
10. Protéger le cordon d'alimentation en ne pas marchant dessous ni le coinçant, en particulier près des fiches, des prises et de l'endroit où le cordon rejoint de l'appareil.
11. N'utiliser que des accessoires préconisés par le fabricant.
12. Utiliser seulement avec le chariot, meuble, trépied, support ou table spécifié par le fabricant ou vendu avec l'appareil. En utilisant un chariot, au moment de déplacer le chariot/téléviseur, bien faire attention pour éviter des blessures dues au renversement éventuel.
13. Débrancher cet appareil pendant des orages ou lorsqu'il ne sera pas utilisé pendant longtemps.
14. Consulter un technicien agréé de service après vente pour toute réparation.
   Le service après vente est nécessaire lorsque l'appareil a été endommagé de quelque façon que ce soit, telle que lorsque le cordon d'alimentation ou la fiche est endommagé, du liquide renversé, un objet tombé dans l'appareil, l'exposition de l'appareil à la pluie ou l'humidité, lorsque l'appareil ne fonctionne pas normalement ou lorsqu'on a laissé tomber l'appareil.

(Informations de Sécurité Supplémentaires)

15. Ce produit peut contenir un plomb ou du mercure. La mise à rebut de ces matières pourrait être réglementée pour des raisons de protection de l'environnement. Pour s'informer sur la mise à rebut ou le recyclage, veuillez se mettre en contact avec les autorités locales ou l'Electronic Industries Alliance: www.eiae.org.
16. **Dommages qu'il faut faire réparer** - Il faut faire réparer l'appareil par un technicien qualifié lorsque:
   A. Le cordon d'alimentation en électricité ou la fiche a été endommagé; ou
   B. On a laissé tomber des objets ou du liquide dans l'appareil;
   C. On a exposé l'appareil a la pluie; ou
   D. L'appareil ne paraît pas marcher normalement ou présente de grands changements d'opération; ou
   E. On a laissé tomber l'appareil ou endommager le coffret.
17. Tous les téléviseurs doivent être conformes aux normes inter-nationales de sécurité préconisées pour les propriétés de sta-bilité et d'inclinaison dans la conception des meubles.
   • Ne pas compromettre ces normes de conception en tirant excessivement sur le devant ou le haut du meuble, ce qui risque éventuellement de renverser le produit.
   • De plus, ne pas se mettre en danger, ni mettre les enfants en danger en plaçant du matériel électronique ou des jouets sur le meuble. De tels articles pourraient tomber malencon-treusement du haut du téléviseur et endommager le produit et/ou blesser des gens.
18. **Montage au mur ou au plafond** - Il faut monter l'appareil à un mur ou plafond uniquement en suivant les recommandations du fabricant.
19. **Lignes de transmission** - Il faut situer une antenne extérieure à l'écart des lignes de transmission d'électricité.
20. **Mise à terre de l'antenne extérieure** - Si une antenne extérieure est reliée au récepteur, assurez-vous que le système d'antenne est bien mis à la terre pour protéger contre les sauts de tension et l'accumulation des charges d'électricité statique.
   La section 810 du National Electric Code, ANSI/NFPA No. 70-1984, fournit des renseignements sur la mise à la terre du mât et de sa structure de soutient, du fil d'entrée à un appareil de décharge/antenne, sur la grosseur des conducteurs de mise à terre, sur l'emplacement d'un appareil de décharge/antenne, sur la mise à la terre vers les électrodes de terre, ainsi que sur les recommandations sur les électrodes de terre.
21. **Entrée des objets et des liquides** - Evitez de laisser tomber des objets ou des liquides par les ouverture de l'enclos.

Ne pas exposer l'appareil aux projections ou aux écoulement d'eau et ne jamais poser un récipient contenant du liquide, un vase par exemple, sur l'appareil.

AVERTISSMENT

Pour réduire les risques d'incendie ou d'électrocution, ne jamais exposer cet appareil à la pluie ou à l'humidité.

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".

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.
8. This equipment shall be connected to a MAIN outlet with a protective earth-ground connection.
9. The outlet shall be installed near the equipment and shall be easily accessible.

To avoid damage and prolong operating life:

1. Use only with 100 V to 240 V 50 Hz/60 Hz AC power supply. Continued operation at line voltages greater than 100 V to 240 V 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.
11. To prevent a fire hazard, do not place any naked flame sources (such as a lighted candle) on the equipment.

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 image retention:

Like all phosphor-based display devices and all other gas plasma displays, plasma monitors can be susceptible to image retention under certain circumstances. Certain operating conditions, such as the continuous display of a static image over a prolonged period of time, can result in image retention 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 retention:

* 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 image retention:

* 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.

Plasma monitor driving sound

The panel of the Plasma monitor is composed of extremely fine pixels and these pixels emit light according to received video signals. This principle may cause you to hear a buzz or electrical hum coming from the Plasma monitor. Also note that the rotation speed of the cooling fan motor increases when the ambient temperature of the Plasma monitor becomes high. You may hear the sound of the motor at that time.

Note:

The following items are not coverd by the warranty.
• Image retention
• Panel generated sound, examples: Fan motor noise, and electrical circuit humming /glass panel buzzing.

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

Recommandations importantes

Précaution

Veuillez 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

ATTENTION: POUR EVITER TOUT RISQUE D'ELECTROCUTION, NE PAS OUVRIR LE BOITIER. A L'INTERIEUR, AUCUNE PIECE NE NECESSITE L'INTER-VENTION DE L'UTILISATEUR. EN CAS DE PROBLEME, S'ADRESSER A UN REPARATEUR SPECIALISTE.

Ce symbole est une mise en garde contre les risques d'électrocution que présentent certaines parties dépourvues d'isolation à l'intérieur de l'appareil. Il est donc dangereux d'établir le moindre contact avec ces parties.

Ce symbole avertit l'utilisateur que d'importantes informations sont fournies sur le fonctionnement ou l'entretien de cet appareil. De ce fait, il faut lire attentivement ces instruc-tions pour éviter tout problèm.

AVERTISSEMENT

AFIN D'EVITER TOUT RISQUE D'INCENDIE OU D'ELECTROCUTION, NE PAS EXPOSER CET APPAREIL A LA PLUIE OU A L'HUMIDITE. NE PAS BRANCHER LA PRISE D'ALIMENTATION POLARISEE DANS UNE PRISE MURALE AVEC UNE RALLONGE OU UN ADAPTATEUR MULTIPRISE SI LES FICHES NE PEUVENT ETRE INSEREES COMPLETEMENT. EVITER D'OUVRIR LE BOITIER CAR CELUI-CI PROTEGE DES COMPOSANTS FONCTIONNANT A HAUTE TENSION. EN CAS DE PROBLEME, S'ADRESSER A UN REPARATEUR SPECIALISTE.

Avertissements et précautions de sécurité

Ce moniteur à plasma a été conçu et fabriqu pour une utilisation fiable et durable. Il ne nécessite aucun entretien en dehors du nettoyage. Voir la section "Méthode de nettoyage du moniteur à plasma" plus loin.

Le panneau à affichage plasma est constitué de fines particules d'images (cellules) dont plus de 99,99 % sont actives. Certaines d'entre elles ne produisent pas de lumière ou restent allumées.

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

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

1. Laisser suffisamment d'espace autour de l'appareil pour la ventilation et éviter toute augmentation excessive de la température interne. Ne pas couvrir les fentes d'aération ou installer l'appareil dans un endroit trop exigu.

   Si vous installez l'appareil dans un espace clos, assurezvous qu'il y ait suffisamment d'espace au dessus pour permettre 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 cet appareil à la pluie ou à l'humidité.

4. Eviter d'endommager le câble d'alimentation et ne pas le modifier.

5. Débrancher le câble d'alimentation électrique pendant les orages ou les longues périodes d'inactivité.

6. Ne pas ouvrir le boîtier protégeant les parties dangereuses fonctionnant hauts voltages. Si l'appareil est endommagé de cette manière, la garantie sera annulée. De plus, les risques d'électrocution grave sont très grands.

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 au service après-vente autorisé.

8. Cet équipement doit être connecté à une prise secteur (MAIN) équipée d'une mise à la terre.

9. La prise secteur doit se trouver près de l'équipement et doit être facile d'accès.

Pour éviter tout dommage et assurer une utilisation durable:

1. Utiliser seulement une alimentation en courant de 100 V à 240 V 50 Hz/60 Hz. Toute utilisation prolongée avec un courant supérieur à 100 V à 240 V risque de diminuer la durée de vie de l'appareil et même de provoquer un incendie.

2. Manipuler l'appareil avec précautions lors de son installation, ne pas le laisser tomber.

3. L'installer loin de toute source de chaleur ou de poussière. Ne pas l'exposer au soleil.

4. Eviter la pénétration de liquides ou petits objets métalliques 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 cogner ou rayer la surface de l'écran, des déformations de l'image en résulteraient.

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.

11. Pour éviter les risques d'incendie, ne placez aucune flamme nue (telle qu'une bougie allumée) sur l'appareil.

Méthode de nettoyage du moniteur à plasma:

1. Nettoyer le panneau avant et le cadre en procédant à l'aide d'un chiffon doux et sec. Ne jamais utiliser de solvents du type alcool ou diluant pour le nettoyage de ces surfaces.

2. Nettoyer les prises d'aération du plasma en procédant à l'aide d'une brosse à poils doux fixée à un aspirateur.

3. Pour garantir la bonne ventilation du moniteur, nettoyer les prises d'air tous les mois. Un nettoyage plus fréquent peut s'avérer nécessaire selon les conditions environnantes dans lesquelles le moniteur à plasma est utilisé.

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

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

* S'assurer de mettre en marche et d'utiliser l'économiseur d'écran chaque fois que c'est possible, pendant l'utilisation avec une source d'entrée venant d' un ordinateur.

* Afficher une image en mouvement aussi souvent que possible.

* Changer la position de l'affichage de menu de temps à autre.

* Toujours couper l'alimentation après la fin de l'utilisation du moniteur.

Si le moniteur à plasma est en usage continu ou de longue durée, prendre les mesures suivantes afin d'éviter l'occurence le brûlage du luminophore:

* Abaisser le niveau de l'image (contraste, luminance) autant que possible, sans faire perdre la lisibilit de l'image.

* Afficher une image avec de nombreuses couleurs et graduations de couleur (par ex. des images photo-graphiques ou photo-réalistes).

* Créer 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. Utiliser des couleurs complémentaires ou pastels le plus souvent possible.

* Eviter d'afficher des images avec peu de couleurs et des limites nettes et clairement définies entre les couleurs.

Son de fonctionnement du moniteur plasma

Le panneau du moniteur plasma est composé de pixels extrêmement fins et ces pixels émettent de la lumière en fonction des signaux vidéo reçus. Ce principe peut créer un bourdonnement ou un ronflement électrique venant du moniteur plasma. Veuillez également noter que la vitesse de rotation du ventilateur de refroidissement peut augmenter lorsque la température ambiante du moniteur plasma augmente. Lorsque cela se produit, il est possible que vous entendiez le moteur du ventilateur.

Remarque:
Les éléments suivants ne sont pas couverts par la garantie.
• Rémanence
• Sons générés par le panneau, par exemple : Bruit du moteur de ventilateur, ronflement du circuit électrique / bourdonnement du panneau de verre.

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

Important Information

Warning

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

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio / TV technician for help.

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

NOTE:
When you use an RGB cable (not supplied), use an RGB cable including the ferrite core (not supplied) on both ends of the cable. If you do not this, this monitor will not conform to mandatory FCC standards.

NOTE:
When you use the power cable (supplied), use the supplied ferrite cores. Set the ferrite cores (supplied) on both ends of the power cable (supplied), and then use the bands (supplied) to fasten the ferrite cores (supplied) to the power cable (supplied). If you do not this, this monitor will not conform to mandatory FCC standards.
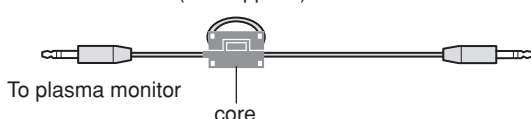
Power cable (supplied)

band   band
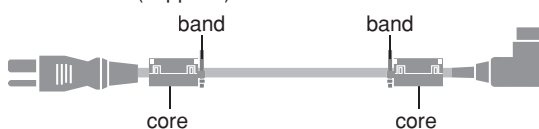
core   core

NOTE:
When you use a remote cable (not supplied), use the supplied ferrite core. Wind the remote cable (not supplied) around the ferrite core (supplied) once, and then fasten the catch. If you do not this, this monitor will not conform to mandatory FCC standards.

Remote cable (not supplied)

To plasma monitor

core

Caution

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

Manufacturer's name: D&M Holdings Inc.
Stand: AS4250 for PD4201

Please contact Marantz America, Inc. for approved optional accessories.

WARNING
This product equipped with a three-wire grounding (earthed) plug - a plug that has a third (grounding) pin. This plug only fits a grounding-type power outlet. If you are unable to insert the plug into an outlet, contact a licensed electrician to replace the outlet with a properly grounded one. Do not defeat the safety purpose of the grounding plug.

Operating Environment: PD4201
Operating environment temperature and humidity: 0 °C to +35 °C (+32 °F to +95 °F); less than 80 %RH (cooling vents not blocked)
Do not install this unit in a poorly ventilated area, or in locations exposed to high humidity or direct sunlight (or strong artificial light)

A NOTE ABOUT RECYCLING
This product's packaging materials are recyclable and can be reused. This product and the accessories packed together are the applicable product to the WEEE directive except batteries.
Please dispose of any materials in accordance with your local recycling regulations.
When discarding the unit, comply with your local rules or regulations.
Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.

EUROPE ONLY

⚠ CAUTION

When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country/area.

Recommandations importantes

Avertissement

Ne pas utiliser dans une salle d'ordinateurs telle que définie dans la Norme pour la protection des ordinateurs électroniques/appareils de traitement des données ANSI/NFPA75.

