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Operating Instructions
Mode d’emploi
Bedienungsanleitung
Istruzioni per l’uso
Gebruiksaanwijzing
Manual de instrucciones
Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel.

**IMPORTANT: THE MOULDED PLUG**

This appliance is supplied with a moulded three pin mains plug for your safety and convenience. A 13 amp fuse is fitted in this plug. Should the fuse need to be replaced, please ensure that the replacement fuse has a rating of 13 amps and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark 📍 or the BSI mark 📍 on the body of the fuse.

If the plug contains a removable fuse cover, you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover the plug must not be used until a replacement cover is obtained. A replacement fuse cover can be obtained from your local dealer.

If the fitted moulded plug is unsuitable for your socket outlet, then the fuse shall be removed and the plug cut off and disposed of safely. There is a danger of severe electrical shock if the cut off plug is inserted into any 13 amp socket.

If a new plug is to be fitted, please observe the wiring code as shown below. If in any doubt, please consult a qualified electrician.

**WARNING:** THIS APPARATUS MUST BE EARTHED.

**IMPORTANT:** The wires in this mains lead are coloured in accordance with the following code:

- Green & Yellow : Earth
- Blue : Neutral
- Brown : Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

- The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol 🌘 or coloured GREEN or GREEN-AND-YELLOW.
- The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.
- The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

**How to replace the fuse:** Open the fuse compartment with a screwdriver and replace the fuse.
IMPORTANT

The lightning flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

WARNING

This apparatus must be earthed.

The following symbols are found on labels attached to the product. They alert the operators and service personnel of this equipment to any potentially dangerous conditions.

CAUTION

RISK OF ELECTRIC SHOCK

DO NOT OPEN

CAUTION:

TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING

This equipment is not waterproof. To prevent a fire or shock hazard, do not place any container filled with liquid near this equipment (such as a vase or flower pot) or expose it to dripping, splashing, rain or moisture.

D3-4-2-1-3_A_En

WARNING

This symbol refers to a hazard or unsafe practice which can result in personal injury or property damage.

CAUTION

This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.

WARNING

The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit will be used meets the required voltage (e.g., 230 V or 120 V) written on the rear panel.

D3-4-2-1-4_A_En

WARNING

Before plugging in for the first time, read the following section carefully.

The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit will be used meets the required voltage (e.g., 230 V or 120 V) written on the rear panel.

D3-4-2-1-7a_A_En

WARNING

This apparatus must be earthed.

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.

D3-4-2-1-6_A_En

The following symbols are found on labels attached to the product. They alert the operators and service personnel of this equipment to any potentially dangerous conditions.

WARNING

Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product, and to protect it from overheating. To prevent fire hazard, the openings should never be blocked or covered with items (such as newspapers, table-cloths, curtains) or by operating the equipment on thick carpet or a bed.

CAUTION

The POWER switch on this unit will not completely shut off all power from the AC outlet. Since the power cord serves as the main disconnect device for the unit, you will need to unplug it from the AC outlet to shut down all power. Therefore, make sure the unit has been installed so that the power cord can be easily unplugged from the AC outlet in case of an accident. To avoid fire hazard, the power cord should also be unplugged from the AC outlet when left unused for a long period of time (for example, when on vacation).

D3-4-2-2-2a_A_En

STANDBY/ON Button

STANDBY: When placed into the standby mode, the main power flow is cut and the unit is no longer fully operational.

STANDBY/ON Indicator

The indicator is lit red when the unit is in the standby mode and is lit blue when it is in the power-on mode.
Thank you for buying this Pioneer product.

Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.

In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.

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In order to obtain maximum enjoyment from this Pioneer PureVision PDP-5000EX Plasma Display, please first read this information carefully.

With the Pioneer PureVision PDP-5000EX, you can be assured of a high quality Plasma Display with long-life and high reliability. To achieve images of exceptional quality, this Pioneer Plasma Display incorporates state-of-the-art design and construction, as well as very precise and highly advanced technology.

The Pioneer PureVision PDP-5000EX incorporates the latest in color filter technology – Direct Color Filter. This improves the color/picture reproduction of these models as compared to previous models. It also eliminates the need for a physical glass panel to be placed in front of the plasma panel, which furthers Pioneer’s continued goal of reducing environmental waste in consumer electronics, now during the manufacturing process and in the future during the recycling process.

Over the course of its lifetime, the luminosity of the Pioneer PDP-5000EX Plasma Display will diminish very slowly, such as with all phosphor-based screens (for example, a traditional tube-type television). To enjoy beautiful and bright images on your Pioneer Plasma Display for a long time, please carefully read and follow the usage guidances below:

Usage guidelines
All phosphor-based screens (including conventional tube-type televisions) can be affected by displaying static images for a prolonged period. Plasma Display’s are no exception to this rule. After-image and permanent effects on the screen can be avoided by taking some basic precautions. By following the recommendations listed below, you can ensure longer and satisfactory results from your plasma:

• Whenever possible, avoid frequently displaying the same image or virtually still moving pictures (e.g. closed-captioned images or video game images which have static portions).
• Avoid viewing the On Screen Display for extended periods, from a decoder, DVD player, VCR and all other components.
• Do not leave the same picture freeze-framed or paused continuously over a long period of time, when using the still picture mode from a TV, VCR, DVD player or any other component.
• Images which have both very bright areas and very dark areas side by side should not be displayed for a prolonged period of time.
• When playing a game, the “GAME” mode setting within “AV Selection” is strongly recommended. However, please limit its use to less than 2 hours at a time.
• After playing a game, or displaying a PC image or any still image, it is best to view a normal moving picture in the “WIDE” or “FULL” screen setting for more than 3 times the length of the previous still moving image.
• After using the Plasma Display, always switch the display to “STANDBY” mode.

Installation guidelines
The Pioneer PureVision PDP-5000EX Plasma Display incorporates a very thin design. To ensure safety, please take the proper measures to mount or install the Plasma Display, in order to prevent the unit from tipping over in the event of vibration or accidental movement.

This product should be installed by using only parts and accessories designed by PIONEER. Use of accessories other than the PIONEER stand or installation bracket may result in instability, and could cause injury. For custom installation, please consult the dealer where the unit was purchased. To ensure correct installation, experienced and qualified experts must install the unit. PIONEER will not be held responsible for accident or damage caused by the use of parts and accessories manufactured by other companies.

To avoid malfunction and overheating, make sure that the vents on the main unit are not blocked when installing to ensure proper heat emission:

• Distance the unit slightly from other equipment, walls, etc. For the minimum space required around the unit, see page 16.
• Do not fit the unit inside narrow spaces where ventilation is poor.
• Do not cover with a cloth, etc.
• Clean the vents on the sides and rear of the unit to remove dust build-up, by using a vacuum cleaner set to its lowest suction setting.
• Do not place the product on a carpet or blanket.
• Do not reverse the product.

Using the unit without proper ventilation may cause the internal temperature to rise, and could result in possible malfunction. When the surrounding or internal temperature exceeds a certain degree, the display will automatically power off in order to cool the internal electronics and prevent hazardous occurrences.

Any malfunction may occur due to: an inappropriate installation site, improper assembly, installation, mounting, or operation of this product, modifications made to the product. However, PIONEER cannot be held responsible for such accidents or malfunction.

NOTE
The following are typical effects and characteristics of a phosphor-based matrix display and as such, are not covered by the manufacturer’s limited warranties:

• Permanent residual images upon the phosphors of the panel.
• The existence of a minute number of inactive light cells.
• Panel generated sounds, examples: Fan motor noise, and electrical circuit humming / glass panel buzzing.
Importan User Guidance Information

**CAUTION**

PIONEER bears no responsibility for any damage arising from incorrect use of the product by you or other people, malfunctions when in use, other product related problems, and use of the product except in cases where the company must be liable.

**Plasma Display protection function**

When still images (such as photos and computer images) stay on the screen for an extended period of time, the screen will be slightly dimmed. This is because the protection function of the Plasma Display automatically adjusts the brightness to protect the screen when detecting still images; so this does not designate malfunction. The screen is dimmed when a still image is detected for about three minutes.

**Information of cell defect**

Plasma screens display information using cells. Pioneer Plasma Display panels contain a very large number of cells. (Depending on the panel size; over 6.2 million cells.) All Pioneer display panels are manufactured using a very high level of ultra-precision technology and undergo individual quality control.

In rare cases, some cells can be permanently switched off, or on, resulting in either a black or colored cell permanently fixed on the screen. This effect is common to all Plasma Displays because it is a consequence of the technology.

If the defective cells are visible at a normal viewing distance of between 2.5 and 3.5 meters whilst viewing a normal broadcast (i.e. not a test card, still image or single color display) please contact the supplying dealer.

If, however, they can only be seen close up or during single color displays then this is considered normal for this technology.

**Infrared rays**

The Plasma Display releases infrared rays because of its characteristics. Depending on how the Plasma Display is in use, the remote controls of nearby equipment may be adversely affected or wireless headphones using infrared rays are interfered by noise. If this is the case, place that equipment far enough from this product.

**Radio interference**

While this product meets the required specifications, it emits a small amount of noise. If you place such equipment as an AM radio, personal computer, and VCR close to this product, that equipment may be interfered. If this happens, place that equipment far enough from this product.

**Plasma Display driving sound**

The screen of the Plasma Display is composed of extremely fine pixels and these pixels emit light according to received video signals. This principle may make you hear buzz sound or electrical circuit hamming from the Plasma Display.

Do not attach such items as labels and tape to the product
- This may result in the discolouration or scratch of the cabinet.

When not using the product for a long period of time
- If you do not use the product for a long period of time, the functions of the product may be adversely affected. Switch on and run the product occasionally.

Condensation
- Condensation may take place on the surface or inside of the product when the product is rapidly moved from a cold place to a warm place or just after a heater is switched on in winter morning, for example. When condensation takes place, do not switch on the product and wait until condensation disappears. Using the product with condensation may result in malfunction.

