

**Pioneer** *sound.vision.soul*

Operating Instructions | Manual de instrucciones |  
Manual de instruções | 操作手冊 |

**HDMI**<sup>TM</sup>  
HIGH-DEFINITION MULTIMEDIA INTERFACE

**SRS**   
WOW  
DIGITAL

PLASMA TELEVISION  
TELEVISOR DE PLASMA  
TELEVISOR DE PLASMA  
電漿電視

PDP-508XG

PDP-428XG

## To use your plasma television for a long period of time

### Cautions regarding screen burning

#### After-image lagging and screen burning

##### After-image lagging:

When characters, images or images of fixed patterns with very high luminance are displayed on a plasma television screen, even if displayed for a relatively short period of time, the image may remain on the screen due to the residual electric load of the panel. However, this is not a malfunction. This after-image lagging can be eliminated gradually by displaying moving images in full screen.

##### Burning:

When images like those described above are displayed continuously for a long period of time or repeatedly, a difference occurs between the luminance of the continuously displayed image and that of other portions of the screen, resulting in the image remaining on the screen due to burning. Please note that if this burning occurs, it may be difficult to completely restore the screen to the state prior to burning. **It should also be noted that this phenomenon tends to occur more easily soon after the product is purchased.**

#### Display examples susceptible to burning

- If programs such as terrestrial digital broadcasts having a screen size of 4:3 are viewed repeatedly, the normal display area other than the black bands on the left and right sides of the screen becomes susceptible to burning.
- If cinema-size images are repeatedly viewed in their original size, the normal display area other than the black bands at the top and bottom of the screen becomes susceptible to burning.
- If programs containing a time display or station name displayed on the screen are viewed for a long period of time (or viewed repeatedly), the displayed characters may be easily burned onto the screen.
- If images of fixed patterns such as those of personal computer displays or game software are displayed for a long period of time, the patterns may be easily burned onto the screen.



#### Preventing burning

It is recommended to use your plasma television while paying attention to the matters described below, particularly when using the product soon after it has been purchased, to prevent screen burning.

- Avoid using the product while displaying images susceptible to burning as described above whenever possible.
- Use the product with the Orbiter function set to "On" (⇒ see *Useful adjustment settings: "Orbiter"*).
- When **viewing programs broadcast** in a 4:3 or cinema screen size, switch the screen size with the remote control unit to display the image in full screen. (Change the screen size to "WIDE", for example, with the screen size button on the remote control unit (⇒ see *Part names: "Remote control unit"*)).
- Set the Side Mask detection function to "On" (⇒ see *Useful adjustment settings: "Detecting side masks"*).
- Set the brightness of the **side masks** that appear on the left and right sides of the screen when viewing at a 4:3 screen size to "Auto" in "Brightness Sync." (⇒ see *Useful adjustment settings: "Changing the brightness at both sides of the screen (Side Mask)"*).
- It is recommended to lower the brightness when viewing by setting the **Energy Save** function to "Mode 1" (⇒ see *Setting up: "Power Control"*).

# 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**

### CAUTION:

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



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.

D3-4-2-1-1\_En-A

## CAUTION

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

D3-4-2-2-2a\_A\_En

## WARNING

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

D3-4-2-1-3\_A\_En

## WARNING

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

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

D3-4-2-1-4\_A\_En

## WARNING

**This product equipped with a three-wire grounding (earthed) plug - a plug that has a third (grounding) pin.**

**This plug only fits a grounding-type power outlet. If you are unable to insert the plug into an outlet, contact a licensed electrician to replace the outlet with a properly grounded one. Do not defeat the safety purpose of the grounding plug.**

D3-4-2-1-6\_A\_En

## 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)

Do not install this unit in a poorly ventilated area, or in locations exposed to high humidity or direct sunlight (or strong artificial light)

D3-4-2-1-7c\_A\_En

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

## WARNING

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

## CAUTION

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

## WARNING

**To prevent a fire hazard, do not place any naked flame sources (such as a lighted candle) on the equipment.**

D3-4-2-1-7a\_A\_En

## VENTILATION CAUTION

**When installing this unit, make sure to leave space around the unit for ventilation to improve heat radiation. For the minimum space required, see page 15.**

## WARNING

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

## STANDBY/ON Button

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

**STANDBY/ON Indicator:** The indicator is lit red when the unit is in the standby mode and is lit blue when it is in the power-on mode.

## Contents

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 are the same.

Illustrations shown in this manual are for the PDP-508XG unless otherwise specified.

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## Chapter 1

# Important user information

In order to obtain maximum enjoyment from this Pioneer PDP-508XG/PDP-428XG plasma television, please first read this information carefully.

With the Pioneer PDP-508XG/PDP-428XG, you can be assured of a high quality plasma television with long-life and high reliability. To achieve images of exceptional quality, this Pioneer plasma television incorporates state-of-the-art design and construction, as well as very precise and highly advanced technology.

The Pioneer PDP-508XG/PDP-428XG incorporates the latest in color filter technology: Direct Color Filter. This improves the color/picture reproduction of these models as compared to previous models. It also eliminates the need for a physical glass panel to be placed in front of the plasma panel, which furthers Pioneer's continued goal of reducing environmental waste in consumer electronics, now during the manufacturing process and in the future during the recycling process.

Over the course of its lifetime, the luminosity of the Pioneer PDP-508XG/PDP-428XG plasma television 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 television for a long time, 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 televisions 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 television:

- Whenever possible, avoid frequently displaying the same image or virtually still moving pictures (e.g. video game images which have static portions).
- Do not display Teletext for a prolonged period of time.
- Avoid viewing the On Screen Display for extended periods, from a digital tuner, 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 do not use this mode for long periods of time.
- After playing a game, displaying a PC image or any still image, it is best to view a normal moving picture in the "WIDE" or "FULL" screen setting for more than three times the length of the previous still/moving image.
- After using the plasma television, always switch the display to "STANDBY" mode.

### Installation guidelines

The Pioneer PDP-508XG/PDP-428XG plasma television incorporates a very thin design. To ensure safety, please take the proper measures to mount or install the plasma television, in order to prevent the unit from tipping over in the event of vibration or accidental movement.

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

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

- Distance the unit slightly from other equipment, walls, etc. For the minimum space required around the unit, see page 15.
- 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.
- Do not turn the product upside down.

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

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

### Note

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

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

### Caution

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

## Important user information

01

English

### Plasma television 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 television automatically adjusts the brightness to protect the screen when detecting still images; so this does not designate malfunction. The screen is dimmed when a still image is detected for about three minutes.

### Information of pixel defect

Plasma television displays information using pixels. Pioneer plasma television panels contain a very large number of pixels. (Depending on the panel size: over 2.3 million cells in case of a 42 inch display; over 3.1 million cells in the case of a 50 inch display). All Pioneer display panels are manufactured using a very high level of ultra-precision technology and undergo individual quality control.

In rare cases, some pixels can be permanently switched off, or on, resulting in either a black or colored pixel permanently fixed on the screen.

This effect is common to all plasma television because it is a consequence of the technology.

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

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

### Infrared rays

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

### Plasma television driving sound

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

### 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 surface of the screen and the glossy surface of the front cabinet

When cleaning the surface of the screen or the glossy surface of the front cabinet, gently wipe it with a dry soft cloth; the supplied cleaning cloth or other similar cloths (e.g., cotton and flannel). If you use a dusty or hard cloth or if you rub the screen hard, the surface of the product will be scratched.

If you clean the surface of the screen with a wet cloth, water droplets on the surface may enter into the product, resulting in malfunction.

### Cleaning the cabinet

When cleaning the cabinet of this product, gently wipe it with a clean soft cloth (e.g., cotton and flannel). If you use a dusty or hard cloth or if you rub the cabinet hard, the surface of the cabinet will be scratched.

The cabinet of this product is mostly composed of plastic. Do not use chemicals such as benzene or thinner to clean the cabinet. Using these chemicals may result in quality deterioration or coating removal.

Do not expose the product to volatile gas or fluid such as pesticide. Do not make the product contact with rubber or vinyl products for a long period of time. The effect of plasticizer in the plastic may result in quality deterioration or coating removal.

If you clean the surface of the cabinet with a wet cloth, water droplets on the surface may enter into the product, resulting in malfunction.

### Handles at the rear of the plasma television

Do not remove the handles from the rear of the plasma television.

When moving the plasma television, ask another person for help and use the handles attached to the rear of the plasma television. Do not move the plasma television by holding only a single handle.

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.

### Fan noise

The rotation speed of the cooling fan motor increases when the ambient temperature of the plasma television becomes high. You may hear the sound of the fan motor at that time.

**To use this product for a long period of time**

The Energy Save function can maintain efficiency of the screen for a long period of time. Setting the Energy Save function to "Mode 1" is recommended in order to maintain the efficiency of the screen for a long period of time.

 **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.

**After-image lagging due to remaining electrical load**

When image patterns with very high peak luminance are displayed for more than one 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.

**After-image (lag image) due to burning**

Avoid displaying the same image on the plasma television continuously over a long period of time.

