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.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground—shall be connected to the grounding system of the building, as close to the point of cable entry as practical.
WARNING: Handling the cord on this product or cords associated with accessories sold with the product will expose you to lead, a chemical known to the State of California and other governmental entities to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

NOTE: 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 with 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.

FEDERAL COMMUNICATIONS COMMISSION DECLARATION OF CONFORMITY
This device complies with Part 15 of the 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.

Product Name: Plasma Display System
(Plasma Display) (Media Receiver)
Model Number: PRO-1110HD PRO-910HD
(PRO-504PU) (PRO-434PU)
(PRO-R04U) (PRO-R04U)
Product Category: Class B Personal Computers & Peripherals
Responsible Party Name: PIONEER ELECTRONICS (USA), INC., Customer Support Div.
Address: P.O. BOX 1760, LONG BEACH, CA., 90801-1760 U.S.A.
Phone: (800) 421-1625
For Business Customer URL
http://www.PioneerUSA.com

CAUTION: This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances such as radios and televisions, use shielded cables and connectors for connections.
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 PRO-1110HD/PRO-910HD Plasma Display System, please first read this information carefully.

With the Pioneer PureVision PRO-1110HD/PRO-910HD, you can be assured of a high quality Plasma Display System with long-life and high reliability. To achieve images of exceptional quality, this Pioneer Plasma Display System incorporates state-of-the-art design and construction, as well as very precise and highly advanced technology.

Over the course of its lifetime, the luminosity of the Pioneer PRO-1110HD/PRO-910HD Plasma Display System 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 System for many years to come, please carefully read and follow the usage guidelines 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 Systems 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 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 over 3 times longer than the previous still/moving image.
- After using the Plasma Display System, always switch the display to “STANDBY” mode.

**Installation guidelines**

The Pioneer PureVision PRO-1110HD/PRO-910HD Plasma Display System 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 when installing, make sure that the vents on the main unit are not blocked. To ensure proper heat emission:

- Distance the unit slightly from other equipment, walls, etc. For the minimum space required around the unit, see pages 17 and 18.
- 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 leave the product tilted over except the case of vertical installation of the Media Receiver.
- 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 a hazardous occurrence.

Malfunction can be caused by many factors: inappropriate installation site, improper assembly/installation/mounting, improper operation of or modifications made to this product. However, PIONEER cannot be held responsible for accidents or malfunction caused by the above.

**NOTE**

Typical effects and characteristics of a phosphor-based matrix display such as permanent residual images upon the phosphors of the panel and the existence of a minute number of inactive light cells in the screen are not covered by local warranties.
Important User Guidance Information

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 electric load
When image patterns with very high peak luminance are displayed 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. 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 55).

About operations through i.LINK
PIONEER shall not always assure normal video/audio recording or playback when a D-VHS is operated through i.LINK.
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. Use a damp cloth to clean the product. 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 base 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 or ceiling, be sure to install the product according to the method 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 38 kg (83.8 lbs.) for the PRO-504PU and about 30.5 kg (67.3 lbs.) for the PRO-434PU. Because it has small depth and is unstable, unpack, carry, and install the product with one or more person at least and use the handles.

26. There may be a damaged condition caused by the falling of the protection panel changes, resulting in discoloration or warp.
**Safety Precautions**

**Installation Precautions**

Observe the following precautions when installing with any items such as the optional stand.

**When using the optional stand, brackets, or equivalent items**
- Ask your dealer to perform the installation.
- Be sure to use the supplied bolts.
- For details, see the instruction manual that comes with the optional stand (or equivalent items).

**When using other items**
- Consult your dealer.
- The following six mounting holes can be used for the installation:

![Diagram showing mounting holes and screws](image)

**CAUTION**

- Be sure to use four or more mounting holes symmetrical to the vertical and horizontal median lines.
- Use M8 screws, which go 12 to 18 mm (0.5 to 0.7 inches) in depth from the mounting surface of the Plasma Display. See the side view above.
- Be careful not to block the ventilation opening at the rear of the Plasma Display.
- Be sure to install the Plasma Display on a flat surface because it contains glass.
- The screw holes other than the above are to be used only for the specified products. Never use them for mounting non-specified products.
- Do not mount or remove the Plasma Display to or from the stand, with speakers attached.

**NOTE**

- It is strongly recommended to use the optional PIONEER mounting products.
- PIONEER shall not be liable for any personal injury or product damage that results from the use of mounting items other than the optional PIONEER products.
**Operational Precautions**

**CAUTION**

PIONEER bears no responsibility for any damages 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.

**Infrared rays**

The Plasma Display releases infrared rays because of its characteristics. Depending on how the Plasma Display is used, 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 at a location where its remote control sensor is not affected.

**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.

**Fan motor noise**

When ambient temperature of the Media Receiver becomes high, the rotation speed of the cooling fan motor increases. This may make you feel that the fan motor is noisy at such an occasion.

**Do not attach such items as labels and tape to the product.**

- This may result in the discoloration 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 screen**

- When cleaning the screen of this product, 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 hard cloth or rub the screen hard, the surface of the screen 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**

- The cabinet of this product is mostly composed of plastic. Do not use chemicals such as benzine 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 contact 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.
• Built-in Digital Television (DTV) Tuner
• EPG for DTV programs
• New WIDE XGA Plasma Panel
  PRO-1110HD: 1280 x 768 (H x V) pixels
  PRO-910HD: 1024 x 768 (H x V) pixels
• PureCinema
• TruBass, FOCUS, and SRS sound systems
• Dual TV Tuner
• Multi-screen display (2-screen/picture-in-picture)
• Still image function
• 4-Language On Screen Display
• 4-Video Input and PC (XGA) Input
• 3-Component Video Input
• 2-i.LINK interface
• Parental Control System (V-CHIP)
• Power-Saving Design
**05 Supplied Accessories**

**Plasma Display**

- Power cord (2 m/6.6 feet)
- Cleaning cloth
- Speed clamp x 3
- Bead band x 3
- Warranty card
- Speaker cushion x 3
  (Use when installing the optional speakers at the bottom of the Plasma Display.)

**Media Receiver**

- Power cord (2 m/6.6 feet)
- Remote control unit
- System cable (3 m/9.8 feet)
- AA size battery x 2
  (Alkaline battery)
- Stand
- Screw x 4
  (for stand)
- Screw hole cap x 4
- VCR controller x 1
  (1.8 m/5.9 feet)
- Coaxial cable (0.15 m/0.49 feet) x 1
  (Already set at the rear of the Media Receiver)
- Operating instruction

**NOTE**

- Always use the power cord supplied with the Plasma Display and the one supplied with the Media Receiver for each respective unit.
Part Names

Plasma Display
Front view

1. POWER button
2. STANDBY indicator
3. POWER ON indicator
4. Remote control sensor

(right view)

5. STANDBY/ON button
6. INPUT button
7. VOLUME +/- buttons
8. CHANNEL +/- buttons

Rear view

9. SYSTEM CABLE terminal (BLACK)
10. SYSTEM CABLE terminal (WHITE)
11. SPEAKER (right/left) terminals
12. AC INLET terminal

The terminals have faced downward.
**06 Part Names**

**Media Receiver**

Front view

Pull this section to open the door.

1. **POWER** button
2. **POWER ON** indicator
3. **STANDBY** indicator
4. **REC TIMER** indicator
5. **INPUT 4 COMPONENT VIDEO terminals**
   
   \(Y, \text{CB/PB, CR/PR}\)
6. **INPUT 4 terminal (S-VIDEO)**
7. **INPUT 4 terminal (VIDEO)**
8. **INPUT 4 terminals (AUDIO)**
9. **PC INPUT terminal (AUDIO)**
10. **PC INPUT terminal (ANALOG RGB)**
Part Names

Rear view

1. Antenna A input terminal
2. RS-232C terminal (used in the factory setup)
3. Antenna B input terminal
4. Control input terminal
5. Control output terminal
6. VCR control terminal
7. INPUT 2 terminal (VIDEO)
8. INPUT 2 terminals (AUDIO)
9. DIGITAL AUDIO output terminal (OPTICAL)
10. INPUT 1 terminal (VIDEO)
11. INPUT 1 terminals (AUDIO)
12. i.LINK terminals
13. DTV Antenna input terminal
14. INPUT 1 COMPONENT VIDEO terminals (Y, Cb/Pb, Cr/Pr)
15. AC INLET terminal
16. Antenna A output terminal
17. Antenna B output terminal
18. INPUT 2 terminal (S-VIDEO)
19. MONITOR OUT terminal (S-VIDEO)
20. MONITOR OUT terminal (VIDEO)
21. MONITOR OUT terminals (AUDIO)
22. INPUT 1 terminal (S-VIDEO)
23. INPUT 3 terminals (AUDIO)
24. INPUT 3 COMPONENT VIDEO terminals (Y, Cb/Pb, Cr/Pr)
25. SYSTEM CABLE terminal (WHITE)
26. SYSTEM CABLE terminal (BLACK)
Remote control unit

With the mode switch set to TV

1 **TV**: Turns on the power to the Plasma Display or places it into standby mode.
2 Transmission confirmation LED
3 **INPUT**: Selects an input source of the Plasma Display. (DTV, i.LINK, INPUT 1, INPUT 2, INPUT 3, INPUT 4, PC)
4 •(dot): Enters a dot.
5 **CH RETURN**: Returns to the previous channel.
6 **CH +/–**: Selects the channel.
7 **RETURN**: Returns to the previous menu screen.
8 ↑/↓/→/←: Selects a desired item on the menu screen.
9 **DTV INFO**: Shows more information on DTV programs.
10 **SPLIT**: Switches the screen mode among 2-screen, picture-in-picture, and single-screen.
11 **FREEZE**: Freezes a frame from a moving image. Press again to cancel the function.
12 **SLEEP**: Sets the sleep timer.
13 • When pressed, all buttons on the remote control unit will light. The lighting will turn off if no operations are performed within about 5 seconds. This button is used for performing operations in dark places.
14 **ANT**: Selects the antenna (A, B). See pages 24 to 26 for details.
15 0 – 9: Sets the channel.
16 **CH ENTER**: Executes a channel number.
17 **VOL +/–**: Sets the volume.
18 **MUTING**: Mutes the sound.
19 **HOME MENU**: Displays the menu screen.
20 **ENTER**: Executes a command.
21 **DTV GUIDE**: Displays the DTV Electronic Program Guide (EPG).
22 **FAVORITE CH (A, B, C, D)**: Selects any of the four preset channels. See page 43 for details to set the FAVORITE CH. While watching, you can toggle the set channels by pressing A, B, C and D.
23 **SCREEN SIZE**: Selects the screen size.
24 **DISPLAY**: Displays the channel information.
25 **MTS**: Selects the MTS/SAP.
26 **AV SELECTION**: Selects audio and video settings. (AV mode: STANDARD, DYNAMIC, MOVIE, GAME, USER. PC mode: STANDARD, USER.)

**NOTE**

- When using the remote control unit, point it at the Plasma Display.
- See pages 97 to 105 for operating buttons not listed on this page.
Preparation

Allowed operation range of the remote control unit
Operate the remote control unit while pointing it toward the remote control sensor 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 (276 inches) and the angle relative to the sensor must be within 30 degrees in the right, left, upward, or downward direction.

When the remote control unit does not function properly
• 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 environment, infrared rays from the Plasma Display may not allow this system to properly receive commands from the remote control unit or may shorten allowable distances between the remote control unit and the remote control sensor. The strength of infrared rays emitted from the screen differs, depending on images displayed on the screen.

Installing the Plasma Display
Locating
• Avoid direct sunlight. Maintain adequate ventilation.
• The length of the system cable used to connect the Plasma Display and the Media Receiver is about 3 m (118 inches).
• Because the Plasma Display is heavy, be sure to have someone help you when moving it.

CAUTION
• If you place anything on the top of the Media Receiver it will not receive enough ventilation and will not operate properly.

NOTE
• Allow enough space around the upper and back parts when installing to ensure ventilation around the backside.

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

CAUTION
• This product may be used only with model PDK-TS04 stand, use with other stands may result in instability causing possible injury.

Using the optional PIONEER speakers
• For details on installation, refer to the instruction manual provided with the speaker.

CAUTION

Operating Environment
Operating environment temperature and humidity: +0°C to +40°C (+32°F to +104°F); less than 85% RH (cooling vents not blocked)
Avoid installing at the following locations:
• Under direct exposure to sunlight
• Under strong artificial light
• In high humidity
• Poorly ventilated
07 Preparation

Installing the Media receiver

CAUTION
- Do not place a VCR or any other device on top of the Media Receiver.
- When installing, allow enough space on the sides and above the Media Receiver.
- Do not block the side cooling vents or the rear ventilation fan opening of the Media Receiver.
**Preparation**

**Installing the Media Receiver vertically**
You can use the accompanying stand to install the Media Receiver vertically.

**Installing the Media Receiver vertically**
Insert the vertical installation stand into the side of the Media Receiver.

**Secure the vertical installation stand with screws.**

**You can remove the shock absorbing pads.**

Keep the shock absorbing pads and screws. They are required when you place the Media Receiver in the horizontal position.

**Plug the screw holes using the caps provided.**

---

**CAUTION**
- When you have installed the Media Receiver vertically, always use the accompanying stand. If you place the unit directly on the floor the cooling vents will be blocked which will result in mechanical failure.
07 Preparation

Setting the system

Connecting the system cable to the Plasma Display

Plasma Display (rear view)

Connecting the system cable to the Media Receiver

Media Receiver (rear view)

CAUTION
• THESE SPEAKER TERMINALS CAN BE UNDER HAZARDOUS VOLTAGE WHEN YOU CONNECT OR DISCONNECT THE SPEAKER CABLES. TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT TOUCH UNINSULATED PARTS BEFORE DISCONNECTING THE POWER CORD.
**Preparation**

**Routing cables**

Speed clamps and bead bands are included with this system for bunching cables. Once properly bunched, follow the steps below to route the cables.

**When the speakers are installed on the sides**

![Diagram showing cable routing](image)

- **Attaching speed clamps to the main unit**
  Attach the speed clamps using the 4 holes marked with 1 below, depending on your routing system.

- **Attaching and removing speed clamps**
  Insert 1 into an appropriate hole on the rear of the Plasma Display and snap 2 into the back of 1 to lock the clamp.
  Speed clamps are designed to be difficult to undo once in place. Please attach them carefully.
  Use pliers to twist the clamp 90°, pulling outward. The clamp may deteriorate over time and become damaged if removed.

**When the speakers are installed at the bottom**

![Diagram showing bottom cable routing](image)

- **Using the cable binders supplied with the stand**
  Using the cable binders supplied with the stand, put the speaker and system cables together so that the cables are invisible from the front. At that time be careful not to apply any force to the connection sections of the cables.
Using the remote control unit
Use the remote control unit by pointing it towards the remote sensor window. Objects between the remote control unit and sensor window may prevent proper operation.

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 sensor window of the Plasma Display is under direct sunlight or strong lighting. In such case, change the angle of the lighting or Plasma Display set, or operate the remote control unit closer to the remote sensor window.

Inserting batteries
If the remote control unit fails to operate Plasma Display System functions, replace the batteries in the remote control unit.

1 Open the battery cover.

2 Insert the two AA size batteries supplied with the product.

• 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.

• Do not use manganese batteries. When you replace the batteries, use 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.

CAUTION
• WHEN DISPOSING OF USED BATTERIES, BE SURE TO COMPLY WITH GOVERNMENT REGULATIONS AND ENVIRONMENTAL PROTECTION GUIDELINES THAT APPLY IN YOUR COUNTRY OR AREA.
Cable connections for watching conventional TV channels

In order to watch conventional TV channels, connect coaxial cables as shown below. To enjoy a clearer picture, use an outdoor antenna. If your outdoor antenna uses a 75-ohm coaxial cable with an F-type connector, plug it into the antenna terminal at the rear of the Media Receiver.

Connecting a VHF/UHF antenna

Connecting a Cable Converter

When making the above connections, first remove the coaxial cable attached before shipment.
Preparation

Connecting a VHF/UHF antenna and Cable Converter

- Be sure to connect the antenna or the Cable Converter as shown above. Signal reception may fail if not properly connected.
- Be sure that the Cable Converter output signal is assigned to the ANTENNA/CABLE B input on the Media Receiver.
- How to change channels when the Cable Converter output signal is connected to the ANTENNA/CABLE B input on the Media Receiver.
  - Press ANT on the remote control unit to switch to ANTENNA/CABLE B.
  - You can view an image right after selecting the output channel on the Cable Converter.

Switching between antenna A and B
To watch broadcasts via the two antennas, you can select it by pressing ANT on the remote control unit.
- While watching a broadcast, press ANT to view the image received from the other antenna.
- Pressing ANT while viewing in Dual Screen mode (TV image and video image) with TV selected will display the TV image of the other antenna.
- Pressing ANT while viewing Dual Screen with two TV images displayed will not have any effect.
- Pressing ANT while viewing Dual Screen with two video images displayed will switch the selected screen to a TV image.
Preparation

Cable connections for watching digital TV channels
In order to watch digital TV channels, connect coaxial cables as shown below. To enjoy a clearer picture, use an outdoor antenna. If your outdoor uses a 75-ohm coaxial cable with an F-type connector, plug it into the antenna terminal at the rear of the Media Receiver.

Connecting a VHF/UHF antenna

Connecting for cable TV

NOTE
- Be sure to connect coaxial cables as shown above. Signal reception may fail if not properly connected.

The coaxial cable is already connected at the time of purchase.
Preparation

Connecting the power cord
Connect the power cord after all component connections have been completed.

Plasma Display (rear view)

Media Receiver (rear view)

**CAUTION**
- Use only the power cord provided.
- Do not use a power supply voltage other than that indicated as this may cause fire or electric shock.
- For the Plasma Display System, a three-core power cord with a ground terminal is used for efficiency protection. Always connect the power cord to a three-pronged outlet and make sure that the cord is properly grounded. If you use a power source converter plug, use an outlet with a ground terminal and screw down the ground line.