Cleaning the surface of the screen and the glossy surface of the front cabinet
- When cleaning the surface of the screen or the glossy surface of the front cabinet, gently wipe it with a dry soft cloth; the supplied cleaning cloth or other similar cloths (e.g., cotton and flannel). If you use a dusty or hard cloth or if you rub the screen hard, the surface of the product will be scratched.
- If you clean the surface of the screen with a wet cloth, water droplets on the surface may enter into the product, resulting in malfunction.

Cleaning the cabinet
- When cleaning the cabinet of this product, gently wipe it with a clean soft cloth (e.g., cotton and flannel). If you use a dusty or hard cloth or if you rub the cabinet hard, the surface of the cabinet will be scratched.
- The cabinet of this product is mostly composed of plastic. Do not use chemicals such as benzene or thinner to clean the cabinet. Using these chemicals may result in quality deterioration or coating removal.
- Do not expose the product to volatile gas or fluid such as pesticide. Do not make the product contact with rubber or vinyl products for a long period of time. The effect of plasticizer in the plastic may result in quality deterioration or coating removal.
- If you clean the surface of the cabinet with a wet cloth, water droplets on the surface may enter into the product, resulting in malfunction.

Handles at the rear of the Plasma Display
- Do not remove the handles from the rear of the Plasma Display.
- When moving the Plasma Display, ask another person for help and use the handles attached to the rear of the Plasma Display. Do not move the Plasma Display by holding only a single handle. Use the handles as shown.
- Do not use the handles to hang the product when installing or carrying the product, for example. Do not use the handles for the purpose of preventing the product from tilting over.
**CAUTION**

**Panel sticking and after-image lag**

- Displaying the same images such as still images for a long time may cause after-image lagging. This may occur in the following two cases.

1. **After-image lagging due to remaining electrical load**
   When image patterns with very high peak luminance are displayed for more than 1 minute, after-image lagging may occur due to the remaining electric load. The after-images remaining on the screen will disappear when moving images are displayed. The time for the after-images to disappear depends on the luminance of the still images and the time they had been displayed.

2. **After-image (lag image) due to burning**
   Avoid displaying the same image on the Plasma Display continuously over a long period of time.

   This includes those images displayed in the following screen modes: multiscreen function, screen size 4:3, screen size FULL 14:9, screen size CINEMA 14:9, screen size Dot by Dot (except when the input size is 1920x1080), and images with black bands at top/bottom or right/left.

   If the same image is displayed continuously for several hours, or for shorter periods of time over several days, a permanent after-image may remain on the screen due to burning of the fluorescent materials. Such images may become less noticeable if moving images are later displayed, but they will not disappear completely.

- The energy save function can be set to help prevent damage from screen burning (see page 29).

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If you want to dispose this product, do not mix it with general household waste. There is a separate collection system for used electronic products in accordance with legislation that requires proper treatment, recovery and recycling.

Private households in the 25 member states of the EU, in Switzerland and Norway may return their used electronic products free of charge to designated collection facilities or to a retailer (if you purchase a similar new one).

For countries not mentioned above, please contact your local authorities for the correct method of disposal.

By doing so you will ensure that your disposed product undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health.
Safety Precautions

Electricity is used to perform many useful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. However, improper use can result in electric shock and/or fire. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. To ensure your safety and prolong the service life of your product, please read the following precautions carefully before using the product.

1. Read instructions — All operating instructions must be read and understood before the product is operated.
2. Keep this manual in a safe place — These safety and operating instructions must be kept in a safe place for future reference.
3. Observe warnings — All warnings on the product and in the instructions must be observed closely.
4. Follow instructions — All operating instructions must be followed.
5. Cleaning — Unplug the power cord from the AC outlet before cleaning the product. To clean the product, use the supplied cleaning cloth or other soft clothes (e.g., cotton, flannel). Do not use liquid cleaners or aerosol cleaners.
6. Attachments — Do not use attachments not recommended by the manufacturer. Use of inadequate attachments can result in accidents.
7. Water and moisture — Do not use the product near water, such as bathtub, washbasin, kitchen sink and laundry tub, swimming pool and in a wet basement.
8. Stand — Do not place the product on an unstable cart, stand, tripod, or table. Placing the product on an unstable surface can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. When mounting the product on a wall, be sure to follow the manufacturer’s instructions. Use only the mounting hardware recommended by the manufacturer.
9. When relocating the product placed on a cart, it must be moved with utmost care. Sudden stops, excessive force and uneven floor surface can cause the product to fall from the cart.

10. Ventilation — The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer’s instructions are followed.
11. Power source — This product must operate on a power source specified on the specification label. If you are not sure of the type of power supply used in your home, consult your dealer or local power company.
12. Power cord protection — The power cords must be routed properly to prevent people from stepping on them or objects from resting on them. Check the cords at the plugs and product.
13. The Plasma Display used in this product is made of glass. Therefore, it can break when the product is dropped or applied with impact. Be careful not to be injured by broken glass pieces in case the Plasma Display breaks.
14. Overloading — Do not overload AC outlets or extension cords. Overloading can cause fire or electric shock.
15. Entering of objects and liquids — Never insert an object into the product through vents or openings. High voltage flows in the product, and inserting an object can cause electric shock and/or short internal parts. For the same reason, do not spill water or liquid on the product.
16. Servicing — Do not attempt to service the product yourself. Removing covers can expose you to high voltage and other dangerous conditions. Request a qualified service person to perform servicing.
17. Repair — If any of the following conditions occurs, unplug the power cord from the AC outlet, and request a qualified service person to perform repairs.
   a. When the power cord or plug is damaged.
   b. When a liquid was spilled on the product or when objects have fallen into the product.
   c. When the product has been exposed to rain or water.
   d. When the product does not operate properly as described in the operating instructions.
   e. When the product has been dropped or damaged.
   f. When the product displays an abnormal condition. Any noticeable abnormality in the product indicates that the product needs servicing.
18. Replacement parts — In case the product needs replacement parts, make sure that the service person uses replacement parts specified by the manufacturer, or those with the same characteristics and performance as the original parts. Use of unauthorized parts can result in fire, electric shock and/or other danger.
19. Safety checks — Upon completion of service or repair work, request the service technician to perform safety checks to ensure that the product is in proper operating condition.
20. Wall or ceiling mounting — When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer.
21. Heat sources — Keep the product away from heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).
22. Unplug the power cord from the AC outlet before installing the speakers.
23. Never expose the screen of the Plasma Display to a strong impact, for example, by hitting it. The screen may be broken, resulting in fire or personal injury.
24. Do not expose the Plasma Display to direct sunlight for a long period of time. The optical characteristics of the front protection panel changes, resulting in discoloration or warp.
25. The Plasma Display weighs about 39.8 kg. Because it has small depth and is unstable, unpack, carry, and install the product with one more person at least and use the handles.
Safety Precautions

Installation using the optional PIONEER stand or installation bracket
• Please be sure to request installation or mounting of this unit or the installation bracket by an installation specialist or the dealer where purchased.
• When installing, be sure to use the bolts provided with the stand or installation bracket.
• For details concerning installation, please refer to the instruction manual provided with the stand or installation bracket.

Installation using accessories other than the PIONEER stand or installation bracket (sold separately)
• When possible, please install using parts and accessories manufactured by PIONEER. PIONEER will not be held responsible for accident or damage caused by the use of parts and accessories manufactured by other companies.
• For custom installation, please consult the dealer where the unit was purchased, or a qualified installer.

Wall-mount installation of the unit
This unit has been designed with bolt holes for wall-mount installation, etc. The installation holes provided are shown in the accompanying illustration.
• Be sure to attach in 4 or more locations above and below, left and right of the center line.
• Use bolts that are long enough to be inserted 12 mm to 18 mm into the main unit from the attaching surface. Refer to the side view diagram in the accompanying illustration.
• As this unit is constructed with glass, be sure to install it on a flat, unwarped surface.

⚠️ CAUTION
To avoid malfunction, overheating of this unit, and possible fire hazard, make sure that the vents on the main unit are not blocked when installing. Also, as hot air is expelled from the air vents, be careful of deterioration and dirt build up on rear surface wall, etc.

⚠️ CAUTION
Please be sure to use an M8 (Pitch = 1.25 mm) bolt. (Only this size bolt can be used.)

⚠️ CAUTION
This display unit weighs at least 30 kg and has little front-to-back depth, making it very unstable when stood on edge. As a result, two or more persons should cooperate when unpacking, moving, or installing the display.

⚠️ CAUTION
This unit incorporates a thin design. To ensure safety if vibrated or shaken, please be sure to take measures to prevent the unit from tipping over.
Safety Precautions

CAUTION

- Handles should not be removed or reattached by anyone other than the professional installation technician or service personnel.
- If handles must be removed due to specific installation conditions, the mounting screws should be stored carefully together with the handles. To ensure safety, the mounting screws should be tightened to a minimum torque of 2N·m (20 kgf·cm) when reattaching the handles.
- When moving the display, it should always be carried by two persons holding the rear handles in the manner shown.

NO!

- Never attempt to move the Plasma Display by holding only one of the handles.
- When installing the Plasma Display, do not use the handles as means of hanging the display; also do not use them as devices to prevent tipping over (see illustration).
Optional line (sold separately)

- For details, please consult the dealer where this unit was purchased.

1 Table top stand (PDK-TS23):
   PDP-5000EX display stand.

2 Wall installation unit:
   Wall installation bracket designed as a wall interface for securing the unit.

This product includes FontAvenue® fonts licensed by NEC Corporation. FontAvenue is a registered trademark of NEC Corporation.

Supplied Accessories

1 Power cord
   (For Europe, except UK and Eire)
   (For UK and Eire)

Only the power cord that is appropriate in your country or region is supplied.