If the same image is displayed continuously for a long period, 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.

 **Note**

- When a still image, such as a program menu, is displayed for 5 to 10 minutes, the system automatically turns the image off to prevent damage from screen burning.
- To prevent screen burning, the display position is automatically changed imperceptibly when watching plasma television (see *Orbiter* on page 39).

**Preventing damage from screen burning**

- We recommend that you enjoy watching images displayed in full screen, except when doing so may result in copyright infringement (see page 37).
- Set the Side Mask detection function to "On", the High Definition 16:9 aspect ratio images containing side masks will be detected and the side masks will be added automatically or the image displayed in full screen, leading to more effective countermeasures taken for the screen burning (see *Detecting side masks* on page 38).

## Chapter 2

# Safety precautions

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

1. Read instructions - All operating instructions must be read and understood before the product is operated.
  2. Keep this manual in a safe place - These safety and operating instructions must be kept in a safe place for future reference.
  3. Observe warnings - All warnings on the product and in the instructions must be observed closely.
  4. Follow instructions - All operating instructions must be followed.
  5. Cleaning - Unplug the power cord from the AC outlet before cleaning the product. To clean the product, use the supplied cleaning cloth or other soft clothes (e.g., cotton, flannel). Do not use liquid cleaners or aerosol cleaners.
  6. Attachments - Do not use attachments not recommended by the manufacturer. Use of inadequate attachments can result in accidents.
  7. Water and moisture - Do not use the product near water, such as bathtub, washbasin, kitchen sink and laundry tub, swimming pool and in a wet basement.
  8. Stand - Do not place the product on an unstable cart, stand, tripod or table. Placing the product on an unstable 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, be sure to follow the manufacturer's instructions. Use only the mounting hardware recommended by the manufacturer.
  9. When relocating the product placed on a cart, it must be moved with utmost care. Sudden stops, excessive force and uneven floor surface can cause the product to fall from the cart.
- 
10. Ventilation - The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.
  11. Power source - This product must operate on a power source specified on the specification label. If you are not sure of the type of power supply used in your home, consult your dealer or local power company.
  12. Power cord protection - The power cords must be routed properly to prevent people from stepping on them or objects from resting on them. Check the cords at the plugs and product.
  13. The plasma television 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 television 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.
 

Do not touch the controls other than those described in the operating instructions. Improper adjustment of controls not described in the instructions can cause damage, which often requires extensive adjustment work by a qualified technician.
    - 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 (for PDP-508XG only).
  23. Never expose the screen of the plasma television 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 television 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 television weighs about 34.6 kg (76.3 lbs.) for the PDP-508XG and about 29.6 kg (65.3 lbs.) for the PDP-428XG. Because it has small depth and is unstable, unpack, carry, and install the product with one more person at least and use the handles.

## 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.

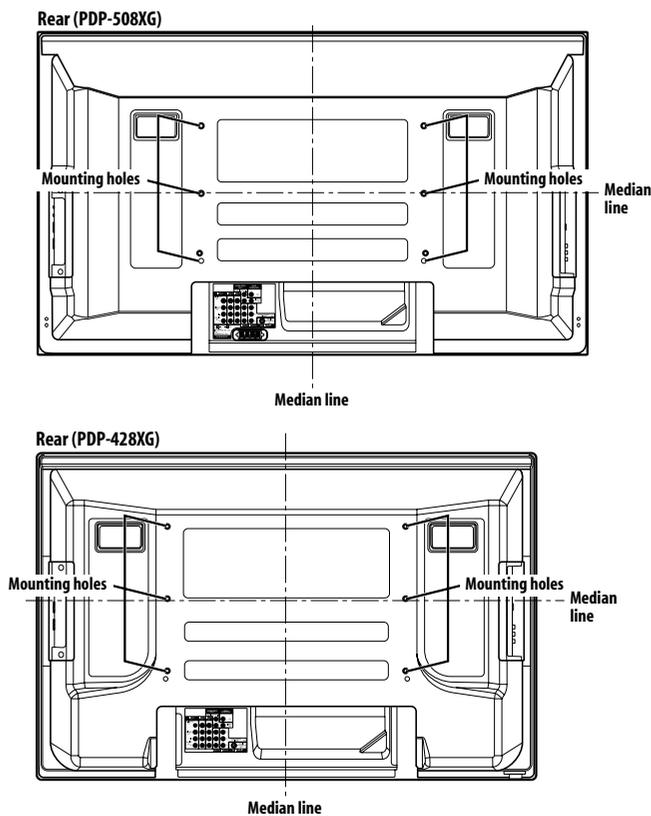
Be sure to use the supplied bolts.

For details, see the instruction manual that comes with the optional stand (or equivalent items).

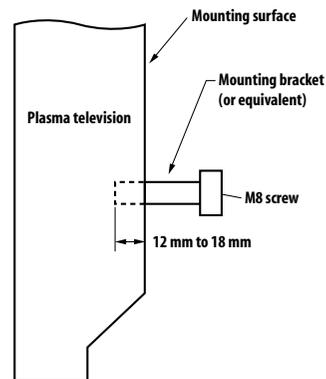
### When using other items

Consult your dealer.

The following six mounting holes can be used for the installation:



### Side view



### Caution

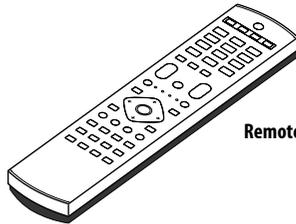
- Be sure to use four or more mounting holes symmetrical to the vertical and horizontal median lines.
- Use M8 screws, which go 12 mm to 18 mm in depth from the mounting surface of the plasma television. See the side view above.
- Be careful not to block the ventilation opening at the rear of the plasma television.
- Be sure to install the plasma television on a flat surface because it contains glass.
- The screw holes other than the illustrations on the left are to be used only for the specified products. Never use them for mounting non-specified products.
- Do not mount or remove the plasma television to or from the stand, with speakers attached (for PDP-508XG only).

### 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.

# Chapter 3 Supplied accessories

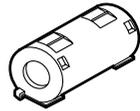
Check that all of the following accessories are supplied in the box.



Remote control unit



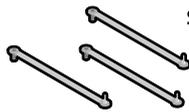
AA size battery x 2  
(for remote control unit)



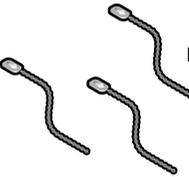
Ferrite core



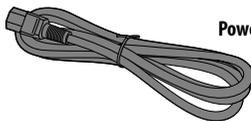
Cable tie (for ferrite core)