**NOTE**
- Always turn off the power of the Plasma Display and Media Receiver when connecting the power cords.
- Disconnect the power cord from the power outlet when the Plasma Display System is not going to be used for a long period of time.
Turning on the power

1. Press **POWER** on the Plasma Display.
   - The **STANDBY** indicator on the Plasma Display flashes red.

2. Press **POWER** on the Media Receiver.
   - The system is turned on or placed into the standby mode.

3. Confirm that the **STANDBY** indicators light up red, and then press **TV** on the remote control unit or **STANDBY/ON** on the Plasma Display to turn the system on.
   - The **POWER ON** indicators on the Plasma Display and Media Receiver light up green.

**NOTE**
- In this manual, “system” means the Plasma Display Panel and Media Receiver.
- You can also reverse steps 1 and 2.
Basic Operations

Turning off the power

1 Press TV on the remote control unit or STANDBY/ON on the Plasma Display.
   • The system enters the standby mode and the image on the screen disappears.
   • Both STANDBY indicators light up red.

2 Press POWER on the Media Receiver.
   • The STANDBY indicator on the Media Receiver turns off and the one on the Plasma Display flashes red.

3 Press POWER on the Plasma Display.
   • The STANDBY indicator on the Plasma Display turns off.

NOTE
   • You can also reverse steps 2 and 3.
   • If you are not going to use this system for a long period of time, be sure to remove the power cord from the power outlet.

Plasma Display/Media Receiver status indicators

<table>
<thead>
<tr>
<th>Indicator Status</th>
<th>System Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>POWER ON</strong></td>
<td>Power to the Plasma Display and Media Receiver is off. Or the power cords have been disconnected.</td>
</tr>
<tr>
<td><strong>STANDBY</strong></td>
<td>Power to the system is on.</td>
</tr>
<tr>
<td><strong>POWER ON</strong></td>
<td>The system is in the standby mode.</td>
</tr>
<tr>
<td><strong>STANDBY</strong></td>
<td>Power to the Media Receiver is off. Or the power cord has been disconnected from the Media Receiver.</td>
</tr>
<tr>
<td><strong>Flashing</strong></td>
<td>Power to the Plasma Display is off. Or the power cord has been disconnected from the Plasma Display.</td>
</tr>
</tbody>
</table>

For other than the above, see “Troubleshooting” on page 106.
Watching conventional TV channels

Unless you set up conventional TV channels that you can watch under the current conditions, you cannot tune in those channels. For the procedure, see “Setting up conventional TV channels” on page 41.

**NOTE**
- Conventional TV channels in this manual designate TV channels that are received through the conventional VHF/UHF frequencies or conventional cable TV channels.

Selecting the antenna

After confirming that the Mode switch on the remote control unit has been set to “TV”, press ANT on the remote control unit to select antenna A or B.
- Make this selection depending on the connections to the antenna input terminals on the Media Receiver (pages 24 to 26).

Changing channels

Using CH +/- on the remote control unit
- Press CH + to increase the channel number.
- Press CH – to decrease the channel number.

**NOTE**
- CHANNEL +/- on the Plasma Display operates the same as CH +/-.

Using CH RETURN on the remote control unit

Press CH RETURN to switch the currently tuned channel to the previously tuned channel.
Press CH RETURN again to switch back to the currently tuned channel.

Using 0 – 9 on the remote control unit

Select channels directly by pressing buttons 0 to 9.

**EXAMPLE**
- To select channel 5 (1-digit channel), press 5.
- To select channel 25 (2-digit channel), press 2, followed by 5.
- To select channel 125 (3-digit channel), press 1, then 2, followed by 5.

**NOTE**
- After entering a channel number, you may press CH ENTER to tune in the channel more quickly.
Basic Operations

Changing the volume and sound

Using VOL +/- on the remote control unit
• To increase the volume, press VOL +.
• To decrease the volume, press VOL -.

NOTE
• VOLUME +/- on the Plasma Display operates the same as VOL +/-.

Using MUTING on the remote control unit
MUTING mutes the current sound output.

1 Press MUTING.
• “●” appears on the screen.

2 Press MUTING again to cancel the mute mode.
• Pressing VOL + can also cancel the mute mode.
Setting MTS/SAP mode
The Plasma Display System has a feature that allows reception of sound other than the main audio for the program. This feature is called Multi-channel Television Sound (MTS). The Plasma Display System with MTS can receive mono sound, stereo sound and Secondary Audio Programs (SAP). The SAP feature allows a TV station to broadcast other information, which could be audio in another language or something completely different like weather information.

You can enjoy Hi-Fi stereo sound or SAP broadcasts where available.

- Stereo broadcasts
  View programs like live sporting events, shows and concerts in dynamic stereo sound.

- SAP broadcasts
  Receive TV broadcasts in either MAIN or SAP sound. MAIN sound: The normal program soundtrack (either in mono or stereo). SAP sound: Listen to second language, supplementary commentary and other information. (SAP is mono sound.)

If stereo sound is difficult to hear:
- Obtain a clearer sound by manually switching to the MONO mode.

**NOTE**
- Once the MONO mode is selected, the Plasma Display System sound remains mono even if the system receives a stereo broadcast. You must reselect the STEREO mode if you want to hear stereo sound again.
- Selecting MTS while the input source is INPUT 1 to 4 or PC does not change the type of sound. In this case, sound is determined by the video source.

For more information, see page 33.
When receiving STEREO sound signals

- In STEREO mode
  - A 125
  - STEREO

- In SAP mode
  - A 125
  - STEREO

- In MONO mode
  - A 125
  - MONO

When receiving STEREO + SAP sound signals

- In STEREO mode
  - A 125
  - STEREO (SAP)

- In SAP mode
  - A 125
  - SAP (STEREO)

- In MONO mode
  - A 125
  - MONO (SAP)

When receiving MAIN + SAP sound signals

- In STEREO mode
  - A 125
  - MAIN (SAP)

- In SAP mode
  - A 125
  - SAP (MAIN)

- In MONO mode
  - A 125
  - MONO (SAP)

When receiving MONO sound signals

- In STEREO mode
  - A 125
  - MONO

- In SAP mode
  - A 125
  - MONO

- In MONO mode
  - A 125
  - MONO
**Basic Operations**

### Watching digital TV channels

Unless you set up digital TV channels that you can watch under the current conditions, you cannot tune in those channels. For the procedure, see “Setting up digital TV channels” on page 44.

### Selecting the digital TV input

After confirming that the Mode switch on the remote control unit has been set to “TV”, press DTV on the remote control unit to select the input source for digital TV channels.

### Changing channels

**Using CH +/- on the remote control unit**

- Press CH + to increase the channel number.
- Press CH – to decrease the channel number.

**Note**

- CHANNEL +/- on the Plasma Display operates the same as CH +/-.

**Using CH RETURN on the remote control unit**

Press CH RETURN to switch the currently tuned channel to the previously tuned channel. Press CH RETURN again to switch back to the currently tuned channel.

**Using 0 – 9 and • (dot) on the remote control unit**

Select channels directly by pressing buttons 0 to 9. To select subchannels, also use the • (dot) button.

**Example**

- To select channel 5 (1-digit channel), press 5.
- To select channel 25 (2-digit channel), press 2, followed by 5.
- To select channel 125 (3-digit channel), press 1, then 2, followed by 5.
- To select subchannel 2.1, press 2, • (dot), then 1.
- To select subchannel 10.1, press 1, 0, • (dot), then 1.

**Note**

- After entering a channel or subchannel number, you may press CH ENTER to tune in the channel more quickly.
Basic Operations

Changing the volume and sound

Using VOL +/- on the remote control unit
• To increase the volume, press VOL +.
• To decrease the volume, press VOL –.

NOTE
• VOLUME +/- on the Plasma Display operates the same as VOL +/-.

Using MUTING on the remote control unit
MUTING mutes the current sound output.
1 Press MUTING.
   • "M" appears on the screen.
2 Press MUTING again to cancel the mute mode.
   • Pressing VOL + can also cancel the mute mode.

Changing the language

If you have selected a digital TV program that provides multi-language services, you can switch among the languages by pressing MTS on the remote control unit.

Each time you press MTS, the language switches.

NOTE
• Switchable languages differ depending on the current broadcast.
• If the language selected through language setting is available when the channel or program is changed, you will hear that language.
**Viewing DTV banners**

While watching a digital TV program, pressing **DTV INFO** causes the following banner to appear.

- **1.** Station name
- **2.** Channel number
- **3.** Program time schedule
- **4.** Program title
- **5.** Date
- **6.** Time
- **7.** Appears if closed captions (CC) are available.
- **8.** Shows the parental control ratings.
- **9.** Shows available audio services.
- **10.** Information about the program

**NOTE**

- The above information is not displayed if not included in broadcast signals.

**Using the multiscreen functions**

**Splitting the screen**

Use the following procedure to select the 2-screen or picture-in-picture mode.
Basic Operations

1 Press SPLIT to select the display mode.
   • Each time you press SPLIT, the display mode is switched among 2-screen, picture-in-picture, and single-screen.

2 When in the 2-screen or picture-in-picture mode, press ◀/▶ to select a screen to be active.
   • “►” appears on the active screen, which outputs sound.

3 To select the desired input source, press the appropriate input source button.
   • If watching TV programs, press CH +/- to change the channel.

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.
• When you press HOME MENU, DTV GUIDE, or DTV INFO, the single-screen mode is restored and the corresponding menu is displayed.

Freezing images
Use the following procedure to capture and freeze one frame from a moving image that you are watching.

1 Press FREEZE.
   • A still image appears on the right screen while a moving image is shown on the left screen.

2 Press FREEZE again to cancel the function.

NOTE
• With the screen split, any image cannot be frozen.
• When this function is not available, a warning message appears.
## Basic Adjustment Settings

### Using the menu

#### AV mode menus

<table>
<thead>
<tr>
<th>Home Menu</th>
<th>Item</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Picture</td>
<td>AV Selection</td>
<td>Select from the five display mode options: STANDARD, DYNAMIC, MOVIE, GAME, USER.</td>
<td>47</td>
</tr>
<tr>
<td></td>
<td>Contrast</td>
<td>Adjusts the picture between light and shade.</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td>Brightness</td>
<td>Adjusts picture brightness.</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td>Color</td>
<td>Adjusts color intensity.</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td>Test</td>
<td>Adjusts skin color to a more natural tone.</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td>Sharpness</td>
<td>Adjusts picture sharpness.</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td>Pro Adjust</td>
<td>Adjusts the levels of PureCinema, Color, Temp, MPEG NR, DNR, CTI, DRE, and Color Management</td>
<td>49–53</td>
</tr>
<tr>
<td></td>
<td>Reset</td>
<td>All image adjustment settings return to the factory defaults.</td>
<td>49</td>
</tr>
<tr>
<td>Sound</td>
<td>Treble</td>
<td>Adjusts the treble weaker or stronger.</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td>Bass</td>
<td>Adjusts the bass weaker or stronger.</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td>Balance</td>
<td>Adjusts audio output between left and right speakers.</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td>Reset</td>
<td>All audio adjustment settings return to the factory defaults.</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td>FOCUS</td>
<td>Shift the sound coming direction (sound images) upward and produces clear sound contours.</td>
<td>54</td>
</tr>
<tr>
<td></td>
<td>Front Surround</td>
<td>Provides three-dimensional sound effects and/or deep, rich bass.</td>
<td>54</td>
</tr>
<tr>
<td>Power Control</td>
<td>Energy Save</td>
<td>Saves power by decreasing picture brightness.</td>
<td>55</td>
</tr>
<tr>
<td></td>
<td>No Signal off</td>
<td>Places the system into the standby mode when no signal is received for 15 minutes.</td>
<td>55</td>
</tr>
<tr>
<td></td>
<td>No Operation off</td>
<td>Places the system into the standby mode when no operation is performed for three hours.</td>
<td>56</td>
</tr>
<tr>
<td>Sleep Timer</td>
<td>Position</td>
<td>Automatically places the system into the standby mode when the selected time elapses.</td>
<td>85</td>
</tr>
<tr>
<td>Option</td>
<td>Position</td>
<td>Adjusts the vertical and horizontal positions of displayed images.</td>
<td>81</td>
</tr>
<tr>
<td></td>
<td>Side Mask</td>
<td>With the 4:3 screen size selected, sets the brightness of the gray side masks that appear at both sides of the screen.</td>
<td>84</td>
</tr>
<tr>
<td>Setup</td>
<td>Channel Setup</td>
<td>Sets up for conventional TV channels.</td>
<td>41, 42</td>
</tr>
<tr>
<td></td>
<td>Favorite Channel</td>
<td>Sets your favorite TV channels to the four color buttons on the remote control unit.</td>
<td>43</td>
</tr>
<tr>
<td></td>
<td>Parental Control</td>
<td>Prevents your children from watching specified types of TV programs.</td>
<td>90–94</td>
</tr>
<tr>
<td></td>
<td>Password</td>
<td>Prevents other persons from changing especially Parental Control settings.</td>
<td>95, 96</td>
</tr>
<tr>
<td></td>
<td>Closed Caption</td>
<td>Sets up for closed captions for conventional TV channels. For DTV channels, use &quot;DTV Closed Caption&quot; under &quot;DTV Setup.&quot;</td>
<td>86</td>
</tr>
<tr>
<td></td>
<td>Clock</td>
<td>Corrects the date and time.</td>
<td>46, 47</td>
</tr>
<tr>
<td></td>
<td>Language</td>
<td>Select the language to be used for on-screen display such as menus and instructions.</td>
<td>46</td>
</tr>
<tr>
<td>DTV Setup</td>
<td>DTV Channel Setup</td>
<td>Sets up for receiving DTV channels.</td>
<td>44–45</td>
</tr>
<tr>
<td></td>
<td>DTV Closed Caption</td>
<td>Sets up for closed captions for DTV channels.</td>
<td>87–89</td>
</tr>
<tr>
<td></td>
<td>Digital Audio Out</td>
<td>Sets up for optical digital audio output.</td>
<td>69</td>
</tr>
<tr>
<td></td>
<td>i.LINK Setup</td>
<td>Sets up for the i.LINK interface.</td>
<td>73–76</td>
</tr>
<tr>
<td></td>
<td>YCR Control</td>
<td>Sets up for the manufacture and model of recording equipment to be connected.</td>
<td>78, 79</td>
</tr>
<tr>
<td>Rec/View Timer</td>
<td>Allows you to make DTV program presets by manually specifying date and time.</td>
<td>62–64</td>
<td></td>
</tr>
</tbody>
</table>
## Basic Adjustment Settings

### PC mode menus

<table>
<thead>
<tr>
<th>Home Menu</th>
<th>Item</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Picture</td>
<td>AV Selection</td>
<td>Select from the two display mode options: STANDARD and USER.</td>
<td>47</td>
</tr>
<tr>
<td></td>
<td>Contrast</td>
<td>Adjusts the picture between light and shade.</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td>Brightness</td>
<td>Adjusts picture brightness.</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td>Red</td>
<td>Adjusts red color intensity.</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td>Green</td>
<td>Adjusts green color intensity.</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td>Blue</td>
<td>Adjusts blue color intensity.</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td>Reset</td>
<td>All image adjustment settings return to the factory defaults.</td>
<td>49</td>
</tr>
<tr>
<td>Sound</td>
<td>Treble</td>
<td>Adjusts the treble weaker or stronger.</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td>Bass</td>
<td>Adjusts the bass weaker or stronger.</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td>Balance</td>
<td>Adjusts audio output between left and right speakers.</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td>Reset</td>
<td>All audio adjustment settings return to the factory defaults.</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td>FOCUS</td>
<td>Shifts the sound coming direction (sound images) upward and produces clear sound contours.</td>
<td>54</td>
</tr>
<tr>
<td></td>
<td>Front Surround</td>
<td>Provides three-dimensional sound effects and/or deep, rich bass.</td>
<td>54</td>
</tr>
<tr>
<td>Power Control</td>
<td>Energy Save</td>
<td>Saves power by decreasing picture brightness.</td>
<td>55</td>
</tr>
<tr>
<td></td>
<td>Power Management</td>
<td>Automatically places the system into the standby mode when no signal is received from the personal computer.</td>
<td>56</td>
</tr>
<tr>
<td>Sleep Timer</td>
<td></td>
<td>Automatically places the system into the standby mode when the selected time elapses.</td>
<td>85</td>
</tr>
<tr>
<td>Option</td>
<td>Auto Setup</td>
<td>Automatically optimizes image positions and clock.</td>
<td>81</td>
</tr>
<tr>
<td></td>
<td>Manual Setup</td>
<td>Allows you to manually adjust image positions and clock.</td>
<td>82</td>
</tr>
</tbody>
</table>
09 Basic Adjustment Settings

Menu operation keys
Use the following keys on the remote control to operate the menu. For detailed menu operations, see appropriate pages that describe individual functions.

HOME MENU: Press to open or close the Home menu.
↑↓: Press to select a menu item. For some menu items, you can select parameters using these keys.
←→: Press to select a parameter or adjustment level for menu items.
ENTER: Press to proceed to lower menu levels. For some menu items, you need to press this key to complete selections.
RETURN: Press to return to upper menu levels.
Basic Adjustment Settings

Setting up conventional TV channels
This section describes how to search and set up conventional TV channels that you can watch under the current conditions. Unless you set up conventional TV channels using Auto channel Preset, you may not be able to tune in those channels.

NOTE
• Conventional TV channels in this manual designate TV channels that are received through the conventional VHF/UHF frequencies or conventional cable TV channels.

Using Auto Channel Preset
Auto Channel Preset automatically searches and sets up conventional TV channels.

1 Press HOME MENU.

2 Press \( \downarrow \) to select "Setup", and then press ENTER.

3 Press \( \downarrow \) to select "Channel Setup", and then press ENTER.

4 Press \( \downarrow \) to select "Auto Channel Preset", and then press ENTER.

5 Press \( \downarrow \) to select “Antenna”, and then press \( \downarrow \) to select "A" or "B".

6 Press \( \downarrow \) to select “Air/Cable”, and then press \( \downarrow \) to select “Air” or "Cable”.

7 Press \( \uparrow \) to select “Preset:Start”, and then press ENTER.

• Channel search automatically starts.

8 After Auto Channel Preset has been finished, press HOME MENU to exit the menu.

NOTE
• When using the Cable Converter, you may need to manually add Cable Converter output channels.