Cet appareil a été testé est trouvé conforme avec les limites des appareils numériques de classe B, conformément à l'article 15 du règlement FCC. Ces limites sont conçues pour offrir une protection raisonnable contre les interférences nuisibles dans une installation résidentielle. Cet appareil génère, utilise et peut émettre de l'énergie radiofréquence et, s'il n'est pas installé et utilisé selon les instructions, peut causer des interférences nuisibles aux communications radio. Cependant, il n'y a aucune garantie que de telles interférences ne se produisent pas pour une installation particulière. Si cet appareil causait des interférences nuisibles à la réception radio ou télévisée, ce qui peut être déterminé en mettant l'appareil hors et sous tension, vous être encouragé à essayer de corriger ces interférences à l'aide de l'une ou plusieurs mesures suivantes:

• Réorientez ou déplacez l'antenne réceptrice.
• Augmentez l'espace entre l'appareil est le récepteur.
• Connectez l'appareil sur une prise secteur appartenant à un circuit différent de celui sur lequel le récepteur est connecté.
• Consultez votre revendeur ou un technicien radio/télévision expérimenté.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.
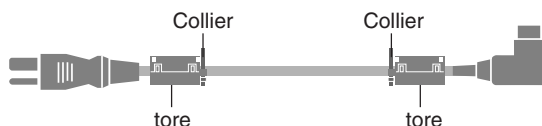

REMARQUE :
Lorsque vous utilisez un câble RGB (non fourni), utilisez un câble RGB comprenant une âme en ferrite (non fourni) à ses deux extrémités. Sinon, ce moniteur ne sera pas conforme aux normes FCC obligatoires.

REMARQUE :
Lorsque vous utilisez le câble d'alimentation (fourni) utilisez les âmes en ferrite fournies. Placez les âmes en ferrite (fournies) aux deux extrémités du câble d'alimentation (fournir) puis utilisez les colliers (fournis) pour fixer les âmes en ferrite (fournies) au câble d'alimentation (fourni). Sinon, ce moniteur ne sera pas conforme aux normes FCC obligatoires.
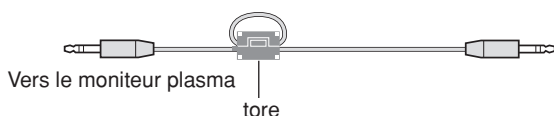
Câble d'alimentation (fourni)

Collier   Collier

tore   tore

REMARQUE :
Lorsque vous utilisez un câble télécommande (non fourni), utilisez l'âme en ferrite fournie. Enroulez le câble télécommande (non fourni) autour de l'âme en ferrite (fournie) une fois, puis serrez la fermeture. Sinon, ce moniteur ne sera pas conforme aux normes FCC obligatoires.

Câble à distance (non fourni)

Vers le moniteur plasma   tore

Attention

Ce modèle peut être utilisé avec les accessoires optionnels suivants. L'utilisation de ce modèle avec d'autres accessoires optionnels peut entraîner une instabilité qui peut causer des blessures.

Nom du fabricant : D&M Holdings Inc.
Support: AS4250 para PD4201

Veuillez contacter Marantz America, Inc. pour obtenir la liste des accessoires optionnels agréés.

AVERTISSEMENT
Cet appareil est muni d'une fiche de mise à la terre (masse) à trois fils. Comme la fiche présente une troisième broche (de terre), elle ne peut se brancher que sur une prise de courant, prévue pour une mise à la terre. Si vous n'arrivez pas à insérer la fiche dans la prise de courant, contactez un électricien qualifié pour faire remplacer la prise par une qui soit mise à la terre. N'annulez pas la fonction de sécurité que procure cette fiche de mise à la terre.

Milieu de fonctionnement: PD4201
Température et humidité du milieu de fonctionnement: De 0 °C à +35 °C (de +32 °F à +95 °F); Humidité relative inférieure à 80 % (orifices de ventilation non obstrués) N'installez pas l'appareil dans un endroit mal ventilé ou un lieu soumis à une forte humidité ou en plein soleil (ou à une forte lumière artificielle).

REMARQUE CONCERNANT LE RECYCLAGE
Le matériel d'emballage de cet appareil est recyclable et peut être réutilisé. Cet appareil et les accessoires qui sont emballés avec celui-ci sont conformes, à l'exception des piles, à la directive DEEE (relative aux déchets d'équipements électriques et électroniques).
Jetez ce matériel conformément aux réglementations de recyclage locales.
Pour mettre l'appareil au rebut, respectez les règles ou réglementations locales.
Les piles ne doivent jamais être jetées ou incinérées, mais être mises au rebut conformément aux réglementations locales concernant les déchets chimiques.

L'EUROPE UNIQUEMENT

⚠ ATTENTION

Lorsque vous diposez de piles / batteries usées, veuillez vous conformer aux normes gouvernementales ou environnementales en vigueur dans votre pays ou région.

Contents

Contents of the Package

☐ Plasma monitor (×1)
☐ Power cord (×1, 3 m/9.8 feet)
☐ Remote control (×1)
☐ AAA Batteries (×2, Manganese battery for remote control)
☐ User guide
☐ Ferrite cores for power cord (×2), bands for power cord (×2)
☐ Ferrite core for remote cable (×2)
☐ Cable clampers (×3), beads bands (×3)
☐ Warranty card (×2)

Options

• Wall mount unit
• Tilt mount unit
• Tabletop Stand

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.)**
- **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.

CAUTION
- **Install the device following the manual of the optional unit.**
- **Install the device on the stable and even place where it is strong enough to stand the weight.**
- **Use the specified clasps for installing.**
- **After installation, make sure to take measurements to prevent falling.**
- **Make sure to move or install the device with another person(s).**

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* Use only a mounting kit or stand recommended by the manufacturer and listed as an accessory.

Drawing A
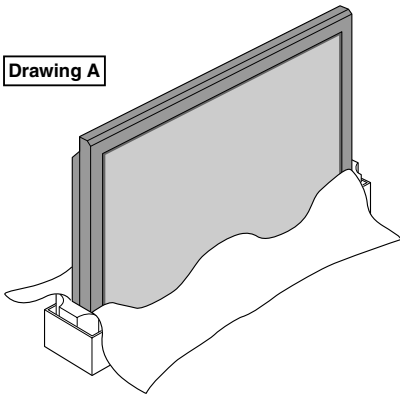
Drawing B
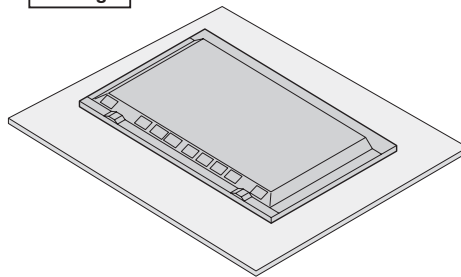
Ventilation Requirements for enclosure mounting

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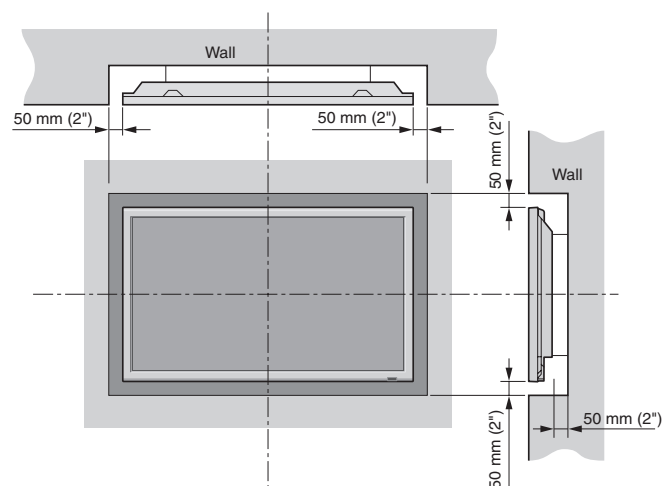
Cable Management

Using the cable clampers and beads bands provided with the plasma display; Bundle the signal and audio cables at the back of the unit to connect to the display.

PD4201
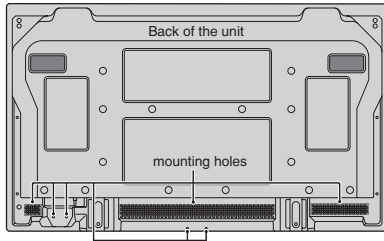
To attach

Insert ① into a mounting hole, then snap ② into the back of ① to fix the clamper.

Clampers are designed to be difficult to undo once in place. Please attach carefully. Cables can be routed to the right or left.
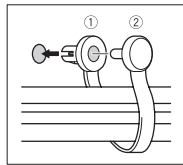
Bunch separated cables together and secure them with the provided beads bands.

Do not allow excessive stress to be placed on the ends of cables.
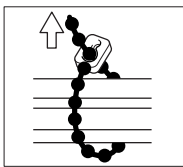
To detach

Using pliers, twist the clamper 90° and pull it outward. In some cases the clamper may have deteriorated over time and may get damaged when removed.
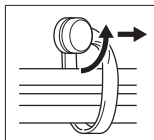
Using the remote control
Battery Installation and Replacement

Designated batteries:
Please use size AAA (R03) or AAA (LR03).
Insert the 2 "AAA" batteries, making sure to set them in with the proper polarity.

1. Press and open the cover.
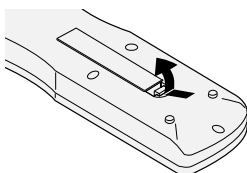
2. Align the batteries according to the ⊕ and ⊖ indication inside the case.
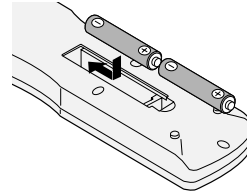
3. Replace the cover.
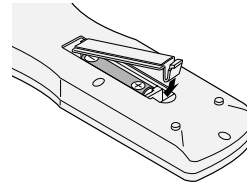
Operating Range

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

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

Approx. 7 m/23 ft   30°   30°
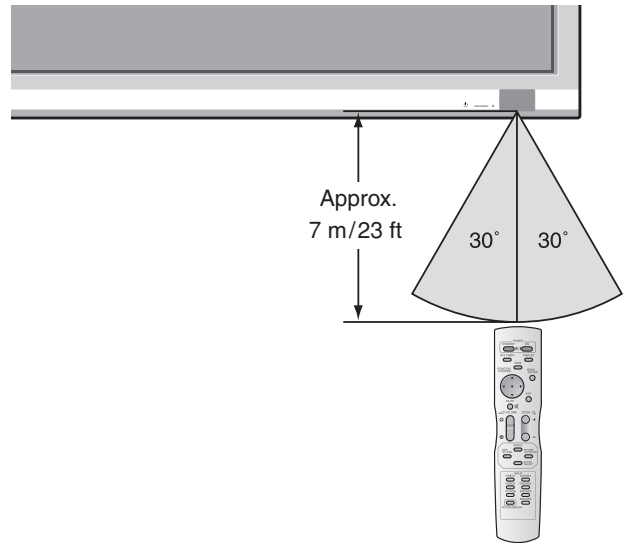
CAUTION

• Use only the specified batteries.
• Make sure to insert the batteries correctly according to the indications of ⊕ and ⊖ .
• 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
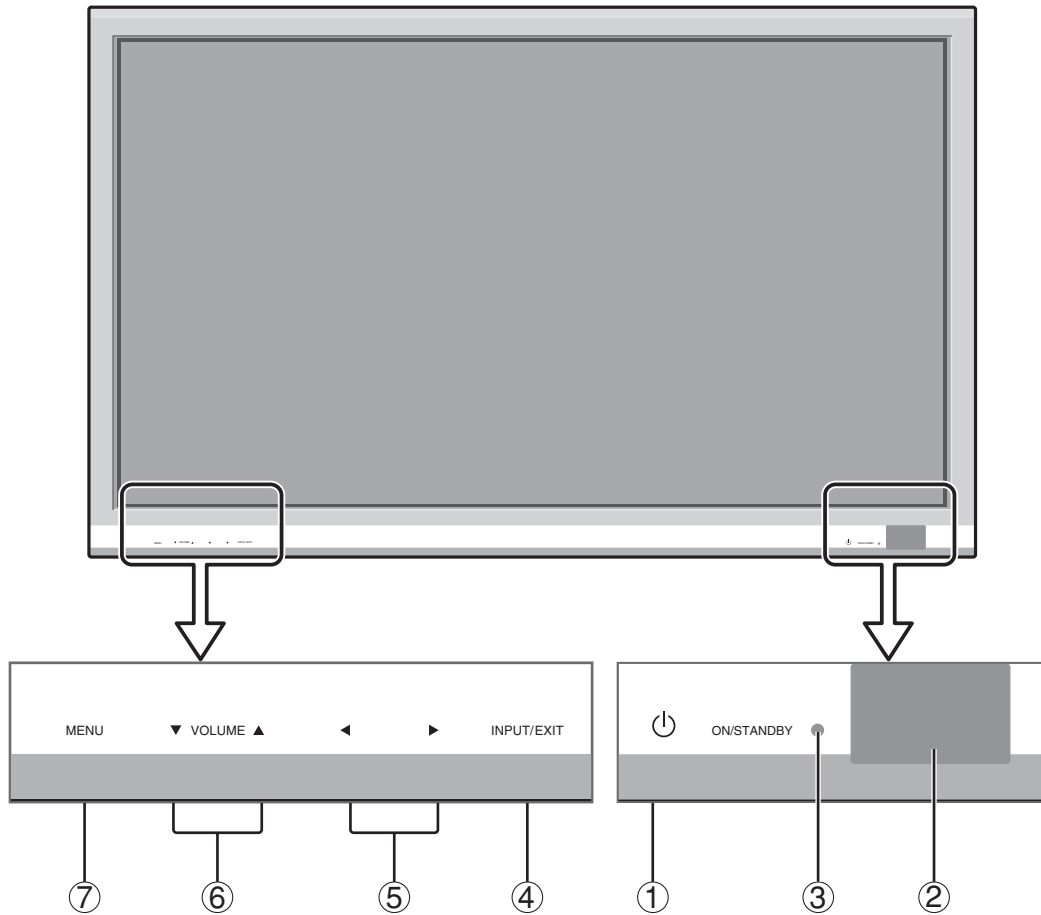
① **Power**

Turns the monitor's power on and off.

② **Remote sensor window**

Receives the signals from the remote control.

③ **ON/STANDBY indicator**

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

④ **INPUT / EXIT**

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

⑤ **◄ and ►**

Enlarges or reduces the image. Functions as the CURSOR (◄ / ►) buttons in the On-Screen Menu (OSM) mode.

⑥ **VOLUME ▼ and ▲**

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

⑦ **MENU**

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

WARNING

The Power on/off switch does not completely disconnect power from the display.