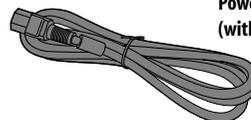
Speed clamp x 3



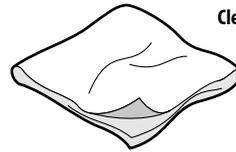
Bead band x 3



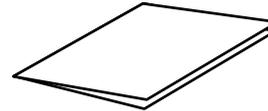
Power cord \*1



Power cord  
(with a ferrite core attached) \*1



Cleaning cloth



Warranty card



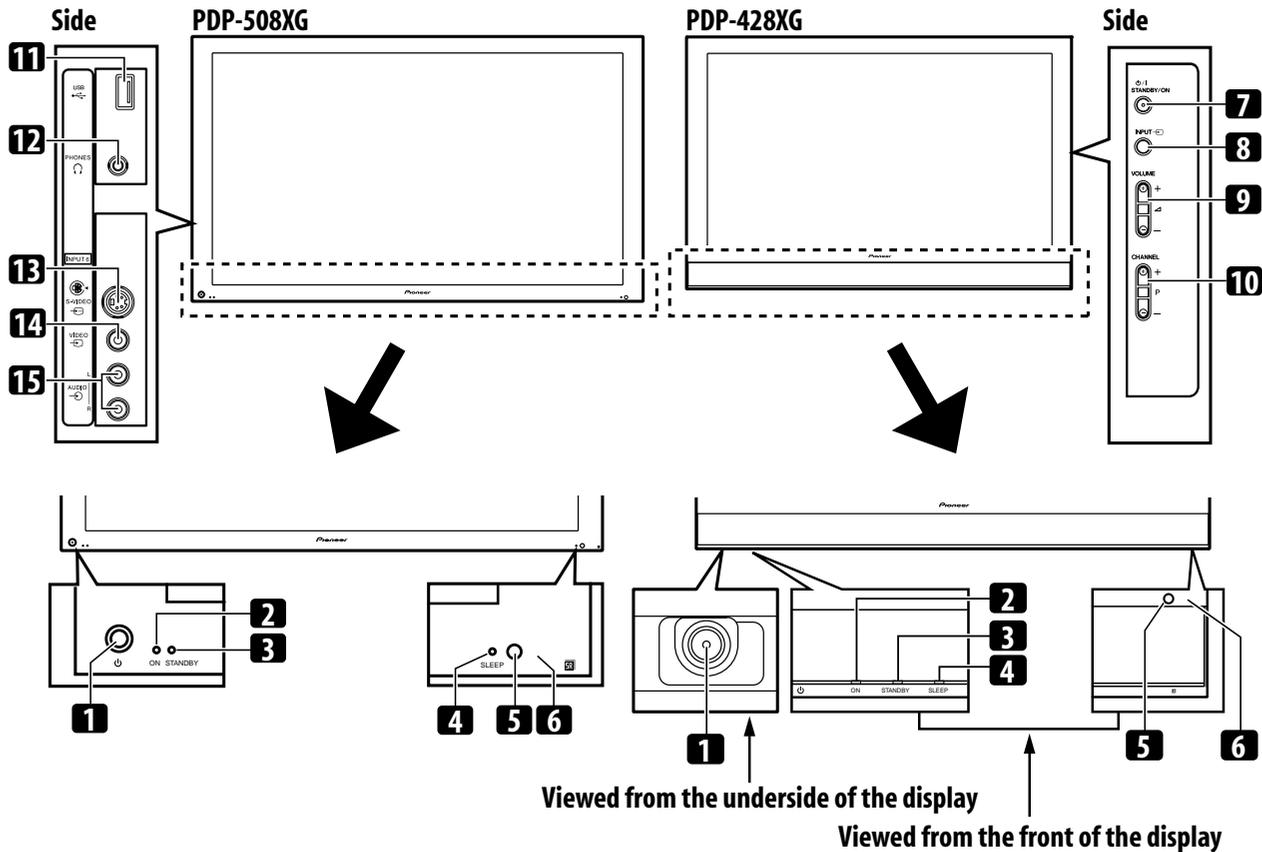
Operating instructions

\*1 Either one of the power cords is supplied depending on the country.

# Chapter 4 Part names

## Plasma television

(Front)



The terminals on side panels are common to the PDP-508XG and PDP-428XG.

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>1  button (If the button is off, the power will not turn on even when <b>0</b> to <b>9</b> on the remote control unit or <b>STANDBY/ON</b> on the plasma television is pressed.)</li> <li>2 POWER ON indicator</li> <li>3 STANDBY indicator</li> <li>4 SLEEP indicator</li> <li>5 Room Light Sensor</li> <li>6 Remote control sensor</li> <li>7 <b>STANDBY/ON</b> button</li> </ul> | <ul style="list-style-type: none"> <li>8 <b>INPUT</b> button</li> <li>9 <b>VOLUME +/-</b> buttons</li> <li>10 <b>CHANNEL +/-</b> buttons</li> <li>11 USB port</li> <li>12 PHONES output terminal</li> <li>13 INPUT 6 terminal (S-VIDEO)</li> <li>14 INPUT 6 terminal (VIDEO)</li> <li>15 INPUT 6 terminals (AUDIO)</li> </ul> |
|--|---|

**Part names**

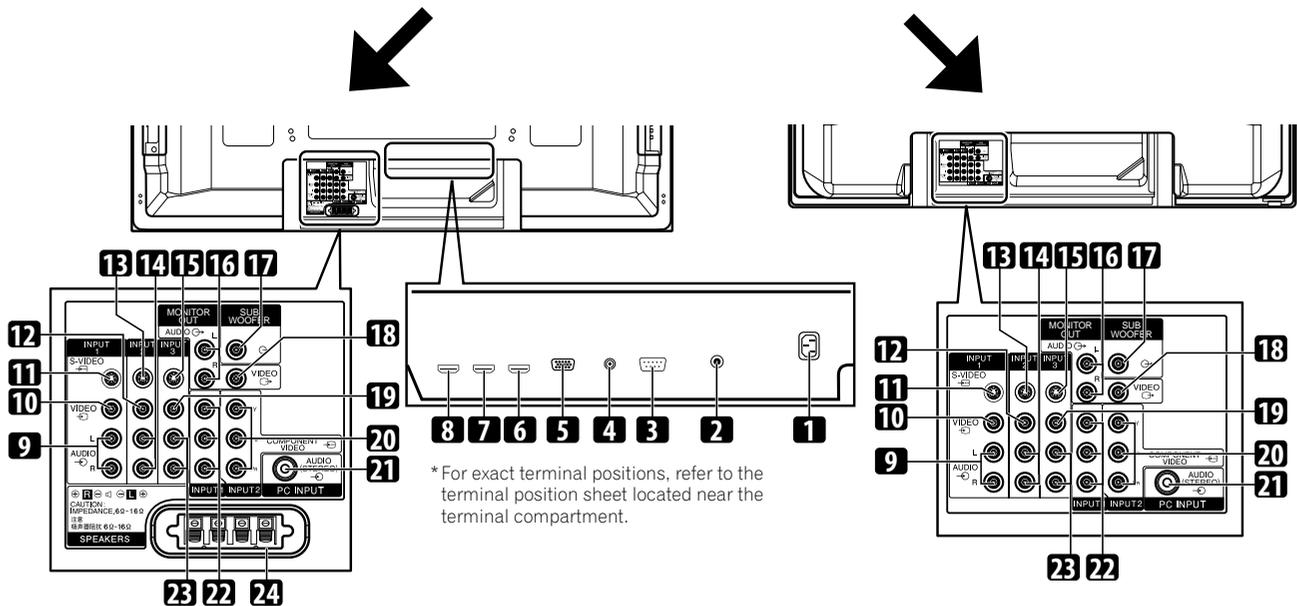
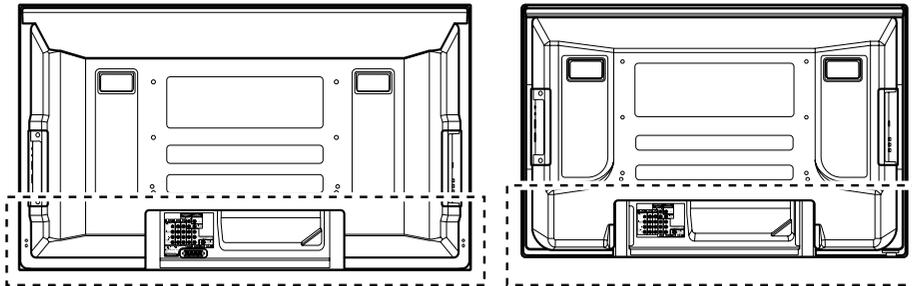
**Plasma television**

**(Rear)**

English

**PDP-508XG**

**PDP-428XG**



\* For exact terminal positions, refer to the terminal position sheet located near the terminal compartment.

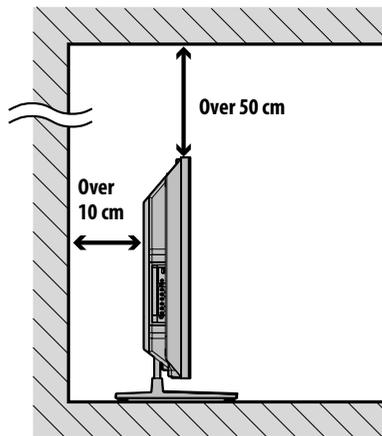
The terminals from 1 to 8 are the same as the PDP-508XG.

- 1 AC IN terminal
- 2 ANT (antenna) input terminal
- 3 RS-232C terminal (used for factory setup)
- 4 CONTROL OUT terminal (supports **SR+**)
- 5 PC INPUT terminal (analog RGB)
- 6 INPUT 5 terminal (HDMI)
- 7 INPUT 4 terminal (HDMI)
- 8 INPUT 3 terminal (HDMI)
- 9 INPUT 1 terminals (AUDIO L, R)
- 10 INPUT 1 terminal (VIDEO)
- 11 INPUT 1 terminal (S-VIDEO)
- 12 INPUT 2 terminal (VIDEO)
- 13 INPUT 2 terminal (S-VIDEO)
- 14 INPUT 2 terminals (AUDIO L, R)
- 15 INPUT 3 terminal (S-VIDEO)
- 16 MONITOR OUT terminals (AUDIO L, R)
- 17 SUBWOOFER output terminal
- 18 MONITOR OUT terminal (VIDEO)
- 19 INPUT 3 terminal (VIDEO)
- 20 INPUT 2 terminals (COMPONENT VIDEO: Y, P<sub>B</sub>, P<sub>R</sub>)
- 21 PC INPUT terminal (AUDIO (STEREO))
- 22 INPUT 1 terminals (COMPONENT VIDEO: Y, P<sub>B</sub>, P<sub>R</sub>)
- 23 INPUT 3 terminals (AUDIO L, R)
- 24 SPEAKERS L, R terminals (*PDP-508XG only*)



## Chapter 5 Preparation

### Installing the plasma television



#### Location

- Avoid direct sunlight. Maintain adequate ventilation.

#### ⚠ Caution

- If you do not leave sufficient space above the plasma television, it will not receive enough ventilation and will not operate properly.
- Pioneer will not be responsible for accident or damage caused by inadequate installation or stabilization, erroneous operation, remodeling or natural disasters.

#### 📝 Note

- Allow enough space around the upper and back parts when installing to ensure adequate ventilation of the rear of the unit.
- Be sure to install the plasma television in a flat, stable location.