2 Remote control unit

3 AA (R6) batteries (x 2)

4 Cleaning cloth

5 Speed clamps (x 2)

6 Bead bands (x 2)

7 Ferrite core

8 BNC/Pin conversion adaptor (x 3)

- These Operating Instructions
- Warranty
Main unit

1 MAIN POWER switch
2 ON indicator
3 STANDBY indicator
4 Remote control sensor
5 Handles

Operation panel on the main unit

6 ○ STANDBY/ON button
7 INPUT button
8 HOME MENU button
9 ADJUST (↑/↓/←/→) buttons
10 VOLUME +/− buttons
11 ENTER/DISP. button
12 RETURN button
13 SCREEN SIZE button

Note
The unit’s operating panel will become inoperable if connected speakers are installed too near the main unit.
Part Names

Remote control unit

1 **STANDBY/ON** button
   Press to put the unit in operation or standby mode (page 21).

2 **SCREEN SIZE** button
   Press to select the screen size (page 23).

3 **PC AUTO SET UP** button
   When using computer signal input, automatically sets the
   “Position”, “Clock” and “Phase” to optimum values (page 30).

4 **INPUT 1 to 6** buttons
   Press to select the input (page 31).

5 **VOLUME (+/-)** buttons
   Use to adjust the volume (page 21).

6 **MUTING** button
   Press to mute the volume (page 21).

7 **RETURN** button
   Restores the previous menu screen (pages 24 to 27).

8 **AV SELECTION** button
   Use to select the AV function (page 22).

9 **DISPLAY** button
   Press to view the unit’s current input and setup mode (page 22).

10 **SPLIT** button
    Press to switch to multi-screen display (page 22).

11 **SUB INPUT** button
    During multi-screen display, use this button to change inputs to subscreens (page 22).

12 **SWAP** button
    During multi-screen display, use this button to switch between main screen and subscreen (page 22).

13 **HOME MENU** button
    Press to open and close the on-screen menu (pages 24 to 37).

14 **ADJUST (▲/▼/◄/►)** buttons
    Use to navigate menu screens and to adjust various settings on the unit (pages 24 to 37).

15 **ENTER** button
    Press to adjust or enter various settings on the unit (pages 24 to 37).

When handling the remote control unit

- Do not drop the remote control unit or expose it to moisture.
- Do not use the remote control unit in a location subject to direct sunlight, heat radiation from a heater, or in a place subject to excessive humidity.
- When the remote control unit’s batteries begin to wear out, the operable distance will gradually become shorter. When this occurs, replace all batteries with new ones as soon as possible.
1 **SPEAKER (R) terminals**  
For connection of an external right speaker.  
Connect a speaker that has an impedance of 8 Ω to 16 Ω.

2 **Terminal for Service Adjustments** (used for factory setup)  
Never connect any component to these connectors without first consulting your Pioneer installation technician.  
These connectors are used for Plasma Display setup adjustments.

3 **CONTROL IN/OUT terminals**

4 **INPUT1 terminal (DVI-D)**

5 **INPUT2 terminal (HDMI)**

6 **INPUT3 terminal (HDMI)**

7 **INPUT4 terminals**  
(COMPONENT VIDEO: Y, Pb/Cb, Pr/Cr,  
ANALOG RGB: G, B, R, HD, VD)

8 **INPUT5 terminal (S-VIDEO)**

9 **INPUT6 terminal (VIDEO)**

10 **AUDIO INPUT terminals**  
Audio input connectors corresponding to INPUT1 to INPUT6 video input connectors.

11 **AC IN**  
Use to connect the supplied power cord to an AC outlet.

12 **SPEAKER (L) terminals**  
For connection of an external left speaker. Connect a speaker that has an impedance of 8 Ω to 16 Ω.
Installing the Plasma Display

Location
• Avoid direct sunlight. Maintain adequate ventilation.
• Because the Plasma Display is heavy, be sure to have someone help you when moving it.

NOTE
• Allow enough space around the upper and back parts when installing to ensure adequate ventilation of the rear of the unit.

Using the optional PIONEER stand
• For details on installation, refer to the instruction manual supplied with the stand.

CAUTION
Operating Environment
Operating environment temperature and humidity:
+0 °C to +40 °C; less than 85 % 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)

CAUTION
The lower left section of the display unit shown in the illustration above is the location of the MAIN POWER switch and certain parts required for display, and the contour involves a raised projection.

As a result, when transporting and installing the unit, take adequate precautions not to subject this area to impact or unreasonable force, since damage to the parts may result.
Preventing the Plasma Display from Falling Over

After installing the stand, be sure to take special care to ensure that the Plasma Display will not fall over.

Stabilizing on a table or floor

Stabilize the Plasma Display as shown in the diagram using screws that are available on the market.

**NOTE**

To stabilize the Plasma Display on a table or on the floor, use screws that have a nominal diameter of 6 mm and that are at least 20 mm long.

---

Using a wall for stabilization

1. **Attach falling prevention bolts (hooks) to the Plasma Display.**

2. **Use strong cords or chains to stabilize it appropriately and firmly to a wall, pillar, or other sturdy element.**

   • Perform this work in the same way on the left and right sides.

**NOTE**

Use hooks, ropes, chains, and fittings that are available on the market.
Recommended hook: Nominal diameter 8 mm Length 12 mm to 15 mm

---

**CAUTION**

A table or an area of the floor with adequate strength should always be used to support the Plasma Display. Failure to do so could result in personal injury and physical damage. When installing the Plasma Display, please take the necessary safety measures to prevent it from falling or overturning in case of emergencies, such as earthquakes, or of accidents. If you do not take these precautions, the Plasma Display could fall down and cause injury.

The screws, hooks, chains and other fittings that you use to secure the Plasma Display to prevent it from overturning will vary according to the composition and thickness of the surface to which it will be attached.

Select the appropriate screws, hooks, chains, and other fittings after first inspecting the surface carefully to determine its thickness and composition and after consulting a professional installer if necessary.
Connecting the power cord

ATTACHING THE FERRITE CORE
To help prevent noise, attach the supplied ferrite core to the connector end of the power cord as shown. Use the supplied cable tie to prevent the ferrite core from slipping on the cable.

NOTE
• When not using this unit for extended periods, disconnect the power cord from its outlet.

CONNECTING THE SPEAKERS
This unit is equipped with speaker output terminals. Consult the accompanying illustration when connecting your own speakers.

NOTE
• When connecting speakers, be sure to connect the speaker’s positive (+) and negative (−) terminals to the same terminals on this unit. Proper sound will not be produced if the (+) and (−) polarities are not connected correctly.
• This unit supports the use of speakers with 8 Ω to 16 Ω impedance.
How to route cables
Speed clamps and bead bands are included with this unit for bunching cables together. Once components are connected, follow the following steps to route cables.

1. Organize cables together using the provided speed clamps.
   Insert ➀ into an appropriate hole on the rear of the unit, then snap ➁ into the back of ➀ to fix the clamp. Speed clamps are designed to be difficult to undo once in place. Please attach carefully.

2. Bunch separated cables together and secure them with the provided bead bands.
   Do not allow excessive stress to be placed on the ends of cables.

   **NOTE**
   - Cables can be routed to the right or left.

To attach the speed clamps to the main unit
Connect the speed clamps using the 6 holes marked with “o” below, depending on the situation.

To remove speed clamps
Using pliers, twist the clamp 90° and pull it outward. In some cases the clamp may have deteriorated over time and may get damaged when removed.
Preparing the remote control unit

Inserting batteries

1. Open the battery cover.

2. Load the supplied two AA size batteries while inserting their respective negative polarity (–) ends first.

   - Place batteries with their terminals corresponding to the (+) and (–) indicators in the battery compartment.

3. Close the battery cover.

Cautions regarding batteries

Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.

- When you replace the batteries, use manganese or alkaline ones.
- Place the batteries with their terminals corresponding to the (+) and (–) indicators.
- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they have worn out. Chemicals that leak from batteries can cause a rash. If you find any chemical leakage, wipe thoroughly with a cloth.
- The batteries supplied with this product may have a shorter life expectancy due to storage conditions.
- If you will not use the remote control unit for an extended period of time, remove the batteries from it.

WARNING

- Do not use or store batteries in direct sunlight or other excessively hot place, such as inside a car or near a heater. This can cause batteries to leak, overheat, explode or catch fire. It can also reduce the life or performance of batteries.

CAUTION

- WHEN DISPOSING OF USED BATTERIES, PLEASE COMPLY WITH GOVERNMENTAL REGULATIONS OR ENVIRONMENTAL PUBLIC INSTRUCTION’S RULES THAT APPLY IN YOUR COUNTRY/AREA.

Allowed operation range of the remote control unit

Operate the remote control unit while pointing it toward the remote control sensor (SR) located at the bottom right of the front panel of the Plasma Display. The distance from the remote control sensor must be within 7 m and the angle relative to the sensor must be within 30 degrees in the right, left, upward, or downward direction.

Cautions regarding the remote control unit

- Do not expose the remote control unit to shock. In addition, do not expose the remote control unit to liquids, and do not place in an area with high humidity.
- Do not install or place the remote control unit under direct sunlight. The heat may cause deformation of the unit.
- The remote control unit may not work properly if the remote control sensor of the Plasma Display is under direct sunlight or strong lighting. In such case, change the angle of the lighting or Plasma Display, or operate the remote control unit closer to the remote control sensor.
- When any obstacle exists between the remote control unit and the remote control sensor, the remote control unit may not function.
- As the batteries become empty, the remote control unit can function within a shorter distance from the remote control sensor. Replace the batteries with new ones early enough.
- The Plasma Display emits very weak infrared rays from its screen. If you place such equipment operated through infrared remote control as a VCR nearby, that equipment may not receive commands from its remote control unit properly or entirely. If this is the case, place that equipment at a location far enough from the Plasma Display.
- Depending on the installation surroundings, this unit’s remote control unit may be influenced by the infrared rays discharged from the Plasma Display, hampering reception of its rays or limiting its operational distance. The strength of infrared rays discharged from the screen will differ according to the picture displayed.
Plasma Display status indicators
The table below shows the operational status of the Plasma Display. You can check the current status of the Plasma Display with the indicators on the Plasma Display.