Rear View/ Terminal Board

PD4201
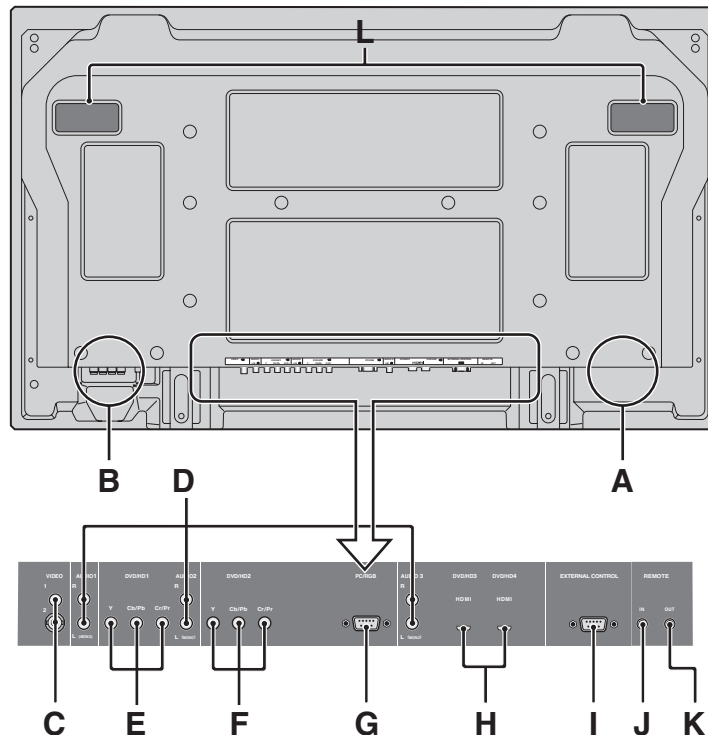
A AC IN
Connect the included power cord here.

B EXT SPEAKER L and R
Connect speakers (optional) here. Maintain the correct polarity. Connect the ⊕ (positive) speaker wire to the ⊕ EXT SPEAKER terminal and the ⊖ (negative) speaker wire to the ⊖ EXT SPEAKER terminal on both LEFT and RIGHT channels.
Please refer to your speaker's owner's manual.

C VIDEO1, 2 (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 corresponds to the audio input from the audio menu screen.

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

F DVD/HD2
You can connect DVDs, High Definition sources, Laser Discs, etc. here.

G PC/RGB (D-Sub)
Connect an analog RGB signal from a computer, etc. here.

H DVD/HD3, DVD/HD4 (HDMI)
Connect a digital signal from a source with a HDMI output. See "Specifications" on "Model Information".

I EXTERNAL CONTROL (D-Sub)
This terminal is used when operating and controlling the monitor externally with a control system (by RS-232C).

J REMOTE IN

K REMOTE OUT
Use these terminals to control external equipment.

L Handles
Use when installing or carrying the plasma monitor.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

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Remote Control
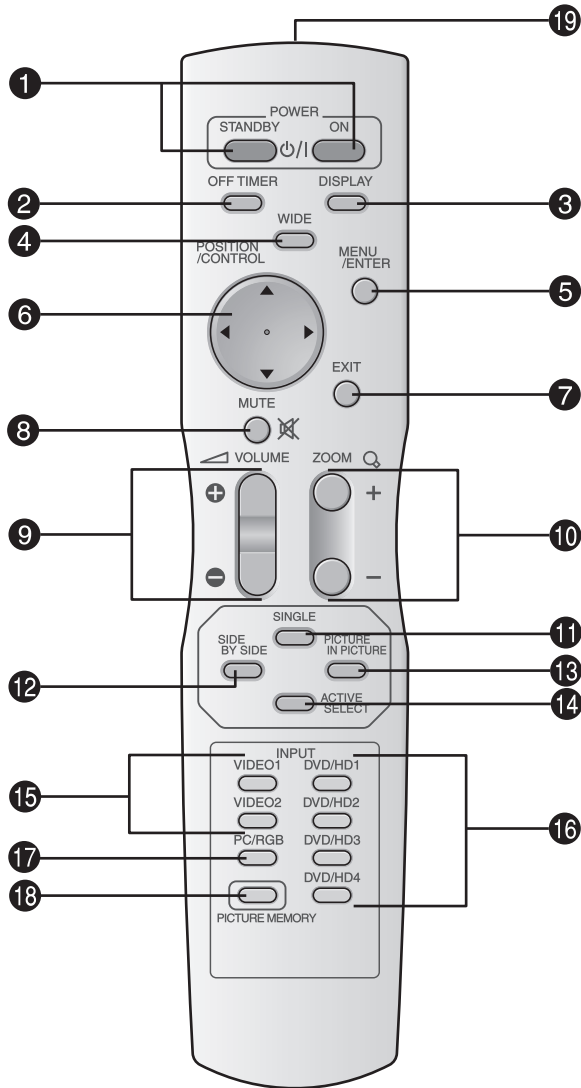
❶ **POWER ON/STANDBY**

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

❷ **OFF TIMER**

Activates the off timer for the unit.

❸ **DISPLAY**

Displays the source settings on the screen.

❹ **WIDE**

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

❺ **MENU/ENTER**

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

❻ **CURSOR (▲ / ▼ / ◄ / ►)**

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

❼ **EXIT**

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

❽ **MUTE**

Mutes the audio.

❾ **VOLUME (+ /−)**

Adjusts the audio volume.

❿ **ZOOM (+ /−)**

Enlarges or reduces the image.

⓫ **SINGLE**

Cancels the split screen mode.

⓬ **SIDE BY SIDE**

Press this button to show a couple of pictures in the side-by-side mode.

⓭ **PICTURE IN PICTURE**

Press this button to show a couple of pictures in the picture-in-picture mode.

⓮ **ACTIVE SELECT**

Press this button to make the desired picture activate during split screen mode.
When the PICTURE FREEZE function is operating, this button can be used to display still images on the sub screen.

⓯ **VIDEO1, 2**

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

⓰ **DVD/HD1, 2, 3, 4**

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

⓱ **PC/RGB**

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

⓲ **PICTURE MEMORY**

Switches sequentially between picture memory settings 1 to 6.

⓳ **Remote control signal transmitter**

Transmits the remote control signals.

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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 ON/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 ON/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 ON/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.

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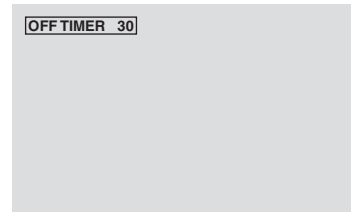
OFF TIMER   30

To check the remaining time:

1. Once the off timer has been set, press the OFF TIMER button once.
2. The remaining time is displayed, then turns off after a few seconds.
3. When five minutes remain the remaining time appears until it reaches zero.
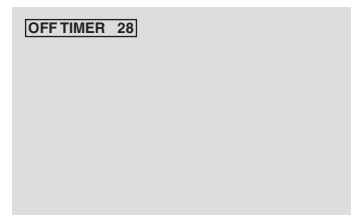
OFF TIMER   28

To cancel the off timer:

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

OFF TIMER   0

Note:

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

WIDE Operations

Wide Screen Operation (manual)

With this function, you can select one of seven 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 → UNDERSCAN ⌐
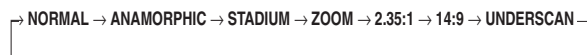
   When a 720P or 1080I signal is input:

   ANAMORPHIC ↔ **2.35:1**

   When displaying enhanced split screen:

   NORMAL ↔ **ANAMORPHIC**

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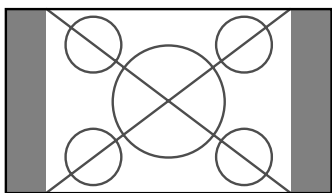
The normal size screen is displayed.
* The picture has the same size as video pictures with a 4 : 3 aspect ratio.

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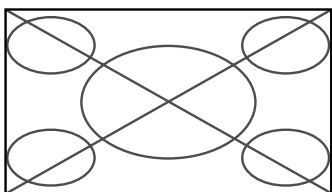
The image is expanded in the horizontal direction.
* Images compressed in the horizontal direction ("squeezed images") are expanded in the horizontal direction and displayed on the entire screen with correct linearity. (Normal images are expanded in the horizontal direction.)

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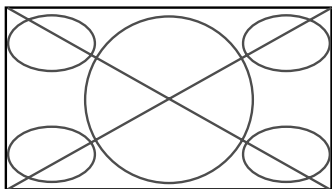
The picture is expanded in the horizontal and vertical directions at different ratios.
* Use this for watching normal video programs (4:3) with a wide screen.

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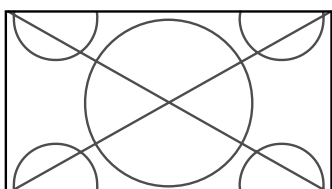
The picture is expanded in the horizontal and vertical direction, maintaining the original proportions.
* Use this for theater size (wide) movies, etc.

2.35:1 size screen
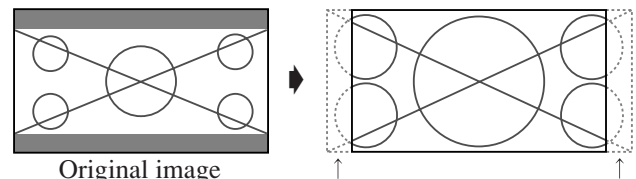
Original image   ▶   Information is lost on both sides.

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 fill the screen and avoid image retention.

14:9 size screen
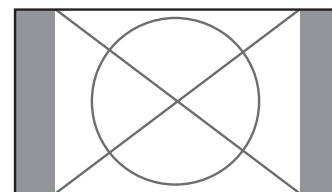
The image is displayed at a 14:9 aspect ratio.
* This feature is available when the input signal is video, component (480I, 480P, 576I, 576P) or RGB (525P or 625P signal from a scan converter).

UNDERSCAN size screen
Set "UNDERSCAN" to "ON" in the "IMAGE ADJUST".
Typical televisions crop the image (i.e., overscan). In order to restore the entire image, select UNDERSCAN.

Overscan   Underscan
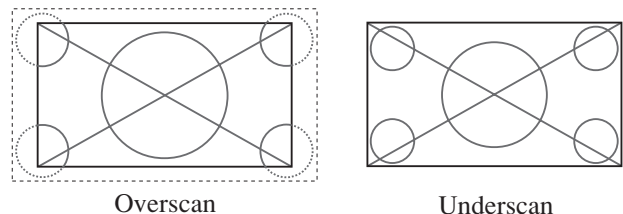
* Picture noise or black border may appear near the edge of screen depending on the connected component.
* The continuous display in this screen size over a prolonged period of time may result in image retention.
* When Macrovision signal is input, the brightness may change.

Note:
Do not allow 4:3 content to be displayed for extended periods of time without using gray bars. This can cause image retention.

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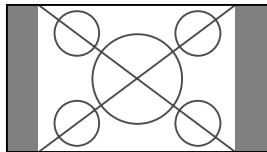
The picture has the same size as the normal computer image.

ANAMORPHIC size screen
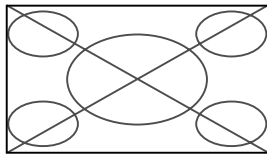
The image is expanded in the horizontal direction.

ZOOM size screen
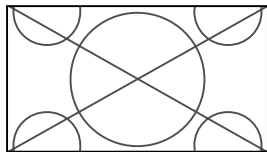
When wide signals are input.

ANAMORPHIC size screen
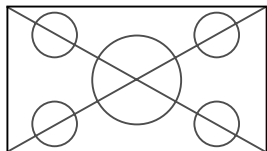
Note:

Do not allow 4:3 content to be displayed for extended periods of time without using gray bars. This can cause image retention.

SPLIT SCREEN Operations

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

* There may be some RGB-input signals that may not be displayed as not all signals are supported.

1. Press the button to select a screen mode from among single mode, side-by-side, and picture-in-picture.
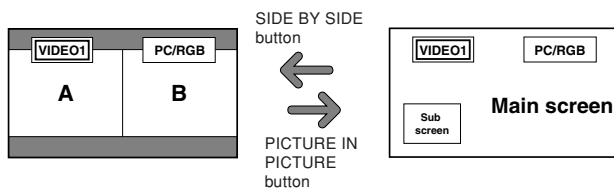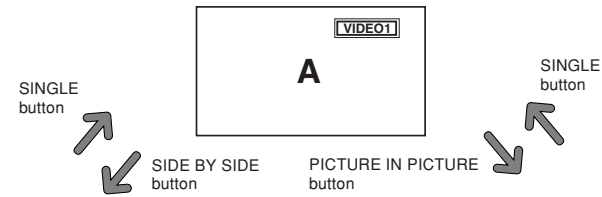
Note:
Picture A and B on the above screen are not always of the same height.

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	DVD/HD1	DVD/HD2	DVD/HD3	DVD/HD4	PC/RGB
Pictures displayed on the left/sub screen (Select2)	VIDEO1	×	×	○	○	○	○	○
	VIDEO2	×	×	○	○	○	○	○
	DVD/HD1	○	○	×	○	○	○	○
	DVD/HD2	○	○	○	×	○	○	○
	DVD/HD3	○	○	○	○	×	×	○
	DVD/HD4	○	○	○	○	×	×	○
	PC/RGB	○	○	○	○	○	○	×

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

Operations in the Side-by-side mode

To change the picture size, press the cursor ◄► or ▼ button.
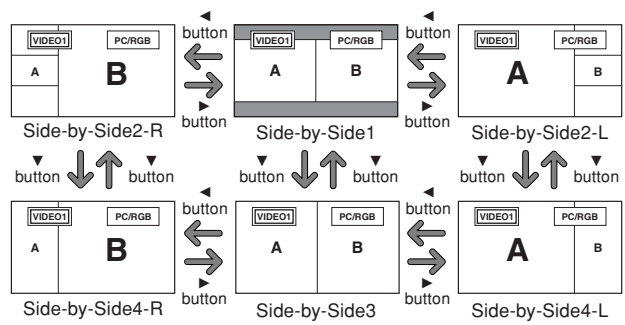
To swap the picture on the right and the left, press the cursor ▲ button.