#### Using the optional Pioneer stand

For details on installation, refer to the instruction manual supplied with the stand.

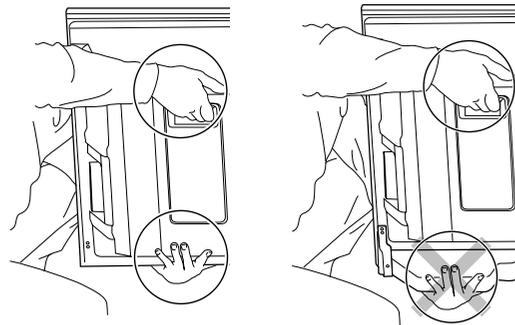
#### Using the optional Pioneer speakers (for PDP-508XG only)

For details on installation, refer to the instruction manual supplied with the speaker.

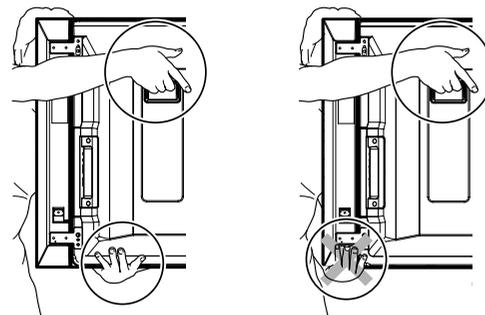
### Moving the plasma television

When installing on a rack, etc., hold the plasma television as shown on the right. Because the plasma television is heavy, be sure to have someone help you when moving it.

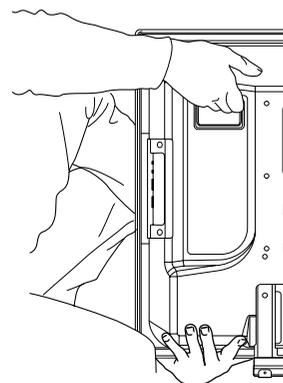
#### (For PDP-508XG) Under speaker



#### Side speaker



#### (For PDP-428XG)



#### 📝 Note

- Do not use the speaker to support the weight of the plasma television.
- When the plasma television has under-mounted speakers, always remove the speakers before moving the plasma television. Do not hold the plasma television by the speaker mounting fittings.

## Preventing the plasma television from falling over

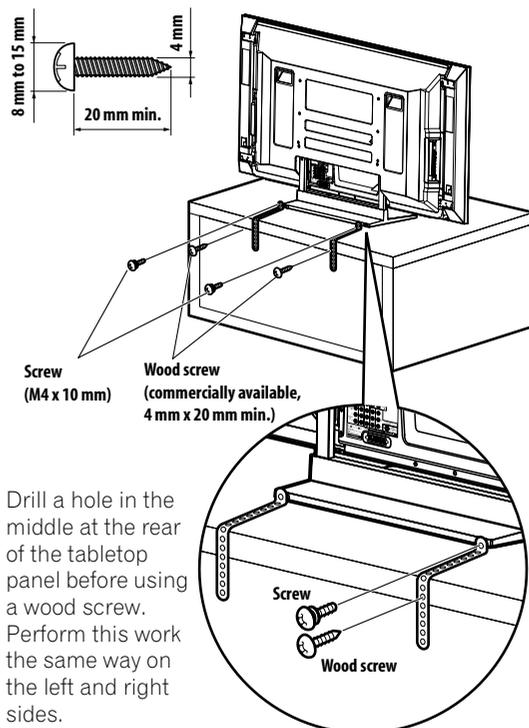
After installing the stand, be sure to take special care to ensure that the plasma television will not fall over and is stabilized to both the wall and rack.

### Stabilizing on a table or rack

Stabilize the plasma television as shown in the diagram using the plastic bands and screws supplied with the optional stand.

#### Note

- To stabilize the plasma television on a table or rack, use screws that have a nominal diameter of 4 mm and that are at least 20 mm long.

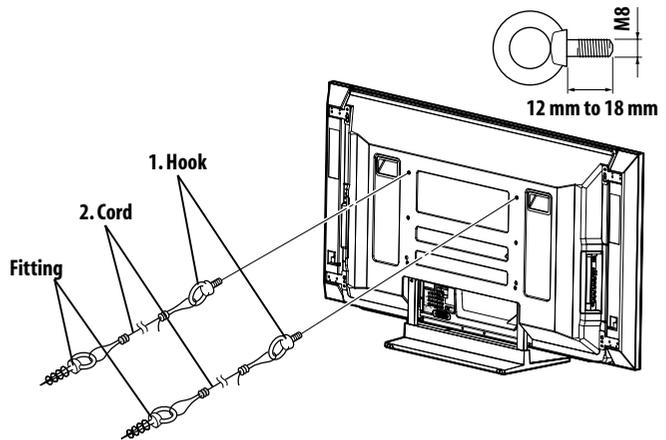


#### Caution

- A table or rack with adequate strength should always be used to support the plasma television. Failure to do so could result in personal injury and physical damage.
- When installing the plasma television, please take the necessary safety measures to prevent it from falling or overturning in case of emergencies, such as earthquakes, or of accidents.
- If you do not take these precautions, the plasma television could fall down and cause injury.
- The screws, hooks, cords and other fittings that you use to secure the plasma television to prevent it from overturning will vary according to the composition and thickness of the surface to which it will be attached.
- Select the appropriate screws, hooks, cords, and other fittings after first inspecting the surface carefully to determine its thickness and composition and after consulting a professional installer if necessary.

## Using a wall for stabilization

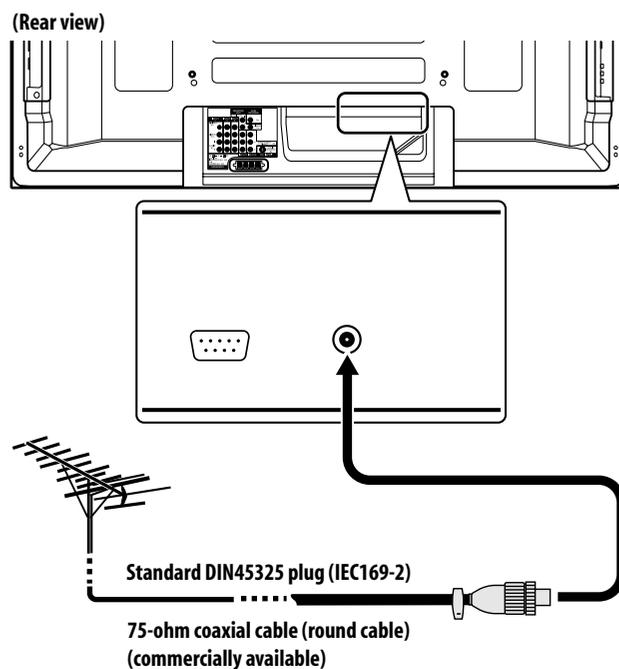
- Attach falling prevention bolts (hooks) to the plasma television.
- Use strong cords to stabilize it appropriately and firmly to a wall, pillar, or other sturdy element. Perform this work in the same way on the left and right sides. Use hooks, cords and fittings that are available on the market. Recommended hook: Nominal diameter 8 mm Length 12 mm to 18 mm.



## Basic connections

### Connecting the antenna

To enjoy a clearer picture, use an outdoor antenna. The following is a brief explanation of the types of connections that are used for a coaxial cable.



- Connect the 75-ohm coaxial cable (commercially available) to the ANT IN (antenna input) terminal.

## Preparation

05

### Antenna cable (commercially available)



If your outdoor antenna uses a 75-ohm coaxial cable with a standard DIN45325 plug (IEC169-2), plug it into the antenna terminal at the rear of the plasma television.

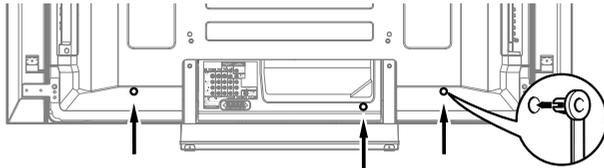
#### Note

- If the antenna is not connected correctly, the quality of reception may be impaired. If images are not displaying correctly, check whether the antenna connection is correct or not.

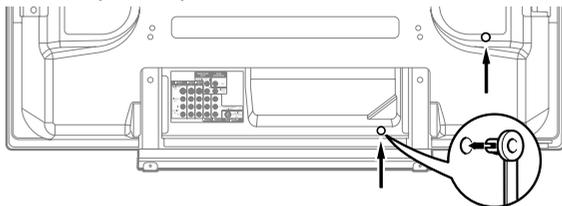
### Routing cables

Use the speed clamps as necessary to route the connecting cables. The diagrams below show the location of the holes on the rear of the display.

PDP-508XG (Rear view)

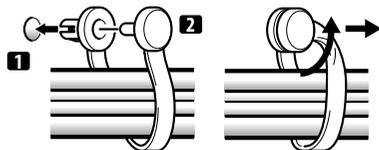


PDP-428XG (Rear view)



### Attaching and removing speed clamps

Insert [1] into an appropriate hole on the rear of the plasma television and snap [2] into the back of [1] to lock the clamp.