• To quit Auto Channel Preset halfway, press RETURN.
Setting for skipping unwanted channels

From among conventional TV channels searched and set up using Auto Channel Preset, you can select channels to be skipped when CH +/- are operated.

1. Press HOME MENU.
2. Press ▲▼ to select “Setup”, and then press ENTER.
3. Press ▲▼ to select “Channel Setup”, and then press ENTER.
4. Press ▲▼ to select “Channel ADD/DEL”, and then press ENTER.
5. Press ▲▼ to select “Antenna”, and then press ▲▼ to select “A” or “B”.

6. Press ▲▼ to select “Channel”, and then press ▲▼ to select a channel to be skipped.

7. Press ▲▼ to select “Add/Delete”, and then press ▲▼ to select “Delete”.

8. Press HOME MENU to exit the menu.

NOTE
- To restore skipped channels, use the above procedure except that you select “Add” in step 7.
- When using the Cable Converter, you may need to manually add Cable Converter output channels.
**Basic Adjustment Settings**

**Setting your favorite channels**

Set up to four TV channels to each of the four color buttons on the remote control unit (16 channels in total). You can then quickly select from only your favorite channels. You can program these buttons with conventional channels.

1. Select and tune to a TV channel to be registered.
2. Press HOME MENU.
3. Press \(\uparrow/\downarrow\) to select “Setup”, and then press ENTER.
4. Press \(\uparrow/\downarrow\) to select “Favorite Channel”, and then press ENTER.

5. Press \(\uparrow/\downarrow\) and \(\leftarrow/\rightarrow\) to select a location where the TV channel is to be registered, and then press ENTER.

6. Press ENTER to execute the registration.
   - Before pressing ENTER, you can also change a TV channel to be registered. Press \(\uparrow/\downarrow\) to select ANT A or ANT B, and then press \(\leftarrow/\rightarrow\) to select a TV channel. To clear the channel registered at the current location, select “-” by pressing \(\uparrow/\downarrow\) and then press ENTER.
   - To register another TV channel at a different location, select a TV channel, and then repeat steps 5 and 6.

7. Press HOME MENU to exit the menu.

**NOTE**

- You cannot program the four color buttons with digital TV channels.
Setting up digital TV channels
This section describes how to search and set up
digital TV channels that you can watch under the
current conditions. Unless you set up digital TV
channels using Auto Channel Preset, you cannot
tune in those channels.

Using Auto Channel Preset
Auto Channel Preset automatically searches and
sets up digital TV channels.

1 Press HOME MENU.
2 Press \ to select “DTV Setup”, and then
press ENTER.
3 Press \ to select “DTV Channel Setup”,
and then press ENTER.
4 Press \ to select “Auto Channel Preset”,
and then press ENTER.
5 Press \ to select “Air” or “Cable”.
6 Press \ to select “Start”, and then press
ENTER.

• Channel search automatically starts.

7 Press HOME MENU to exit the menu.

NOTE
• With “Cable” selected, this system can receive only
digital TV signals (Standard Channel Plan) with the
8VSB modulation. This system does not support the
QAM modulation.
Setting for skipping unwanted channels
From among digital TV channels searched and set up using Auto Channel Preset, you can select channels to be skipped when CH +/- are operated.

1. Press HOME MENU.
2. Press ▲▼ to select “DTV Setup”, and then press ENTER.
3. Press ▲▼ to select “DTV Channel Setup”, and then press ENTER.
4. Press ▲▼ to select “Channel Add/Del”, and then press ENTER.
5. Press ▲▼ to select “Channel”.
6. Press ▲▼ to select a channel to be skipped.

7. Press ▲▼ to select “Add/Delete”.
8. Press ▲▼ to select “Delete”.

9. Press HOME MENU to exit the menu.

NOTE
- To restore skipped channels, use the above procedure except that you select “Add” in step 8.

Checking signal strength
When watching a digital TV program, you can check its current signal strength.

1. Press HOME MENU.
2. Press ▲▼ to select “DTV Setup”, and then press ENTER.
3. Press ▲▼ to select “DTV Channel Setup”, and then press ENTER.
4. Press ▲▼ to select “Signal Strength”, and then press ENTER.

- Adjust the direction of the antenna so that the current signal strength reaches as close to the maximum signal strength as possible.

5. Press HOME MENU to exit the menu.
**Basic Adjustment Settings**

**Language setting**
You can select a language to be used for on-screen display such as menus from among three languages; English, French, and Spanish.

1. Press **HOME MENU**.
2. Press ↑/↓ to select “Setup”, and then press **ENTER**.
3. Press ↑/↓ to select “Language”, and then press **ENTER**.
4. Press ↑/↓ to select a language.

5. Press **HOME MENU** to exit the menu.

**Clock setting**
Use the following procedure to set the time correctly. If you disconnect the power cord from the power outlet or power blackout occurs after setting the time, the set time is cleared. With “Auto” selected for Clock Setting, time information is then acquired and set automatically. With “Manual” selected, you then need to manually set the correct time again.

1. Press **HOME MENU**.
2. Press ↑/↓ to select “Setup”, and then press **ENTER**.
3. Press ↑/↓ to select “Clock”, and then press **ENTER**.
4. Press ↑/↓ to select “Clock Setting”, and then press ↑/↓ to select “Auto” or “Manual”.

- If you select “Auto”, the date and time will be automatically corrected.
5. Press ↑/↓ to select “Clock Set Channel”, and then press ←/→ to select a TV channel to be used for auto clock setting.
6. Press ↑/↓ to select “Time Zone”, and then press ←/→ to select a time zone for your area.
7. Press ↑/↓ to select “D.S.T.”, and then press ←/→ to select “On” or “Off” depending on whether summer time is employed in your area.

**NOTE**
- When selecting “Auto” for “Clock Setting”, be sure to connect the Antenna B input terminal to the output of the VHF/UHF antenna or Cable Converter. See page 26.
8 Press \(\uparrow/\downarrow\) to select “Time & Date”, and then press ENTER.
- The date & time entry screen appears. Enter the current date and time using \(\uparrow/\downarrow\) and \(\leftarrow/\rightarrow\), and then press ENTER.

9 Press HOME MENU to exit the menu.

**NOTE**
- When the time has not yet been set, the REC TIMER indicator on the front of the Media Receiver blinks.
- When the time has not yet been set, you cannot view EPG information, use auto channel select, and preset TV programs for recording.

### AV Selection

AV Selection gives you five viewing options to choose from to best match the Plasma Display System environment, which can vary due to factors like room brightness, type of program watched or the type of image input from external equipment.

1 Press AV SELECTION.
- Present AV Selection mode appears.

2 Press AV SELECTION again before the mode displayed on the screen disappears.
- For AV source, the mode is switched in the order; STANDARD, DYNAMIC, MOVIE, GAME, then USER.
- For PC source, the mode is switched between STANDARD and USER.
Basic Adjustment Settings

You can also use the menu to change the options.

1. Press HOME MENU.
2. Press \ to select “Picture”, and then press ENTER.
3. Press \ to select “AV Selection”, and then press ENTER.
4. Press \ to select the desired option, and then press ENTER.

### AV Selection

<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>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</td>
</tr>
<tr>
<td>GAME</td>
<td>Lowers image brightness for easier viewing.</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>

5. Press HOME MENU to exit the menu.

Picture adjustments

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

1. Press HOME MENU.
2. Press \ to select “Picture”, and then press ENTER.
3. Press \ to select an item to be adjusted, and then press ENTER.

### Picture

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV Selection</td>
<td>STANDARD</td>
</tr>
<tr>
<td>Contrast</td>
<td>40</td>
</tr>
<tr>
<td>Brightness</td>
<td>0</td>
</tr>
<tr>
<td>Color</td>
<td>0</td>
</tr>
<tr>
<td>Tint</td>
<td>0</td>
</tr>
<tr>
<td>Sharpness</td>
<td>0</td>
</tr>
<tr>
<td>Pro Adjust</td>
<td>003</td>
</tr>
</tbody>
</table>

4. Press \ to select the desired level, and then press ENTER.

- When an adjustment screen is in display, you can also change an item to be adjusted, by pressing \.

5. Press HOME MENU to exit the menu.
Basic Adjustment Settings

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>

For PC source, the following screen appears:

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

1. Press HOME MENU.
2. Press ↑↓ to select “Picture”, and then press ENTER.
3. Press ↑↓ to select “Pro Adjust”, and then press ENTER.
4. Press ↑↓ to select “PureCinema”, and then press ENTER.
5. Press ↑↓ to select the desired parameter, and then press ENTER.

• To make settings for “PureCinema”, “Color Temp”, “MPEG NR”, “DNR”, “CTI”, “DRE”, and “Color Management”, select “Pro Adjust” in step 3, and then press ENTER. For the subsequent procedures, see pages 49 to 52.

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

**NOTE**

- You cannot select “Standard” when 480p or 720p signals are being input.
09 Basic Adjustment Settings

Color temperature
Adjust the color temperature to give a better white balance.

1 Press HOME MENU.
2 Press ↑/↓ to select “Picture”, and then press ENTER.
3 Press ↑/↓ to select “Pro Adjust”, and then press ENTER.
4 Press ↑/↓ to select “Color Temp”, and then press ENTER.
5 Press ↑/↓ to select the desired level, and then press ENTER.

![Color Temp]

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

![NOTE]

You can manually adjust the color temperature, using the following procedure:

1 Select “Manual” in step 5 above, and then press and hold ENTER for more than three seconds to display the manual adjustment screen.
2 Press ↑/↓ to select an item to be adjusted, and then press ENTER.
3 Press ↑/↓ to select the desired level, and then press ENTER.
4 Press HOME MENU to exit the menu.

- To perform adjustment for another item, press RETURN, and then repeat steps 2 and 3.
- You may press ↑/↓ to immediately change an item to be adjusted.

6 Press HOME MENU to exit the menu.
Basic Adjustment Settings

MPEG NR
This eliminates mosquito noise from video images when a DTV channel is watched or a DVD is played, resulting in noise-free images.

1. Press HOME MENU.
2. Press †/‡ to select “Picture”, and then press ENTER.
3. Press †/‡ to select “Pro Adjust”, and then press ENTER.
4. Press †/‡ to select “MPEG NR”, and then press ENTER.
5. Press †/‡ to select the desired parameter, and then press ENTER.
6. Press HOME MENU to exit the menu.

DNR
Select the DNR (Digital Noise Reduction) level to eliminate video noise for a clean crisp image.

1. Press HOME MENU.
2. Press †/‡ to select “Picture”, and then press ENTER.
3. Press †/‡ to select “Pro Adjust”, and then press ENTER.
4. Press †/‡ to select “DNR”, and then press ENTER.
5. Press †/‡ to select the desired level, and then press ENTER.
6. Press HOME MENU to exit the menu.
09 Basic Adjustment Settings

CTI
Use the CTI (Color Transient Improvement) to make images have clearer color contours.

1 Press HOME MENU.
2 Press ▲▼ to select “Picture”, and then press ENTER.
3 Press ▲▼ to select “Pro Adjust”, and then press ENTER.
4 Press ▲▼ to select “CTI”, and then press ENTER.
5 Press ▲▼ to select the desired parameter, and then press ENTER.

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

6 Press HOME MENU to exit the menu.

DRE
Use the DRE (Dynamic Range Expander) to adjust dark and bright portions on images so that the contrast between brightness and darkness becomes clearer.

1 Press HOME MENU.
2 Press ▲▼ to select “Picture”, and then press ENTER.
3 Press ▲▼ to select “Pro Adjust”, and then press ENTER.
4 Press ▲▼ to select “DRE”, and then press ENTER.
5 Press ▲▼ to select the desired parameter, and then press ENTER.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>Deactivates the DRE.</td>
</tr>
<tr>
<td>High</td>
<td>Enhanced DRE</td>
</tr>
<tr>
<td>Mid</td>
<td>Standard DRE</td>
</tr>
<tr>
<td>Low</td>
<td>Moderate DRE</td>
</tr>
</tbody>
</table>

6 Press HOME MENU to exit the menu.
Basic Adjustment Settings

Color Management
Perform fine hue adjustment for each basic color.

1 Press HOME MENU.
2 Press \( \downarrow \uparrow \) to select “Picture”, and then press ENTER.
3 Press \( \downarrow \uparrow \) to select “Pro Adjust”, and then press ENTER.
4 Press \( \downarrow \uparrow \) to select “Color Management”, and then press ENTER.
5 Press \( \downarrow \uparrow \) to select an item to be adjusted, and then press ENTER.

6 Press \( \downarrow \uparrow \) to select the desired level.

<table>
<thead>
<tr>
<th>Item</th>
<th>( \leftarrow ) button</th>
<th>( \rightarrow ) button</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>Closer to magenta</td>
<td>Closer to yellow</td>
</tr>
<tr>
<td>Yellow</td>
<td>Closer to red</td>
<td>Closer to green</td>
</tr>
<tr>
<td>Green</td>
<td>Closer to yellow</td>
<td>Closer to cyan</td>
</tr>
<tr>
<td>Cyan</td>
<td>Closer to green</td>
<td>Closer to blue</td>
</tr>
<tr>
<td>Blue</td>
<td>Closer to cyan</td>
<td>Closer to magenta</td>
</tr>
<tr>
<td>Magenta</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 5 and 6.
- You may press \( \downarrow \uparrow \) to immediately change an item to be adjusted.

7 Press HOME MENU to exit the menu.

Sound adjustments
Adjust the sound to your preference for the chosen AV Selection option. See page 47.

1 Press HOME MENU.
2 Press \( \downarrow \uparrow \) to select “Sound”, and then press ENTER.
3 Press \( \downarrow \uparrow \) to select an item to be adjusted, and then press \( \downarrow \uparrow \) to select the desired level.

### Sound [STANDARD]

<table>
<thead>
<tr>
<th>Item</th>
<th>( \leftarrow ) button</th>
<th>( \rightarrow ) button</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treble</td>
<td>For weaker treble</td>
<td>For stronger treble</td>
</tr>
<tr>
<td>Bass</td>
<td>For weaker bass</td>
<td>For stronger bass</td>
</tr>
<tr>
<td>Balance</td>
<td>Decreases audio from the right speaker</td>
<td>Decreases audio from the left speaker</td>
</tr>
<tr>
<td>FOCUS</td>
<td>Off</td>
<td>Off</td>
</tr>
<tr>
<td>Front Surround</td>
<td>Off</td>
<td>Off</td>
</tr>
</tbody>
</table>

4 Press HOME MENU to exit the menu.

**NOTE**
- To restore the factory defaults for all the items, press \( \downarrow \uparrow \) to select “Reset” in step 3, and then press ENTER. A confirmation screen appears. Press \( \downarrow \uparrow \) to select “Yes”, and then press ENTER.
09 Basic Adjustment Settings

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

1 Press HOME MENU.
2 Press †/‡ to select “Sound”, and then press ENTER.
3 Press †/‡ to select “FOCUS”, and then press †/‡ to select the desired parameter.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off (factory default)</td>
<td>Deactivates the FOCUS.</td>
</tr>
<tr>
<td>On</td>
<td>Activates the FOCUS.</td>
</tr>
</tbody>
</table>

4 Press HOME MENU to exit the menu.

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

1 Press HOME MENU.
2 Press †/‡ to select “Sound”, and then press ENTER.
3 Press †/‡ to select “Front Surround”, and then press †/‡ to select the desired parameter.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>Deactivates both the SRS and TruBass.</td>
</tr>
</tbody>
</table>
| SRS         | Produces highly effective three-
| (factory default) | dimensional sound. |
| TruBass     | Provides deep, rich bass using a new |
| TruBass + SRS | technology. |
|             | Provides both TruBass and SRS effects. |

4 Press HOME MENU to exit the menu.

NOTE
- (WOW) designates a status where the FOCUS is on and TruBass + SRS has been selected for Front Surround.
- * is a trademark of SRS Labs, Inc.
- WOW technology is incorporated under license from SRS Labs, Inc.
Basic Adjustment Settings

Power Control
Power Control provides convenient functions for power saving.

Power Control for AV source
Energy Save
Power consumption is saved by decreasing picture brightness.

1. Press HOME MENU.
2. Press ▲▼ to select “Power Control”, and then press ENTER.
3. Press ▲▼ to select “Energy Save”, and then press ENTER.
4. Press ▲▼ to select “Save”, and then press ENTER.

Energy Save

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>Does not decrease picture brightness. (factory default)</td>
</tr>
<tr>
<td>Save</td>
<td>Decreases picture brightness to save power.</td>
</tr>
</tbody>
</table>

5. Press HOME MENU to exit the menu.

NOTE

- You can also select this function using the Home menu when the input source is a PC.

No Signal off
The system will be automatically placed into the standby mode if no signal is received for 15 minutes.

1. Press HOME MENU.
2. Press ▲▼ to select “Power Control”, and then press ENTER.
3. Press ▲▼ to select “No Signal off”, and then press ENTER.
4. Press ▲▼ to select “Enable”, and then press ENTER.

No Signal off

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disable</td>
<td>Does not place the system into the standby mode. (factory default)</td>
</tr>
<tr>
<td>Enable</td>
<td>Places the system into the standby mode if no signal is received for 15 minutes.</td>
</tr>
</tbody>
</table>

5. Press HOME MENU to exit the menu.

NOTE

- Five minutes before the system is placed into the standby mode, a message appears every minute.
- The system may not be placed into the standby mode when noise signals are present at the Media Receiver after a TV program finishes.
No Operation off
The system will be automatically placed into the standby mode when no operation is performed for three hours.

1. Press HOME MENU.
2. Press ‡/§ to select “Power Control”, and then press ENTER.
3. Press ‡/§ to select “No Operation off”, and then press ENTER.
4. Press ‡/§ to select “Enable”, and then press ENTER.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disable</td>
<td>Does not place the system into the standby mode.</td>
</tr>
<tr>
<td>Enable</td>
<td>Places the system into the standby mode if no operation is performed for three hours.</td>
</tr>
</tbody>
</table>

5. Press HOME MENU to exit the menu.

NOTE
* Five minutes before the system is placed into the standby mode, a message appears every minute.