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

18
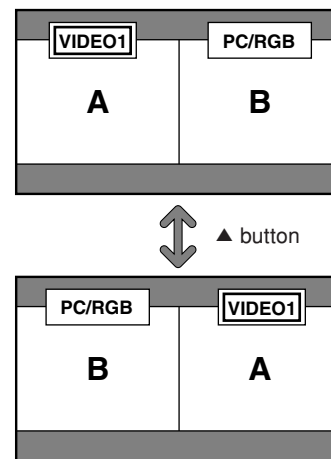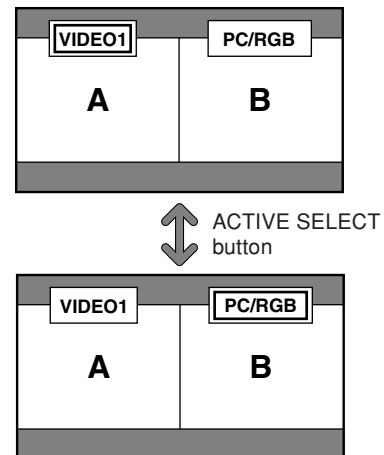
Operations in the Picture-in-picture mode

To move the position of the sub screen, press the cursor ◀ or ▶ button.
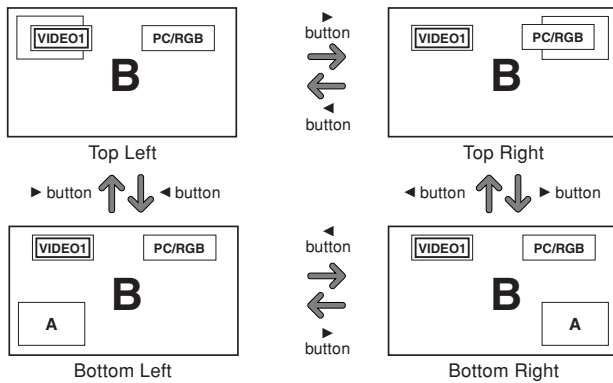
To change the size of the sub screen, press the ▼ button.
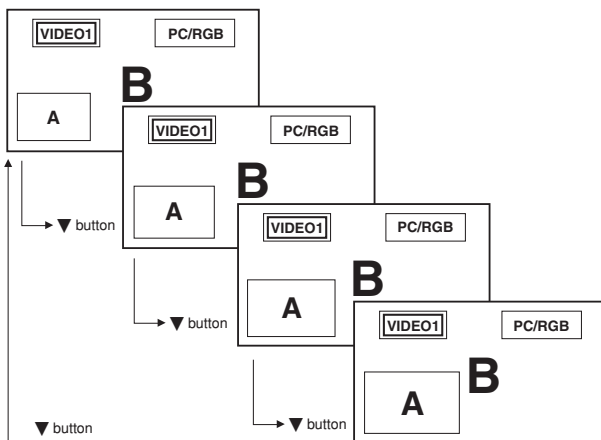
To make the desired picture active, press the ACTIVE SELECT button.
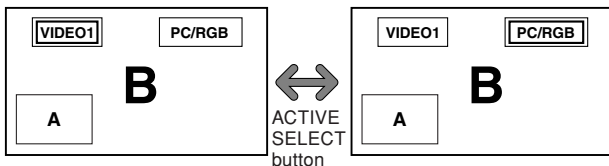
Selecting the input signals to be displayed

1. Press the ACTIVE SELECT button to make the desired picture active.
2. Press the PC/RGB, VIDEO1, 2 or DVD/HD1, 2, 3, 4 button to change the selection of the input signal.
   The INPUT/EXIT button on the monitor can also be used to change the selection.

Zooming in on a specific input

1. Press the ACTIVE SELECT button to make the desired picture active.
2. Use the ZOOM (+ or −) button to enlage the picture.
   For details, see "DIGITAL ZOOM" on page 15.

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 20.

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.

```
              MAIN MENU
  ➡    PICTURE          SET UP

        AUDIO           FUNCTION

      IMAGE ADJ.       SIGNAL INFO.

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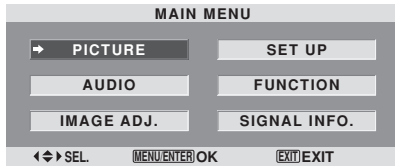
2. Press the cursor buttons ▲ ▼ on the remote control to highlight the menu you wish to enter.

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

```
                PICTURE
  ➡ PICTURE MEMORY  : ◀ OFF ▶
    CONTRAST        ⊖———┃——⊕ : 52
    BRIGHTNESS      ⊖———┃——⊕ : 32
    SHARPNESS       ⊖———┃——⊕ : 16
    COLOR           ⊖———┃——⊕ : 32
    TINT            ®———┃——© : 32
    NR              :   OFF
    COLOR TEMP.     :   MIDDLE
    CINEMA MODE     :   ON
    PICTURE MODE    :   NORMAL



  ♦ SEL.  ◀▶ ADJ.  MENU/ENTER OK  EXIT RETURN
```
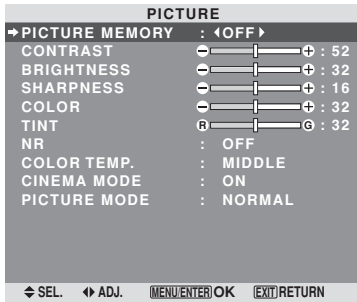
4. Adjust the level or change the setting of the selected item by using the cursor buttons ◀ ▶ on the remote control.

```



  ‡ CONTRAST   ⊖—┃———⊕ : 10
```

5. The adjustments or settings are then stored in memory. The change is stored until another change is made.

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 stored and the previous screen appears.

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

Information

■ Advanced menu mode

When "ADVANCED OSM" is set to "ON" in the FUNCTION menu, full menu items will be shown.

```
                PICTURE
  ➡ PICTURE MEMORY  : ◀ OFF ▶
    CONTRAST        ⊖———┃——⊕ : 52
    BRIGHTNESS      ⊖———┃——⊕ : 32
    SHARPNESS       ⊖———┃——⊕ : 16
    COLOR           ⊖———┃——⊕ : 32
    TINT            ®———┃——© : 32
    NR              :   OFF
    COLOR TEMP.     :   MIDDLE
    CINEMA MODE     :   ON
    PICTURE MODE    :   NORMAL
    GAMMA           :   2.2
    LOW TONE        :   MODE1
    SET UP LEVEL    :   0%
    COLOR TUNE
  ♦ SEL.  ◀▶ ADJ.  MENU/ENTER OK  EXIT RETURN
```
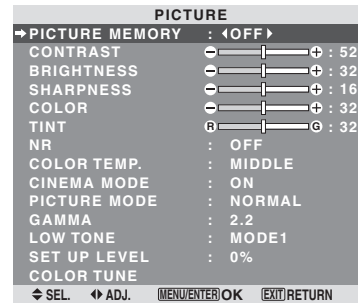
* The actual screen may be different from the ones in this manual.

Menu Tree

- �: Shaded areas indicate the default value.
- − ← → + : Press the ◄ or ► button to adjust.
- ☐ : Menu items in a ruled box are available when the ADVANCED OSM is set to ON.

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
PICTURE	PICTURE MEMORY	OFF/MEMORY1-6			YES	23
	CONTRAST	− ← → + 0←52→72			YES	23
	BRIGHTNESS	− ← → + 0←32→64			YES	23
	SHARPNESS	− ← → + 0←16→32			YES	23
	COLOR	− ← → + 0←32→64			YES	23
	TINT	R←→G 0←32→64			YES	23
	NR	OFF/NR-1/NR-2/NR-3			YES	23
	COLOR TEMP.	LOW/MIDDLE LOW/MIDDLE/HIGH			YES	24
	WHITE BALANCE	GAIN RED	− ← → + 0←40→70		YES	24
		GAIN GREEN	− ← → + 0←40→70		YES	24
		GAIN BLUE	− ← → + 0←40→70		YES	24
		BIAS RED	− ← → + 0←40→70		YES	24
		BIAS GREEN	− ← → + 0←40→70		YES	24
		BIAS BLUE	− ← → + 0←40→70		YES	24
		RESET	OFF←→ON		YES	24
	CINEMA MODE	ON←→OFF			YES	24
	PICTURE MODE	DEFAULT/THEATER1/THEATER2/NORMAL/BRIGHT			YES	24
	GAMMA	2.1←→2.2←→2.3←→2.4			YES	25
	LOW TONE *3	MODE1←→MODE2			YES	25
	SET UP LEVEL	0%←→3.75%←→7.5%			YES	25
	COLOR TUNE	RED	Y←→M 0←32→64		YES	25
		GREEN	C←→Y 0←32→64		YES	25
		BLUE	M←→C 0←32→64		YES	25
		YELLOW	G←→R 0←32→64		YES	25
		MAGENTA	R←→B 0←32→64		YES	25
		CYAN	B←→G 0←32→64		YES	25
		RESET	OFF←→ON		YES	25

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
AUDIO	BASS	− ← → + 0←13→26			YES	26
	TREBLE	− ← → + 0←13→26			YES	26
	BALANCE	L←→R -22←0→+22			YES	26
	AUDIO INPUT1	VIDEO 1-2 / DVD/HD 1-4 / PC/RGB			YES	26
	AUDIO INPUT2	VIDEO 1-2 / DVD/HD 1-4 / PC/RGB			YES	26
	AUDIO INPUT3	VIDEO 1-2 / DVD/HD 1-4 / PC/RGB			YES	26
	DVD/HD3 INPUT	INPUT 1-3 / HDMI			YES	26
	DVD/HD4 INPUT	INPUT 1-3 / HDMI			YES	26

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
IMAGE ADJ.	ASPECT MODE	ZOOM/NORMAL/ANAMORPHIC/STADIUM/14:9/2.35:1/UNDERSCAN			—	26
	V-POSITION	− ← → + -64←0→+64			YES	26
	H-POSITION	− ← → + -128←0→+127			YES	26
	V-HEIGHT	− ← → + 0←→64			YES	26
	H-WIDTH	− ← → + 0←→64			YES	26
	AUTO PICTURE	ON←→OFF*2			NO	26
	FINE PICTURE*1	− ← → + *2 0←→64			YES	26
	PICTURE ADJ.*1	− ← → + *2 0←→64			YES	26
	UNDERSCAN	ON←→OFF			YES	26

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
SET UP	LANGUAGE	ENGLISH/DEUTSCH/FRANÇAIS/ESPAÑOL/ITALIANO/SVENSKA/РУССКИЙ/PORTUGUÊS			NO	27
	DVD/HD1 INPUT	COMPONENT			YES	27
	D-SUB INPUT	RGB			YES	27
	HD SELECT	1080I/1035I/540P			NO	27
	RGB SELECT	AUTO			YES	27
	HDMI SET UP	LOW←→HIGH			NO	28
	COLOR SYSTEM	AUTO/3.58NTSC/4.43 NTSC/PAL/PAL 60/PAL-N/PAL-M/SECAM			NO	28
	BACK GROUND	BLACK/GRAY			YES	28
	GRAY LEVEL	0←⋯←3←⋯→15			YES	29
	S1/S2	AUTO←→OFF			YES	29
	DISPLAY OSM	ON←→OFF			YES	29
	OSM ADJ.	TOP LEFT←→TOP CENTER←→TOP RIGHT←→BTM LEFT←→BTM CENTER←→BTM RIGHT			YES	29
	REMOTE ID	ALL←→1←⋯→4			YES	30
	ALL RESET	ON←→OFF			—	30

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
FUNCTION	ADVANCED OSM	ON←→OFF			YES	30
	POWER MGT.	ON←→OFF			YES	30
	INPUT SKIP	ON←→OFF			YES	31
	SUB. PICTURE	SUB. P DETECT	OFF←→AUTO		YES	31
		DISPLAY	FADE←→NORMAL		YES	31
		SUB. P RATE	20%←…→100%		YES	31
	ZOOM NAV	OFF←→S BY S←→BTM LEFT←→BTM RIGHT←→TOP RIGHT←→TOP LEFT			YES	31
	PICTURE FREEZE	OFF←→S BY S1←→S BY S2←→BTM LEFT←→BTM RIGHT←→TOP RIGHT←→TOP LEFT			YES	31
	PDP SAVER	MANUAL/AUTO	PEAK BRIGHT	100%/75%/50%/25%	YES	32
			ORBITER	OFF/AUTO1/AUTO2	YES	32
			INVERSE/WHITE	OFF/INVERSE/WHITE	YES	33
			SCREEN WIPER	ON/OFF	YES	33
			SOFT FOCUS	OFF/LEVEL1-4	YES	33
			OSM ORBITER	ON/OFF	YES	33
			OSM CONTRAST	LOW/NORMAL	YES	33
	CLOSED CAPTION	OFF/CAPTION1-4/TEXT1-4			YES	33
	CAPTION CONT	LOW/NORMAL			YES	34
	PWR. ON MODE	INPUT	LAST / VIDEO 1-2 / DVD/HD 1-4 / PC/RGB / MULTI		YES	34
		VOLUME	LAST←→0←…→42		YES	34

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
SIGNAL INFO.					—	34

*1 Only when AUTO PICTURE is OFF.
*2 PC/RGB only
*3 "LOW TONE" is only for 50 inch type.

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.

```
         PICTURE MEMORY        1 / 2
MEMORY1          SET          RESET
   INPUT : DVD/HD1
   SIGNAL : 480P
   NOTE : DVD/STAR WARS
MEMORY2
   INPUT : —
   SIGNAL : —
   NOTE : —
MEMORY3
   INPUT : —
   SIGNAL : —
   NOTE : —
   ↓ NEXT PAGE
⬍ SEL.   MENU/ENTER OK   EXIT RETURN
```

```
         PICTURE MEMORY        2 / 2
↑ PREVIOUS PAGE
MEMORY4          SET          RESET
   INPUT : —
   SIGNAL : —
   NOTE : —
MEMORY5
   INPUT : —
   SIGNAL : —
   NOTE : —
MEMORY6
   INPUT : —
   SIGNAL : —
   NOTE : —
⬍ SEL.   ◆ ADJ.          EXIT RETURN
```
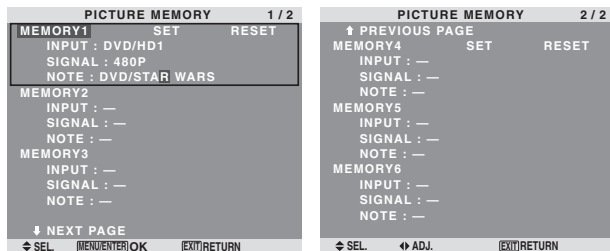
Information

■ 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.

```
              PICTURE
PICTURE MEMORY  : OFF
➔CONTRAST      ⊖—I——⊕ : 52
 BRIGHTNESS    ⊖—I——⊕ : 32
 SHARPNESS     ⊖—I——⊕ : 16
 COLOR         ⊖—I——⊕ : 32
 TINT          R—I—G : 32
 NR             : OFF
 COLOR TEMP.    : MIDDLE
 CINEMA MODE    : ON
 PICTURE MODE   : NORMAL
 GAMMA          : 2.2
 LOW TONE       : MODE1
 SET UP LEVEL   : 0%
 COLOR TUNE
⬍ SEL.   ◆ ADJ.       EXIT RETURN

⬍ CONTRAST    ⊖—I——⊕ : 10
```
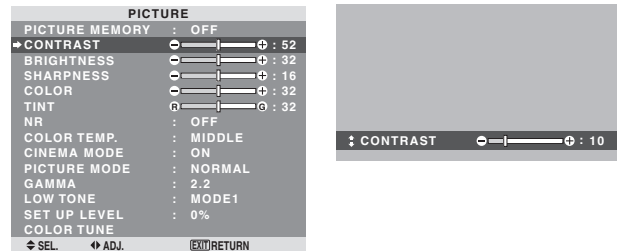
Note: *If "CAN NOT ADJUST" appears ...*
When trying to enter the PICTURE submenu, make sure PICTURE MODE is not set to DEFAULT.

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".