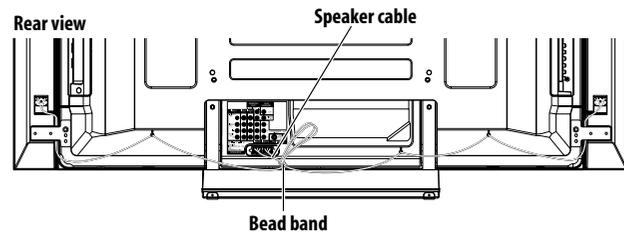
- Speed clamps are designed to be difficult to undo once in place. Please attach them carefully.
- Use pliers to twist the clamp 90°, pulling outward. The clamp may deteriorate over time and become damaged if removed.
- Be careful not to subject any connecting cables to strain.

#### Note

- Use the speed clamps as necessary.

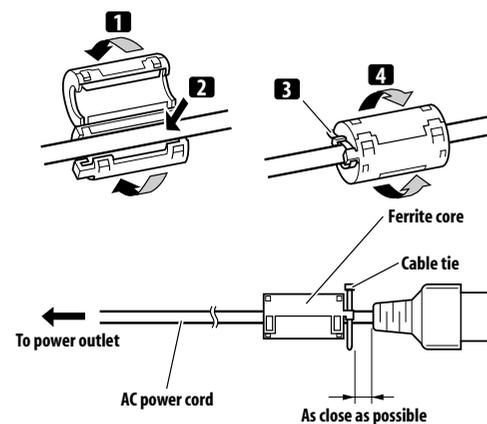
### Tidying the speaker cables (PDP-508XG only)

Use the supplied bead bands as necessary to tidy the speaker cables.

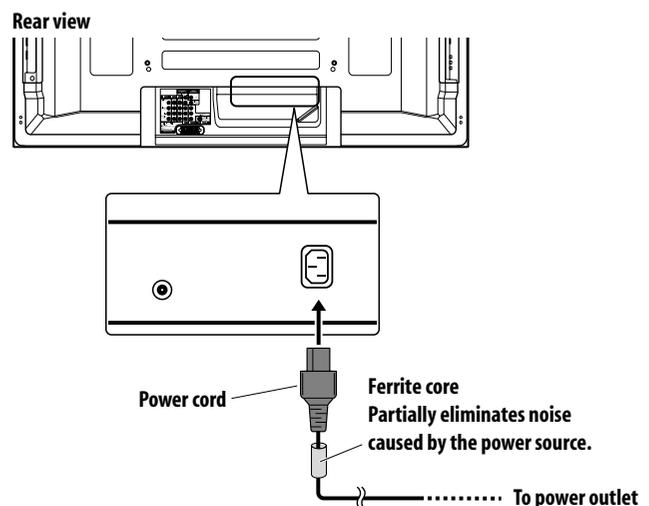


### Attaching the ferrite core (when a ferrite core is not attached)

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



### Connecting the power cord



#### Note

- Disconnect the power cord from the power outlet when the plasma television is not going to be used for a long period of time.
- After all other components are connected, connect the power plug to the AC outlet.

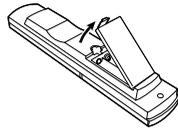
English

17  
En

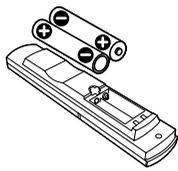
## Preparing the remote control unit

### Inserting batteries

#### 1 Open the battery cover.

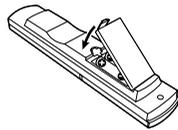


#### 2 Load the supplied two AA size batteries while inserting their respective negative polarity (-) ends first.



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

#### 3 Close the battery cover.



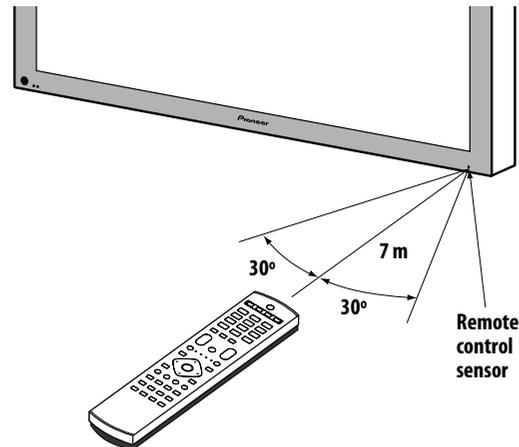
### Caution

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

- When you replace the batteries, use manganese or alkaline ones.
- Place the batteries with their terminals corresponding to the (+) and (-) indicators.
- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they have worn out. Chemicals that leak from batteries can cause a rash. If you find any chemical leakage, wipe thoroughly with a cloth.
- The batteries supplied with this product may have a shorter life expectancy due to storage conditions.
- If you will not use the remote control unit for an extended period of time, remove the batteries from it.
- **WHEN DISPOSING OF USED BATTERIES, PLEASE COMPLY WITH GOVERNMENTAL REGULATIONS OR ENVIRONMENTAL PUBLIC INSTITUTION'S RULES THAT APPLY IN YOUR COUNTRY/AREA.**

## Operating 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 television. The distance from the remote control sensor must be within 7 m and the angle relative to the sensor must be within 30 degrees in the right, left, upward, or downward direction.



### Note

- For the remote control sensor located on the PDP-428XG, see *Part names* on page 12.

### Caution

- Do not expose the remote control unit to shock. In addition, do not expose the remote control unit to liquids, and do not place in an area with high humidity.
- Do not install or place the remote control unit under direct sunlight. The heat may cause deformation of the unit.
- The remote control unit may not work properly if the remote control sensor of the plasma television is under direct sunlight or strong lighting. In such case, change the angle of the lighting or plasma television, or operate the remote control unit closer to the remote control sensor.
- When any obstacle exists between the remote control unit and the remote control sensor, the remote control unit may not function.
- As the batteries become empty, the remote control unit can function within a shorter distance from the remote control sensor. Replace the batteries with new ones early enough.
- The plasma television 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 television.
- Depending on the installation environment, infrared rays from the plasma television 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.

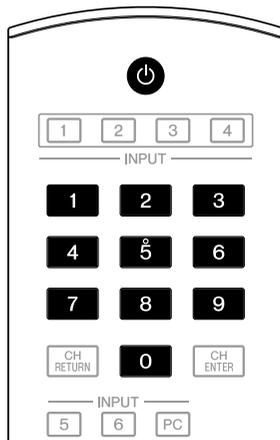
## Chapter 6 Watching TV

### Important

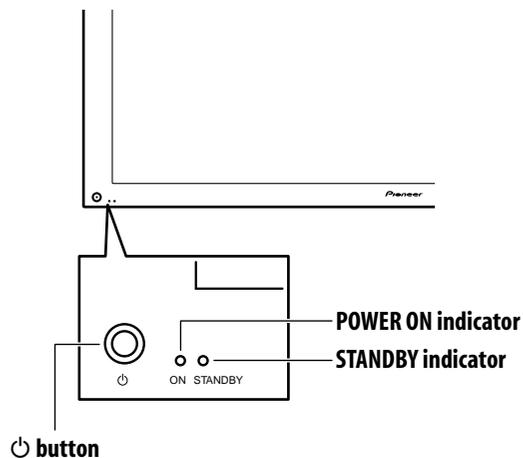
- Before watching broadcast channels, the built-in TV tuner must be set up. See *Setting up TV channels automatically* on page 25 for how to do this.

### Turning the power on

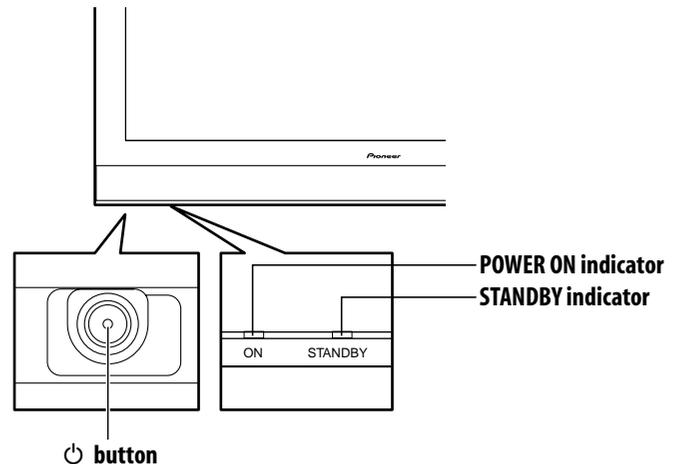
- Press  on the plasma television when the **POWER ON** and **STANDBY** indicators are off.
  - The system is on.
  - The POWER ON indicator lights up blue.
- Press  or **0** to **9** on the remote control unit or **STANDBY/ON** on the plasma television if the **STANDBY** indicator lights red.
  - The POWER ON indicator lights up blue.
  - If you press **0** on the remote control unit, images from "INPUT 1" will be displayed.
  - If you press **1** to **9**, TV images will be displayed.