<table>
<thead>
<tr>
<th>Indicator Status</th>
<th>Plasma Display Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>POWER ON</td>
<td>STANDBY</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For other than the above, see Troubleshooting on page 38.

Changing the volume and sound

Using VOLUME +/-
• To increase the volume, press VOLUME +.
• To decrease the volume, press VOLUME –.

Using MUTING on the remote control unit
MUTING mutes the current sound output.
1 Press MUTING.
• MUTING appears on the screen.
2 Press MUTING again to cancel the mute mode.
• Pressing VOLUME + also cancels the mute mode.
Use the multiscreen functions

Splitting the screen
Use the following procedure to select 2-screen mode.

1 Press the remote control unit’s SPLIT.
The main screen is displayed on the left and the subscreen on the right.

2 Press the remote control unit’s SUB INPUT to select the subscreen input source.

To exchange the main screen and subscreen inputs
Press the remote control unit’s SWAP.
The right and left sides of the display will switch; what was previously the main screen will now show the subscreen, and vice versa.

NOTE
• The multiscreen function cannot display images from the same input source at the same time. If you make such an attempt, a warning message appears.
• The multiscreen function cannot display images from INPUT2 and INPUT3 simultaneously. If you make such an attempt, a warning message appears.
• When you press HOME MENU the single-screen mode is restored and the corresponding menu is displayed.
• When in the 2-screen mode, images displayed on the right screen may look less fine, depending on the images.
• If you select 1920*1080p@24 Hz for the main screen in the 2-screen mode, video images may not be displayed properly because of the Plasma Display’s capability.
• PAL 60 signals are not suited for image display on the Sub screen.
• If the multiscreen function is used continuously for several hours, or for shorter periods of time over several days, a permanent after-image may remain on the screen due to burning of the fluorescent materials.

Confirming current status

1 Press the remote control unit’s DISPLAY.
The currently selected input source and settings will be displayed.
Display example: Under normal conditions (with video signal input)

AV Selection
Select from the five viewing options, depending on the current environment (e.g., room brightness), the type of images input from external equipment.
Each time the remote control unit’s AV SELECTION is pressed, the AV function alternates.

For AV source

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>STANDARD</td>
<td>For a highly defined image in a normally bright room. You can set the mode for each input source.</td>
</tr>
<tr>
<td>DYNAMIC</td>
<td>For a very sharp image with the maximum contrast. This mode does not allow manual image quality adjustment.</td>
</tr>
<tr>
<td>MOVIE</td>
<td>For a movie. You can set the mode for each input source.</td>
</tr>
<tr>
<td>GAME</td>
<td>Lowers image brightness for easier viewing. You can set the mode for each input source.</td>
</tr>
<tr>
<td>USER</td>
<td>Allows the user to customize settings as desired. You can set the mode for each input source.</td>
</tr>
</tbody>
</table>
For PC source

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>STANDARD</td>
<td>For a highly defined image in a normally bright room</td>
</tr>
<tr>
<td>USER</td>
<td>Allows the user to customize settings as desired. You can set the mode for each input source.</td>
</tr>
</tbody>
</table>

NOTE

• If you have selected “DYNAMIC”, you cannot select “Contrast”, “Brightness”, “Color”, “Tint”, “Sharpness”, “Pro Adjust”, and “Reset”; these menu items are dimmed.

Selecting a screen size manually

Press SCREEN SIZE to switch among the screen size options selectable for the type of video signals currently received.

• Each time you press SCREEN SIZE, the selection is switched.
• The selectable screen sizes differ depending on the types of input signals.

AV mode

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:3</td>
<td>For 4:3 “standard” pictures. A side mask appears on each side.</td>
</tr>
<tr>
<td>FULL 14:9</td>
<td>For 14:9 squeeze pictures. A thin side mask appears on each side.</td>
</tr>
<tr>
<td>CINEMA 14:9</td>
<td>For 14:9 letterbox pictures. A thin side mask appears on each side, and you may also see bars on the top and bottom with some programmes.</td>
</tr>
<tr>
<td>WIDE</td>
<td>In this mode the picture is progressively stretched toward each side of the screen.</td>
</tr>
<tr>
<td>FULL</td>
<td>For 16:9 squeeze pictures.</td>
</tr>
<tr>
<td>ZOOM</td>
<td>For 16:9 letterbox pictures. Bars may appear on the top and bottom with some programmes.</td>
</tr>
<tr>
<td>CINEMA</td>
<td>For 14:9 letterbox pictures. Bars may appear on the top and bottom on some programmes.</td>
</tr>
<tr>
<td>Dot by Dot</td>
<td>Matches input signal with same number of screen pixels. Enabled only when input source size is 1920x1080.</td>
</tr>
</tbody>
</table>

PC mode

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:3</td>
<td>Fills the screen without altering the input signal aspect ratio.</td>
</tr>
<tr>
<td>FULL</td>
<td>Full 16:9 screen display</td>
</tr>
<tr>
<td>Dot by Dot</td>
<td>Matches input signal with same number of screen pixels.</td>
</tr>
</tbody>
</table>

NOTE

• The Plasma Display’s imaging characteristics may deteriorate if the following screen sizes are displayed for a prolonged period: 4:3, FULL 14:9, CINEMA 14:9, Dot by Dot (except when the input size is 1920x1080).

If the above screen sizes are displayed continuously for several hours, or for shorter periods of time over several days, a permanent after-image may remain on the screen due to burning of the fluorescent materials.

Unless doing so would infringe copyright restrictions, it is strongly recommended to choose a screen size that does not produce black bands at top/bottom or right/left of the screen.

• When using the Plasma Display in a profit-making activity, or when exhibiting images publicly, using the screen size function to compress or stretch the image may result in infringement of the copyrights of the image owners.
Using the menu

AV mode menus

<table>
<thead>
<tr>
<th>Home Menu</th>
<th>Item</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Picture</td>
<td>Contrast</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Brightness</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Color</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Tint</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Sharpness</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Pro Adjust</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Reset</td>
<td>25</td>
</tr>
</tbody>
</table>

| Sound      | Treble     | 28   |
|            | Bass       | 28   |
|            | Balance    | 28   |
|            | Front Surround | 28 |
|            | FOCUS      | 28   |
|            | Reset      | 28   |

| Power Control | Energy Save | 29   |
|               | No Signal Off | 29  |
|               | Power Management | 29 |

| Option      | Manual Setup | 30   |

| Setup       | Language    | 25   |
|            | SR+         | 37   |
|            | INPUT1      | 31, 35 |
|            | INPUT2      | 33, 34 |
|            | INPUT3      | 33, 34 |
|            | INPUT4      | 31   |
|            | INPUT5      | 31, 33 |
|            | INPUT6      | 31, 33 |

PC mode menus

<table>
<thead>
<tr>
<th>Home Menu</th>
<th>Item</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Picture</td>
<td>Contrast</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Brightness</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Red</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Green</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Blue</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Reset</td>
<td>25</td>
</tr>
</tbody>
</table>

Menu operations

The following describes the typical procedure for setting up the menus. For the actual procedures, see the appropriate pages that describe individual functions.

⚠️ NOTE

- Items within parentheses ( ) indicate notations for the main unit buttons when they differ from those on the remote control unit.

1. Press HOME MENU.
2. Press ▲▼ to select a menu item, and then press ENTER (ENTER/DISP.).
3. Repeat step 2 until you access the desired submenu item.
   - The number of menu layers differs depending on the menu items.
4. Press ▲▼ to select an option (or parameter), and then press ENTER (ENTER/DISP.).
   - For some menu items, press ▲▼ instead of ▲▼.
5. Press HOME MENU. INPUT 1 to INPUT 6 (INPUT) to exit the menu.

⚠️ NOTE

- You can return to the upper menu levels by pressing RETURN.
Basic Adjustment Settings

Language setting
You can select the language to be used for on-screen display such as menus and instructions, from among 15 languages: English, German, French, Italian, Spanish, Dutch, Swedish, Portuguese, Greek, Finnish, Russian, Turkish, Norwegian, Danish and Japanese.

1. Press HOME MENU.
2. Select “Setup” (↑↓ then ENTER (ENTER/DISP.)).
4. Select a language (↑↓).
5. Press HOME MENU, INPUT 1 to INPUT 6 (INPUT) to exit the menu.

Basic picture adjustments
Adjust the picture to your preference for the chosen AV Selection option (except DYNAMIC).

1. Press HOME MENU.
2. Select “Picture” (↑↓ then ENTER (ENTER/DISP.)).
3. Select an item to be adjusted (↑↓ then ENTER (ENTER/DISP.)).
4. Select the desired level (↑↓).
5. Press HOME MENU, INPUT 1 to INPUT 6 (INPUT) to exit the menu.

For AV source

<table>
<thead>
<tr>
<th>Item</th>
<th>← button</th>
<th>→ button</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contrast</td>
<td>For less contrast</td>
<td>For more contrast</td>
</tr>
<tr>
<td>Brightness</td>
<td>For less brightness</td>
<td>For more brightness</td>
</tr>
<tr>
<td>Color</td>
<td>For less color intensity</td>
<td>For more color intensity</td>
</tr>
<tr>
<td>Tint</td>
<td>Skin tones become purplish</td>
<td>Skin tones become greenish</td>
</tr>
<tr>
<td>Sharpness</td>
<td>For less sharpness</td>
<td>For more sharpness</td>
</tr>
</tbody>
</table>

For PC source

<table>
<thead>
<tr>
<th>Item</th>
<th>← button</th>
<th>→ button</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contrast</td>
<td>For less contrast</td>
<td>For more contrast</td>
</tr>
<tr>
<td>Brightness</td>
<td>For less brightness</td>
<td>For more brightness</td>
</tr>
<tr>
<td>Red</td>
<td>For weaker red</td>
<td>For stronger red</td>
</tr>
<tr>
<td>Green</td>
<td>For weaker green</td>
<td>For stronger green</td>
</tr>
<tr>
<td>Blue</td>
<td>For weaker blue</td>
<td>For stronger blue</td>
</tr>
</tbody>
</table>

NOTE
- To perform advanced picture adjustments, select “Pro Adjust” in step 3 and then press ENTER (ENTER/DISP.). For the subsequent procedures, see “Advanced picture adjustments”.
- To restore the factory defaults for all items, press ↑↓ to select “Reset” in step 3, and then press ENTER (ENTER/DISP.).