```
              PICTURE
 PICTURE MEMORY  : OFF
 CONTRAST      ⊖—I——⊕ : 52
 BRIGHTNESS    ⊖—I——⊕ : 32
 SHARPNESS     ⊖—I——⊕ : 16
 COLOR         ⊖—I——⊕ : 32
 TINT          R—I—G : 32
➔NR             : ◄OFF►
 COLOR TEMP.    : MIDDLE
 CINEMA MODE    : ON
 PICTURE MODE   : NORMAL
 GAMMA          : 2.2
 LOW TONE       : MODE1
 SET UP LEVEL   : 0%
 COLOR TUNE
⬍ SEL.   ◆ ADJ.       EXIT RETURN

⬍ NR              : ◄NR-3►
```
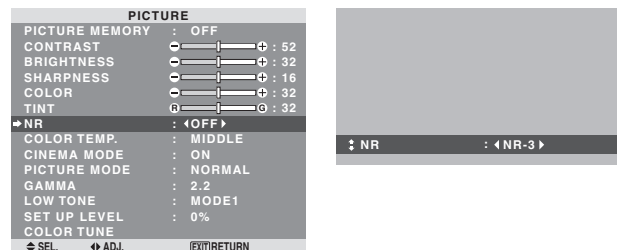
Information

■ 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".

```
                    PICTURE
  PICTURE MEMORY   :  OFF
  CONTRAST              ⊖——|——⊕ : 52
  BRIGHTNESS           ⊖——|——⊕ : 32
  SHARPNESS            ⊖——|——⊕ : 16
  COLOR                ⊖——|——⊕ : 32
  TINT                 R——|——G : 32
  NR               :  OFF
➡ COLOR TEMP.      : ◄HIGH ►
  CINEMA MODE      :  ON
  PICTURE MODE     :  NORMAL
  GAMMA            :  2.2
  LOW TONE         :  MODE1
  SET UP LEVEL     :  0%
  COLOR TUNE
  ⬍ SEL.   ◄►ADJ.      EXIT RETURN
```
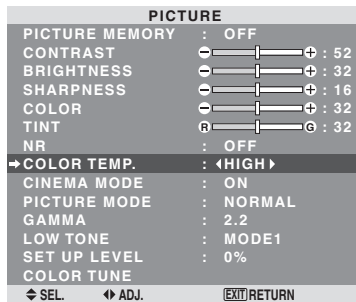
Information
■ **Setting the color temperature**

LOW: More red
MIDDLE LOW: Slightly red
MIDDLE: Standard (slightly bluer)
HIGH: More blue

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.

```
          WHITE BALANCE
        COLOR TEMP. HIGH
➡ GAIN RED       ⊖——|——⊕ : 20
  GAIN GREEN     ⊖——|——⊕ : 40
  GAIN BLUE      ⊖——|——⊕ : 40
  BIAS RED       ⊖——|——⊕ : 40
  BIAS GREEN     ⊖——|——⊕ : 40
  BIAS BLUE      ⊖——|——⊕ : 40
  RESET        :  OFF
  ⬍ SEL.  ◄►ADJ.   EXIT RETURN
```
```
  ⬍ GAIN RED    ⊖——|——⊕ : 20
```
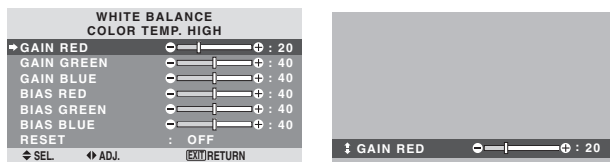
Information
■ **Adjusting the white balance**

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.

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 (60 Hz), 525I (60 Hz), 576I (50 Hz), 625I (50 Hz), 1035I (60 Hz), 1080I (60 Hz) only]

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

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

```
                    PICTURE
  PICTURE MEMORY   :  OFF
  CONTRAST              ⊖——|——⊕ : 52
  BRIGHTNESS           ⊖——|——⊕ : 32
  SHARPNESS            ⊖——|——⊕ : 16
  COLOR                ⊖——|——⊕ : 32
  TINT                 R——|——G : 32
  NR               :  OFF
  COLOR TEMP.      :  MIDDLE
➡ CINEMA MODE      : ◄OFF ►
  PICTURE MODE     :  NORMAL
  GAMMA            :  2.2
  LOW TONE         :  MODE1
  SET UP LEVEL     :  0%
  COLOR TUNE
  ⬍ SEL.   ◄►ADJ.      EXIT RETURN
```
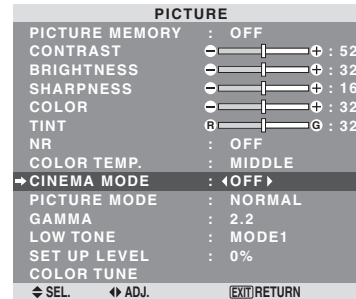
Information
■ **CINEMA MODE**

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".

```
                    PICTURE
  PICTURE MEMORY   :  OFF
  CONTRAST              ⊖——|——⊕ : 52
  BRIGHTNESS           ⊖——|——⊕ : 32
  SHARPNESS            ⊖——|——⊕ : 16
  COLOR                ⊖——|——⊕ : 32
  TINT                 R——|——G : 32
  NR               :  OFF
  COLOR TEMP.      :  MIDDLE
  CINEMA MODE      :  ON
➡ PICTURE MODE     : ◄NORMAL ►
  GAMMA            :  2.2
  LOW TONE         :  MODE1
  SET UP LEVEL     :  0%
  COLOR TUNE
  ⬍ SEL.   ◄►ADJ.      EXIT RETURN
```
```
  ⬍ PICTURE MODE  : ◄THEATER1 ►
```
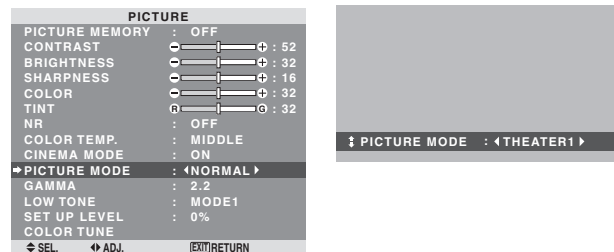
Information
■ **Types of picture modes**

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.
BRIGHT: This mode provides brighter pictures than NORMAL.
This mode provides dynamic pictures with distinct differences between light and dark sections.
DEFAULT: Use this to reset the picture to the factory default settings.
ISF-DAY and ISF-NIGHT: This mode is displayed only when an ISF dealer performs a maintenance. Please contact Marantz America, Inc. for details.

Changing the Gamma Curve

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

Example: Setting "2.3"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

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

```
                PICTURE
PICTURE MEMORY    :  OFF
CONTRAST                        ⊖ ▭▭▭ ⊕ : 52
BRIGHTNESS                      ⊖ ▭▭▭ ⊕ : 32
SHARPNESS                       ⊖ ▭▭▭ ⊕ : 16
COLOR                           ⊖ ▭▭▭ ⊕ : 32
TINT                            ®▭▭▭Ⓖ : 32
NR                :  OFF
COLOR TEMP.       :  MIDDLE
CINEMA MODE       :  ON
PICTURE MODE      :  NORMAL
➡GAMMA            :  ◀2.3▶
LOW TONE          :  MODE1
SET UP LEVEL      :  0%
COLOR TUNE
  ⇕ SEL.    ⬌ ADJ.        EXIT RETURN
```
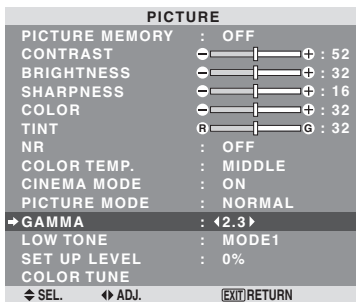
Information
■ GAMMA settings

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

You can select the tone reproduction from 2 modes.
This function is effective especially for dark images.
* This function is available only for 50 inch type.

Example: Setting "MODE2"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

On "LOW TONE" of "PICTURE" menu, select "MODE2".

```
                PICTURE
PICTURE MEMORY    :  OFF
CONTRAST                        ⊖ ▭▭▭ ⊕ : 52
BRIGHTNESS                      ⊖ ▭▭▭ ⊕ : 32
SHARPNESS                       ⊖ ▭▭▭ ⊕ : 16
COLOR                           ⊖ ▭▭▭ ⊕ : 32
TINT                            ®▭▭▭Ⓖ : 32
NR                :  OFF
COLOR TEMP.       :  MIDDLE
CINEMA MODE       :  ON
PICTURE MODE      :  NORMAL
GAMMA             :  2.2
➡LOW TONE         :  ◀MODE2▶
SET UP LEVEL      :  0%
COLOR TUNE
  ⇕ SEL.    ⬌ ADJ.        EXIT RETURN
```
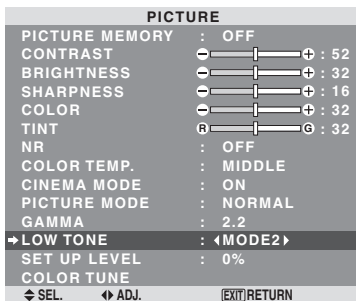
Adjusting the pedestal level (black level)

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

Example: Setting "3.75%"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

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

```
                PICTURE
PICTURE MEMORY    :  OFF
CONTRAST                        ⊖ ▭▭▭ ⊕ : 52
BRIGHTNESS                      ⊖ ▭▭▭ ⊕ : 32
SHARPNESS                       ⊖ ▭▭▭ ⊕ : 16
COLOR                           ⊖ ▭▭▭ ⊕ : 32
TINT                            ®▭▭▭Ⓖ : 32
NR                :  OFF
COLOR TEMP.       :  MIDDLE
CINEMA MODE       :  ON
PICTURE MODE      :  NORMAL
GAMMA             :  2.2
LOW TONE          :  MODE1
➡SET UP LEVEL     :  ◀3.75%▶
COLOR TUNE
  ⇕ SEL.    ⬌ ADJ.        EXIT RETURN
```
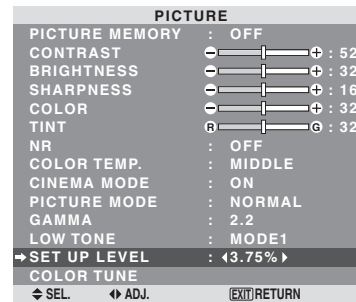
Information
■ SET UP LEVEL settings

0%: Normal status
3.75%: 3.75 % 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 without changing the white point.
You can accentuate the green color of trees, the blue of the sky, etc.

Example: Adjusting the color tune for blue

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

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.

```
              COLOR TUNE
RED                 Ⓨ▭▭▭Ⓜ : 32
GREEN               Ⓒ▭▭▭Ⓨ : 32
➡BLUE               Ⓜ▭▭▭Ⓒ : 20
YELLOW              Ⓖ▭▭▭® : 32
MAGENTA             ®▭▭▭Ⓑ : 32
CYAN                Ⓑ▭▭▭Ⓖ : 32
RESET             :  OFF
  ⇕ SEL.    ⬌ ADJ.        EXIT RETURN
```
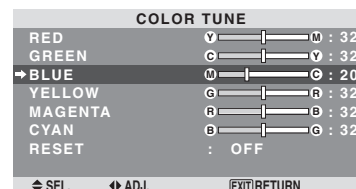
Information
■ COLOR TUNE settings

RED: Adjusts hue of Red
GREEN: Adjusts hue of Green
BLUE: Adjusts hue of Blue
YELLOW: Adjusts hue of Yellow
MAGENTA: Adjusts hue of Magenta
CYAN: Adjusts hue of Cyan
RESET: Resets settings to the factory default value.
Use ◀ and ▶ buttons to select "ON", then press the MENU/ENTER button.

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.

```
                AUDIO
➡ BASS                ⊖——┼—I——⊕ : 23
  TREBLE              ⊖——I——┼—⊕ : 13
  BALANCE            Ⓛ——I——Ⓡ : 0
  AUDIO INPUT1        :   VIDEO1
  AUDIO INPUT2        :   DVD/HD1
  AUDIO INPUT3        :   PC/RGB
  DVD/HD3 INPUT       :   HDMI
  DVD/HD4 INPUT       :   HDMI
  ⬍ SEL.   ⬌ ADJ.      EXIT RETURN
```

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 and DVD/HD connectors
Setting the AUDIO1-3 and DVD/HD3-4 connectors to the desired input.

Example: Setting "AUDIO INPUT1" to "VIDEO2"

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

The available sources depend on the settings of input.

```
                AUDIO
  BASS                ⊖——I——┼—⊕ : 13
  TREBLE              ⊖——I——┼—⊕ : 13
  BALANCE            Ⓛ——I——Ⓡ : 0
➡ AUDIO INPUT1        : ◀VIDEO2▶
  AUDIO INPUT2        :   DVD/HD1
  AUDIO INPUT3        :   PC/RGB
  DVD/HD3 INPUT       :   HDMI
  DVD/HD4 INPUT       :   HDMI
  ⬍ SEL.   ⬌ ADJ.      EXIT RETURN
```
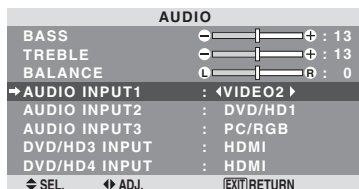
Information
An input cannot be selected as the channel for more than one input terminal.

Image Adjust Settings Menu
Adjusting the Position, Size, Fine Picture, Picture Adj and Underscan
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.