PDP-508XG



PDP-428XG



### Placing the system into standby

Press  on the remote control unit or **STANDBY/ON** on the plasma television.

- The STANDBY indicator lights up red.
- The system enters the standby mode and the image on the screen disappears.

### Note

- When  on the plasma television is off, you cannot turn the power on by pressing  or **0** to **9** on the remote control unit or **STANDBY/ON** on the plasma television.
- If you are not going to use the plasma television for a long period of time, be sure to remove the power cord from the power outlet.

### Plasma television status indicators

The table below shows the operational status of the plasma television. You can check the current status of the system with the indicators on the plasma television.

Indicator status		System status
POWER ON	STANDBY	
●	●	The power cord of the plasma television has been disconnected. Or, the power cord of the plasma television has been connected but the  button of the plasma television is off.
☀	●	Power to the system is on.
●	☀	The system is in the standby mode.

For other than the above, see *Troubleshooting* on page 63.

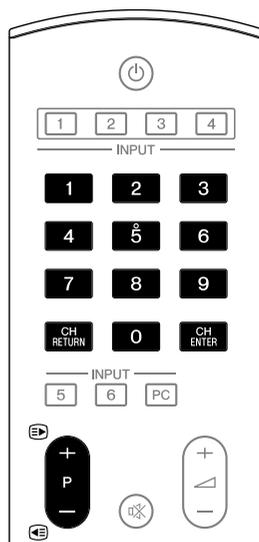
**Note**

- You can select "Auto", "High", "Mid" or "Low" for the brightness of the POWER ON indicator. When "Auto" is selected, the brightness of the indicator changes to "High", "Mid" or "Low" to match the brightness level of the viewing area. For details, see *Blue LED Dimmer* on page 39.

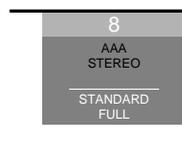
## Changing channels

Use the remote control or the control panel on the right-hand side of the plasma television to change channels.

- Before operating with the remote control unit, make sure to select the TV mode using its **SELECT** button. See *Controlling other equipment using the supplied remote control unit* on page 50.



Channel display



### Using P+ / P- on the remote control unit

- Press **P+** to increase the channel number.
- Press **P-** to decrease the channel number.

**Note**

- CHANNEL +/-** on the plasma television operates the same as **P+ / P-**.
- Press **CH RETURN** to switch back to the previous channel. Press again to return to the current channel.
- P+ / P-** cannot pick up channels that are set to skip. For Channel Skip, see steps 13 and 14 under *Setting up TV channels manually* on page 25.

### Using 0 to 9 on the remote control unit

- Select channels directly by pressing buttons **0** to **9**.

For example:

Press **2** to select channel 2 (one-digit channel).

Press **1** then **2** to select channel 12 (two-digit channel).

Press **1**, **2** then **3** to select channel 123 (three-digit channel).

When viewing Teletext information:

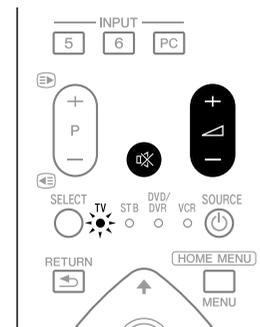
- View a page directly which is three-digit page number from 100 to 899 by pressing buttons **0** to **9**. See also *Operating the Teletext basics* on page 61.

**Note**

- Press **CH RETURN** to switch back to the previous channel. Press again to return to the current channel.
- After entering a channel number you can press **CH ENTER** to tune in the channel more quickly.
- In standby, when you press **0**, the power turns on and images come from the "INPUT 1" source. Or, when you press any button from **1** to **9**, TV images display.

## Changing the volume and sound

Use the remote control or the control panel on the right-hand side of the plasma television to adjust the volume.



### Using $\triangle + / \triangle -$ on the remote control unit

- Press  $\triangle +$  to increase the volume.
- Press  $\triangle -$  to decrease the volume.

Volume adjustment



- VOLUME +/-** on the plasma television operates the same as  $\triangle + / \triangle -$ .

### Using $\times$ on the remote control unit

- Press  $\times$  to mute the sound.
- $\times$  appears on the screen.

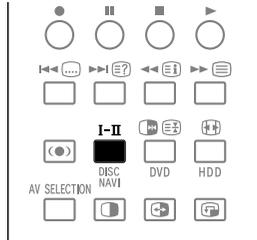
Muting



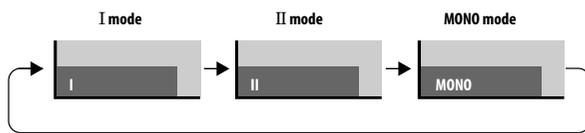
- Press  $\times$  again or  $\triangle +$  to restore the sound.

### Switching the broadcast audio channel

Depending on the broadcast, you can switch the audio channel.



- Press I-II to change the audio channel.



The table below shows the available audio channels by broadcast audio type.

	Setting		
	I	II	MONO
NICAM Broadcasts	<b>Stereo</b> 1 AAA NICAM STEREO	1 AAA NICAM STEREO	1 AAA MONO
	<b>Bilingual</b> 2 BBB NICAM I	2 BBB NICAM II	2 BBB MONO
	<b>Monaural</b> 3 CCC NICAM MONO	3 CCC NICAM MONO	3 CCC MONO
A2 Broadcasts	<b>Stereo</b> 4 DDD STEREO	4 DDD STEREO	4 DDD MONO
	<b>Bilingual</b> 5 EEE DUAL I	5 EEE DUAL II	5 EEE MONO
	<b>Monaural</b> 6 FFF MONO	6 FFF MONO	6 FFF MONO
BTSC Broadcasts	<b>Stereo</b> 4 GGG STEREO	4 GGG STEREO	4 GGG MONO
	<b>MAIN+SAP</b> 5 HHH MONO(SAP)	5 HHH SAP(MAIN)	5 HHH MONO
	<b>Stereo+SAP</b> 5 JJJ STEREO(SAP)	5 JJJ SAP(STEREO)	5 JJJ MONO
	<b>Monaural</b> 6 KKK MONO	6 KKK MAIN	6 KKK MONO

**Note**

- In each of the sound multiplex mode selected using the I-II button, the display changes depending on broadcasting signals being received.
- Once the MONO mode is selected, the plasma television sound remains mono even if the system receives a stereo broadcast. You must switch the mode back to I or II mode if you want to hear stereo sound again.

- Selecting a sound multiplex mode while the input source is "INPUT 1" to "INPUT 6" or "PC" does not change the type of sound. In this case, sound is determined by the video source.
- While watching a TV channel with any High Deviation setting (page 26), you cannot change the sound multiplex mode.

### Using the multiscreen functions

- Before operating with the remote control unit, make sure to select the TV mode using its **SELECT** button. See *Controlling other equipment using the supplied remote control unit* on page 50.

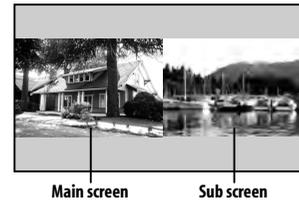
### Splitting the screen

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

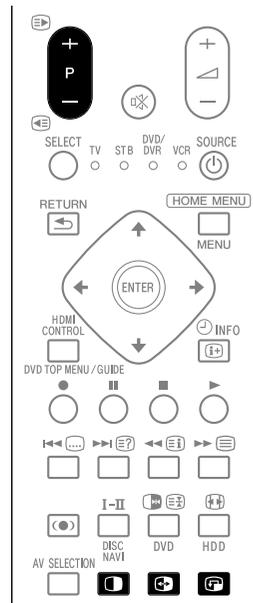
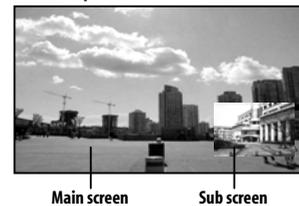
**Note**

- Displaying a split screen for a long period of time, or for shorter periods of time everyday, may result in image retention.

2-screen



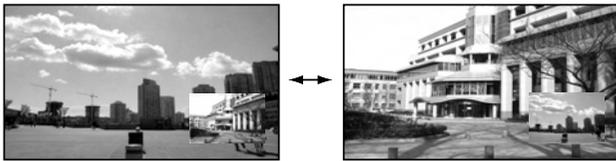
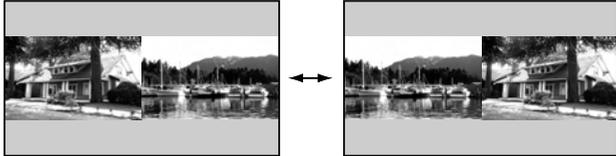
Picture-in-picture



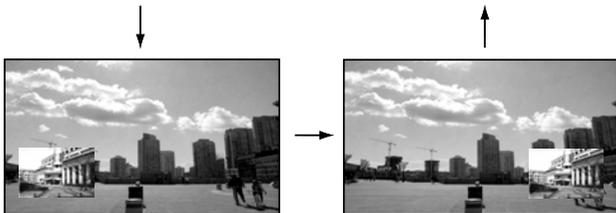
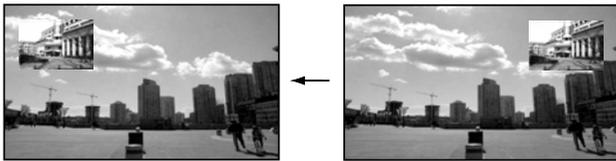
### 1 Press to select the display mode.