Power Control for PC source

Power Management
The system will be automatically placed into the standby mode when no signal is received from the personal computer.

1. Press HOME MENU.
2. Press ‡/§ to select “Power Control”, and then press ENTER.
3. Press ‡/§ to select “Power Management”, and then press ENTER.
4. Press ‡/§ to select “Mode1” or “Mode2”, and then press ENTER.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>No power management (factory default)</td>
</tr>
<tr>
<td>Mode1</td>
<td>Uses the system into the standby mode when no signal is received for eight seconds.</td>
</tr>
<tr>
<td></td>
<td>Even when you start using the computer and a signal is received again, the system stays off.</td>
</tr>
<tr>
<td></td>
<td>The system is switched on again by pressing STANDBY/ON on the Plasma Display or TV on the remote control unit.</td>
</tr>
<tr>
<td>Mode2</td>
<td>Uses the system into the standby mode when no signal is received for eight seconds.</td>
</tr>
<tr>
<td></td>
<td>When you start using the computer and a signal is received again, the system is switched on.</td>
</tr>
<tr>
<td></td>
<td>The system is switched on again by pressing STANDBY/ON on the Plasma Display or TV on the remote control unit.</td>
</tr>
</tbody>
</table>

5. Press HOME MENU to exit the menu.
Electronic Program Guide (EPG) (for DTV Only)

EPG display format
The Electronic Program Guide (EPG) shows the table of scheduled digital TV programs and detailed information about individual programs. It also allows you to easily select and tune to a desired program.

The EPG Screen consists of the schedule window, information window, and picture window. This section describes information to be displayed on the schedule and information windows. The picture window shows moving images of a TV program watched when DTV GUIDE is pressed.

**NOTE**
- For digital TV programs that do not provide EPG information, you cannot watch the corresponding EPG information.
- If the current time has not been correctly set, there may be TV programs whose EPG information is not displayed.

**Schedule window**

1. Current date and time
2. Appears when the schedule table can be scrolled forward or backward.
3. Time schedule
4. Station name
5. Channel number
6. Program title
7. Highlights the currently selected channel.
8. Appears when other programs (often short ones) have been scheduled for the period.

**Information window**

- Appears when the schedule table can be scrolled forward or backward.
- Time schedule
- Station name
- Channel number
- Program title
- Highlights the currently selected channel.
- Appears when other programs (often short ones) have been scheduled for the period.
**Electronic Program Guide (EPG) (for DTV Only)**

**Information window**

1. Station name
2. Channel number
3. Program time schedule
4. Program title
5. A blue icon appears when the program has been preset for auto channel select; and a red icon appears when it has been preset for recording.
6. Appears when other programs have been scheduled for the period. You will find this arrow only for programs with (8) shown on the schedule window.
7. Shows services available for the program and ratings for parent control.
8. Information about the program

**NOTE**

- The schedule window may show sections whose bottom right corners have been folded. This indicates that other programs (often short ones) have been scheduled for that period. To view the title of such a program and related information, highlight a folded section, and then press 
- For programs whose title and/or time information have not been acquired, “No Title” appears.

**Using the EPG**

Use the following procedure to check the schedule of digital TV programs, view information about desired programs, and/or select programs to watch.

1. Press DTV GUIDE.
   - The EPG screen appears.
   - “Downloading EPG data now” appears on the picture window.
   - When EPG data acquisition is finished, the picture window shows moving images of a TV program watched when DTV GUIDE is pressed.
2. Press ↑, ↓ and ←, → to select a desired TV program.
   - Information about the selected program appears in the information window.
   - To watch a program currently on air, select the program, and then press ENTER.
   - You can check information about programs scheduled for up to 12 coming hours.
   - Depending on conditions, it may take some time to acquire EPG data.
Electronic Program Guide (EPG) (for DTV Only)

3 To view more information (not current displayed) about the selected program, press DTV INFO.
   • Detailed information appears on the schedule window.

• With ◄ ► shown in the schedule window, you can scroll the window by pressing ◄ ►.
• To quit display of detailed information, press DTV INFO again (or RETURN).

4 To quit the Program Guide, press DTV GUIDE again.

NOTE
• The schedule window does not show finished programs.
• When the power to the system is switched off, all acquired EPG data is cleared.

Presetting TV programs using the EPG
Using the EPG, you can easily preset digital TV programs for watching later (auto channel select), recording with a D-VHS recorder, or recording via a VCR controller.

Using auto channel select
With the power to the system left on, this function automatically selects the preset TV program when its on-air time comes. Then you will not miss watching an important TV program when you are enjoying another TV program.

1 Press DTV GUIDE.
   • The EPG screen appears.
2 Press ◄ ► and ◄ ► to select a program to be preset, and then press ENTER.
   • Select a program not yet started.
   • A setup menu appears.

3 Press ◄ ► to select “Program View”, and then press ENTER.
   • A dialog box for confirmation appears.

• OK
• Cancel
Electronic Program Guide (EPG) (for DTV Only)

4 Press ◄ ► to select “OK”, and then press ENTER.
• The program is preset and the schedule table is restored.
• A blue square icon appears for the preset program.
• A black icon appears for overlapped presettings.

5 Press DTV GUIDE to exit the Program Guide.
With the system switched on, a channel switch alarm message approximately 30 seconds before execution and the channel is switched a short time before the start of the program.

NOTE
• Auto channel select is not executed when the system is in the standby mode.
• Finish presetting operations one minute before the start of the program; otherwise presettings may fail.
• For priorities about overlapped presettings, see “Priority rules for overlapped presettings” on page 63.

Recording TV programs using a D-VHS recorder
Use the following procedure to preset TV programs for recording with a connected D-VHS recorder.

1 Press DTV GUIDE.
• The EPG screen appears.

2 Press ◄ ► and ◄ ► to select a program to be preset, and then press ENTER.
• Select a program not yet started.
• A setup menu appears.

3 Press ◄ ► to select “Program Rec”, and then press ENTER.

4 Press ◄ ► to select “i.LINK”, and then press ENTER.

NOTE
• Auto channel select is not executed when the system is in the standby mode.
• Finish presetting operations one minute before the start of the program; otherwise presettings may fail.
• For priorities about overlapped presettings, see “Priority rules for overlapped presettings” on page 63.
Electronic Program Guide (EPG) (for DTV Only)

5 Press ▲▼ to select the D-VHS recorder model, and then press ENTER.

• A dialog box for confirmation appears.

6 Press ▲▼ to select “OK”, and then press ENTER.
• The program is preset and the schedule table is restored.
• A red square icon appears for the preset program.
• A black icon appears for overlapped presettings.

7 Press DTV GUIDE to exit the Program Guide.

NOTE
• Switch on the recording equipment at least 30 seconds before the start of the preset program; otherwise recording will not be executed.
• Recording is not executed if recordable D-VHS tape is not present in the D-VHS recorder when the preset program starts. This is also true when a D-VHS recorder specified for recording with a timer is not in connection.
• Finish presetting operations two minutes before the start of the program; otherwise presettings may fail.
• For priorities about overlapped presettings, see “Priority rules for overlapped presettings” on page 63.
• If you switch off the system using the POWER button, the program presetting will become ineffective. Be careful not to switch off the power.

Recording TV programs via a VCR controller

If you connect an appropriate VCR controller to the Media Receiver, you can preset digital TV programs for recording with a connected VCR. See page 78.

1 Press DTV GUIDE.
• The EPG screen appears.

2 Press ▲▼ and ▲▼ to select a program to be preset, and then press ENTER.
• A setup menu appears.

3 Press ▲▼ to select “Program Rec”, and then press ENTER.
• A dialog box for mode selection appears.
Electronic Program Guide (EPG) (for DTV Only)

- Setting the timer manually

Using the menu, you can also preset digital TV programs by specifying their scheduled date and time.

1. Press HOME MENU.
2. Press \ or \ to select “Rec/View Timer”, and then press ENTER.
   • The schedule table appears.

- Press HOME MENU to exit the Program Guide.

- NOTE
  • Switch on the recording equipment at least 30 seconds before the start of the preset program; otherwise recording will not be executed.
  • Finish presetting operations two minutes before the start of the program; otherwise presettings may fail.
  • For priorities about overlapped presettings, see “Priority rules for overlapped presettings” on page 63.
  • Confirm that the video output terminals on the Media Receiver have been connected to the signal input terminals on the VCR to be used for recording.
  • If you switch off the system using the POWER button, the program presetting will become ineffective. Be careful not to switch off the power.

- Press \ or \ to select “ANALOG”, and then press ENTER.

- Press \ or \ to select “OK”, and then press ENTER.
  • A dialog box for confirmation appears.

- Press \ or \ to select a list number, then press ENTER.
  • You can select any desired list number.

- Press \ or \ to specify a date, and then press ENTER.

- Press \ or \ to specify the start hour, and then press ENTER.

- Press \ or \ to specify the start minute, and then press ENTER.

- Press \ or \ to specify the end hour, and then press ENTER.

- Press \ or \ to specify the end minute, and then press ENTER.

- Press \ or \ to specify a channel number, and then press ENTER.

- A red square icon appears for the preset program.
- A black icon appears for overlapped presettings.

• A dialog box for confirmation appears.

• The program is preset and the schedule table is restored.

• A red square icon appears for the preset program.

• A black icon appears for overlapped presettings.

• Switch on the recording equipment at least 30 seconds before the start of the preset program; otherwise recording will not be executed.

• Finish presetting operations two minutes before the start of the program; otherwise presettings may fail.

• For priorities about overlapped presettings, see “Priority rules for overlapped presettings” on page 63.

• Confirm that the video output terminals on the Media Receiver have been connected to the signal input terminals on the VCR to be used for recording.

• If you switch off the system using the POWER button, the program presetting will become ineffective. Be careful not to switch off the power.

• A dialog box for confirmation appears.
**Electronic Program Guide (EPG) (for DTV Only)**

10 Press \( \uparrow/\downarrow \) to select “VIEW”, “ANALOG” or a D-VHS recorder, and then press ENTER.

- Select “VIEW” when presetting the program for auto channel select. Select “ANALOG” when presetting it for recording via a VCR controller. Select a D-VHS recorder when presetting it for recording with a D-VHS recorder.
- In the Info field, “View OK” appears when presetting for auto channel select is accepted, and “Rec OK” appears when presetting for recording is accepted.

### Rec/View Timer

<table>
<thead>
<tr>
<th>Timer</th>
<th>Date</th>
<th>Start</th>
<th>Stop</th>
<th>Channel</th>
<th>Target</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>APR 17TH</td>
<td>9:00 PM</td>
<td>11:00 PM</td>
<td>E 12.05</td>
<td>VIEW</td>
<td>View OK</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>4</td>
<td></td>
<td></td>
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<td></td>
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<td>5</td>
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<tr>
<td>6</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

If presetting another program, press \( \uparrow/\downarrow \) to select another list number, and then repeat steps 4 to 6.

- You can preset up to 28 programs.

12 Press HOME MENU to exit the menu.

**NOTE**

- If the schedule of the selected program is overlapped with another presetting, “Overlap” appears in the Info field. Presettigns with “Overlap” may not be partially or entirely executed.
- When entering into the schedule table, pressing ENTER causes the cursor to jump to an empty field.
- Presetting becomes ineffective if the start time and the end time are identical or if presetting operations are performed within two minutes before the start of the program.
- Presettigns made using the EPG are automatically shown in the schedule table.
- For presetting made using the EPG, “E” appears beside the channel number in the schedule table. If you alter the presetting content, “E” disappears.
- For priorities about overlapped presettings, see “Priority rules for overlapped presettings” on page 63.
- If you switch off the system using the POWER button, the program presetting will become ineffective. Be careful not to switch off the power.

### Priority rules for overlapped presettings

When preset TV programs are overlapped, the following three rules are used to determine a higher priority. If more than one of the three rules are met, the rules are applied in the order: 1, 2, then 3.

**Rule 1:** Presetting for recording is given a higher priority over presetting for auto channel select.

**Rule 2:** If two presettings are overlapped, presetting with earlier start time is given a higher priority. If two presettings are sequential, the last portion of the first program is not recorded for 15 seconds because recording of the second program is started at the exact start time.

**Rule 3:** If presettings at the same start time are overlapped, presetting with a smaller list number is given a higher priority.
**10** Electronic Program Guide (EPG) (for DTV Only)

### Changing/ canceling TV program presettings

#### Using the EPG

Use the following procedure to change or cancel program presettings using the EPG.

1. **Press DTV GUIDE.**
   - The EPG screen appears.
2. **Press  and  to select the desired preset program, and then press ENTER.**
   - A dialog box appears.
3. **Press  to select “Edit” or “Delete”, and then press ENTER.**
   - A dialog box for confirmation appears.

**PLASMA DISPLAY**

Select [Edit] or [Delete].

- **Edit** or **Delete**

**NOTE**

- If you select “Delete”, the program presetting is canceled.
- If you select “Edit”, go to step 4.

4. **Press  and  to make new selections, and then press ENTER.**
   - A dialog box for confirmation appears.
5. **Press  to select “OK”, and then press ENTER.**
   - The presetting is corrected and the schedule table is restored.

**Using the menu**

Use the following procedure to change or cancel program presettings using the menu.

1. **Press HOME MENU.**
2. **Press  to select “Rec/View Timer”, and then press ENTER.**
   - The schedule table appears.

**Rec/View Timer**

<table>
<thead>
<tr>
<th>Date</th>
<th>Start</th>
<th>Stop</th>
<th>Channel</th>
<th>Target</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>2</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>3</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>4</td>
<td>--</td>
<td>--</td>
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<td>--</td>
<td>--</td>
</tr>
<tr>
<td>5</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>6</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>7</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

- **1/4**

- **3**

3. **Press  to select a list number to be changed.**
4. **Press  to change the presetting or press  (or ENTER) to cancel it.**
   - If you press  (or ENTER), the cursor moves to the Info field where “Delete” appears. Press ENTER to execute cancel.
   - If you press , go to step 5. Pressing  with the cursor positioned at the Info field also allows you to go to step 5.
5. **Press  to select a field to be corrected and press  to make a new entry.**
6. **Repeat step 4 to enter for all fields to be corrected.**
7. **Press ENTER.**
   - “View OK” or “Rec OK” appears in the Info field.
8. **Press HOME MENU to exit the menu.**

**NOTE**

- When you want to quit recording (in progress) started by program presetting, for example, to change the channel, cancel the program presetting using the menu. In this case, you cannot cancel the program presetting using the EPG.

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**Annex A**

**Annex B**

**Annex C**

**Annex D**

**Annex E**

**Annex F**

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**Annex G**

**Annex H**

**Annex I**

---

**Annex J**

**Annex K**

**Annex L**

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**Annex M**

**Annex N**

**Annex O**

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**Annex P**

**Annex Q**

**Annex R**

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**Annex S**

**Annex T**

**Annex U**

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**Annex V**

**Annex W**

**Annex X**

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**Annex Y**

**Annex Z**

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**Appendix A**

**Appendix B**

**Appendix C**

**Appendix D**

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**Appendix E**

**Appendix F**

**Appendix G**

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**Appendix H**

**Appendix I**

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**Appendix J**

**Appendix K**

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**Appendix L**

**Appendix M**

**Appendix N**

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**Appendix O**

**Appendix P**

---

**Appendix Q**

**Appendix R**

---

**Appendix S**

**Appendix T**

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**Appendix U**

**Appendix V**

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**Appendix W**

**Appendix X**

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**Appendix Y**

**Appendix Z**

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**Glossary**

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**Specifications**

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**Troubleshooting Guide**

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**FAQs**

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**Customer Support**

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**Contact Information**

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You can connect many types of external equipment to your Plasma Display System, like a DVD player, VCR, personal computer, game console, and camcorder. To view images coming from external equipment, select the input source using the INPUT buttons on the remote control (page 16) or the INPUT button on the Plasma Display.

**Watching a DVD image**

**Connecting a DVD player**
Use the INPUT 1 terminals when connecting a DVD player and other audiovisual equipment.

**Displaying a DVD image**
To watch a DVD image, press INPUT 1 on the remote control unit or press INPUT on the Plasma Display to select INPUT1.

**CAUTION**
- To protect all equipment, always turn off the system before connecting to a DVD player, VCR, personal computer, game console, camcorder, or other external equipment.

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

**NOTE**
- Refer to your DVD player operation manual for the signal type.
- The INPUT 1 terminals are checked for cable connections in the order where: 1) Component Video, 2) S-Video, 3) Video.
- Connect external equipment to only terminals that are to be actually used.
- You can also use the INPUT 3 terminals when connecting only with the Component Video output terminals on a DVD player.
11 **Enjoying through External Equipment**

**Watching a VCR image**

**Connecting a VCR**

Use the INPUT 2 terminals when connecting a VCR and other audiovisual equipment.

**Displaying a VCR image**

To watch a VCR image, press INPUT 2 on the remote control unit or press INPUT on the Plasma Display to select INPUT2.

**NOTE**

- The INPUT 2 terminals are checked for cable connections in the order where: 1) S-Video, 2) Video.
- Connect external equipment to only terminals that are to be actually used.
Enjoying through External Equipment

Enjoying a game console or watching camcorder images

Connecting a game console or camcorder
Use the INPUT 4 terminals to connect a game console, camcorder and other audiovisual equipment.

Media Receiver (front view)

![Diagram of Media Receiver with terminals and cables](image)

- The INPUT 4 terminals are checked for cable connections in the order where: 1) Component Video, 2) S-Video, 3) Video.
- Connect external equipment to only terminals that are to be actually used.

Displaying an image of the game console or camcorder
To watch an image coming from the game console or camcorder, press INPUT 4 on the remote control unit or press INPUT on the Plasma Display to select INPUT4.
Recording digital TV programs using a VCR or DVD recorder

If you connect recording equipment such as a VCR or DVD recorder to the MONITOR OUT terminals on the rear of the Media Receiver, you can record, for example, digital TV programs using the recording equipment. You can also record digital TV programs more easily by using the supplied VCR controller. Connect the VCR controller to the VCR control terminal on the rear of the Media Receiver and then position the controller so that its light emitting section faces the remote control sensor on the recording equipment. For more information, see page 78.