```
        IMAGE ADJUST
  ASPECT MODE      :   NORMAL
➡ V-POSITION          ⊖—I——┼—⊕ : 0
  H-POSITION          ⊖——I—┼—⊕ : 0
  V-HEIGHT            ⊖I——————┼—⊕ : 0
  H-WIDTH             ⊖I——————┼—⊕ : 0
  AUTO PICTURE     :   OFF
  FINE PICTURE        ⊖——————┼—⊕ : 0
  PICTURE ADJ.        ⊖——————┼—⊕ : 0
  UNDERSCAN        :   OFF
  ⬍ SEL.   ⬌ ADJ.      EXIT RETURN
```

```
  V-POSITION    ⊖—I——┼—⊕ : -30
```
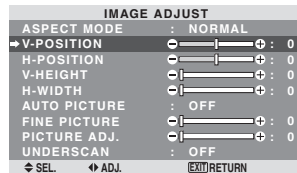
Information
■ When "AUTO PICTURE" is "OFF"

```
        IMAGE ADJUST
➡ ASPECT MODE      : ◀ANAMORPHIC▶
  V-POSITION          ⊖——I—┼—⊕ : 0
  H-POSITION          ⊖——I—┼—⊕ : 0
  V-HEIGHT            ⊖I——————┼—⊕ : 0
  H-WIDTH             ⊖I——————┼—⊕ : 0
  AUTO PICTURE     :   OFF
  FINE PICTURE        ⊖I——————┼—⊕ : 0
  PICTURE ADJ.        ⊖I——————┼—⊕ : 0
  UNDERSCAN        :   OFF
  ⬍ SEL.   ⬌ ADJ.      EXIT RETURN
```
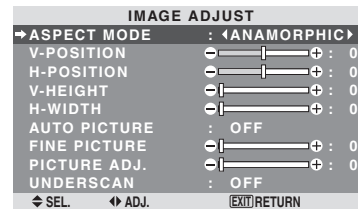
When Auto Picture is off, the Fine Picture and the Picture ADJ. items are displayed so that you can adjust them.

■ Adjusting the Auto Picture
ON: The Picture ADJ., Fine Picture and Position adjustments are made automatically.
Not available for digital ZOOM.
OFF: The Picture ADJ., Fine Picture and Position adjustments are made manually.

* If FINE PICTURE 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.
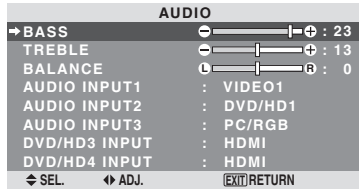H-POSITION: Adjusts the horizontal position of the image.
V-HEIGHT: Adjusts the vertical size of the image. (Not available for STADIUM mode)
H-WIDTH: Adjusts the horizontal size of the image. (Not available for STADIUM mode)
FINE PICTURE*: Adjusts for flickering.
PICTURE ADJ.*: Adjusts for striped patterns on the image (i.e. vertical banding).

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

■ Setting the Underscan
Set "ADVANCED OSM" to "ON" in the FUNCTION menu.
ON: UNDERSCAN can be selected in ASPECT MODE.
OFF: UNDERSCAN cannot be selected in ASPECT MODE.

* Selectable only when video signal is input.

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▶
DVD/HD1 INPUT	:	COMPONENT
D-SUB INPUT	:	RGB
HD SELECT	:	1080I
RGB SELECT	:	AUTO
HDMI SET UP	:	HIGH
COLOR SYSTEM	:	AUTO
BACK GROUND	:	GRAY
GRAY LEVEL	:	3
S1/S2	:	OFF
DISPLAY OSM	:	ON
OSM ADJ.	:	TOP LEFT
REMOTE ID	:	ALL
ALL RESET	:	OFF
◆SEL. ◆ADJ.	EXIT RETURN	

Information

■ Language settings

ENGLISH .... English
DEUTSCH .... German
FRANÇAIS ...... French
ESPAÑOL .... Spanish

ITALIANO .... Italian
SVENSKA ...... Swedish
РУССКИЙ .... Russian
PORTUGUÊS ...... Portuguese

Checking the signal being transmitted to DVD/HD1 terminal

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

Use this to confirm the signal being transmitted to DVD/HD1 terminal.

It is set to COMPONENT and can not be adjusted.

SET UP		
LANGUAGE	:	ENGLISH
➡DVD/HD1 INPUT	:	COMPONENT
D-SUB INPUT	:	RGB
HD SELECT	:	1080I
RGB SELECT	:	AUTO
HDMI SET UP	:	HIGH
COLOR SYSTEM	:	AUTO
BACK GROUND	:	GRAY
GRAY LEVEL	:	3
S1/S2	:	OFF
DISPLAY OSM	:	ON
OSM ADJ.	:	TOP LEFT
REMOTE ID	:	ALL
ALL RESET	:	OFF
CAN NOT ADJUST		

Checking the signal being transmitted to PC/RGB terminal

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

Use this to confirm the signal being transmitted to the PC/RGB terminal.

It is set to RGB and can not be adjusted.

SET UP		
LANGUAGE	:	ENGLISH
DVD/HD1 INPUT	:	COMPONENT
➡D-SUB INPUT	:	RGB
HD SELECT	:	1080I
RGB SELECT	:	AUTO
HDMI SET UP	:	HIGH
COLOR SYSTEM	:	AUTO
BACK GROUND	:	GRAY
GRAY LEVEL	:	3
S1/S2	:	OFF
DISPLAY OSM	:	ON
OSM ADJ.	:	TOP LEFT
REMOTE ID	:	ALL
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"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

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

SET UP		
LANGUAGE	:	ENGLISH
DVD/HD1 INPUT	:	COMPONENT
D-SUB INPUT	:	RGB
➡HD SELECT	:	◀1035I▶
RGB SELECT	:	AUTO
HDMI SET UP	:	HIGH
COLOR SYSTEM	:	AUTO
BACK GROUND	:	GRAY
GRAY LEVEL	:	3
S1/S2	:	OFF
DISPLAY OSM	:	ON
OSM ADJ.	:	TOP LEFT
REMOTE ID	:	ALL
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 "852×480 "

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

On "RGB SELECT" of "SET UP" menu, select "852×480".

SET UP		
LANGUAGE	:	ENGLISH
DVD/HD1 INPUT	:	COMPONENT
D-SUB INPUT	:	RGB
HD SELECT	:	1080I
➡RGB SELECT	:	◀852×480▶
HDMI SET UP	:	HIGH
COLOR SYSTEM	:	AUTO
BACK GROUND	:	GRAY
GRAY LEVEL	:	3
S1/S2	:	OFF
DISPLAY OSM	:	ON
OSM ADJ.	:	TOP LEFT
REMOTE ID	:	ALL
ALL RESET	:	OFF
◆SEL. ◆ADJ.	EXIT RETURN	

Setting the black level for HDMI signal
Set the black level.

Example: Setting the "HDMI SET UP" mode to "LOW"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

On "HDMI SET UP" of "SET UP" menu, select "LOW".

```
               SET UP
  LANGUAGE         :  ENGLISH
  DVD/HD1 INPUT    :  COMPONENT
  D-SUB INPUT      :  RGB
  HD SELECT        :  1080I
  RGB SELECT       :  AUTO
➡ HDMI SET UP      :  ◀LOW ▶
  COLOR SYSTEM     :  AUTO
  BACK GROUND      :  GRAY
  GRAY LEVEL       :  3
  S1/S2            :  OFF
  DISPLAY OSM      :  ON
  OSM ADJ.         :  TOP LEFT
  REMOTE ID        :  ALL
  ALL RESET        :  OFF
  ⬍ SEL.      ◀▶ ADJ.      [EXIT]RETURN
```

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"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

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

```
               SET UP
  LANGUAGE         :  ENGLISH
  DVD/HD1 INPUT    :  COMPONENT
  D-SUB INPUT      :  RGB
  HD SELECT        :  1080I
  RGB SELECT       :  AUTO
  HDMI SET UP      :  HIGH
➡ COLOR SYSTEM     :  ◀3.58NTSC▶
  BACK GROUND      :  GRAY
  GRAY LEVEL       :  3
  S1/S2            :  OFF
  DISPLAY OSM      :  ON
  OSM ADJ.         :  TOP LEFT
  REMOTE ID        :  ALL
  ALL RESET        :  OFF
  ⬍ SEL.      ◀▶ ADJ.      [EXIT]RETURN
```

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"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

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

```
               SET UP
  LANGUAGE         :  ENGLISH
  DVD/HD1 INPUT    :  COMPONENT
  D-SUB INPUT      :  RGB
  HD SELECT        :  1080I
  RGB SELECT       :  AUTO
  HDMI SET UP      :  HIGH
  COLOR SYSTEM     :  AUTO
➡ BACK GROUND      :  ◀BLACK▶
  GRAY LEVEL       :  3
  S1/S2            :  OFF
  DISPLAY OSM      :  ON
  OSM ADJ.         :  TOP LEFT
  REMOTE ID        :  ALL
  ALL RESET        :  OFF
  ⬍ SEL.      ◀▶ ADJ.      [EXIT]RETURN
```

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"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

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

```
              SET UP
 LANGUAGE          :  ENGLISH
 DVD/HD1 INPUT     :  COMPONENT
 D-SUB INPUT       :  RGB
 HD SELECT         :  1080I
 RGB SELECT        :  AUTO
 HDMI SET UP       :  HIGH
 COLOR SYSTEM      :  AUTO
 BACK GROUND       :  GRAY
➡GRAY LEVEL        :  ◀5▶
 S1/S2             :  OFF
 DISPLAY OSM       :  ON
 OSM ADJ.          :  TOP LEFT
 REMOTE ID         :  ALL
 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).

etting the screen size for S1/S2 video input

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

his feature is available only when an S-video signal is nput via the VIDEO2 terminal.

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

et "ADVANCED OSM" to "ON" in the FUNCTION menu.

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

nformation
S1/S2 settings

UTO: Adjusts the screen size automatically according o the S1/S2 video signal.

:   F   F

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

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

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

```
              SET UP
 LANGUAGE          :  ENGLISH
 DVD/HD1 INPUT     :  COMPONENT
 D-SUB INPUT       :  RGB
 HD SELECT         :  1080I
 RGB SELECT        :  AUTO
 HDMI SET UP       :  HIGH
 COLOR SYSTEM      :  AUTO
 BACK GROUND       :  GRAY
 GRAY LEVEL        :  3
 S1/S2             :  OFF
➡DISPLAY OSM       :  ◀OFF▶
 OSM ADJ.          :  TOP LEFT
 REMOTE ID         :  ALL
 ALL RESET         :  OFF
 ⬍ SEL.   ◀▶ ADJ.        EXIT RETURN
```

Information
■ DISPLAY OSM settings

ON: The informations on screen size, volume control, etc. will be shown.

OFF: The informations on screen size, volume control, etc. will not be shown.

The DISPLAY button on the remote control will not function either.

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"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

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

```
              SET UP
 LANGUAGE          :  ENGLISH
 DVD/HD1 INPUT     :  COMPONENT
 D-SUB INPUT       :  RGB
 HD SELECT         :  1080I
 RGB SELECT        :  AUTO
 HDMI SET UP       :  HIGH
 COLOR SYSTEM      :  AUTO
 BACK GROUND       :  GRAY
 GRAY LEVEL        :  3
 S1/S2             :  OFF
 DISPLAY OSM       :  ON
➡OSM ADJ.          :  ◀TOP CENTER▶
 REMOTE ID         :  ALL
 ALL RESET         :  OFF
 ⬍ SEL.   ◀▶ ADJ.        EXIT RETURN
```

Information
■ OSM ADJ. settings

TOP LEFT	TOP CENTER	TOP RIGHT
BTM LEFT	BTM CENTER	BTM RIGHT

Remote ID

Set the remote code to adapt the plasma monitor to the remote control.
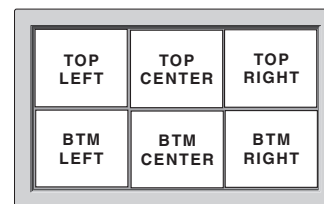
Example: Setting to "1"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

On "REMOTE ID" of "SET UP" menu, select "1".

```
                    SET UP
LANGUAGE         : ENGLISH
DVD/HD1 INPUT    : COMPONENT
D-SUB INPUT      : RGB
HD SELECT        : 1080I
RGB SELECT       : AUTO
HDMI SET UP      : HIGH
COLOR SYSTEM     : AUTO
BACK GROUND      : GRAY
GRAY LEVEL       : 3
S1/S2            : OFF
DISPLAY OSM      : ON
OSM ADJ.         : TOP LEFT
➡REMOTE ID       : ◀1▶
ALL RESET        : OFF
 ⬍ SEL.    ◀▶ ADJ.      EXIT RETURN
```

• Press and hold the POWER ON button, and release the button when the indication saying that the code is set is displayed. Or, press and hold the POWER STANDBY button, and release the button when the power is turned off.

Information

■ REMOTE ID setting

ALL: The remote code is not set.

1 to 4: The specified remote code is applied.

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 21 for items to be reset.

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

```
                    SET UP                      ALL RESET
LANGUAGE         : ENGLISH
DVD/HD1 INPUT    : COMPONENT
D-SUB INPUT      : RGB
HD SELECT        : 1080I
RGB SELECT       : AUTO                       SETTING NOW
HDMI SET UP      : HIGH
COLOR SYSTEM     : AUTO
BACK GROUND      : GRAY
GRAY LEVEL       : 3
S1/S2            : OFF
DISPLAY OSM      : ON
OSM ADJ.         : TOP LEFT
REMOTE ID        : ALL
➡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 menu mode

This allows you to access the complete menu.

Example: Setting "ON"

On "ADVANCED OSM " of "FUNCTION" menu, select "ON ".

```
                    FUNCTION
➡ADVANCED OSM     : ◀ON▶
POWER MGT.        : OFF
INPUT SKIP        : OFF
SUB. PICTURE
ZOOM NAV          : BTM LEFT
PICTURE FREEZE    : S BY S1
PDP SAVER         : MANUAL
CLOSED CAPTION    : OFF
CAPTION CONT      : LOW
PWR. ON MODE
 ⬍ SEL.    ◀▶ ADJ.      EXIT RETURN
```

Information

■ ADVANCED OSM settings

ON: All of the menu items are available for advanced users.

OFF: Some of the menu items are not available (e.g.FUNCTION).

Setting the power management for computer images

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

Example: Turning the power management function on

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

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

```
                    FUNCTION
ADVANCED OSM      : OFF
➡POWER MGT.       : ◀ON▶
INPUT SKIP        : OFF
SUB. PICTURE
ZOOM NAV          : BTM LEFT
PICTURE FREEZE    : S BY S1
PDP SAVER         : MANUAL
CLOSED CAPTION    : OFF
CAPTION CONT      : LOW
PWR. ON MODE
 ⬍ 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 ON/ STANDBY indicator

The ON/STANDBY indicator indicates the status of the power management function. See page 31 for indicator status and description.

ON/STANDBY indicator

Power management mode	ON/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/EXIT button on the unit.

Example: Set to "ON"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.
On "INPUT SKIP" of "FUNCTION" menu, select "ON".

```
              FUNCTION
  ADVANCED OSM       :   OFF
  POWER MGT.         :   OFF
➡ INPUT SKIP        : ◀ON▶
  SUB. PICTURE
  ZOOM NAV           :   BTM LEFT
  PICTURE FREEZE     :   S BY S1
  PDP SAVER          :   MANUAL
  CLOSED CAPTION     :   OFF
  CAPTION CONT       :   LOW
  PWR. ON MODE

  ⬍ 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.

Removing the sub screen area when there is no input signal detected for the sub screen

This function automatically removes 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: Setting "DISPLAY" to "FADE"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.
On "SUB. PICTURE" of "FUNCTION" menu, press the MENU/ENTER button.

The "SUB. PICTURE" screen appears.

Adjust the items.