Each time you press , the display mode is switched between 2-screen, picture-in-picture, and single-screen modes.

- In 2-screen or picture-in-picture mode, press  to switch the position of the two screens shown.
- The left screen (in the 2-screen mode) or the larger screen (in the picture-in-picture mode) is the active screen, indicated by a "▶" icon. You can use any of the normal functions to change the picture and sound.



- In picture-in-picture mode, press  to move the position of the small screen anti-clockwise.



### 2 To select the desired input source, press the appropriate input source button.

- If watching TV programs, press **P+/P-** 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.
- The multiscreen function cannot display images from combinations of two external input sources ("INPUT 1" to "INPUT 6", "PC"). It can display images from the following combinations of inputs sources: built-in TV tuner and one external source ("INPUT 1" to "INPUT 6", "PC").
- When you press **HOME MENU**, the single-screen mode is restored and the corresponding menu is displayed.
- When in the 2-screen mode, images displayed on the right screen may look less fine, depending on images.

- With headphones connected, you can listen to audio coming from the sub screen when in the 2-screen or picture-in-picture mode. For more information, see *Listening to audio from the sub screen using headphones* on page 33.

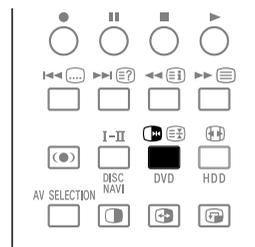
## Freezing images

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

- Before operating with the remote control unit, make sure to select the TV mode using its **SELECT** button. See *Controlling other equipment using the supplied remote control unit* on page 50.

#### Important

- Displaying a static image for a long period of time, or for shorter periods of time everyday, may result in image retention.



- Press .

A still image appears on the right screen while a moving image is shown on the left screen.



Normal image

Still image

- Press  again to cancel the function.

#### Note

- You cannot freeze the picture when using the 2-screen or picture-in-picture mode.
- When this function is not available, a warning message appears.

## Chapter 7

# The HOME MENU

### HOME MENU overview

#### For AV source

HOME MENU	Item	Page
Picture	AV Selection	28
	Contrast	28
	Brightness	28
	Color	28
	Tint	28
	Sharpness	28
	Pro Adjust	29
	Reset	28
	Sound	Treble
Bass		33
Balance		33
Reset		33
Sound Effect		33
Headphone Output		33
Sub Volume		33
Power Control		Energy Save
	No Signal off	34
	No Operation off	34
Sleep Timer	–	40
Option	Position	36
	Auto Size	38
	Side Mask	39
	HDMI Input	45
	HDMI Control Setting	59
	Blue LED Dimmer	39
	Orbiter	39
	Video Pattern	40
	Drive Mode	36
	Color System	37
	Monitor Out	44
	Game Control Pref	37
	Room Light Sensor	39

HOME MENU	Item	Page
Setup	Auto Installation	25
	Analog TV Setup	25
	Password	40
	Language	27
Home Gallery	–	49
HDMI Control	–	56

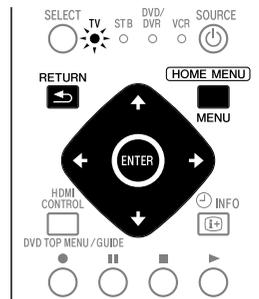
#### For PC source

HOME MENU	Item	Page
Picture	AV Selection	28
	Contrast	28
	Brightness	28
	Red	28
	Green	28
	Blue	28
	Reset	28
Sound	Same as AV source menu	33
Power Control	Energy Save	34
	Power Management	35
Sleep Timer	–	40
Option	Auto Setup	36
	Manual Setup	37
	HDMI Input	45
	HDMI Control Setting	59
Home Gallery	–	49
HDMI Control	–	56

## 07 The HOME MENU

### Using the HOME MENU

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



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

#### Note

- You can return to the upper menu levels by pressing **RETURN**.
- Before operating with the remote control unit, make sure to select the TV mode using its **SELECT** button. See *Controlling other equipment using the supplied remote control unit* on page 50.

## Chapter 8 Setting up

### Setting up TV channels automatically

This section describes how to automatically search for and set up TV channels.

#### Using Auto Installation

When the plasma television is switched on for the first time after purchase, the initial auto installation is initiated. You can set language, region and channels in successive operations.

- 1 Select "Language" (↑/↓).
- 2 Select a language (←/→).



You can select from among five languages; English, Spanish, Portuguese, traditional Chinese and simplified Chinese.

- 3 Select "Region" (↑/↓).
- 4 Select your region (←/→).  
Select the country or region in which you live. If it is not listed, select "Other regions".
- 5 Select "Channel Allocation" (↑/↓).
- 6 Select "General", "Air (US Type)" or "Cable (US Type)" (←/→).

The table on page 65 (*Standard channel allocation selections for countries and regions*) shows which option you should usually select in your country or region.

Item	Description
General	Scans to locate your regional broadcasting frequencies. The earlier the frequencies identified, the smaller the channel numbers used.
Air (US Type)	Searches for the same broadcasting frequencies as for receiving over air in the U.S. This selection is effective when the system is receiving over air.
Cable (US Type)	Searches for the same broadcasting frequencies as for watching cable TV in the U.S. This selection is effective when the system is receiving from a cable TV company.

- 7 Select "Start" (↑/↓ then ENTER).  
Auto Installation automatically starts.
  - To quit Auto Installation in progress, press RETURN.

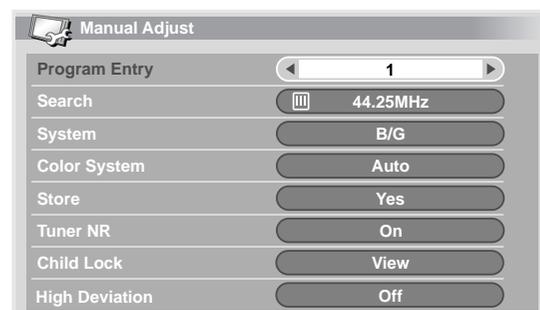
#### Note

- You can start Auto Installation from the HOME MENU after moving to another country, for example. Perform the following steps before starting Auto Installation: Press HOME MENU, select "Setup" (↑/↓ then ENTER), then "Auto Installation" (↑/↓ then ENTER). The password entry screen appears. Enter your four-digit password using buttons 0 to 9. For the password, see *Using a password* on page 40.
- If no channels are found, check the antenna connections, and then retry Auto Installation.

### Setting up TV channels manually

Use the Manual Adjust function to set up TV channels manually. Steps 5 to 14 differ depending on your selection for Channel Allocation.

- 1 Press HOME MENU.
- 2 Select "Setup" (↑/↓ then ENTER).
- 3 Select "Analog TV Setup" (↑/↓ then ENTER).  
The password entry screen appears. Enter your four-digit password using buttons 0 to 9. For the password, see *Using a password* on page 40.
- 4 Select "Manual Adjust" (↑/↓ then ENTER).
- 5 Select "Program Entry" (↑/↓).
- 6 Select a program number (←/→).
  - With "General" selected, you can select 1 through 99.
  - With "Air (US Type)" selected, you can select 2 through 69.
  - With "Cable (US Type)" selected, you can select 1 through 125.



- 7 Select "Search" (↑/↓).
- 8 Enter a frequency using buttons 0 to 9, then ENTER.  
You can also press ←/→ to enter a frequency.
  - With "Air (US Type)" or "Cable (US Type)" selected, you cannot change the display frequency.
- 9 Select "System" (↑/↓).
- 10 Select a sound system (←/→).  
You can select from among "B/G", "D/K", "I" and "M/N".
  - With "Air (US Type)" or "Cable (US Type)" selected, you cannot change the factory default ("M/N").

## Setting up

### 11 Select "Color System" (↑/↓).

### 12 Select a color system (←/→).

You can select from "Auto", "PAL", "NTSC", "SECAM", "PAL-M", "PAL-N", and "4.43NTSC".

- With "Air (US Type)" or "Cable (US Type)" selected, you cannot change the factory default ("Auto").

### 13 Select "Store" (↑/↓).

### 14 Select "Yes" (←/→).

- With "Air (US Type)" or "Cable (US Type)" selected, press ↑/↓ to select "ADD/DEL", then press ←/→ to select "ADD".
- With "Yes" selected, you can select the channel using P+/P-. With "No" selected, you cannot select the channel using P+/P-.

### 15 Press HOME MENU to exit the menu.

- Alternatively, to set up for another channel, repeat steps 5 to 14.