A confirmation screen appears. Press ↑↓ to select “Yes”, and then press ENTER (ENTER/DISP.).

Advanced picture adjustments
The Plasma Display provides various advanced functions for optimising the picture quality. For details on these functions, see the tables.

Several functions are not available when 1080p@50 Hz or 1080p@60 Hz signals are input.

Using PureCinema

1. Press HOME MENU.
2. Select “Picture” (↑↓ then ENTER (ENTER/DISP.)).
3. Select “Pro Adjust” (↑↓ then ENTER (ENTER/DISP.)).
4. Select “PureCinema” (↑↓ then ENTER (ENTER/DISP.)).
5. Select the desired parameter (↑↓ then ENTER (ENTER/DISP.)).
   - For the selectable parameters, see the table.

PureCinema
Automatically detects a film-based source (originally encoded at 24 frames/second), analyses it, then recreates each still film frame for high-definition picture quality.
Basic Adjustment Settings

**PureCinema**

<table>
<thead>
<tr>
<th>Selections</th>
<th>Off</th>
<th>Deactivates the PureCinema.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>Produces smooth and vivid moving images (film specific) by automatically detecting recorded image information when displaying DVD or high-definition images (e.g., movies) having 24 frames per second.</td>
<td></td>
</tr>
<tr>
<td>Advanced</td>
<td>Produces smooth and quality moving images (as shown on theatre screens) by converting to 72 Hz when displaying DVD images (e.g., movies) having 24 frames per second.</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE**

- “Standard” is not selectable when 480p or 720p@60 Hz signals are input.
- “Advanced” is not selectable when PAL, SECAM, 576i, or 1080i@50 Hz signals are input.
- Neither “Standard” nor “Advanced” is selectable when 576p, 1080p or 720p@50 Hz signals are input.

**Using Color Temp**

1. Press HOME MENU.
2. Select “Picture” (↑/↓ then ENTER (ENTER/DISP.)).
3. Select “Pro Adjust” (↑/↓ then ENTER (ENTER/DISP.)).
4. Select “Color Detail” (↑/↓ then ENTER (ENTER/DISP.)).
5. Select “Color Temp” (↑/↓ then ENTER (ENTER/DISP.)).
6. Select the desired parameter (↑/↓ then ENTER (ENTER/DISP.)).
   - If you have selected a desired parameter in this step, skip steps 7 and 8.
   - You may rather want to perform fine adjustment. To do this, select “Manual” first and then press and hold ENTER (ENTER/DISP.) for more than three seconds. The manual adjustment screen appears. Then go to step 7.
7. Select an item to be adjusted (↑/↓ then ENTER (ENTER/DISP.)).
8. Select the desired level (↑/↓).

**Color Temp**

Adjusts the color temperature, resulting in a better white balance.

<table>
<thead>
<tr>
<th>Selections</th>
<th>High</th>
<th>White with bluish tone</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mid-High</td>
<td>Intermediate tone between High and Mid</td>
</tr>
<tr>
<td></td>
<td>Mid</td>
<td>Natural tone</td>
</tr>
<tr>
<td></td>
<td>Mid-Low</td>
<td>Intermediate tone between Mid and Low</td>
</tr>
<tr>
<td></td>
<td>Low</td>
<td>White with reddish tone</td>
</tr>
<tr>
<td>Manual</td>
<td>Color temperature adjusted to your preference</td>
<td></td>
</tr>
</tbody>
</table>

7. Select an item to be adjusted (↑/↓ then ENTER (ENTER/DISP.)).
8. Select the desired level (↑/↓).

**Using CTI**

1. Press HOME MENU.
2. Select “Picture” (↑/↓ then ENTER (ENTER/DISP.)).
3. Select “Pro Adjust” (↑/↓ then ENTER (ENTER/DISP.)).
4. Select “Color Detail” (↑/↓ then ENTER (ENTER/DISP.)).
5. Select “CTI” (↑/↓ then ENTER (ENTER/DISP.)).
6. Select the desired parameter (↑/↓ then ENTER (ENTER/DISP.)).
7. Press HOME MENU. INPUT 1 to INPUT 6 (INPUT) to exit the menu.

**Using Color Management**

1. Press HOME MENU.
2. Select “Picture” (↑/↓ then ENTER (ENTER/DISP.)).
3. Select “Pro Adjust” (↑/↓ then ENTER (ENTER/DISP.)).
4. Select “Color Detail” (↑/↓ then ENTER (ENTER/DISP.)).
5. Select “Color Management” (↑/↓ then ENTER (ENTER/DISP.)).
6. Select an item to be adjusted (↑/↓ then ENTER (ENTER/DISP.)).
7. Select the desired level (↑/↓).
Basic Adjustment Settings

**Reducing the noise in images**

1. Press HOME MENU.
2. Select “Picture” (↑↓) then ENTER (ENTER/DISP.).
3. Select “Pro Adjust” (↑↓) then ENTER (ENTER/DISP.).
4. Select “NR” (↑↓) then ENTER (ENTER/DISP.).
5. Select an item to be adjusted (↑↓) then ENTER (ENTER/DISP.).
   - You can select “DNR” or “MPEG NR”.
6. Select the desired parameter (↑↓) then ENTER (ENTER/DISP.).
7. Press HOME MENU. INPUT 1 to INPUT 6 (INPUT) to exit the menu.

**Dynamic Contrast**
Emphasises the contrast on images so that the difference between brightness and darkness becomes more distinct.

- **Selections**
  - Off: Deactivates the Dynamic Contrast.
  - High: Enhanced Dynamic Contrast
  - Mid: Standard Dynamic Contrast
  - Low: Moderate Dynamic Contrast

**Black Level**
Emphasises dark portion on images so that the difference between brightness and darkness becomes more distinct.

- **Selections**
  - Off: Deactivates the Black Level.
  - On: Activates the Black Level.

**ACL**
Performs such compensation that results in the optimum contrast characteristics for images.

- **Selections**
  - Off: Deactivates the ACL.
  - On: Activates the ACL.

**Gamma**
Adjusts the gamma characteristics (image gradation characteristics).

- **Selections**
  - 1: Selects gamma characteristics 1.
  - 2: Selects gamma characteristics 2.
  - 3: Selects gamma characteristics 3.

**3DYC and I-P Mode**

1. Press HOME MENU.
2. Select “Picture” (↑↓) then ENTER (ENTER/DISP.).
3. Select “Pro Adjust” (↑↓) then ENTER (ENTER/DISP.).
4. Select “Others” (↑↓) then ENTER (ENTER/DISP.).
5. Select an item to be adjusted (↑↓) then ENTER (ENTER/DISP.).
   - You can select “3DYC” or “I-P Mode”.
6. Select the desired parameter (↑↓) then ENTER (ENTER/DISP.).

**Using the Dynamic Range Expander (DRE) functions**

1. Press HOME MENU.
2. Select “Picture” (↑↓) then ENTER (ENTER/DISP.).
3. Select “Pro Adjust” (↑↓) then ENTER (ENTER/DISP.).
4. Select “DRE” (↑↓) then ENTER (ENTER/DISP.).
5. Select an item to be adjusted (↑↓) then ENTER (ENTER/DISP.).

**MPEG NR**
Reduces mosquito noise from video image when a digital TV channel is watched or a DVD is played, resulting in noise-free images.

- **Selections**
  - Off: Deactivates the MPEG NR.
  - High: Enhanced MPEG NR
  - Mid: Standard MPEG NR
  - Low: Moderate MPEG NR

**3DYC**
Optimises characteristics for separating brightness signals and color signals. This works for both video and still images.

- **Selections**
  - Off: Deactivates the 3DYC.
  - High: Enhanced 3DYC
  - Mid: Standard 3DYC
  - Low: Moderate 3DYC

---

<table>
<thead>
<tr>
<th>Item</th>
<th>↑ button</th>
<th>↓ button</th>
</tr>
</thead>
<tbody>
<tr>
<td>R</td>
<td>Closer to magenta</td>
<td>Closer to yellow</td>
</tr>
<tr>
<td>Y</td>
<td>Closer to red</td>
<td>Closer to green</td>
</tr>
<tr>
<td>G</td>
<td>Closer to yellow</td>
<td>Closer to cyan</td>
</tr>
<tr>
<td>C</td>
<td>Closer to green</td>
<td>Closer to blue</td>
</tr>
<tr>
<td>B</td>
<td>Closer to cyan</td>
<td>Closer to magenta</td>
</tr>
<tr>
<td>M</td>
<td>Closer to blue</td>
<td>Closer to red</td>
</tr>
</tbody>
</table>

- To perform adjustment for another item, press RETURN, and then repeat steps 6 and 7.
- You may press ↑↓ to immediately change an item to be adjusted.

---

**Using the 3DYC and I-P Mode**

1. Press HOME MENU.
2. Select “Picture” (↑↓) then ENTER (ENTER/DISP.).
3. Select “Pro Adjust” (↑↓) then ENTER (ENTER/DISP.).
4. Select “Others” (↑↓) then ENTER (ENTER/DISP.).
5. Select an item to be adjusted (↑↓) then ENTER (ENTER/DISP.).
   - You can select “3DYC” or “I-P Mode”.
6. Select the desired parameter (↑↓) then ENTER (ENTER/DISP.).
Basic Adjustment Settings

I-P Mode
Perform optimum conversion from interlace signals to progressive signals. This works for both video and still images.