```
            SUB. PICTURE
  SUB. P DETECT     :   AUTO
➡ DISPLAY          : ◀FADE      ▶
  SUB. P RATE       :   100%

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

Information
■ SUB. PICTURE Function

* 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 setting

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

OFF: Turns off the SUB. PICTURE function.

■ DISPLAY setting

NORMAL: The sub screen is displayed consistently.
FADE: The sub screen fades in.

■ SUB. P RATE setting

Set the transparency of the sub screen.

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"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.
On "ZOOM NAV" of "FUNCTION" menu, select "S BY S".

```
              FUNCTION
  ADVANCED OSM       :   OFF
  POWER MGT.         :   OFF
  INPUT SKIP         :   OFF
  SUB. PICTURE
➡ ZOOM NAV          : ◀S BY S▶
  PICTURE FREEZE     :   S BY S1
  PDP SAVER          :   MANUAL
  CLOSED CAPTION     :   OFF
  CAPTION CONT       :   LOW
  PWR. ON MODE

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

Information
■ ZOOM NAV Function

* 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.

Side-by-Side   Picture-in-Picture

Zoom+/- button

SINGLE button
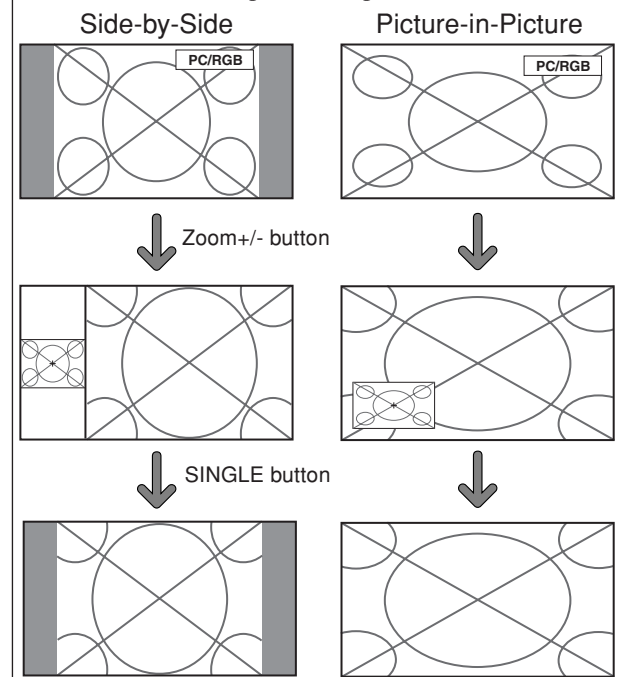
Displaying still images in the sub screen

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"

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Set "ADVANCED OSM" to "ON" in the FUNCTION menu.
On "PICTURE FREEZE" of "FUNCTION" menu, select "BTM LEFT".

```
            FUNCTION
ADVANCED OSM    :  OFF
POWER MGT.      :  OFF
INPUT SKIP      :  OFF
SUB. PICTURE
ZOOM NAV        :  BTM LEFT
➡PICTURE FREEZE :  ◀BTM LEFT▶
PDP SAVER       :  MANUAL
CLOSED CAPTION  :  OFF
CAPTION CONT    :  LOW
PWR. ON MODE

  ⬍ SEL.    ⬌ ADJ.        EXIT RETURN
```

Information
■ PICTURE FREEZE Function
* 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.

Side-by-Side	Picture-in-Picture
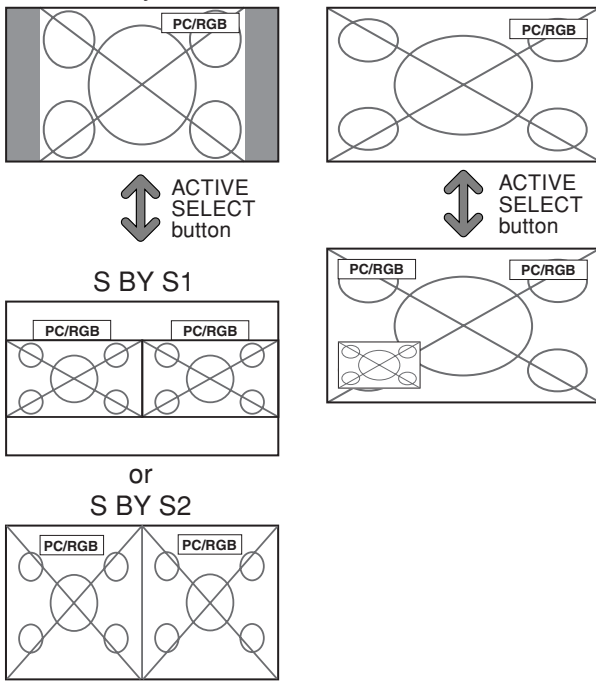
Reducing image retention
The brightness of the screen, the position of the picture, positive/negative mode and screen wiper are adjusted to reduce image retention.
Set "ADVANCED OSM" to "ON" in the FUNCTION menu.
On "PDP SAVER" of "FUNCTION" menu, select "MANUAL", then press the MENU/ENTER button.
The "PDP SAVER" screen appears.

```
            PDP SAVER
➡PEAK BRIGHT   :  ◀100%▶
ORBITER        :  AUTO1
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: AUTO1 or AUTO2
INVERSE/WHITE: OFF
SCREEN WIPER: OFF
SOFT FOCUS: OFF
OSM ORBITER: ON
OSM 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        :  AUTO1
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 "AUTO2"
On "ORBITER" of "PDP SAVER" menu, select "AUTO2".

```
            PDP SAVER
PEAK BRIGHT    :  100%
➡ORBITER       :  ◀AUTO2▶
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 PC/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 signal is input. Set to "OFF" when these signals are not used.
AUTO2: The picture moves around the screen

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intermittently, making the picture bigger.

* When a Video or a DVD/HD 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          :  AUTO1
➡ 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          :  AUTO1
  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          :  AUTO1
  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          :  AUTO1
  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          :  AUTO1
  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 in the active video.

Example: Setting "CAPTION2"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

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

```
                FUNCTION
  ADVANCED OSM     :  OFF
  POWER MGT.       :  OFF
  INPUT SKIP       :  OFF
  SUB. PICTURE
  ZOOM NAV         :  BTM LEFT
  PICTURE FREEZE   :  S BY S1
  PDP SAVER        :  MANUAL
➡ CLOSED CAPTION   : ◀CAPTION2▶
  CAPTION CONT     :  LOW
  PWR. ON MODE

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

Reducing the brightness of Closed Caption

Use this to reduce the brightness of Closed Caption.

Example: Setting "NORMAL"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

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

```
                 FUNCTION
ADVANCED OSM       :  OFF
POWER MGT.         :  OFF
INPUT SKIP         :  OFF
SUB. PICTURE
ZOOM NAV           :  BTM LEFT
PICTURE FREEZE     :  S BY S1
PDP SAVER          :  MANUAL
CLOSED CAPTION     :  OFF
➡ CAPTION CONT     : ◀ NORMAL ▶
PWR. ON MODE

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

Setting the power on mode

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

Example: Setting the input mode to "VIDEO2"

Set "ADVANCED OSM" to "ON" in the FUNCTION menu.

On "FUNCTION" menu, select "PWR.ON MODE ", then
press the MENU/ENTER button.
The "PWR.ON MODE " screen appears.
On "INPUT " of "PWR. ON MODE " menu, select
"VIDEO2".
The available inputs depend on the setting of input.

```
              PWR. ON MODE
➡ INPUT            : ◀ VIDEO2 ▶
VOLUME             :  22
  ⬍ SEL.    ◀▶ ADJ.    [EXIT] RETURN
```

The "MULTI SCREEN SETTING " will appear on
the screen.
• Use the ▲ and ▼ buttons to select "MULTI MODE ",
  then use the ◀ and ▶ buttons to choose from "SIDE
  BY SIDE1~3" and "PICTURE IN PICTURE
  (BOTTOM LEFT~TOP LEFT)".
• Use the ▲ and ▼ buttons to select "MAIN "/"SUB "
  and "LEFT "/"RIGHT ", then use the ◀ and ▶ buttons
  to choose from "VIDEO1~2 ", "DVD/HD1~4 " and
  "PC/RGB ".

PICTURE IN PICTURE   SIDE BY SIDE

```
        PWR. ON MODE                    PWR. ON MODE
   MULTI SCREEN SETTING            MULTI SCREEN SETTING
➡ MULTI MODE                    ➡ MULTI MODE
  : ◀ BOTTOM RIGHT ▶              : ◀ SIDE BY SIDE1 ▶
INPUT MODE                      INPUT MODE
  MAIN       : VIDEO1             LEFT      : VIDEO1
  SUB        : DVD/HD1            RIGHT     : DVD/HD1

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

■ VOLUME settings

LAST: Last mode (the volume that was last selected at
the time the power was switched off).
0 to 42: The level of sound volume.