Connecting a recorder

**NOTE**

- About the MONITOR OUT terminals
  The MONITOR OUT terminals cannot output the following signals:
  1. Video signals input from the COMPONENT VIDEO terminal
  2. Video signals from a personal computer
  3. S-Video signals when a conventional TV channel is being received
  4. S-Video signals when Video signals (INPUT 1, 2, and 4) are being input

- When watching images played back on a VCR or DVD recorder connected to the MONITOR OUT terminals, select an input source (e.g., TV channel reception) on the recording equipment other than external input sources. Selecting an external input source may result in distorted images or noise.
Enjoying through External Equipment

Connecting other audio equipment
The digital audio output terminal (optical) on this system can output Dolby Digital signals. Using an optical digital cable, connect an AV receiver to the digital audio output terminal (optical) on the rear of the Media Receiver. This allows audio such as digital TV broadcasting to be played in high quality.

Connecting an AV receiver

Switching the optical audio signal type
Set up for the DIGITAL AUDIO output terminal (OPTICAL), depending on your AV receiver.

1 Press HOME MENU.
2 Press ▲/▼ to select “DTV Setup”, and then press ENTER.
3 Press ▲/▼ to select “Digital Audio Out”, and then press ENTER.

4 Press ▲/▼ to select “Dolby Digital” or “PCM”, and then press ENTER.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCM (factory default)</td>
<td>Always outputs in the PCM format regardless of the types of signals.</td>
</tr>
<tr>
<td>Dolby Digital</td>
<td>For Dolby Digital encoded signals, outputs in the Dolby Digital format. For PCM encoded signals, outputs in the PCM format.</td>
</tr>
</tbody>
</table>

5 Press HOME MENU to exit the menu.

If your AV receiver does not have a digital audio input terminal (optical), connect the MONITOR OUT terminals (AUDIO) on the rear of the Media Receiver to the audio input terminals on the AV receiver.

NOTE
• When using the digital audio output terminal (optical), you need to make settings depending on your AV receiver. For more information, see the user’s manual for the AV receiver.
Enjoying through External Equipment

Watching a D-VHS image

What is i.LINK?
i.LINK is a digital serial interface for handling digital video, digital audio, and other data in two directions. i.LINK is Sony’s term for the IEEE 1394 data transport bus. Digital AV equipment compatible with i.LINK can be connected using a single i.LINK cable. The i.LINK interface allows this PDP system to control one of up to two i.LINK compatible devices (in connection) that can be identified.

Which i.LINK devices are connectable?
For i.LINK devices, this system supports only D-VHS recorders. The i.LINK terminals on this system cannot be connected with other equipment such as DVD recorders, digital video cameras, personal computers, and PC peripheral devices because of differences in the specifications.

When connecting a single D-VHS recorder

To use i.LINK, you need to connect only one i.LINK cable; you need not connect cables to the video and audio terminals.

What can be recorded through i.LINK?
With D-VHS recorders connected to this system through i.LINK, you can record only digital TV programs. You cannot record conventional TV channels nor contents coming from external input sources and personal computers.

Connecting D-VHS recorders
Use the i.LINK terminals when connecting D-VHS recorders.
When connecting two D-VHS recorders
You can connect two D-VHS recorders directly to the i.LINK terminals on the rear of the Media Receiver.

Using i.LINK cables you can also connect up to two D-VHS recorders in a daisy chain.

Precautions about i.LINK connections
- Use S400 i.LINK cables that have 4-pin plugs and are shorter than 3.5 m (11.48 feet).
- Some i.LINK devices cannot relay data when their power is off.
- Do not make the following loop connections:
11 Enjoying through External Equipment

Displaying a D-VHS image
To watch a D-VHS image, press i.LINK on the remote control unit or press INPUT on the Plasma Display to select i.LINK.

Useful and important notification

Useful information
• D-VHS recorders connected through i.LINK can play back digital TV programs recorded using this system.
• D-VHS recorders connected through i.LINK can record only digital TV programs. Using i.LINK, those recorders cannot record conventional TV channels nor contents coming from external input sources.
• This system can be simultaneously connected with up to two D-VHS recorders that support i.LINK. You can control one of these D-VHS recorders (basic functions only).
• Some D-VHS recorders connected through i.LINK may not allow this system to control through the control panel screen or to display images and output sound.
• To record digital TV programs using connected D-VHS recorders, use D-VHS tape. You cannot use VHS tape nor S-VHS tape.
• Some D-VHS recorders connected though i.LINK may not allow this system to play back images and sound recorded on VHS tape, S-VHS tape, or (if with analog signals) D-VHS tape. If this is the case, connect the analog output terminals on the D-VHS recorder to INPUT 1, 2, 3, or 4 terminals on this system. See pages 65 to 67.
• This system supports the Digital Transmission Content Protection (DTCP) technology. The DTCP is a copy protection technology that presents data coding and device authentication.
• i.LINK may not allow copy-restricted video, audio, and other data to be copied from one i.LINK device to another. It also may not allow video, audio, and other data to be transferred with equipment that does not support the DTCP.

Precautions
• While one D-VHS recorder connected through i.LINK is recording or playing back, do not switch on or off the other connected D-VHS recorder (not in use) or do not connect or disconnect the i.LINK cable from that D-VHS recorder. Doing so can result in image and sound interruption.
• Some D-VHS recorders that support i.LINK cannot relay data when their power is off. Check the user’s manual for your D-VHS recorder. This system allows you to change the setting for data relay in the standby mode. See “Setting up for i.LINK standby” on page 76.
Setting up for controlling a D-VHS recorder

You can operate the connected D-VHS recorder from the Plasma Display that shows the control panel screen. After making the connections, use the menu to specify the model of the D-VHS recorder to be operated. You can operate only a single D-VHS recorder from the Plasma Display.

1. Press HOME MENU.
2. Press \u2191\u2192 to select “DTV Setup”, and then press ENTER.
3. Press \u2191\u2192 to select “i.LINK Setup”, and then press ENTER.
4. Press \u2191\u2192 to select “i.LINK List”, and then press ENTER.
   • The list of the registered D-VHS recorders (i.LINK list) appears.

   ![i.LINK List]

5. Press \u2191\u2192 to select the D-VHS recorder model to be operated, and then press ENTER.

   ![i.LINK Setting]

6. Press \u2191\u2192 to select “Connect”, and then press ENTER.
7. Press HOME MENU to exit the menu.

NOTE
• The following information appears at the right end of the i.LINK list to indicate the connection status of the D-VHS recorders:

  Control: Data connection with the D-VHS recorder has been established and the recorder is ready for control.
  Connected: The D-VHS recorder has been physically connected, and can be controlled if it is selected for control.
  Other: Equipment other than a D-VHS recorder has been physically connected and thus cannot be controlled.
  —: Currently not physically connected
### Enjoying through External Equipment

**Operating the control panel screen**

The control panel screen appears when you press i.LINK. It disappears when you press i.LINK again. To select a button on the control panel screen, press ◀ or ▶, and then press ENTER on the remote control.

*Table: Control Panel Buttons and Functions*

<table>
<thead>
<tr>
<th>Button</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Shows the model and manufacture name of the D-VHS recorder to be operated.</td>
</tr>
<tr>
<td>2</td>
<td>Shows counter time output by the D-VHS recorder.</td>
</tr>
<tr>
<td>3</td>
<td>Shows the current status of the D-VHS recorder.</td>
</tr>
<tr>
<td>4</td>
<td>Switches on and off the D-VHS recorder.</td>
</tr>
<tr>
<td>5</td>
<td>Starts recording.</td>
</tr>
<tr>
<td>6</td>
<td>Rewinds the tape.</td>
</tr>
<tr>
<td>7</td>
<td>Rewinds to the start of the current program.</td>
</tr>
<tr>
<td>8</td>
<td>Pauses the tape.</td>
</tr>
<tr>
<td>9</td>
<td>Starts playing back.</td>
</tr>
<tr>
<td>0</td>
<td>Stops the current tape motion.</td>
</tr>
<tr>
<td>~</td>
<td>Forwards the tape.</td>
</tr>
<tr>
<td>=</td>
<td>Forwards to the start of the next program.</td>
</tr>
<tr>
<td>-</td>
<td>Switches the input source between i.LINK and DTV.</td>
</tr>
<tr>
<td>!</td>
<td>Allows you to change the D-VHS recorder to be operated. After pressing this button, press ◀ or ▶ to select the desired model from the list, and then press ENTER.</td>
</tr>
<tr>
<td>@</td>
<td>Shows the type of inserted video tape; D for D-VHS, S for S-VHS, and no display for VHS.</td>
</tr>
<tr>
<td>#</td>
<td>Appears when any tape has been inserted.</td>
</tr>
<tr>
<td>$</td>
<td>Appears when the inserted tape has been write protected. The inserted tape cannot be used for recording when this indicator appears.</td>
</tr>
<tr>
<td>%</td>
<td>Appears when the D-VHS recorder has been preset for recording and is in the standby mode.</td>
</tr>
</tbody>
</table>

**NOTE**

- If no i.LINK device has been connected, “No i.LINK devices are connected.” appears. If this is the case, connect i.LINK devices.
- If none of the connected equipment has been supported for control, you cannot execute control.

**Editing the i.LINK list**

The i.LINK list shows all devices connected through i.LINK interfaces. In this list, you can change the name or order of devices or delete device information.

**To change the name of a device:**

1. Press ◀ or ▶ to select the desired device from the list, and then press ENTER.
2. Press ◀ or ▶ to select “Rename”, and then press ENTER.

![](image)

3. Press ◀ or ▶ to change the character for the first digit.

- You can select A to Z, 0 to 9, special codes, and space in the order.
4. Press ◀ or ▶ to move the cursor to the second digit.
5. Press ◀ or ▶ to change the character for the second digit.
6. Repeat steps 3 and 4 to enter up to eight digits, and then press ENTER.
7. Press ◀ or ▶ to select OK, and then press ENTER.
Enjoying through External Equipment

To change the order of devices:
1. Press ↑/↓ to select the desired device from the list, and then press ENTER.
2. Press ↑/↓ to select “Replace”, and then press ENTER.
3. Press ↑/↓ to select the new desired position, and then press ENTER.

To delete information about a single device:
1. Press ↑/↓ to select the desired device from the list, and then press ENTER.
2. Press ↑/↓ to select “Delete” and then press ENTER.
3. Press ↑/↓ to select “Delete”, and then press ENTER.

• The selected device is moved to the selected position.

• A confirmation message appears.
• A warning message appears if the selected device has been preset for recording with the timer or if its power is on. If this is the case, you cannot delete the device that you have selected.

4. Press ↑/↓ to select “Delete”, and then press ENTER.

• A confirmation message appears.

• A confirmation message appears.
11 Enjoying through External Equipment

To delete information about all devices:

1. Press ▲▼ to select “Delete All”, and then press ENTER.
2. Press ◄► to select “Yes” and then press ENTER.

- A confirmation message appears.
- A warning message appears if the selected device has been preset for recording with the timer or if its power is on. If you delete a device that has been preset for recording, its all presettings are deleted.

3. Press ◄► to select “Yes”, and then press ENTER.

- A confirmation message appears.

4. Press ENTER to exit the menu.

Setting up for i.LINK standby

Use the following procedure to enable data transfer between multiple i.LINK devices even when the system is in the standby mode.

1. Press HOME MENU.
2. Press ◄► to select “DTV Setup”, and then press ENTER.
3. Press ◄► to select “i.LINK Setup”, and then press ENTER.
4. Press ◄► to select “i.LINK Standby”, and then press ENTER.
5. Press ◄► to select “Enable”, and then press ENTER.

6. Press HOME MENU to exit the menu.

*NOTE*

- With “Enable” selected, the system relays data between multiple i.LINK devices even when in the standby mode; the i.LINK circuits are energized in that mode.
- With “Disable” (factory default) selected, less power is consumed when the system is in the standby mode; however the system does not relay data between multiple i.LINK devices. When i.LINK devices are not in connection, select “Disable”, resulting in less power consumption.

In standby mode

```
<table>
<thead>
<tr>
<th>i.LINK device</th>
<th>Media Receiver</th>
<th>i.LINK device</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data relay</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
```
Enjoying through External Equipment

Watching an image from a personal computer

Connecting a personal computer
Use the PC terminals to connect a personal computer.

Signal names for 15-pin mini D-sub connector

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Signal name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>R</td>
</tr>
<tr>
<td>2</td>
<td>G</td>
</tr>
<tr>
<td>3</td>
<td>B</td>
</tr>
<tr>
<td>4</td>
<td>Not connected</td>
</tr>
<tr>
<td>5</td>
<td>Not connected</td>
</tr>
<tr>
<td>6</td>
<td>GND (ground)</td>
</tr>
<tr>
<td>7</td>
<td>GND (ground)</td>
</tr>
<tr>
<td>8</td>
<td>GND (ground)</td>
</tr>
<tr>
<td>9</td>
<td>+5V</td>
</tr>
<tr>
<td>10</td>
<td>GND (ground)</td>
</tr>
<tr>
<td>11</td>
<td>Not connected</td>
</tr>
<tr>
<td>12</td>
<td>SDA</td>
</tr>
<tr>
<td>13</td>
<td>HD</td>
</tr>
<tr>
<td>14</td>
<td>VD</td>
</tr>
<tr>
<td>15</td>
<td>SCL</td>
</tr>
</tbody>
</table>

NOTE
• The PC input terminals are DDC1/2B-compatible.
• Refer to page 107 for a list of personal computer signals compatible with the Plasma Display System.

NOTE
• A Macintosh adaptor may be required for use with some Macintosh computers.
**Connecting a VCR controller**

Connect the supplied VCR controller to the Media Receiver. This allows you to preset digital TV programs for recording, using the Electronic Program Guide. When the specified time comes, the system in the standby mode is automatically switched on and the specified TV program is recorded using the connected VCR or DVD recorder.

**NOTE**

- Make sure to leave the VCR power on when presetting TV programs for recording with the VCR controller.
- Be sure to firmly connect the VCR controller to the VCR control terminal on the rear of the Media Receiver. If you have mistakenly connected it to the CONTROL IN or CONTROL OUT terminal, remote control or other operations may be disabled.

Use the following procedure to set the manufacture of the recording equipment:

1. Press **HOME MENU**.
2. Press \(\downarrow\uparrow\) to select “DTV Setup”, and then press **ENTER**.
3. Press \(\downarrow\uparrow\) to select “VCR Control”, and then press **ENTER**.
4. Press \(\downarrow\uparrow\) to select the manufacture of the recording equipment, and then press **ENTER**.

5. Check that the power to the recording equipment is on, and insert tape into the slot.
   - Insert tape you think it all right to erase its contents. The contents will be erased because Rec and Stop codes are output in the test.
   - Check that the light emitting section on the VCR controller cable faces the recording equipment.

6. Press **ENTER** to execute recording test.
   - If the recording equipment fails to start and stop recording, check and change the specified recording equipment manufacture.

7. Press \(\downarrow\uparrow\) to select “YES”, and then press **ENTER**.

8. Press **HOME MENU** to exit the menu.

**NOTE**

- Even if you correctly specify the manufacture of the recording equipment, control of some models may be disabled.
- Perform the recording test when the recording equipment is not in recording standby or is not recording.
- The recording test takes approximately 10 seconds.
- The PIONEER 1 (DVD recorder) has been set as the factory default.
Enjoying through External Equipment

The lists of controllable recording equipment manufactures

<table>
<thead>
<tr>
<th>Manufacture</th>
<th>Remote control type</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIONEER</td>
<td>1–5</td>
</tr>
<tr>
<td>PANASONIC</td>
<td>1–7</td>
</tr>
<tr>
<td>PHILIPS</td>
<td>1–6</td>
</tr>
<tr>
<td>SHARP</td>
<td>1–5</td>
</tr>
<tr>
<td>TOSHIBA</td>
<td>1–4</td>
</tr>
<tr>
<td>SAMSUNG</td>
<td>1–6</td>
</tr>
<tr>
<td>FISHER</td>
<td>1–3</td>
</tr>
<tr>
<td>GOLDSTAR</td>
<td>1</td>
</tr>
<tr>
<td>HITACHI</td>
<td>1, 2</td>
</tr>
<tr>
<td>MAGNAVOX</td>
<td>1</td>
</tr>
<tr>
<td>MITSUBISHI</td>
<td>1–7</td>
</tr>
<tr>
<td>RCA</td>
<td>1–6</td>
</tr>
<tr>
<td>SANYO</td>
<td>1–3</td>
</tr>
<tr>
<td>SONY</td>
<td>1–3</td>
</tr>
<tr>
<td>JVC</td>
<td>1–4</td>
</tr>
<tr>
<td>ZENITH</td>
<td>1</td>
</tr>
<tr>
<td>GRANDIENDE</td>
<td>1</td>
</tr>
<tr>
<td>AKAI</td>
<td>1</td>
</tr>
<tr>
<td>MITSUI</td>
<td>1</td>
</tr>
<tr>
<td>AIWA</td>
<td>1</td>
</tr>
<tr>
<td>ALBA</td>
<td>1, 2</td>
</tr>
<tr>
<td>BUSH</td>
<td>1</td>
</tr>
<tr>
<td>THOMSON</td>
<td>1</td>
</tr>
<tr>
<td>BAIRD</td>
<td>1</td>
</tr>
<tr>
<td>TELEFUNKEN</td>
<td>1</td>
</tr>
<tr>
<td>Grunding</td>
<td>1–3</td>
</tr>
<tr>
<td>MARANTZ</td>
<td>1–2</td>
</tr>
<tr>
<td>GE</td>
<td>1–3</td>
</tr>
<tr>
<td>YAMAHA</td>
<td>1–4</td>
</tr>
<tr>
<td>CURTIS MATHIS</td>
<td>1–3</td>
</tr>
<tr>
<td>FUNAI</td>
<td>1</td>
</tr>
<tr>
<td>ADMIRAL</td>
<td>1</td>
</tr>
<tr>
<td>KENWOOD</td>
<td>1–3</td>
</tr>
<tr>
<td>NEC</td>
<td>1, 2</td>
</tr>
<tr>
<td>WARDS</td>
<td>1–4</td>
</tr>
<tr>
<td>MEMOREX</td>
<td>1, 2</td>
</tr>
<tr>
<td>JC PENNY</td>
<td>1–6</td>
</tr>
</tbody>
</table>

Some modes of the listed manufactures may not allow control through the VCR controller.
En  Enjoying through External Equipment

Connecting control cords
Connect control cords between the Media Receiver 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 Media Receiver.