<table>
<thead>
<tr>
<th>Selections</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Optimum for video images</td>
</tr>
<tr>
<td>2</td>
<td>Standard setting</td>
</tr>
<tr>
<td>3</td>
<td>Optimum for still images</td>
</tr>
</tbody>
</table>

7 Press HOME MENU, INPUT 1 to INPUT 6 (INPUT) to exit the menu.

NOTE
Can be set only when a video signal is input. However, this setting is not supported if either of the following conditions apply:
• Conditions for setting “3DYC”: NTSC signal input and PAL signal input from INPUT 6.
• Signals for which “I-P Mode” is not settable: 480p, 720p, 576p, 1080p.

Sound adjustments
You can adjust the sound quality to your preference with the following settings.
Adjust the sound to your preference for the chosen AV Selection option. See page 22.

1 Press HOME MENU.
2 Select “Sound” (↑↓ then ENTER (ENTER/DISP.)).
3 Select an item to be adjusted (↑↓).
4 Select the desired level (↑↓).
5 Press HOME MENU, INPUT 1 to INPUT 6 (INPUT) to exit the menu.

NOTE
• To restore the factory defaults for all items, press ↑↓ to select “Reset” in step 3, and then press ENTER (ENTER/DISP.). A confirmation screen appears. Press ↑↓ to select “Yes”, and then press ENTER (ENTER/DISP.).

FOCUS
This shifts the sound coming direction (sound images) upward and produces clear sound contours.

1 Press HOME MENU.
2 Select “Sound” (↑↓ then ENTER (ENTER/DISP.)).
3 Select “FOCUS” (↑↓).
4 Select the desired parameter (↑↓).

Front Surround
This provides three-dimensional sound effects and/or deep, rich bass.

1 Press HOME MENU.
2 Select “Sound” (↑↓ then ENTER (ENTER/DISP.)).
3 Select “Front Surround” (↑↓).
4 Select the desired parameter (↑↓).

NOTE
• (WOW) designates a status where the FOCUS is on and TruBass + SRS has been selected for Front Surround.
• SRS is a trademark of SRS Labs, Inc.
• WOW technology is incorporated under license from SRS Labs, Inc.
• The effect of this function differs depending on signals.

I-P Mode
Perform optimum conversion from interlace signals to progressive signals. This works for both video and still images.

Treble
For weaker treble
For stronger treble

Bass
For weaker bass
For stronger bass

Balance
Decreases audio from the right speaker.
Decreases audio from the left speaker.

Item | Description
--- | ---
Off | Deactivates the FOCUS.
On | Activates the FOCUS.

5 Press HOME MENU, INPUT 1 to INPUT 6 (INPUT) to exit the menu.

NOTE
• The effect of this function differs depending on signals.
## Basic Adjustment Settings

### Power Control
Power Control provides convenient functions for power saving.

#### Energy Save
You may use one of the two Energy Save modes to save power consumption.

1. Press HOME MENU.
2. Select “Power Control” (↑↓ then ENTER (ENTER/DISP.).)
4. Select “Save 1” or “Save 2” (↑↓).
5. Press HOME MENU, INPUT 1 to INPUT 6 (INPUT) to exit the menu.

#### No Signal off
The Plasma Display will be automatically placed into the standby mode if no signal is received for 8 minutes.

1. Press HOME MENU.
2. Select “Power Control” (↑↓ then ENTER (ENTER/DISP.).)
4. Select “Enable” (↑↓).
5. Press HOME MENU, INPUT 1 to INPUT 6 (INPUT) to exit the menu.

### Power Management
The Plasma Display will be automatically placed into the standby mode when no signal is received.

1. Press HOME MENU.
2. Select “Power Control” (↑↓ then ENTER (ENTER/DISP.).)
4. Select “Enable” (↑↓).
5. Press HOME MENU, INPUT 1 to INPUT 6 (INPUT) to exit the menu.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disable</td>
<td>Does not place the Plasma Display into the standby mode.</td>
</tr>
<tr>
<td>Enable</td>
<td>Places the Plasma Display into the standby mode if no signal is received for 8 minutes.</td>
</tr>
</tbody>
</table>

#### NOTE
- INPUT1 to INPUT4 only are enabled. However, when “Signal Type” is set to “AV”, they are disabled.
- Operation is disabled during display of the HOME MENU.
- INPUT1 to INPUT6 are enabled. INPUT1 and 4 are disabled, however, when they have “Signal Type” set to “PC.”
- Operation is disabled during display of the HOME MENU.
- A message will be displayed immediately before the Plasma Display enters standby mode.
**Useful Adjustment Settings**

### Switching the vertical drive frequency (AV mode only)
You can switch the vertical drive frequency for screen display between 75 Hz and 100 Hz. Choose the drive frequency that better suits your input signals.

1. Press **HOME MENU**.
2. Select “Option” (↑↓ then ENTER (ENTER/DISP.)).
4. Select “75Hz” or “100Hz” (↑↓).
5. Press **HOME MENU**, **INPUT 1** to **INPUT 6 (INPUT)** to exit the menu.

#### NOTE
- This setting can be made for each input source separately.
- This setting is disabled when 480i, 480p, 1080i@60 Hz, 720p@60 Hz, 1080p@24 Hz, 1080p@60 Hz, 4.43 NTSC signals, or NTSC signals are input.

### Adjusting image positions (AV mode only)
Adjust the horizontal and vertical positions of images on the Plasma Display.

1. Press **HOME MENU**.
2. Select “Option” (↑↓ then ENTER (ENTER/DISP.)).
3. Select “Position” (↑↓ then ENTER (ENTER/DISP.)).
4. Select “H/V Position Adjust” (↑↓ then ENTER (ENTER/DISP.)).
5. Adjust the vertical position (↑↓) or the horizontal position (←→).
6. Press **HOME MENU**, **INPUT 1** to **INPUT 6 (INPUT)** to exit the menu.

#### NOTE
- To restore the factory defaults for all items, press ↑↓ to select “Reset” in step 4, and then press ENTER (ENTER/DISP.). A confirmation screen appears. Press ↑↓ to select “Yes”, and then press ENTER (ENTER/DISP.).
- Adjustments are stored separately according to input source.
- When using the INPUT1 terminal, this function is not available.

### Adjusting image positions and clock automatically (PC mode only)
Use Auto Setup to automatically adjust the positions and clock of images coming from a personal computer.

1. Press **PC AUTO SET UP** on the remote control unit. • Auto Setup starts.
2. Press **HOME MENU**, **INPUT 1** to **INPUT 6 (INPUT)** to exit the menu.

#### NOTE
- When Auto Setup is finished, “Auto Setup completed.” appears.
- Even when “Auto Setup completed” appears, Auto Setup may have failed, depending on conditions.
- Auto Setup may fail with a PC image composed of similar patterns or monochrome. If not successful, change the PC image and try again.
- Be sure to connect the computer to the unit and switch it on before starting Auto Setup.

### Adjusting image positions and clock manually (PC mode only)
Usually you can easily adjust the positions and clock of images using Auto Setup. Use Manual Setup to optimise the positions and clock of images when necessary.

1. Press **HOME MENU**.
2. Select “Option” (↑↓ then ENTER (ENTER/DISP.)).
3. Select “Manual Setup” (↑↓ then ENTER (ENTER/DISP.)).
4. Select the item to be adjusted (↑↓ then ENTER (ENTER/DISP.)).
5. Perform adjustment (←→ and ↑↓).
   With “Clock” or “Phase” selected, you can change the parameter using ↑↓.
6. Press **HOME MENU**, **INPUT 1** to **INPUT 6 (INPUT)** to exit the menu.

#### NOTE
- To restore the factory defaults for all items, press ↑↓ to select “Reset” in step 4, and then press ENTER (ENTER/DISP.). A confirmation screen appears. Press ↑↓ to select “Yes”, and then press ENTER (ENTER/DISP.).
Useful Adjustment Settings

Selecting an input signal type
After connecting to the INPUT1 or INPUT4 terminal, specify the type of video signals to be received from the connected equipment. For the type of the signals, see the operation manual that came with the connected equipment. Before starting the menu, press INPUT 1 or INPUT 4 (INPUT) to select an input source.

1 Press HOME MENU.
2 Select “Setup” (↑↓ then ENTER (ENTER/DISP.)).
3 Select “INPUT1” or “INPUT4” (↑↓ then ENTER (ENTER/DISP.)).
4 Select a signal type (↑↓).

- For INPUT1, you can select AV or PC.
- For INPUT4, you can select AV or PC. In addition, you may select color decoding, component, or RGB. XGA, WXGA or AUTO can be selected with the XGA/WXGA setting.

5 Press HOME MENU, INPUT 1 to INPUT 6 (INPUT) to exit the menu.

NOTE
- If no image appears or images appear in inappropriate colors, specify another video signal type.
- For the signal types to be specified, check the operation manual that came with the connected equipment.

Color system setting
If an image does not appear clearly, select another color system (e.g., PAL, NTSC).

1 Press HOME MENU.
2 Select “Setup” (↑↓ then ENTER (ENTER/DISP.)).
3 Select “INPUT5” or “INPUT6” (↑↓ then ENTER (ENTER/DISP.)).
4 Select a video signal system (↑↓).

NOTE
- You can select “Auto”, “PAL”, “SECAM”, “NTSC”, “4.43NTSC”, “PAL-M” or “PAL-N”.
- With “Auto” selected, input signals are automatically identified.