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
              [EXIT]RETURN
```

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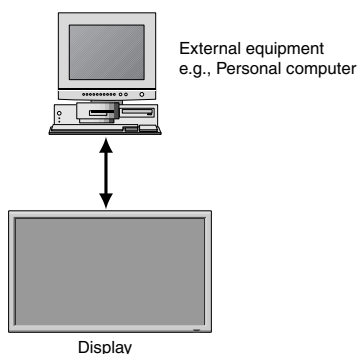Others: MODE will be displayed.

External Control

Application

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

## Connections

Connections are made as described below.

External equipment
e.g., Personal computer

Display

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

Type of connector: D-Sub 9-pin male

Pin No.	Pin Name	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		
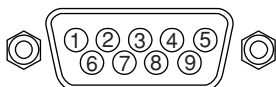
Communication Parameters

|		
(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 (RCA)	DFH	80H	60H	47H	01H	01H	08H	
	Video2 (S-Video)	DFH	80H	60H	47H	01H	02H	09H	
	DVD/HD1 (RCA)	DFH	80H	60H	47H	01H	05H	0CH	
	DVD/HD2 (RCA)	DFH	80H	60H	47H	01H	06H	0DH	
	DVD/HD3 (HDMI)	DFH	80H	60H	47H	01H	0EH	15H	
	PC/RGB (mini D-sub 15-pin)	DFH	80H	60H	47H	01H	07H	0EH	
	DVD/HD4 (HDMI)	DFH	80H	60H	47H	01H	1AH	21H	
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	
	UNDERSCAN	DFH	80H	60H	51H	01H	08H	19H	
	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	

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

Pin Assignments

mini D-Sub 15-pin connector (Analog)

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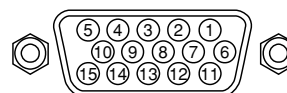
Pin No.	Signal (Analog)
1	Red
2	Green or sync-on-green
3	Blue
4	No connection
5	Ground
6	Red ground
7	Green ground
8	Blue ground
9	No connection
10	Sync signal ground
11	No connection
12	Bi-directional DATA (SDA)
13	Horizontal sync or Composite sync
14	Vertical sync
15	Data clock

1/8 Stereo Mini Jack (not supplied) for REMOTE IN/OUT

Plasma monitor REMOTE IN

GND   DATA (DC +5 V)   VDD (DC +3 V)
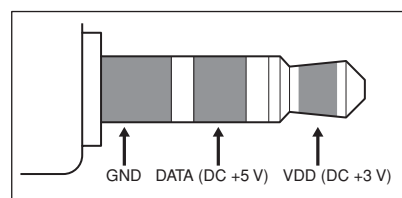
Plasma monitor REMOTE OUT

GND   DATA (C-MOS DC +5 V)
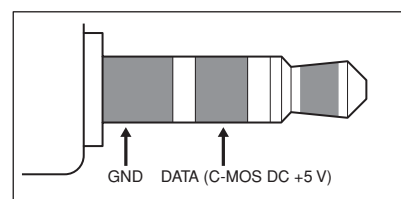
Connection with STB

Following is the connection example of STB (Set-top Box) using the REMOTE IN/OUT connectors of the plasma monitor. Consult your dealer about the actual connection and operation.

* Connection Example
• STB has the REMOTE IN connector.
• The pin assignment of the REMOTE IN connector of STB is same as that of 1/8 stereo mini cable connected to the REMOTE OUT connector (Page 35).
• The transmit frequency of the remote control of STB is 37.9 kHz (Typical).

Connection Example: Connecting an STB

PLASMA DISPLAY

Video cable

IN

OUT   STB

OUT   IN

Remote cable*

STB
Remote Control
Carrier fHz: 37.9 kHz (Typical)
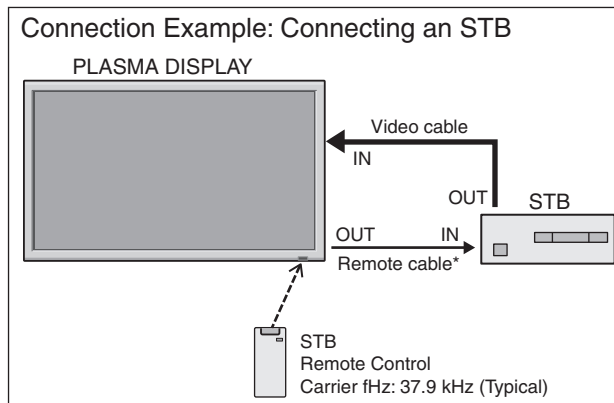
* The 1/8 Stereo Mini cable must be purchased separately.

Troubleshooting

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

Symptom	Checks	Remedy
The unit emits a crackling sound.	• Are the image and sound normal?	• If there are no abnormalities in the image and sound, the noise is caused by the cabinet reacting to changes in temperature. This will not affect performance.
Picture is disturbed. Sound is noisy. Remote control operates erroneously.	• Is a connected component set directly in front or at the side of the display?	• Leave some space between the display and the connected components.
The remote control does not work.	• Are the remote control's batteries worn out?	• Replace both batteries with new ones.
Monitor's power does not turn on when the remote control's power button is pressed.	• Is the monitor's power cord plugged into a power outlet?	• Plug the monitor's power cord into a power outlet.
	• Are all the monitor's indicators off?	• Press the power button on the monitor to turn on the power.
	• Are the remote control's batteries worn out?	• Replace both batteries with new ones.
Monitor does not operate when the remote control's buttons are pressed.	• Is the remote control pointed at the monitor, or is there an obstacle between the remote control and the monitor?	• Point the remote control at the monitor's remote control sensor when pressing buttons, or remove the obstacle.
	• Is direct sunlight or strong artificial light shining on the monitor's remote control sensor?	• Eliminate the light by closing curtains, pointing the light in a different direction, etc.
	• Are the remote control's batteries worn out?	• Replace both batteries with new ones.
No sound or picture is produced.	• Is the monitor's power cord plugged into a power outlet?	• Plug the monitor's power cord into a power outlet.
Picture appears but no sound is produced.	• Is the volume set at the minimum?	• Increase the volume.
	• Is the mute mode set?	• Press the remote control's MUTE button.
	• Are the speakers properly connected?	• Connect the speakers properly.
	• Is AUDIO INPUT set correctly?	• Set AUDIO INPUT on the AUDIO menu correctly.
Poor picture with VIDEO signal input.	• Improper control setting. Local interference. Cable interconnections. Input impedance is not correct level.	• Adjust picture control as needed. Try another location for the monitor. Be sure all connections are secure.
Poor picture with RGB signal input.	• Improper control setting. Incorrect 15 PIN connector pin connections.	• Adjust picture controls as needed. Check pin assignments and connections.
Tint is poor or colors are weak.	• Are the tint and colors properly adjusted?	• Adjust the tint and color (under PICTURE).
Nothing appears on screen.	• Is the computer's power turned on?	• Turn on the computer's power.
	• Is a source connected?	• Connect source to the monitor.
	• Is the power management function in the standby or off mode?	• Operate the computer (move the mouse, etc.).
Part of picture is cut off or picture is not centered.	• Is the position adjustment appropriate?	• Adjust the IMAGE ADJUST properly.
Image is too large or too small.	• Is the screen size adjustment appropriate?	• Press the WIDE button on the remote control and adjust properly.
Picture is unstable.	• Is the computer's resolution setting appropriate?	• Set to the proper resolution.
ON/STANDBY indicator is lighted in red.	• Horizontal and / or vertical sync signal is not present when the Intelligent Power Manager control is on.	• Check the input signal.
ON/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.
ON/STANDBY indicator is blinking in green and red, or green.	————	• Prompty switch off the power of the main unit. See *2.

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

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

NOTE: Pixel defect

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

Specifications: PD4201

Screen Size	36.3 inches(H)×20.3 inches(V) 921.6 mm(H)×515.3 mm(V) diagonal 42 inches
Aspect Ratio	16 : 9
Resolution	1024 pixels(H)×768 pixels(V)
Pixel Pitch	0.036 inches(H)×0.027 inches(V) 0.9 mm(H)×0.671 mm(V)

Signals

Synchronization Range	Horizontal : 15.5 kHz to 110.0 kHz (automatic : step scan) Vertical : 50.0 Hz to 120.0 Hz (automatic : step scan)
Input Signals	RGB, NTSC (3.58/4.43), PAL (B,G,M,N), PAL60, SECAM, HD*[1], DVD*[1]

Input Terminals

PC/RGB

Visual 1 (Analog)	mini D-sub 15-pin×1

Video

Visual 1	RCA×1
Visual 2	S-Video: DIN 4-pin×1

DVD/HD

Visual 1	RCA-pin (Y, Cb/Pb, Cr/Pr)×1*[1]
Visual 2	RCA-pin (Y, Cb/Pb, Cr/Pr)×1*[1]
HDMI	HDMI connector×2*[2]

Audio	Stereo RCA×3 (Selectable)
External Control	D-sub 9-pin×1 (RS-232C)
Remote In	Mini jack×1
Remote Out	Mini jack×1
Sound output	8 W+8 W at 6 ohm
Power Supply	AC100 V to 240 V 50 Hz/60 Hz
Current Rating	4.5 A (maximum)
Power Consumption	285 W (typical)
Dimensions	40.2 inches(W)×24 inches(H)×3.9 inches(D) 1022 mm(W)×610 mm(H)×98 mm(D)
Weight	59.5 lbs / 27 kg (without stand)

Environmental Considerations

Operating	Temperature	0 °C to 35 °C / 32 °F to 95 °F
	Humidity	20 % to 80 % (no condensation)
Storage	Temperature	-10 °C to 50 °C / 14 °F to 122 °F
	Humidity	10 % to 90 % (no condensation)

Other Features	Motion compensated 3D Scan Converter (NTSC, PAL, 480I, 576I, 525I, 625I, 1035I, 1080I), 2-3 pull down Converter (NTSC, 480I, 525I, 1035I, 1080I (60 Hz)), 2-2 pull down Converter (PAL, 576I, 625I, NTSC, 480I, 525I), Digital Zooming (100 % to 900 % Selectable), Self Diagnosis via RS232C, PDP Saver (PEAK BRIGHT, ORBITER, INVERSE, WHITE, SCREEN WIPER, SOFT FOCUS, etc.), Color Temperature Select (high/middle/middle low/low, user has 4 memories), Auto Picture Adjust, Input Skip, Color Tune, Gamma Correction (4 modes), Plug and play (DDC1, DDC2b, HDMI: E-DDC), Enhanced Split Screen, etc.
Accessories	Power cord (×1), Remote control (×1), AAA batteries (×2), Manuals (User guide), Ferrite cores for power cord (×2), bands for power code (×2), Cable clampers (×3), beads bands (×3), Ferrite core for remote cable (×2), Warranty card
Regulations	UL 60065, CAN/CSA-C22.2 No.60065-03, FCC class B, ICES-003 class B

Units are in inch (mm)
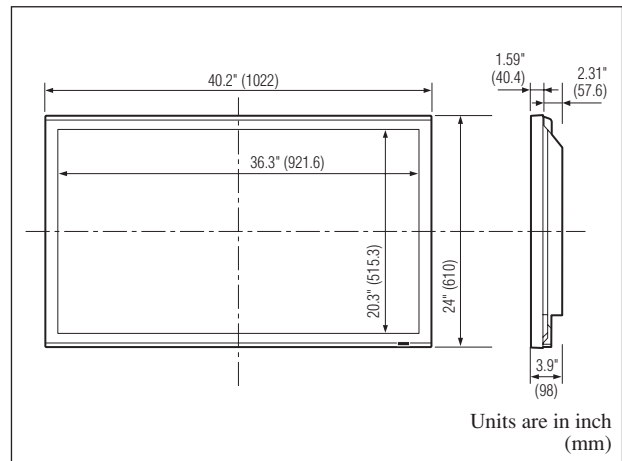
The features and specifications may be subject to change without notice.

*[1] DVD/HD input signals supported on this system.

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

*[2] HDMI input signals supported on this system.
Supported Signals

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

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

Table of Signals Supported

Supported resolution: PD4201

- When the screen mode is NORMAL, each signal is converted to a 768 dots×768 lines signal. (Except for *³)
- When the screen mode is ANAMORPHIC, each signal is converted to a 1024 dots×768 lines signal.

Computer input signals supported by this system

Model / Signal Type	Dots × lines	Vertical frequency (Hz)	Horizontal frequency (kHz)	Sync Polarity Horizontal	Vertical	Presence Horizontal	Vertical	Screen mode NORMAL (4:3)	ANAMORPHIC (16:9)	RGB select*⁴	Memory
NEC PC-9800	640×400	70.1	31.5	NEG	NEG	YES	YES	– –	YES	– –	4
	720×400	70.1	31.5	NEG	NEG	YES	YES	– –	YES	720×400	82
IBM PC/AT compatible computers	640×480	59.9	31.5	NEG	NEG	YES	YES	YES	YES	640×480	5
		72.8	37.9	NEG	NEG	YES	YES	YES	YES	– –	7
		75.0	37.5	NEG	NEG	YES	YES	YES	YES	– –	8
		85.0	43.3	NEG	NEG	YES	YES	YES	YES	– –	9
		100.4	51.1	NEG	NEG	YES	YES	YES	YES	– –	41
		120.4	61.3	NEG	NEG	YES	YES	YES	YES	– –	42
	720×400	85.1	37.9	NEG	POS	YES	YES	– –	YES	– –	73
	848×480	60.0	31.0	POS	POS	YES	YES	– –	YES	848×480	19
	852×480*¹	60.0	31.7	NEG	NEG	YES	YES	– –	YES	852×480	17
	800×600	56.3	35.2	POS	POS	YES	YES	YES	YES	800×600	11
		60.3	37.9	POS	POS	YES	YES	YES	YES	– –	12
		72.2	48.1	POS	POS	YES	YES	YES	YES	– –	13
		75.0	46.9	POS	POS	YES	YES	YES	YES	– –	14
		85.1	53.7	POS	POS	YES	YES	YES	YES	– –	15
		99.8	63.0	POS	POS	YES	YES	YES	YES	– –	43
		120.0	75.7	POS	POS	YES	YES	YES	YES	– –	44
	1024×768	60.0	48.4	NEG	NEG	YES	YES	YES	YES*²	1024×768	24
		70.1	56.5	NEG	NEG	YES	YES	YES	YES*²	1024×768	25
		75.0	60.0	POS	POS	YES	YES	YES	YES*²	1024×768	26
		85.0	68.7	POS	POS	YES	YES	YES	YES*²	– –	27
		100.6	80.5	NEG	NEG	YES	YES	YES	YES*²	– –	45
		119.4	95.5	NEG	NEG	YES	YES	YES	YES*²	– –	46
	1152×864	75.0	67.5	POS	POS	YES	YES	YES	YES	1152×864	51
		60.0	53.7	POS	NEG	YES	YES	YES	YES	1152×864	84
		72.0	64.9	POS	NEG	YES	YES	YES	YES	– –	85
	1280×768	56.2	45.1	POS	POS	YES	YES	– –	YES	1280×768	52
		59.8	48.0	POS	NEG	YES	YES	– –	YES	1280×768	80
		69.8	56.0	NEG	POS	YES	YES	– –	YES	1280×768	66
	1280×800*⁷	59.8	49.7	NEG	POS	YES	YES	– –	YES	1280×800	21
	1280×854	60.0	53.1	NEG	NEG	YES	YES	– –	YES	1280×854	37
	1280×960	60.0	60.0	POS	POS	YES	YES	YES	YES	– –	63
		85.0	85.9	POS	POS	YES	YES	YES	YES	– –	64
	1360×765	60.0	47.7	POS	POS	YES	YES	– –	YES	1360×765	22
	1360×768	60.0	47.7	POS	POS	YES	YES	– –	YES	1360×768	22
	1376×768	59.9	48.3	NEG	POS	YES	YES	– –	YES	1376×768	53
	1280×1024	60.0	64.0	POS	POS	YES	YES	YES*³	YES	1280×1024	29
		75.0	80.0	POS	POS	YES	YES	YES*³	YES	– –	30
		85.0	91.1	POS	POS	YES	YES	YES*³	YES	– –	40
		100.1	108.5	POS	POS	YES	YES	YES*³	YES	– –	47
	1400×1050*⁷	60.0	65.3	NEG	POS	YES	YES	YES	YES	1400×1050	131
		74.9	82.3	NEG	POS	YES	YES	YES	YES	– –	71
		85.0	93.9	NEG	POS	YES	YES	YES	YES	– –	72
	1680×1050*⁷	60.0	65.3	NEG	POS	YES	YES	– –	YES	1680×1050	38
	1600×1200	60.0	75.0	POS	POS	YES	YES	YES	YES	1600×1200	54
		65.0	81.3	POS	POS	YES	YES	YES	YES	– –	55
		70.0	87.5	POS	POS	YES	YES	YES	YES	– –	56
		75.0	93.8	POS	POS	YES	YES	YES	YES	– –	57
		85.0	106.3	POS	POS	YES	YES	YES	YES	– –	58
	1920×1200*⁷	59.9	74.6	NEG	POS	YES	YES	– –	YES	1920×1200	81
	1920×1200RB*⁷	60.0	74.0	NEG	POS	YES	YES	– –	YES	1920×1200RB	88
Apple Macintosh*⁵	640×480	66.7	35.0	Sync on G	Sync on G	– –	– –	YES	YES	– –	6
	832×624	74.6	49.7	Sync on G	Sync on G	– –	– –	YES	YES	– –	16
	1024×768	74.9	60.2	Sync on G	Sync on G	– –	– –	YES	YES*²	– –	28
	1152×870	75.1	68.7	Sync on G	Sync on G	– –	– –	YES	YES	– –	39
	1440×900*⁷	59.9	55.9	NEG	POS	YES	YES	– –	YES	– –	89

Model		Dots × lines	Vertical frequency (Hz)	Horizontal frequency (kHz)	Sync Polarity		Presence		Screen mode		RGB select*4	Memory
Model	Signal Type				Horizontal	Vertical	Horizontal	Vertical	NORMAL (4:3)	ANAMORPHIC (16:9)		
Work Station (EWS4800)		1280×1024	60.0	64.6	NEG	NEG	YES	YES	YES*3	YES	1280×1024	29
Work Station (EWS4800)			71.2	75.1	NEG	NEG	YES	YES	YES*3	YES	––	48
Work Station (HP)		1280×1024	72.0	78.1	––	––	––	––	YES*3	YES	––	59
Work Station (SUN)		1152×900	66.0	61.8	C Sync	C Sync	––	––	YES	YES	––	60
Work Station (SUN)			76.0	71.7	C Sync	C Sync	––	––	YES	YES	––	61
Work Station (SUN)		1280×1024	76.1	81.1	C Sync	C Sync	––	––	YES*3	YES	––	30
Work Station (SGI)		1024×768	60.0	49.7	––	––	––	––	YES	YES*2	1024×768	62
Work Station (SGI)		1280×1024	60.0	63.9	––	––	––	––	YES*3	YES	1280×1024	29
IDC-3000G												
	PAL625P	768×576	50.0	31.4	NEG	NEG	YES	YES	YES*6	YES*6	––	31
	NTSC525P	640×480	59.9	31.5	NEG	NEG	YES	YES	YES*6	YES*6	525P	32

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

*2 The picture is displayed in the original resolution. The picture will be compressed for other signals.

*3 Aspect ratio is 5:4. This signal is converted to a 720 dots×768 lines signal.

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

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

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

*7 CVT standard compliant.

NOTE:

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

- "IBM PC/AT" and "XGA" are registered trademarks of International Business Machines, Inc. of the United States.
- "Apple Macintosh" is a registered trademark of Apple Computer, Inc. of the United States.

DECLARATION OF CONFORMITY

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

U.S. Responsible Party:	**Marantz America, Inc.**
Address:	**100 Corporate Drive, Mahwah, NJ, 07430, U.S.A.**
Tel. No.:	**630-741-0300**

Type of Product: Plasma Monitor

Equipment Classification: Class B Peripheral

Models: PD4201

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

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You can find your nearest authorized distributor or dealer on our website.

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