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 Media Receiver 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 user’s manual for the PIONEER AV receiver supporting SR+.

NOTE
- While in connection through SR+, the volume on this system is temporarily minimized.

The control cables (commercially available) are mono sound cables with mini plugs (no resistance).
Useful Adjustment Settings

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

1 Press HOME MENU.
2 Press ✈️ to select “Option”, and then press ENTER.
3 Press ✈️ to select “Position”, and then press ENTER.
4 Press ✈️ to select “H/V Position Adjust”, and then press ENTER.

5 Press ✈️ to adjust the vertical position or press ✈️ to adjust the horizontal position.

6 Press HOME MENU to exit the menu.

NOTE
• To restore the factory defaults for all the items, press ✈️ to select “Reset” in step 4, and then press ENTER. A confirmation screen appears. Press ✈️ to select “Yes”, and then press ENTER.
• Adjustments are stored separately according to input source.

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

1 Press HOME MENU.
2 Press ✈️ to select “Option”, and then press ENTER.
3 Press ✈️ to select “Auto Setup”, and then press ENTER.

• Auto Setup starts.

4 Press HOME MENU 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 Media Receiver and switch it on before starting Auto Setup.
12 Useful Adjustment Settings

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 optimize the positions and clock of images when necessary.

1. Press HOME MENU.
2. Press ✻ to select “Option”, and then press ENTER.
3. Press ✻ to select “Manual Setup”, and then press ENTER.
4. Press ✻ to select the item to be adjusted, and then press ENTER.

<table>
<thead>
<tr>
<th>Manual Setup</th>
</tr>
</thead>
<tbody>
<tr>
<td>H/V Position Adjust</td>
</tr>
<tr>
<td>Clock</td>
</tr>
<tr>
<td>Phase</td>
</tr>
<tr>
<td>Reset</td>
</tr>
</tbody>
</table>

5. Press ✻ (and ✻) to perform adjustment.
   - Use ✻ only when you adjust the vertical position after selecting “H/V Position Adjust”.

6. Press HOME MENU to exit the menu.

**NOTE**

- To restore the factory defaults for all the items, press ✻ to select “Reset” in step 4, and then press ENTER. A confirmation screen appears. Press ✻ to select “Yes”, and then press ENTER.
**Useful Adjustment Settings**

**AV mode**

- **4:3**: For 4:3 “standard” pictures. A side bar appears on each side.
- **WIDE**: For 16:9 squeeze pictures.
- **FULL**: For 16:9 letterbox pictures. Bars may appear on the top and bottom with some programs.
- **CINEMA**: For 14:9 letterbox pictures. Bars may appear on the top and bottom on some programs.
- **ZOOM**: In this mode pictures are progressively stretched toward each side of the screen.

**PC mode except for XGA signals**

- **4:3**: Fills the screen without altering the input signal aspect ratio.
- **Dot by Dot**: Matches input signal with same number of screen pixels.
- **FULL**: Full 16:9 screen display

**PC mode for XGA signals**

- **4:3**: Matches input signal with the same number of screen pixels. Optimized for 1024 × 768 display
- **FULL2**: Full 16:9 screen display Optimized for 1024 × 768 display
- **FULL1**: For wide signal display Use when displaying 1280 × 768 signal resolution.

**NOTE**

- The PC mode above is for the PRO-1110HD. For the PRO-910HD the number of panel pixels is different, so signal processing and actual viewing conditions will vary slightly.
Changing the brightness at both sides of the screen (Side Mask)

With the 4:3 screen size selected for the AV mode, you can change the brightness of the gray side masks that appear at both sides of the screen.

1. Press HOME MENU.
2. Press UP/DOWN to select “Option”, and then press ENTER.
3. Press UP/DOWN to select “Side Mask”, and then press ENTER.
4. Press UP/DOWN to select the desired parameter, and then press ENTER.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed</td>
<td>Always sets the same brightness for the gray side masks. (factory default)</td>
</tr>
<tr>
<td>Auto</td>
<td>Adjusts the brightness of the gray side masks according to the brightness of images.</td>
</tr>
</tbody>
</table>

5. Press HOME MENU to exit the menu.
Useful Adjustment Settings

Sleep Timer
When the selected time elapses, the Sleep Timer automatically places the system into the standby mode. Press SLEEP to select the desired time.

- The timer starts counting.
- Each time you press SLEEP, the selection is switched as below:
  
  30  60  90
  (cancel) Off  120 (minutes)

- The factory default is “Off”.

**NOTE**
- To cancel the Sleep Timer, select “Off” by pressing SLEEP.
- Five minutes before the selected time elapses, the remaining time appears every minute.

You can also use the menu to set the Sleep Timer.

1. Press HOME MENU.
2. Press ‹› to select “Sleep Timer”, and then press ENTER.
3. Press ‹› to select the desired time, and then press ENTER.
4. Press HOME MENU to exit the menu.
Useful Adjustment Settings

Closed caption for conventional TV channels
Your Plasma Display System is equipped with an internal closed caption decoder. Closed caption is a system which allows you to view conversations, narration, and sound effects in TV programs and home videos as subtitles on your Plasma Display screen.
• Not all programs and videos offer closed caption. Please look for the "CC" symbol to ensure that captions will be shown.

Activating the closed caption
1 Press HOME MENU.
2 Press \ or \ to select “Setup”, and then press ENTER.
3 Press \ or \ to select “Closed Caption”, and then press ENTER.
4 Press \ or \ to select “Setting”, and then press ENTER.
5 Press \ or \ to select “On” or “On If Mute”, and then press ENTER.

Selecting the type of closed captions
• “CC-1” or “CC-2” displays subtitles of TV dramas and news programs while allowing a full view of the picture.
• “T1” or “T2” superimposes on the picture other information (e.g. TV guide, weather) that is independent of the TV in progress.

1 Press HOME MENU.
2 Press \ or \ to select “Setup”, and then press ENTER.
3 Press \ or \ to select “Closed Caption”, and then press ENTER.
4 Press \ or \ to select “Channel”, and then press ENTER.
5 Press \ or \ to change the selection, and then press ENTER.

• The factory default is “CC-1”.

6 Press HOME MENU to exit the menu.
Closed caption for digital TV channels
Your Plasma Display System is equipped with an internal closed caption decoder also for digital TV channels. You can enjoy digital closed captions whenever their services are provided. Digital closed captions allow you to change parameters such as fonts and colors. However, some digital TV programs may provide you with only conventional closed captions. If this is the case, conventional closed captions are displayed.

Activating the closed caption
Use the following procedure to activate the closed caption:

1. Press HOME MENU.
2. Press / to select “DTV Setup”, and then press ENTER.
3. Press / to select “DTV Closed Caption”, and then press ENTER.
4. Press / to select “Setting”, and then press ENTER.
5. Press / to select “On” or “On If Mute”, and then press ENTER.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>Does not show closed captions. (factory default)</td>
</tr>
<tr>
<td>On If Mute</td>
<td>Shows closed captions only while sound is being muted.</td>
</tr>
<tr>
<td>On</td>
<td>Always shows closed captions.</td>
</tr>
</tbody>
</table>

6. Press HOME MENU to exit the menu.

NOTE
• For MONITOR OUT, only conventional closed caption signals are output; digital closed caption signals are not output.

Selecting the type of conventional closed captions (for digital TV channels)
Use the following procedure to select the type of conventional closed captions. You will watch the selected type of closed captions when the selected digital TV program provides only conventional closed captions.

1. Press HOME MENU.
2. Press / to select “DTV Setup”, and then press ENTER.
3. Press / to select “DTV Closed Caption”, and then press ENTER.
4. Press / to select “Analog Caption”, and then press ENTER.
5. Press / to change the selection, and then press ENTER.

• The factory default is “CC-1”.

6. Press HOME MENU to exit the menu.
Useful Adjustment Settings

Selecting digital closed captions
Use the following procedure to select digital closed captions.

1. Press HOME MENU.
2. Press \( \uparrow \downarrow \) to select “DTV Setup”, and then press ENTER.
3. Press \( \uparrow \downarrow \) to select “DTV Closed Caption”, and then press ENTER.
4. Press \( \uparrow \downarrow \) to select “Digital Caption”, and then press ENTER.
5. Press \( \uparrow \downarrow \) to change the selection, and then press ENTER.

![Digital Caption]

- The factory default is “Service 1”.
6. Press HOME MENU to exit the menu.

**NOTE**
- The Primary Caption Service is usually offered for Service 1, and the Secondary Language Service is usually offered for Service 2 if these services are available.

Selecting digital closed caption parameters
Use the following procedure to change such parameters of digital closed captions as font size, font type, foreground and background colors.

1. Press HOME MENU.
2. Press \( \uparrow \downarrow \) to select “DTV Setup”, and then press ENTER.
3. Press \( \uparrow \downarrow \) to select “DTV Closed Caption”, and then press ENTER.
4. Press \( \uparrow \downarrow \) to select “Digital Caption Setup”, and then press ENTER.
5. Press \( \uparrow \downarrow \) to select the item, and then press \( \uparrow \downarrow \) to change the parameter.

![Digital Caption Setup]

- The field at the bottom of the dialog box shows how closed captions will appear.
6. Repeat step 5 as necessary, and then press ENTER.
7. Press HOME MENU to exit the menu.
## Useful Adjustment Settings

The following table shows the parameters selectable for each item.

<table>
<thead>
<tr>
<th>Item Selection</th>
<th>Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Font Size</td>
<td>Auto/ Small/ Standard/ Large</td>
</tr>
<tr>
<td>Font Style¹</td>
<td>Auto/ Font 1/ Font 2/ Font 3/ Font 4/ Font 5/ Font 6/ Font 7/ Font 8</td>
</tr>
<tr>
<td>Foreground Color</td>
<td>Auto/ Black/ White/ Red/ Green/ Blue/ Yellow/ Magenta/ Cyan</td>
</tr>
<tr>
<td>Foreground Opacity</td>
<td>Auto/ Opaque/ Translucent/ Transparent/ Flashing</td>
</tr>
<tr>
<td>Background Color</td>
<td>Auto/ Black/ White/ Red/ Green/ Blue/ Yellow/ Magenta/ Cyan</td>
</tr>
<tr>
<td>Background Opacity</td>
<td>Auto/ Opaque/ Translucent/ Transparent/ Flashing</td>
</tr>
</tbody>
</table>

¹ Font 1 (default font)/ Font 2 (monospaced with serifs)/ Font 3 (proportionally spaced with serifs)/ Font 4 (monospaced without serifs)/ Font 5 (proportionally spaced without serifs)/ Font 6 (casual font)/ Font 7 (cursive font)/ Font 8 (small capitals font)

With “Auto” selected, parameters specified by the provider are used; if not specified by the provider, the bolded default parameters are used. If you select parameters other than “Auto”, the selected parameters are used regardless of provider’s specifications.
12 Useful Adjustment Settings

Parental Control
(setting the V-CHIP level)
The V-CHIP is an electronic filtering device built into your system. This tool gives parents a great degree of control over broadcasts accessed by their children. It allows parents to select programs judged suitable for child viewing while blocking ones judged not suitable. It does so automatically once you activate the V-CHIP feature in your Plasma Display.

This tool functions for both conventional and digital TV channels.

• The U.S. has two rating systems for viewing content: TV Parental Guidelines and movie ratings.
• The TV Parental Guidelines work in conjunction with the V-CHIP to help parents screen out inappropriate television shows from their children.
• Movie ratings are used for original movies rated by the Motion Picture Association of America (MPAA) as watched on cable TV and not edited for television. The V-CHIP can also be set to block MPAA-rated movies.

Voluntary movie rating system (MPAA)

<table>
<thead>
<tr>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>G</td>
<td>General audiences. All ages admitted.</td>
</tr>
<tr>
<td>PG</td>
<td>Parental guidance suggested. Some material may not be suitable for children.</td>
</tr>
<tr>
<td>PG-13</td>
<td>Parents strongly cautioned. Some material may be inappropriate for children under 13.</td>
</tr>
</tbody>
</table>

Age-Base

<table>
<thead>
<tr>
<th>R</th>
<th>Restricted. Under 17 requires accompanying parent or adult guardian (age varies in some jurisdictions).</th>
</tr>
</thead>
<tbody>
<tr>
<td>NC-17</td>
<td>No one 17 and under admitted.</td>
</tr>
<tr>
<td>X</td>
<td>A rating that has now been superseded by NC-17.</td>
</tr>
<tr>
<td>NR</td>
<td>Not rated.</td>
</tr>
</tbody>
</table>

NOTE

• The voluntary movie rating system only uses an age-based rating.

TV Parental Guidelines

<table>
<thead>
<tr>
<th>Rating</th>
<th>TV (Fantasy violence)</th>
<th>D (Sexually suggestive dialogue)</th>
<th>L (Adult language)</th>
<th>S (Sexual situation)</th>
<th>V (Violence)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TV-Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TV-Y7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TV-G</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TV-PG</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TV-14</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TV-MA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Age-Base

<table>
<thead>
<tr>
<th>Rating</th>
<th>TV-7 (All children)</th>
<th>TV-Y7 (Directed to older children)</th>
<th>TV-G (General audience)</th>
<th>TV-PG (Parental guidance suggested)</th>
<th>TV-14 (Parents strongly cautioned)</th>
<th>TV-MA (Mature audience only)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td>X X X X</td>
<td>X X X X</td>
<td>X X X</td>
</tr>
</tbody>
</table>

X: Content rating can be set.

Activating the Parental Control

1 Press HOME MENU.
2 Press  or  to select “Setup”, and then press ENTER.
3 Press  or  to select “Parental Control”, and then press ENTER.
   • If you have set a password (page 95), the password entry screen appears. Enter your 4-digit password using buttons 0 – 9.
4 Press  or  to select “Status”, and then press ENTER.
5 Press  or  to select “On”, and then press ENTER.

• The factory default is “Off”.

6 Press HOME MENU to exit the menu.
**Useful Adjustment Settings**

**Setting the voluntary moving rating system (MPAA)**
1. Press **HOME MENU**.
2. Press \+/\- to select “Setup”, and then press **ENTER**.
3. Press \+/\- to select “Parental Control”, and then press **ENTER**.
   - If you have set a password (page 95), the password entry screen appears. Enter your 4-digit password using buttons 0 – 9.
4. Press \+/\- to select “MPAA Ratings”, and then press **ENTER**.
5. Press \+/\- to select the desired rating, and then press \+/\- to select “View” or “Block”.

```
<table>
<thead>
<tr>
<th>MPAA Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>G</td>
</tr>
<tr>
<td>PG</td>
</tr>
<tr>
<td>PG-13</td>
</tr>
<tr>
<td>R</td>
</tr>
<tr>
<td>NC-17</td>
</tr>
<tr>
<td>X</td>
</tr>
</tbody>
</table>
```

- The factory defaults for all the ratings are “View”.
6. Press **HOME MENU** to exit the menu.

**Example 1:**
Changing “R” from “Block” to “View” causes “View” to be automatically selected also for “G”, “PG”, and “PG-13”.

**Example 2:**
Changing “R” from “View” to “Block” causes “Block” to be automatically selected also for “NC-17” and “X”.

**Blocking Not Rated (NR) TV programs**
Use the following procedure to block movies not rated by the MPAA.
1. Press **HOME MENU**.
2. Press \+/\- to select “Setup”, and then press **ENTER**.
3. Press \+/\- to select “Parental Control”, and then press **ENTER**.
   - If you have set a password (page 95), the password entry screen appears. Enter your 4-digit password using buttons 0 – 9.
4. Press \+/\- to select “MPAA NR”, and then press **ENTER**.
5. Press \+/\- to select “View” or “Block”, and then press **ENTER**.

```
<table>
<thead>
<tr>
<th>MPAA NR</th>
</tr>
</thead>
<tbody>
<tr>
<td>View</td>
</tr>
<tr>
<td>Block</td>
</tr>
</tbody>
</table>
```

- The factory default is “View”.
6. Press **HOME MENU** to exit the menu.
Setting the TV Parental Guidelines (TV Guidelines)

1. Press HOME MENU.
2. Press   to select “Setup”, and then press ENTER.
3. Press   to select “Parental Control”, and then press ENTER.
   • If you have set a password (page 95), the password entry screen appears. Enter your 4-digit password using buttons 0 – 9.
4. Press   to select “TV Parental Guidelines”, and then press ENTER.
5. Press   or   to select the desired cell (rating).
6. Press ENTER to select “V” (View) or “B” (Block).

   Each time you press ENTER, the selection is switched.
   • The factory defaults for all the ratings are “V” (View).
7. Press HOME MENU to exit the menu.

   NOTE
   • Blocking a low rated program will cause all higher rated programs to be blocked.

---

Canadian rating systems

• The TV rating systems in Canada are based on the Canadian Radio-Television and Telecommunications Commission (CRTC) policy on violence in television programming.
• While violence is the most important content element to be rated, the structure developed takes into consideration other program content like language, nudity, sexuality and mature themes.
• When setting the V-CHIP on the Canadian system you can choose either the Canadian English ratings or the Canadian French ratings.