5 Press HOME MENU, INPUT 1 to INPUT 6 (INPUT) to exit the menu.

INPUT5

| Color system | Auto |

NOTE
- You need to perform color system setting for each of INPUT5 and 6.
Useful Adjustment Settings

Selecting a screen size automatically (AV mode only)
The Plasma Display automatically selects an appropriate screen size when video signals are received from a connected HDMI equipment (see page 33). To activate this function, use the following procedure.

1 Press HOME MENU.
2 Select “Option” (←/→ then ENTER (ENTER/DISP.).).
3 Select “Auto Size” (←/→).
4 Select “On” (←/→).
5 Press HOME MENU, INPUT 1 to INPUT 6 (INPUT) to exit the menu.

NOTE
• Manually select an appropriate screen size if an image does not automatically switch to a correct screen format.
• When the video signal contains no aspect ratio information, the function will not work even with “On” selected.

Selecting a screen size for received 4:3 aspect ratio signals (AV mode only)
Specify whether the Plasma Display should choose the 4:3 mode or WIDE mode when 4:3 aspect ratio signals are received with the Auto Size function activated.

1 Press HOME MENU.
2 Select “Option” (←/→ then ENTER (ENTER/DISP.).).
3 Select “4:3 Mode” (←/→).
4 Select “WIDE” or “4:3” (←/→).

5 Press HOME MENU, INPUT 1 to INPUT 6 (INPUT) to exit the menu.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>Deactivates the Auto Size function.</td>
</tr>
<tr>
<td>On</td>
<td>Activates the Auto Size function.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIDE</td>
<td>Wide image without side masks.</td>
</tr>
<tr>
<td>4:3</td>
<td>Keeps the 4:3 aspect ratio and presents side masks.</td>
</tr>
</tbody>
</table>
Enjoying through External Equipment

You can connect many types of external equipment to your Plasma Display, like a decoder, VCR, DVD player, personal computer, game console, and camcorder.

**NOTE**

- Refer to the relevant operation manual (DVD player, personal computer, etc.) carefully before making connections.

Watching a decoder or VCR image

Connecting a decoder or VCR

Use the INPUT5 or INPUT6 terminal when connecting a decoder and other audiovisual equipment.

Connections for Composite Connectors

![Composite video cables](commercially available)

![Audio cable](commercially available)

Use a SCART to S-Video/Composite video conversion connector where necessary.

Displaying a decoder or VCR image

Press INPUT 5 or INPUT 6 (INPUT) to select INPUT5 or INPUT6.

**NOTE**

- Be sure to use INPUT5 or INPUT6 to connect a decoder or VCR.
- If decoder or VCR images do not come in clearly, you may need to change the input signal type setting using the menu. See page 31.
- Refer to your decoder or VCR operation manual for the signal type.

Using HDMI Input

This Plasma Display is equipped with two HDMI terminals (INPUT2 and 3) which accept digital video and audio signals. To use the HDMI terminal, activate the terminal and specify the types of video and audio signals to be received from the connected equipment. For the types of these signals, see the operation manual that came with the connected equipment.

Before starting the menu, press INPUT 2 or INPUT 3 (INPUT) to select INPUT2 or INPUT3.

**Input signal correlation table**

<table>
<thead>
<tr>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1920*1080p@24 Hz</td>
</tr>
<tr>
<td>1920*1080p@50 Hz</td>
</tr>
<tr>
<td>1920*1080p@59.94/60 Hz</td>
</tr>
<tr>
<td>1920*1080i@50 Hz</td>
</tr>
<tr>
<td>1920*1080i@59.94/60 Hz</td>
</tr>
<tr>
<td>1280*720p@50 Hz</td>
</tr>
<tr>
<td>1280*720p@59.94/60 Hz</td>
</tr>
<tr>
<td>720*576p@50 Hz</td>
</tr>
<tr>
<td>720(1440)*576i@50 Hz</td>
</tr>
</tbody>
</table>
Enjoying through External Equipment

For audio, the Plasma Display supports the following:
- Linear PCM (STEREO 2ch)
- Sampling frequency: 32 kHz, 44.1 kHz, 48 kHz

**NOTE**
- PC signals are out of correspondence.

### Connecting HDMI equipment
When using the INPUT2 or INPUT3 HDMI terminal:

1. Press **HOME MENU**.
2. Select “Setup” (↑↓) then ENTER (ENTER/DISP.).
3. Select “INPUT2” or “INPUT3” (↑↓) then ENTER (ENTER/DISP.).
4. Select “Video” or “Audio” (←→).
5. Set the “Video” or “Audio” setting.
6. Press **HOME MENU. INPUT 1 to INPUT 6 (INPUT)** to exit the menu.

#### To specify the type of audio signals:
When you use the INPUT2 or INPUT3 HDMI terminal, use the following procedure to specify the type of audio signals.

1. Repeat steps 1 to 2 provided for “To activate the HDMI terminal”.
2. Select “Audio” (←→).
3. Select the type of audio signals (←→).
   - If you select “Auto”, an attempt will be made to identify the type of audio signals when audio signals are received.

#### Input signal correlation table

<table>
<thead>
<tr>
<th>HDMI cable having the HDMI mark (commercially available.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUDIO cable (commercially available.) Connect the AUDIO cable only when inputting analogue audio signals.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HDMI</th>
<th>INPUT2</th>
<th>INPUT3</th>
</tr>
</thead>
<tbody>
<tr>
<td>RL</td>
<td>RL</td>
<td>RL</td>
</tr>
</tbody>
</table>

### To activate the HDMI terminal:
When you use the INPUT2 or INPUT3 HDMI terminal, use the following procedure to activate the terminal.

1. Press **HOME MENU**.
2. Select “Setup” (↑↓) then ENTER (ENTER/DISP.).
3. Select “INPUT2” or “INPUT3” (↑↓) then ENTER (ENTER/DISP.).
4. Select “Video” or “Audio” (←→).
5. Set the “Video” or “Audio” setting.
6. Press **HOME MENU. INPUT 1 to INPUT 6 (INPUT)** to exit the menu.

#### To specify the type of digital video signals:

1. Repeat steps 1 to 2 provided for “To activate the HDMI terminal”.
2. Select “Video” (←→).
3. Select the type of digital video signals (←→).
   - If you select “Auto”, an attempt will be made to identify the type of digital video signals when digital video signals are received.

#### Item | Description
--- | ---
Auto | Automatically identifies input digital video signals.
Color-1 | Digital Component Video signals (4:2:2) locked
Color-2 | Digital Component Video signals (4:4:4) locked
Color-3 | Digital RGB signals (16 to 235) locked
Color-4 | Digital RGB signals (0 to 255) locked
Using DVI Input
This Plasma Display is equipped with a DVI terminal (INPUT1) which accept digital video.
Before starting the menu, press INPUT 1 on the remote control unit to select INPUT1.

Input signal correlation table
1920*1080i@50 Hz
720*576p@50 Hz
1280*720p@50 Hz
1920*1080i@59.94/60 Hz
720*480p@59.94/60 Hz
1280*720p@59.94/60 Hz

NOTE
• See the section “Computer compatibility chart” (page 37) regarding supported computer signals.

Connecting DVI equipment

To activate the DVI terminal:
When you use the INPUT1 terminal, use the following procedure to activate the terminal.

1. Press HOME MENU.
2. Select “Setup” (↑↓) then ENTER (ENTER/DISP.).
3. Select “INPUT1” (↑↓) then ENTER (ENTER/DISP.).
4. Set the “AV” setting.
5. Press HOME MENU, INPUT 1 to INPUT 6 (INPUT) to exit the menu.

NOTE
• See the section “Watching an image from a personal computer” (page 36) regarding connections to a computer.

To specify the type of digital video signals:

1. Repeat steps 1 to 3 provided for “To activate the DVI terminal”.
2. Select “Video” (↑↓).
3. Select the type of digital video signals (↑↓).

Input signal correlation table
RGB (16 - 235) Digital RGB signals (16 to 235) locked
RGB (0 - 255) Digital RGB signals (0 to 255) locked

4. Press HOME MENU, INPUT 1 to INPUT 6 (INPUT) to exit the menu.

NOTE
• This selection is disabled when “Signal Type” is set to “PC”. For details on setting the signal type, see the section “To activate the DVI terminal”.
• If the images do not come in clearly, specify another digital video signal type.
• For the digital video signal types to be specified, check the operation manual that came with the connected equipment.

Watching a DVD image

Connecting a DVD player
Use the INPUT4, 5 or 6 terminal when connecting to a DVD player and other audiovisual equipment.

Input signal correlation table
1920*1080p@24 Hz
1920*1080i@50 Hz
1920*1080i@59.94/60 Hz
1280*720p@50 Hz
1280*720p@59.94/60 Hz
720*576p@50 Hz
720*576i@50 Hz
720*480p@59.94/60 Hz
720*480i@59.94/60 Hz

Connecting a DVD player
Use the INPUT4, 5 or 6 terminal when connecting to a DVD player and other audiovisual equipment.
Enjoying through External Equipment

Displaying a DVD image
To watch a DVD image, press INPUT 4, 5 or 6 (INPUT) to select INPUT4, 5 or 6.

NOTE
• If DVD images do not come in clearly, you may need to change the input signal type setting using the menu. See page 31.
• Refer to your DVD player operation manual for the signal type.

Enjoying a game console or watching camcorder images

Connecting a game console or camcorder
Use the INPUT5 or INPUT6 terminals to connect a game console, camcorder and other audiovisual equipment.

Displaying an image from the game console or camcorder
To watch an image coming from the game console or camcorder, press INPUT 5 or INPUT 6 (INPUT) to select INPUT5 or INPUT6.

NOTE
• Connect external equipment to only terminals that are to be actually used.

Watching an image from a personal computer

Connecting a personal computer
Use the INPUT1 or INPUT4 terminals to connect a personal computer.

When using the INPUT1 terminal:

Connecting a personal computer
Use the INPUT1 or INPUT4 terminals to connect a personal computer.

When using the INPUT4 terminal:

Displaying an image from a personal computer
To watch an image coming from the personal computer, press INPUT 1 or INPUT 4 (INPUT).

When connecting to a personal computer, the correct input signal type is automatically detected. If the computer image is not clear, it may be necessary to use the remote control unit’s Auto setup function.
Enjoying through External Equipment

Computer compatibility chart

<table>
<thead>
<tr>
<th>Resolution</th>
<th>Frequency</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>720 x 400</td>
<td>70 Hz</td>
<td></td>
</tr>
<tr>
<td>640 x 480</td>
<td>60 Hz</td>
<td></td>
</tr>
<tr>
<td></td>
<td>72 Hz</td>
<td></td>
</tr>
<tr>
<td></td>
<td>75 Hz</td>
<td></td>
</tr>
<tr>
<td>800 x 600</td>
<td>60 Hz</td>
<td></td>
</tr>
<tr>
<td></td>
<td>72 Hz</td>
<td></td>
</tr>
<tr>
<td></td>
<td>75 Hz</td>
<td></td>
</tr>
<tr>
<td>1024 x 768</td>
<td>60 Hz</td>
<td></td>
</tr>
<tr>
<td></td>
<td>70 Hz</td>
<td></td>
</tr>
<tr>
<td></td>
<td>75 Hz</td>
<td></td>
</tr>
<tr>
<td>1280 x 720</td>
<td>60 Hz</td>
<td></td>
</tr>
<tr>
<td>1280 x 768</td>
<td>60 Hz</td>
<td></td>
</tr>
<tr>
<td>1280 x 1024</td>
<td>60 Hz</td>
<td></td>
</tr>
</tbody>
</table>

NOTE
• INPUT1 (DVI) also supports 1280 x 1024 @75 Hz, and 1920 x 1080 @60 Hz signals.

Connecting control cords

Connect control cords between the Plasma Display and other PIONEER equipment having the logo. You can then operate the connected equipment by sending commands from its remote control unit to the remote control sensor on the Plasma Display.

After the CONTROL IN terminals have been connected, the remote control sensors on the connected equipment do not accept commands from the remote control units. Face the remote control units to the remote control sensor on the Plasma Display when operating the connected equipment.

NOTE
• Make sure that the power is turned off when making connections.
• Complete all component connections before making control cord connections.

About SR+

The CONTROL OUT terminal on the rear of the Plasma Display supports SR+ that allows linked operations with a PIONEER AV receiver. SR+ presents functions such as the input switch linkage operation function and the DSP surround mode display function. For more information, see the instruction manual that came with the PIONEER AV receiver supporting SR+.

1 Press HOME MENU.
2 Select “Setup” (↑↓ then ENTER (ENTER/DISP.)).
3 Select “SR+” (↑↓).
4 Select “On” (↑↓).

Item | Description
---|---
Off | SR+ is disabled.
On | Linked operation can be performed with unit connected to SR+ connectors.

5 Press HOME MENU. INPUT 1 to INPUT 6 (INPUT) exit the menu.

NOTE
• While in connection through SR+, the volume on this Plasma Display is temporarily minimised.
## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>• No power.</td>
<td>• Is the power cord disconnected? (See page 18.)</td>
</tr>
<tr>
<td>• The Plasma Display cannot be switched on.</td>
<td>• Has the main power been turned on? (See page 21.)</td>
</tr>
<tr>
<td>• The Plasma Display cannot be operated.</td>
<td>• External influences such as lightning, static electricity, etc., may cause improper operation.</td>
</tr>
<tr>
<td></td>
<td>• In this case, operate the Plasma Display after first turning off the power of the Plasma Display, or unplugging the power cord and re-plugging it in after 1 or 2 minutes.</td>
</tr>
<tr>
<td>• Remote control unit does not operate.</td>
<td>• Are batteries inserted with polarity (+, –) aligned? (See page 20.)</td>
</tr>
<tr>
<td></td>
<td>• Are batteries worn out? Replace with new batteries. (See page 20.)</td>
</tr>
<tr>
<td></td>
<td>• Operate the remote control unit while pointing it toward the remote control sensor on the Plasma Display. (See page 20.)</td>
</tr>
<tr>
<td></td>
<td>• Are you using it under strong or fluorescent lighting?</td>
</tr>
<tr>
<td></td>
<td>• Is a fluorescent light illuminated to remote control sensor?</td>
</tr>
<tr>
<td>• No image and audio is presented.</td>
<td>• Check the cable connection with the other equipment. (See page 33 to 37.)</td>
</tr>
<tr>
<td>• No picture.</td>
<td>• Is connection to other components correct? (See page 33 to 37.)</td>
</tr>
<tr>
<td></td>
<td>• Is a non-compatible PC signal being input? (See page 37.)</td>
</tr>
<tr>
<td></td>
<td>• Is the Input Select setting correct? (See page 31.)</td>
</tr>
<tr>
<td>• Images are presented but no audio is output.</td>
<td>• Check if you have selected the minimum volume. (See page 21.)</td>
</tr>
<tr>
<td></td>
<td>• Check if you have muted sound. (See page 21.)</td>
</tr>
<tr>
<td></td>
<td>• When using either INPUT1, INPUT4, INPUT5, or INPUT6 as the input source, confirm that the audio connectors have also been connected. (See page 33 to 36.)</td>
</tr>
<tr>
<td>• Sound is reversed between the right and left.</td>
<td>• Check if the speaker cable connections have been reversed between the right and left or if the speaker cable from either speaker has been disconnected. (See page 15.)</td>
</tr>
<tr>
<td>• Sound is output from only a single speaker.</td>
<td>• Has the balance been correctly adjusted? (See page 28.)</td>
</tr>
<tr>
<td>• Picture is cut off.</td>
<td>• Is the image position correct? (See page 30.)</td>
</tr>
<tr>
<td></td>
<td>• Has the correct screen size been selected? (See pages 23 and 32.)</td>
</tr>
<tr>
<td>• Strange color, light color, dark or color misalignment.</td>
<td>• Adjust the picture tone. (See pages 25 to 27.)</td>
</tr>
<tr>
<td></td>
<td>• Is the room too bright? The picture may look dark in a room that is too bright.</td>
</tr>
<tr>
<td></td>
<td>• Check the color system setting. (See page 31.)</td>
</tr>
<tr>
<td>• After-image lag</td>
<td>• After displaying a still image or very bright image for a certain period of time, if the screen is then switched to a darker scene, the previous image may appear as an after-image.</td>
</tr>
<tr>
<td></td>
<td>• This can be rectified by playing a rather bright moving image for several minutes. However, displaying a still image for excessively long periods of time may cause permanent display deterioration.</td>
</tr>
<tr>
<td>• Different brightness or colors on the right/left, top/bottom or center of screen.</td>
<td>• Displaying a letterbox-type image with black bands at top/bottom or right/left for extended periods of time, or regularly on a daily basis, may cause burning of the fluorescent materials in the plasma display, producing an after-image lag.</td>
</tr>
<tr>
<td></td>
<td>• For this reason it is strongly recommended to select a screen size that does not produce such black bands.</td>
</tr>
<tr>
<td>• Power is suddenly turned off.</td>
<td>• The Plasma Display’s internal temperature has increased. Remove any objects blocking vent or clean. (See page 16.)</td>
</tr>
<tr>
<td></td>
<td>• Check the power control setting. (See page 29.)</td>
</tr>
<tr>
<td>• Panel sounds /noises</td>
<td>• Panel generated sounds, examples: Fan motor noise, Electrical Circuit Humming/Glass Panel buzzing are normal operation of a phosphor-based matrix display.</td>
</tr>
</tbody>
</table>

If the following error codes appear on the screen, check the corresponding items in the table.

<table>
<thead>
<tr>
<th>Code</th>
<th>Message</th>
<th>Check</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD04</td>
<td>Powering off. Internal temperature too high. Check temperature around PDP</td>
<td>Check if the ambient temperature of the Plasma Display is high.</td>
</tr>
<tr>
<td>SD05</td>
<td>Powering off. Internal protection circuits activated. Is there a short in speaker cable?</td>
<td>Check the speaker cable connections between the Plasma Display and the speakers.</td>
</tr>
</tbody>
</table>
Appendix

Specifications

<table>
<thead>
<tr>
<th>Number of Pixels</th>
<th>1920 x 1080 pixels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio Amplifier</td>
<td>13 W + 13 W (1 kHz, 10%, 8 Ω)</td>
</tr>
<tr>
<td>Surround System</td>
<td>SRS/FOCUS/TruBass</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>110 V to 240 V AC, 50 Hz/60 Hz, 420 W (0.4 W Standby)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>1282 mm (W) x 750.5 mm (H) x 98 mm (D)</td>
</tr>
<tr>
<td>Weight</td>
<td>39.8 kg</td>
</tr>
<tr>
<td>Color System</td>
<td>PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60</td>
</tr>
</tbody>
</table>

Terminals

<table>
<thead>
<tr>
<th>INPUT1</th>
<th>DVI (DVI-D)</th>
</tr>
</thead>
<tbody>
<tr>
<td>INPUT2</td>
<td>HDMI*1</td>
</tr>
<tr>
<td>INPUT3</td>
<td>HDMI*1</td>
</tr>
<tr>
<td>INPUT4</td>
<td>BNC (COMPONENT VIDEO or ANALOG RGB)</td>
</tr>
<tr>
<td>INPUT5</td>
<td>S-VIDEO</td>
</tr>
<tr>
<td>INPUT6</td>
<td>VIDEO</td>
</tr>
</tbody>
</table>

*1 This conforms to HDMI1.1 and HDCP1.1.

HDMI (High Definition Multimedia Interface) is a digital interface that handles both video and audio using a single cable. HDCP (High-bandwidth Digital Content Protection) is a technology used to protect copyrighted digital contents that use the Digital Visual Interface (DVI).

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