### Canadian English ratings

<table>
<thead>
<tr>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>Exempt: Includes news, sports, documentaries and other information programming; talk shows, music videos, and variety programming.</td>
</tr>
<tr>
<td>C</td>
<td>Children: Intended for younger children under the age of 8 years. Pays careful attention to themes that could threaten their sense of security and well-being.</td>
</tr>
<tr>
<td>C8+</td>
<td>Children over 8 years old: Contains no portrayal of violence as the preferred, acceptable, or only way to resolve conflict; nor encourage children to imitate dangerous acts which they may see on the screen.</td>
</tr>
<tr>
<td>G</td>
<td>General: Considered acceptable for all age groups. Appropriate viewing for the entire family, contains very little violence, physical, verbal or emotional.</td>
</tr>
<tr>
<td>PG</td>
<td>Parental Guidance: Intended for a general audience, but may not be suitable for younger children (under the age of 8) because it could contain controversial themes or issues.</td>
</tr>
<tr>
<td>14+</td>
<td>Over 14 Years: Could contain themes where violence is one of the dominant elements of the storyline, but it must be integral to the development of plot or character. Language usage could be profane and nudity present within the context of the theme.</td>
</tr>
<tr>
<td>18+</td>
<td>Adults: Intended for viewers 18 years and older and might contain depictions of violence, which while related to the development of plot, character or themes, are intended for adult viewing. Could contain graphic language and portrayals of sex and nudity.</td>
</tr>
</tbody>
</table>
Useful Adjustment Settings

Canadian French ratings

<table>
<thead>
<tr>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>Exempt programming.</td>
</tr>
<tr>
<td>G</td>
<td>General: All ages and children, contains minimal direct violence, but may be integrated into the plot in a humorous or unrealistic manner.</td>
</tr>
<tr>
<td>8ans+</td>
<td>General but inadvisable for young children: May be viewed by a wide public audience, but could contain scenes disturbing to children under eight who cannot distinguish between imaginary and real situations. Recommended for viewing with parent.</td>
</tr>
<tr>
<td>13ans+</td>
<td>Over 13 years: Could contain scenes of frequent violent scenes and therefore recommended for viewing with parent.</td>
</tr>
<tr>
<td>16ans+</td>
<td>Over 16 years: Could contain frequent violent scenes and intense violence.</td>
</tr>
<tr>
<td>18ans+</td>
<td>Over 18 years: Only for adult viewing. Could contain frequent violent scenes and extreme violence.</td>
</tr>
</tbody>
</table>

Setting Canadian French ratings
1. Press HOME MENU.
2. Press ▲▼ to select “Setup”, and then press ENTER.
3. Press ▲▼ to select “Parental Control”, and then press ENTER.
   • If you have set a password (page 95), the password entry screen appears. Enter your 4-digit password using buttons 0 – 9.
4. Press ▲▼ to select “Canadian French Ratings”, and then press ENTER.
5. Press ▲▼ to select the desired rating, and then press ▲▼ to select “View” or “Block”.
   • The factory defaults for all the ratings are “View”.
6. Press HOME MENU to exit the menu.

Canadian English ratings

<table>
<thead>
<tr>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>Block</td>
</tr>
<tr>
<td>C8+</td>
<td>View</td>
</tr>
<tr>
<td>G</td>
<td>View</td>
</tr>
<tr>
<td>PG</td>
<td>View</td>
</tr>
<tr>
<td>14+</td>
<td>View</td>
</tr>
<tr>
<td>18+</td>
<td>View</td>
</tr>
</tbody>
</table>

Setting Canadian English ratings
1. Press HOME MENU.
2. Press ▲▼ to select “Setup”, and then press ENTER.
3. Press ▲▼ to select “Parental Control”, and then press ENTER.
   • If you have set a password (page 95), the password entry screen appears. Enter your 4-digit password using buttons 0 – 9.
4. Press ▲▼ to select “Canadian English Ratings”, and then press ENTER.
5. Press ▲▼ to select the desired rating, and then press ▲▼ to select “View” or “Block”.
   • The factory defaults for all the ratings are “View”.
6. Press HOME MENU to exit the menu.
12 Useful Adjustment Settings

Temporarily deactivating the V-CHIP Block
You can temporarily deactivate the V-CHIP Block. When the V-CHIP Block is working and censors TV programs or VCR or DVD contents to be blocked, a password entry screen appears.

Please Input Your Password.

To temporarily deactivate the V-CHIP block, enter a 4-digit password that you have set using the Home menu. Image and sound muting is quitted. If you press ENTER instead of entering the password, the password entry screen disappears.

Reactivating the V-CHIP Block
Executing one of the following proceduresreactivates the V-CHIP Block.

Method 1:
Make a selection (“On” or “Off”) for “Status” under “Parental Control” in the menu. See page 90.

Method 2:
Make a selection for “MPAA Ratings”, “MPAA NR”, “TV Parental Guidelines”, “Canadian English Ratings” or “Canadian French Ratings” under “Parental Control” in the menu. See pages 91 to 93.

Method 3:
Switch off the power to the system.

NOTE
• The password entry screen stays only for one minute. Pressing ENTER causes the password entry screen to appear again.
Programming a password
( AV mode only)
You can program a password to prevent other persons from changing especially Parental Control settings.

Setting and changing the password
Use the following procedure to newly set or change the password:

1. Press HOME MENU.
2. Press †/‡ to select “Setup”, and then press ENTER.
3. Press †/‡ to select “Password”, and then press ENTER.
   • If you have set a password, the password entry screen appears. Enter your 4-digit password using buttons 0 – 9.
   • The factory default is “1234”.
4. Press †/‡ to select “Change Password”, and then press ENTER.
5. Enter a 4-digit password to be newly set, using buttons 0 – 9.

6. Enter the same password that you have entered in step 4, using buttons 0 – 9.

7. Press HOME MENU to exit the menu.

NOTE
• Take a note of the newly set password and keep it handy.
Useful Adjustment Settings

Resetting the password

1. Press **HOME MENU**.
2. Press **↓/↑** to select “Setup”, and then press **ENTER**.
3. Press **↓/↑** to select “Password”, and then press **ENTER**.
   - The password entry screen appears. Enter your 4-digit password using buttons 0 – 9.
4. Press **↓/↑** to select “Reset”, and then press **ENTER**.

5. Press **↓/↑** to select “Yes”, and then press **ENTER**.
6. Press **HOME MENU** to exit the menu.

**NOTE**
- The above procedure will reset the password to the factory default (1234).

If you forget the password

When the message “Please Input Your Password” is displayed in step 3 above, press the **ENTER** button on the remote control unit and hold it down for 3 seconds or longer.

The password reverts to “1234”.

We suggested you write down your password so you don’t forget it.
Useful Features

Learning function of the remote control unit
You can operate the connected AV products (AV Receiver, Cable Box, SAT tuner, VCR, DVD, DVD recorder, LD) using the learning function of your remote control unit. This remote control unit has a function that can memorize each remote control code.

2 to 5 cm (0.8 to 2.0 inches)

Using the learning function
1. Slide the Mode switch to match the device whose remote control signal you want to be learned.
2. Press EDIT/LEARN and 2 at the same time.
   - The LED flashes.
3. Press a button to be learned.
   - The LED lights up.
   - For the functions that can be learned, see pages 100 to 105.
   - When learning is finished, the LED starts flashing again.
4. Press EDIT/LEARN again to exit the Learn mode.

**NOTE**
- To exit the Learn mode halfway, press EDIT/LEARN again.
- If the Mode switch selection is changed when in the Learn mode, the Learn mode is cancelled.
- If no operation is performed for more than one minute, the Learn mode is cancelled.
- It takes about 2 seconds to finish code transmission. Do not interrupt it halfway. Wait until the LED flashes again.
- You can reset all learned codes to the factory defaults. When not in the Learn mode, press and hold TV, and then press D and k at the same time.
13 Useful Features

Presetting manufacture codes

1 Slide the Mode switch to match the device to which you want to preset the remote control signal.

2 Press EDIT/LEARN and 1 at the same time.
   - The LED flashes.

3 Press 0–9 to enter the manufacture code. See page 99.
   - Preset mode is finished once the LED no longer lights up.

**NOTE**
- To exit the Edit mode halfway, press EDIT/LEARN again.
- If the Mode switch selection is changed when in the Edit mode, the Edit mode is cancelled.
- If no operation is performed for more than one minute, the Edit mode is cancelled.
- When you enter a code not listed, the LED flashes quickly.
- If the table on page 99 does not include your desired manufacturer or the remote control does not work, you can make the memory learn its signal by the Learn mode.
- The initial mode is “000” (PIONEER).
## Useful Features

### Manufacture codes

<table>
<thead>
<tr>
<th>Cable/Sat</th>
<th>VCR</th>
<th>DVD/DVR</th>
</tr>
</thead>
<tbody>
<tr>
<td>000</td>
<td>Pioneer</td>
<td>Pioneer(DVD)</td>
</tr>
<tr>
<td>001</td>
<td>Pioneer</td>
<td>Pioneer(DVD)</td>
</tr>
<tr>
<td>002</td>
<td>Fisher</td>
<td>Sanyo(DVD)</td>
</tr>
<tr>
<td>003</td>
<td>Fisher</td>
<td>Sanyo(DVD)</td>
</tr>
<tr>
<td>004</td>
<td>Goldstar</td>
<td>Pioneer2(DVD Recorder)</td>
</tr>
<tr>
<td>005</td>
<td>Hitachi</td>
<td>Pioneer3(DVD Recorder)</td>
</tr>
<tr>
<td>006</td>
<td>Hitachi</td>
<td>Pioneer3(DVD Recorder)</td>
</tr>
<tr>
<td>007</td>
<td>Hitachi</td>
<td>Pioneer3(DVD Recorder)</td>
</tr>
<tr>
<td>008</td>
<td>Magnavox2</td>
<td>Pioneer3(DVD Recorder)</td>
</tr>
<tr>
<td>009</td>
<td>Mitsubishi</td>
<td>Panasonic2(DVD Recorder)</td>
</tr>
<tr>
<td>010</td>
<td>Mitsubishi</td>
<td>Panasonic2(DVD Recorder)</td>
</tr>
<tr>
<td>011</td>
<td>Mitsubishi</td>
<td>Panasonic2(DVD Recorder)</td>
</tr>
<tr>
<td>012</td>
<td>Sony</td>
<td>Sony(LED)</td>
</tr>
<tr>
<td>013</td>
<td>Sony</td>
<td>Sony(LED)</td>
</tr>
<tr>
<td>014</td>
<td>Sony</td>
<td>Sony(LED)</td>
</tr>
<tr>
<td>015</td>
<td>Sony</td>
<td>Sony(LED)</td>
</tr>
<tr>
<td>016</td>
<td>Sony</td>
<td>Sony(LED)</td>
</tr>
<tr>
<td>017</td>
<td>Sony</td>
<td>Sony(LED)</td>
</tr>
<tr>
<td>018</td>
<td>Sony</td>
<td>Sony(LED)</td>
</tr>
<tr>
<td>019</td>
<td>RCA</td>
<td>RCA</td>
</tr>
<tr>
<td>020</td>
<td>RCA</td>
<td>RCA</td>
</tr>
<tr>
<td>021</td>
<td>RCA</td>
<td>RCA</td>
</tr>
<tr>
<td>022</td>
<td>RCA</td>
<td>RCA</td>
</tr>
<tr>
<td>023</td>
<td>Sanyo2</td>
<td>Sanyo2(LED)</td>
</tr>
<tr>
<td>024</td>
<td>Sharp</td>
<td>Sharp(LED)</td>
</tr>
<tr>
<td>025</td>
<td>Sharp</td>
<td>Sharp(LED)</td>
</tr>
<tr>
<td>026</td>
<td>Sharp</td>
<td>Sharp(LED)</td>
</tr>
<tr>
<td>027</td>
<td>Sony(Beta)</td>
<td>Sony(LED)</td>
</tr>
<tr>
<td>028</td>
<td>Sony(VHS)</td>
<td>Sony(VHS)</td>
</tr>
<tr>
<td>029</td>
<td>Sony(VHS)</td>
<td>Sony(VHS)</td>
</tr>
<tr>
<td>030</td>
<td>Toshiba</td>
<td>Toshiba</td>
</tr>
<tr>
<td>031</td>
<td>JVC</td>
<td>JVC</td>
</tr>
<tr>
<td>032</td>
<td>JVC</td>
<td>JVC</td>
</tr>
<tr>
<td>033</td>
<td>JVC</td>
<td>JVC</td>
</tr>
<tr>
<td>034</td>
<td>JVC</td>
<td>JVC</td>
</tr>
<tr>
<td>035</td>
<td>JVC</td>
<td>JVC</td>
</tr>
<tr>
<td>036</td>
<td>JVC</td>
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</tbody>
</table>

---

**Notes:**
- Code format: `0XX` for `Cable/Sat`, `0YY` for `VCR`, and `0ZZ` for `DVD/DVR` with `0` being the default.
13 Useful Features

Using the remote control unit to control other devices

Receiver control buttons
When a Pioneer receiver is connected to the display, the receiver can be operated using buttons 1 to 3. When a non-Pioneer receiver is connected to the display, the signals for 1 to 3 must first be learned before operating. See page 97.

1 RECEIVER (STANDBY/ON)  
Turns the receiver power on and off.

2 RECEIVER INPUT  
Selects the input source connected to the receiver.

3 RECEIVER VOL +/-  
Adjusts the receiver volume level. Press VOL + to increase the volume and VOL – to decrease it.

NOTE
- RECEIVER MUTING  
Allows the remote control unit to learn receiver’s mute signal. Use this button when the mode switch is set to a position other than TV.
- The color-highlighted buttons on the remote control can learn the control signal from another device’s remote control.
Useful Features

Cable control buttons
When the **Mode switch** is set to CBL/SAT the cable converter connected to the display can be operated using ① to ⑤.

Cable converters made by other manufacturers and not preset can also be operated using the remote control unit if ① to ⑤ have learned the functions. See page 97.

① 0 – 9
Press a button (or buttons) that corresponds to the channel that you want to watch.

② **CH +/-**
Press **CH +** or **CH –** to tune in a higher or lower channel.

③ **SOURCE**
Turns the cable converter power on and off.

④ **CH ENTER** *
Fix the selected channel with the direct channel selection buttons.

⑤ **CH RETURN** *
Press to switch between the current channel and the channel you were watching immediately before.

* Some manufacturers do not preset **CH ENTER** and **CH RETURN**. Use these buttons to learn if necessary.

**NOTE**
- **CABLE** and **SAT** cannot be selected at the same time.
- The color-highlighted buttons on the remote control can learn the control signal from another device’s remote control.
Useful Features

SAT control buttons

When the SAT is preset by the learning function of the remote control, the remote control unit buttons will function as shown below.

- The Mode switch is set to CBL/SAT, satellite broadcast tuners made by other manufacturers and not preset can also be operated with the remote control unit if 1 to 8 have learned the functions. See page 97.

1. **0 – 9**
   - Press a button (or buttons) that corresponds to the channel that you wish to watch.

2. **CH +/-**
   - Press CH + or CH – to tune in a higher or lower channel.

3. **ENTER, ↑↓↑↓**
   - **ENTER**: Press to activate the selected function.
   - **↑↓↑↓**: Press the button to select items on the SAT GUIDE screen or SAT MENU screen.

4. **SAT INFO**
   - When this button is pressed, information on satellite broadcasting will appear.
   - Use this button to learn if necessary.

5. **SOURCE**
   - Turns the Satellite broadcast tuner power on and off.

6. **CH ENTER**
   - Fix the selected channel with the direct channel selection buttons.
   - Use this button to learn if necessary.

7. **SAT MENU**
   - When this button is pressed, the satellite broadcasting menu screen will appear.

8. **SAT GUIDE**
   - When this button is pressed, the satellite broadcasting guide screen will appear.

**NOTE**
- CABLE and SAT cannot be selected at the same time.
- The color-highlighted buttons shown in the figure at left can learn the control signal from another device’s remote control.
Useful Features

VCR control buttons
When the VCR is preset by the learning function of the remote control, the remote control unit buttons will function as follows when the Mode switch of the remote control unit is set to VCR.

- When the input selector button having the same number as the input terminal connecting the VCR is pressed, the VCR can be operated using 1 to 8.
- VCR made by other manufacturers and not preset can also be operated using the remote control unit if 1 to 8 have learned the functions. See page 97.

1 CH +/-
Press to select the channel of the TV tuner on the VCR.

2 (PLAY)
Selects playback.

3 (REW)
Rewinds the tape and allows picture search.

4 SOURCE
Turns the power of the VCR on and off.

5 (PAUSE/STILL)
Sets pauses and still pictures.

6 (FF)
Rapidly advances the tape and allows picture search.

7 (REC)
Starts recording.

8 (STOP)
Stop tape transport.

NOTE
- The color-highlighted buttons on the remote control can learn the control signal from another device’s remote control.
**Useful Features**

**DVD/DVR control buttons**

When the DVD/DVR is preset by the learning function of the remote control, the remote control unit buttons will function as follows when the Mode switch of the remote control unit is set to DVD/DVR.

- When the input selector button having the same number as the input terminal connecting a DVD player or DVD recorder is pressed, these players can be operated using 1 to 8.
- DVD players or DVD recorders made by other manufacturers and not preset can also be operated using 1 to 8 if learned the functions. See page 97.

1. **CH +/- (DVD recorder only)**
   - Press to change the channel of the tuner built in the DVD recorder.

2. **RETURN**
   - When the DVD menu is in display, press to restore the immediately previous screen.

3. **► (PLAY)**
   - Selects playback.

4. **❖ (CHAPTER SEARCH)**
   - Pressing quickly once takes you to the start of the chapter currently playing. Each time you press it, you move back to the start of the previous chapter.

5. **❖ (SCAN)**
   - Continue pressing to go backward.

6. **SOURCE**
   - Turns the power of the DVD player or DVD recorder on and off.

7. **II (PAUSE/STILL)**
   - Sets pauses and still pictures.

8. **SAT/DVD MENU (DVD, DVD recorder)**
   - When this button is pressed, the DVD menu will appear.

9. **ENTER,**/+/+/+/+/+/+/+/+/ (DVD, DVD recorder)
   - ENTER: Press to activate the selected function.
   - */+/+/+/+/+/+/+: Press the button to select items on the DVD MENU screen.

10. **DVD TOP MENU (DVD, DVD recorder)**
    - When this button is pressed, the DVD top menu will appear.
Useful Features

1. (CHAPTER SEARCH)
   Pressing quickly once takes you to the start of the next chapter. Each time you press it, you move ahead to the start of the next chapter.

2. (SCAN)
   Continue pressing for fast forward.

3. (REC)
   Starts recording.

4. (STOP)
   Playback stops when pressing once.
   With some DVD players or DVD recorders, pressing the button twice may open the disc tray.

5. (REC STOP)
   Press and hold , and then press this button to stop recording. This operation is true of only Pioneer DVD recorders.

NOTE
- The DVD player or DVD recorder cannot be selected at the same time.
- The color-highlighted buttons on the remote control can learn the control signal from another device’s remote control.
## Appendix

### Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>• No power.</td>
<td>• Make sure the Plasma Display and the Media Receiver are connected correctly. (See page 20.)</td>
</tr>
<tr>
<td>• Green and red rectangles appear on the screen alternately.</td>
<td>• Check if the system cable has been disconnected or almost disconnected? (See page 20.)</td>
</tr>
<tr>
<td>• The system cannot be operated.</td>
<td>• External influences such as lightning, static electricity, etc., may cause improper operation. In this case, operate the system after first turning the power of the Plasma Display and the Media Receiver, 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>• Check if the input source for video or PC has been unintentionally selected although you want to watch a TV channel. (See page 30.)</td>
</tr>
<tr>
<td>• No image and audio is presented.</td>
<td>• Check if you have activated the Parental Control function. (See page 90.) Enter a password to temporarily cancel the Parental Control function. (See page 94.)</td>
</tr>
<tr>
<td>• No picture.</td>
<td>• Is connection to other components correct? (See pages 65 to 77.)</td>
</tr>
<tr>
<td>• Images are presented but no audio is output.</td>
<td>• Is connection to other components correct? (See pages 65 to 77.)</td>
</tr>
<tr>
<td>• Sound is reversed between the right and left.</td>
<td>• Check if you have selected the minimum volume. (See page 31.)</td>
</tr>
<tr>
<td>• Sound is output from only a single speaker.</td>
<td>• Check if you have muted sound. (See page 31.)</td>
</tr>
<tr>
<td>• Picture is cut off.</td>
<td>• Is the image position correct? (See pages 81 and 82.)</td>
</tr>
<tr>
<td>• Strange colour, light colour, dark or colour misalignment.</td>
<td>• Has the correct screen size been selected? (See page 83.)</td>
</tr>
<tr>
<td>• Power is suddenly turned off.</td>
<td>• Adjust the picture tone. (See pages 47 to 53.)</td>
</tr>
<tr>
<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 pages 13 and 20.)</td>
<td></td>
</tr>
<tr>
<td>• The system’s internal temperature has increased. Remove any objects blocking vent or clean. (See pages 18 to 19.)</td>
<td></td>
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### Code Message Check

<table>
<thead>
<tr>
<th>Code</th>
<th>Message</th>
<th>Check</th>
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<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. Check speaker cable connections between the Plasma Display and the speakers.</td>
<td></td>
</tr>
<tr>
<td>SD11</td>
<td>Powering off. Internal temperature too high. Check temperature around media receiver.</td>
<td>Check if the ambient temperature of the Plasma Display and the Media Receiver is high.</td>
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## Computer compatibility chart

<table>
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<tr>
<th>Resolution</th>
<th>Frequency</th>
<th>Remarks</th>
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<tr>
<td>720 x 400</td>
<td>70 Hz</td>
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<tr>
<td>640 x 480</td>
<td>60 Hz</td>
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<td></td>
<td>65 Hz</td>
<td>Macintosh 13&quot; (67 Hz)</td>
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<td></td>
<td>72 Hz</td>
<td></td>
</tr>
<tr>
<td></td>
<td>75 Hz</td>
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<tr>
<td>800 x 600</td>
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<td>72 Hz</td>
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<td>1024 x 768</td>
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<td></td>
<td>75 Hz</td>
<td>Macintosh 19&quot;</td>
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<tr>
<td>1280 x 768</td>
<td>56 Hz</td>
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<td></td>
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### Specifications

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<th>43&quot; Plasma Display, Model: PRO-434PU</th>
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</thead>
<tbody>
<tr>
<td>Number of Pixels</td>
<td>1280 x 768 pixels</td>
<td>1024 x 768 pixels</td>
</tr>
<tr>
<td>Audio Amplifier</td>
<td>13 W + 13 W (1 kHz, 10 %, 8 Ω)</td>
<td>13 W + 13 W (1 kHz, 10 %, 8 Ω)</td>
</tr>
<tr>
<td>Surround System</td>
<td>SRS/FOCUS/TruBass</td>
<td>SRS/FOCUS/TruBass</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>120 V AC, 60 Hz, 565 W (0.3 W Standby)</td>
<td>120 V AC, 60 Hz, 298 W (0.3 W Standby)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>1270 (W) x 737 (H) x 98 (D) mm</td>
<td>120 (W) x 652 (H) x 98 (D) inches</td>
</tr>
<tr>
<td>Weight</td>
<td>38 kg (83.8 lbs.)</td>
<td>30.5 kg (67.3 lbs.)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>50&quot; Plasma Display, Model: PRO-504PU</th>
<th>43&quot; Plasma Display, Model: PRO-434PU</th>
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<td>Number of Pixels</td>
<td>1280 x 768 pixels</td>
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*Design and specifications are subject to change without notice.*
Appendix

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About HDMI
Quelques mots sur HDMI
Acerca de HDMI
For the handling procedures and the other functions, refer to the dedicated operation manual.

Using HDMI Input
The INPUT 1 and INPUT 3 terminals include HDMI terminals to which digital video and audio signals can be input. 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 1 (or INPUT 3) on the remote control unit or press INPUT on the Plasma Display to select INPUT 1 (or INPUT 3).

Connecting HDMI equipment

Media Receiver (rear view)

To activate the HDMI terminal:
1. Press HOME MENU.
2. Press ▲▼ to select “Option”, and then press ENTER.
3. Press ▲▼ to select “HDMI Input”, and then press ENTER.
4. Press ▲▼ to select “Setting”, and then press ENTER.
5. Press ▲▼ to select “Enable”, and then press ENTER.

6. Press HOME MENU to exit the menu.

Input signal correlation table

<table>
<thead>
<tr>
<th>Signal</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1920×1080@59.94/60Hz</td>
<td>Digital video/audio signals</td>
</tr>
<tr>
<td>720×480p@59.94/60Hz</td>
<td>Digital video/audio signals</td>
</tr>
<tr>
<td>1280×720p@59.94/60Hz</td>
<td>Digital video/audio signals</td>
</tr>
<tr>
<td>720(1440)×480i@59.94/60Hz</td>
<td>Digital video/audio signals</td>
</tr>
</tbody>
</table>

• PC signals are out of correspondence.

NOTE

- HDMI equipment

Audio cable (commercially available)
Make this connection when inputting analog audio signals.

HDMI cable
(commercially available)

Setting

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disable</td>
<td>Deactivates the HDMI terminal.</td>
</tr>
<tr>
<td>Enable</td>
<td>Activates the HDMI terminal.</td>
</tr>
</tbody>
</table>

(factory default)
To specify the type of digital video signals:

1 Press HOME MENU.
2 Press \(\uparrow/\downarrow\) to select "Option", and then press ENTER.
3 Press \(\uparrow/\downarrow\) to select "HDMI Input", and then press ENTER.
4 Press \(\uparrow/\downarrow\) to select "Video", and then press ENTER.
5 Press \(\uparrow/\downarrow\) to select the type of digital video signals, and then press ENTER.

• If you select “Auto”, an attempt will be made to identify the type of digital video signals when digital video signals are received.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto</td>
<td>Automatically identifies input digital video signals.</td>
</tr>
<tr>
<td>Color-1</td>
<td>Digital Component Video signals (4:2:2) locked</td>
</tr>
<tr>
<td>Color-2</td>
<td>Digital Component Video signals (4:4:4) locked</td>
</tr>
<tr>
<td>Color-3</td>
<td>Digital RGB signals locked</td>
</tr>
</tbody>
</table>

6 Press HOME MENU to exit the menu.

**NOTE**
- If you select a parameter other than “Auto”, make such a setting that results in natural color.
- If no image appears, 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.

To specify the type of audio signals:

1 Press HOME MENU.
2 Press \(\uparrow/\downarrow\) to select "Option", and then press ENTER.
3 Press \(\uparrow/\downarrow\) to select "HDMI Input", and then press ENTER.
4 Press \(\uparrow/\downarrow\) to select “Audio”, and then press ENTER.
5 Press \(\uparrow/\downarrow\) to select the type of audio signals, and then press ENTER.

• If you select “Auto”, an attempt will be made to identify the type of audio signals when audio signals are received.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto</td>
<td>Automatically identifies input audio signals.</td>
</tr>
<tr>
<td>Digital</td>
<td>Accepts digital audio signals.</td>
</tr>
<tr>
<td>Analog</td>
<td>Accepts analog audio signals.</td>
</tr>
</tbody>
</table>

6 Press HOME MENU to exit the menu.

**NOTE**
- If no sound is output, specify another audio signal type.
- For the audio signal types to be specified, check the operation manual that came with the connected equipment.
- Depending on the equipment to be connected, you also need to connect analog audio cables.

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Pour tout ce qui concerne le mode opératoire et les autres fonctions, reportez-vous au mode d'emploi spécifique.

Utilisation de l’entrée HDMI
Les prises INPUT 1 et INPUT 3 assurent les liaisons HDMI et peuvent recevoir des signaux d’entrée audio et vidéo. Pour utiliser la prise HDMI, mettez cette prise en service et précisez le type des signaux audio et vidéo en provenance de l’appareil relié. Pour de plus amples détails concernant les signaux, reportez-vous au mode d’emploi qui accompagne l’appareil relié.

Avant d’ouvrir le menu, appuyez sur INPUT 1, (ou INPUT 3), sur le boîtier de télécommande, ou bien appuyez sur INPUT, sur l’écran à plasma, pour sélectionner INPUT 1 (ou INPUT 3).

Raccordement d’un appareil HDMI

Récepteur Média (vue de dos)

Tableau de corrélation des signaux d’entrée

<table>
<thead>
<tr>
<th>Signaux d’entrée</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1920×1080@59,94/60Hz</td>
<td></td>
</tr>
<tr>
<td>720×480p@59,94/60Hz</td>
<td></td>
</tr>
<tr>
<td>1280×720p@59,94/60Hz</td>
<td></td>
</tr>
<tr>
<td>720(1440)×480i@59,94/60Hz</td>
<td></td>
</tr>
</tbody>
</table>

REMARQUE
• Les signaux PC ne sont pas en correspondance.

Pour mettre en service la prise HDMI:

1. Appuyez sur HOME MENU.
2. Utilisez / pour sélectionner “Options” puis appuyez sur ENTER.
3. Utilisez / pour sélectionner “Entrée HDMI” puis appuyez sur ENTER.
4. Utilisez / pour sélectionner “Règlage” puis appuyez sur ENTER.
5. Utilisez / pour sélectionner “Activer” puis appuyez sur ENTER.
6. Appuyez sur HOME MENU pour quitter le menu.
Pour préciser le type des signaux vidéo numériques:

1. Appuyez sur HOME MENU.
2. Utilisez pour sélectionner "Options" puis appuyez sur ENTER.
3. Utilisez pour sélectionner "Entrée HDMI" puis appuyez sur ENTER.
4. Utilisez pour sélectionner "Vidéo" puis appuyez sur ENTER.
5. Utilisez pour sélectionner le type des signaux vidéo puis appuyez sur ENTER.

- Si vous sélectionnez "Auto", l’appareil tente d’identifier les signaux vidéo numériques lorsqu’ils sont reçus.

<table>
<thead>
<tr>
<th>Paramètre</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto (valeur par défaut)</td>
<td>Le signal d’entrée vidéo numériques est automatiquement identifié.</td>
</tr>
<tr>
<td>Couleur-1</td>
<td>Signaux des composantes vidéo numériques (4:2:2) verrouillés</td>
</tr>
<tr>
<td>Couleur-2</td>
<td>Signaux des composantes vidéo numériques (4:4:4) verrouillés</td>
</tr>
<tr>
<td>Couleur-3</td>
<td>Signaux RVB numériques verrouillés</td>
</tr>
</tbody>
</table>

6. Appuyez sur HOME MENU pour quitter le menu.

**REMARQUE**
- Si vous sélectionnez une valeur autre que "Auto", effectuez le réglage de manière que les couleurs soient naturelles.
- Si aucune image n’apparaît, choisissez un autre type de signal vidéo numérique.
- Pour de plus amples détails concernant les types de signal vidéo numérique, reportez-vous au mode d’emploi qui accompagne l’appareil relié.

Pour préciser le type des signaux audionumériques:

1. Appuyez sur HOME MENU.
2. Utilisez pour sélectionner "Options" puis appuyez sur ENTER.
3. Utilisez pour sélectionner "Entrée HDMI" puis appuyez sur ENTER.
4. Utilisez pour sélectionner "Audio" puis appuyez sur ENTER.
5. Utilisez pour sélectionner le type des signaux audio puis appuyez sur ENTER.

- Si vous sélectionnez "Auto", l’appareil tente d’identifier les signaux audio lorsqu’ils sont reçus.

<table>
<thead>
<tr>
<th>Paramètre</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto (valeur par défaut)</td>
<td>Le type des signaux d’entrée audio est automatiquement identifié.</td>
</tr>
<tr>
<td>Numérique</td>
<td>Les signaux audionumériques sont acceptés.</td>
</tr>
<tr>
<td>Analogique</td>
<td>Les signaux audio analogiques sont acceptés.</td>
</tr>
</tbody>
</table>

6. Appuyez sur HOME MENU pour quitter le menu.

**REMARQUE**
- Si aucun son n’est produit, sélectionner un autre type pour les signaux audio.
- Pour de plus amples détails concernant les types de signal audio, reportez-vous au mode d’emploi qui accompagne l’appareil relié.
- Selon l’appareil relié, il vous faut également des câbles pour les signaux audio analogiques.

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Para los procedimientos de manoseo y otras funciones, consulte el manual de instrucciones dedicado.

Utilización de la entrada HDMI
Los terminales INPUT 1 e INPUT 3 incluyen terminales HDMI a los cuales pueden introducirse señales digitales de audio y video. Para utilizar el terminal HDMI, active el terminal y especifique los tipos de señales de audio y video que se van recibir desde el equipo conectado. Para los tipos de señales, consulte el manual de instrucciones que acompaña el equipo conectado.

Antes de iniciar el menú, pulse INPUT 1 (o INPUT 3) del mando a distancia o pulse INPUT de la pantalla de plasma para seleccionar INPUT 1 (o INPUT 3).

Conexión de un equipo HDMI

Media Receiver (vista trasera)

Para activar el terminal HDMI:

1. Pulse HOME MENU.
2. Pulse para seleccionar “Opción” y, a continuación, pulse ENTER.
3. Pulse para seleccionar “Entrada HDMI” y, a continuación, pulse ENTER.
4. Pulse para seleccionar “Valor” y, a continuación, pulse ENTER.
5. Pulse para seleccionar “Activar” y, a continuación, pulse ENTER.

6. Pulse HOME MENU para salir del menú.

Tabla de correlación de las señales de entrada

<table>
<thead>
<tr>
<th>Señal de entrada</th>
<th>Resolución</th>
</tr>
</thead>
<tbody>
<tr>
<td>1920*1080@59,94/60Hz</td>
<td></td>
</tr>
<tr>
<td>720*480p@59,94/60Hz</td>
<td></td>
</tr>
<tr>
<td>1280*720p@59,94/60Hz</td>
<td></td>
</tr>
<tr>
<td>720*480i@59,94/60Hz</td>
<td></td>
</tr>
</tbody>
</table>

• Las señales de PC están fuera de correspondencia.

**NOTA**
Para especificar el tipo de señales de vídeo digitales:

1. Pulse HOME MENU.
2. Pulse para seleccionar "Opción" y, a continuación, pulse ENTER.
3. Pulse para seleccionar "Entrada HDMI" y, a continuación, pulse ENTER.
4. Pulse para seleccionar "Vídeo" y, a continuación, pulse ENTER.
5. Pulse para seleccionar el tipo de señales de vídeo digitales y, a continuación, pulse ENTER.

<table>
<thead>
<tr>
<th>Valor</th>
<th>Descripción</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto</td>
<td>Identifica automáticamente las señales de vídeo digitales (valor predeterminado)</td>
</tr>
<tr>
<td>Color-1</td>
<td>Señales de vídeo componente digitales (4:2:2) bloqueadas</td>
</tr>
<tr>
<td>Color-2</td>
<td>Señales de vídeo componente digitales (4:4:4) bloqueadas</td>
</tr>
<tr>
<td>Color-3</td>
<td>Señales RGB digitales bloqueadas</td>
</tr>
</tbody>
</table>

- Si se selecciona "Auto", se hará un intento para identificar el tipo de señales de vídeo digitales cuando se reciben las señales de vídeo digitales.

6. Pulse HOME MENU para salir del menú.

**NOTA**
- Si selecciona un parámetro diferente de "Auto", haga un ajuste que produzca un color natural.
- Si no aparece ninguna imagen, especifique otro tipo de señal de vídeo digital.
- Para el tipo de señales de vídeo digitales que se debe especificar, consulte el manual de instrucciones que acompaña el equipo conectado.

Para especificar el tipo de señales de audio:

1. Pulse HOME MENU.
2. Pulse para seleccionar "Opción" y, a continuación, pulse ENTER.
3. Pulse para seleccionar "Entrada HDMI" y, a continuación, pulse ENTER.
4. Pulse para seleccionar "Audio" y, a continuación, pulse ENTER.
5. Pulse para seleccionar el tipo de señales de audio y, a continuación, pulse ENTER.

<table>
<thead>
<tr>
<th>Valor</th>
<th>Descripción</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto</td>
<td>Identifica automáticamente las señales de audio introducidas (valor predeterminado)</td>
</tr>
<tr>
<td>Digital</td>
<td>Acepta las señales de audio digitales.</td>
</tr>
<tr>
<td>Analógico</td>
<td>Acepta las señales de audio analógicas.</td>
</tr>
</tbody>
</table>

- Si se selecciona "Auto", se hará un intento para identificar el tipo de señales de audio cuando se reciben las señales de audio.

6. Pulse HOME MENU para salir del menú.

**NOTA**
- Si no se genera ningún sonido, especifique otro tipo de señales de audio.
- Para el tipo de señales de audio que se debe especificar, consulte el manual de instrucciones que acompaña el equipo conectado.
- Dependiendo del equipo que se va conectar, también necesita conectar cables de audio analógicos.

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