#### Note

- Manual Adjust also allows you to make selections for "Tuner NR", "Child Lock", and "High Deviation". See *Reducing video noise*, *Setting Child Lock*, and *Suppressing audio distortion* respectively.
- This plasma television is equipped with the auto frequency tuning function that automatically adjusts tuning frequencies according to received signals. For this reason, the Manual Adjust menu may show slightly different frequencies from your entry when you access the menu next time. You cannot deactivate the Auto Frequency Tuning function.

## Reducing video noise

For the individual channels, you can specify whether the plasma television should reduce video noise depending on the levels of broadcasting signals.

### 1 Press HOME MENU.

### 2 Select "Setup" (↑/↓ then ENTER).

### 3 Select "Analog TV Setup" (↑/↓ then ENTER).

The password entry screen appears. Enter your four-digit password using buttons 0 to 9. For the password, see *Using a password* on page 40.

### 4 Select "Manual Adjust" (↑/↓ then ENTER).

### 5 Select "Program Entry" (↑/↓).

### 6 Select a program number (←/→).

- With "General" selected, you can select 1 through 99.
- With "Air (US Type)" selected, you can select 2 through 69.
- With "Cable (US Type)" selected, you can select 1 through 125.

### 7 Select "Tuner NR" (↑/↓).

### 8 Select "On" (←/→).

### 9 Press HOME MENU to exit the menu.

#### Note

- This function may not achieve a satisfactory result, depending on the conditions of broadcasting signals.
- The factory default is "On".

## Setting Child Lock

Child Lock inhibits selected TV channels from being tuned and watched.

### 1 Repeat steps 1 to 6 provided for *Reducing video noise*.

After selecting a program number (using Program Entry), perform the following steps:

### 2 Select "Child Lock" (↑/↓).

### 3 Select "Block" (←/→).

- The selection is switched between "View" (factory default) and "Block".

### 4 Press HOME MENU to exit the menu.

## Suppressing audio distortion

You can suppress audio distortion that may be induced when too strong audio signals are received in the selected channel.

#### Note

- High Deviation is selectable only when you have selected "D/K" for "System" under *Setting up TV channels manually* on page 25.

### 1 Repeat steps 1 to 6 provided for *Reducing video noise*.

After selecting a program number, perform the following steps:

### 2 Select "High Deviation" (↑/↓).

### 3 Select "High", "Mid" or "Low" (←/→).

Item	Description
Off	Deactivates the function
High	Suppresses audio distortion slightly; however, the audio volume is slightly lowered than when Off is selected
Mid	Suppresses audio distortion moderately
Low	Suppresses audio distortion further; however, the audio volume is further lowered

With "Air (US Type)" or "Cable (US Type)" selected, you cannot change the factory default ("Off").

### 4 Press HOME MENU to exit the menu.

#### Note

- While watching a TV channel with any High Deviation setting, you cannot change the sound multiplex mode.

## Setting up

08

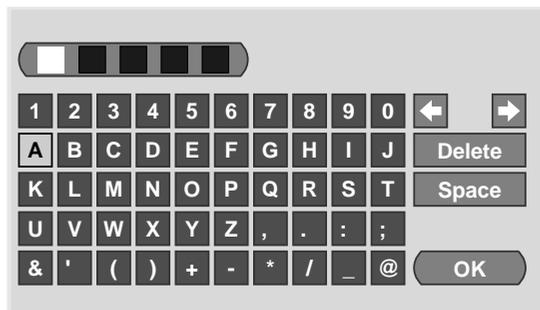
### Labeling TV channels

You can name TV channels that you have set up, using up to five characters. This may help you easily identify the channels during selections.

- 1 Press **HOME MENU**.
- 2 Select **"Setup"** (↑/↓ then **ENTER**).
- 3 Select **"Analog TV Setup"** (↑/↓ then **ENTER**).  
Enter your four-digit password using buttons **0** to **9** when prompted.
- 4 Select **"Label"** (↑/↓ then **ENTER**).
- 5 Select **"Program Entry"** (↑/↓).
- 6 Select a program number (←/→).
  - With "General" selected, you can select 1 through 99.
  - With "Air (US Type)" selected, you can select 2 through 69.
  - With "Cable (US Type)" selected, you can select 1 through 125.



- 7 Select **"Label"** (↑/↓ then **ENTER**).  
The name entry screen appears.
- 8 Select the first character (↑/↓/←/→, then **ENTER**).

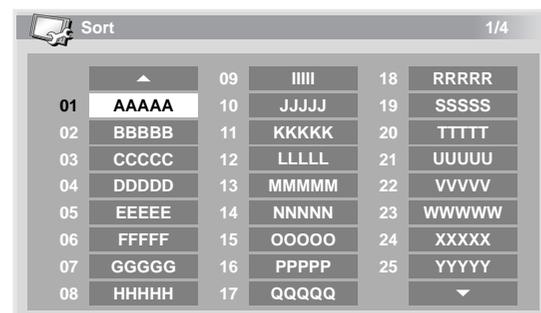


- The cursor moves to the second character.
- 9 Repeat step 8 to enter up to five characters.
    - To correct entered characters, select [←] or [→] on the screen, and then press **ENTER**. The cursor moves to the preceding or subsequent character.
    - To delete the current character, select [Delete] on the screen, and then press **ENTER**.
    - To put a space for the current character, select [Space] on the screen, and then press **ENTER**.
  - 10 To complete the name entry, press ↑/↓ or ←/→ to select [OK] on the screen, and then press **ENTER**.
  - 11 Press **HOME MENU** to exit the menu.

### Sorting preset TV channels

After performing a "General" channel search, you can use the following procedure to change the sequence of the preset TV programs. (Sorting preset TV channels is not possible if you used "Air (US Type)" or "Cable (US Type)" for your channel search.)

- 1 Press **HOME MENU**.
- 2 Select **"Setup"** (↑/↓ then **ENTER**).
- 3 Select **"Analog TV Setup"** (↑/↓ then **ENTER**).  
Enter your four-digit password using buttons **0** to **9** when prompted.
- 4 Select **"Sort"** (↑/↓ then **ENTER**).  
The sort screen appears.



- 5 Select a channel to be shifted (↑/↓/←/→ then **ENTER**).
- 6 Select a new location (↑/↓/←/→ then **ENTER**).  
Sorting is executed.
- 7 Press **HOME MENU** to exit the menu.

#### Note

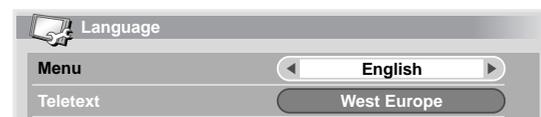
- To change a page on the Sort screen in step 6, select ▲/▼ on the screen with ↑/↓ to select a page, and then press **ENTER**.

### Language setting

You can select the language to be used for on-screen display such as menus and instructions, from among five languages; English, Spanish, Portuguese, traditional Chinese and simplified Chinese.

For the language to be used in the Teletext mode, you can select from among West Europe, East Europe, Greece/Turkey, Russia, and Arabia.

- 1 Press **HOME MENU**.
- 2 Select **"Setup"** (↑/↓ then **ENTER**).
- 3 Select **"Language"** (↑/↓ then **ENTER**).
- 4 Select **"Menu"** (↑/↓).
- 5 Select a language (←/→).



- 6 Select **"Teletext"** (↑/↓).
- 7 Select a language (←/→).
- 8 Press **HOME MENU** to exit the menu.

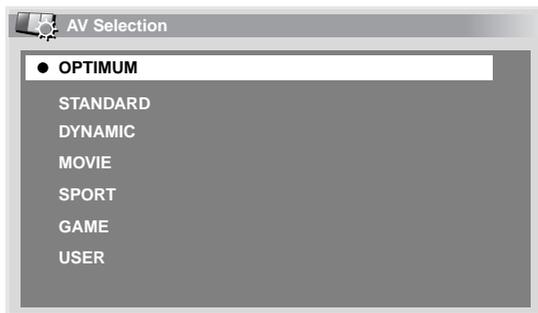
English

27  
En

## AV Selection

Select from the seven viewing options, depending on the current environment (e.g., room brightness), the type of the current TV program, or the type of images input from external equipment.

- 1 Press **HOME MENU**.
- 2 Select **"Picture"** (↑/↓ then **ENTER**).
- 3 Select **"AV Selection"** (↑/↓ then **ENTER**).
- 4 Select the desired option (↑/↓ then **ENTER**).



### For AV source

Item	Description
<b>OPTIMUM</b>	Automatically adjusts the brightness of the image to the optimum level in accordance with the brightness level of the viewing area. This setting is shared by both the external and TV input sources.
<b>STANDARD</b>	For a highly defined image in a normally bright room. This setting is shared by both the external and TV input sources.
<b>DYNAMIC</b>	Sharp imaging with the maximum contrast. Note that this mode does not allow manual image quality adjustment. This setting is shared by both the external and TV input sources.
<b>MOVIE</b>	Optimized for movies. This setting is shared by both the external and TV input sources.
<b>SPORT</b>	Optimized for sports programs. This setting is shared by both the external and TV input sources.
<b>GAME</b>	Lowers image brightness for easier viewing. This setting is shared by both the external and TV input sources.
<b>USER</b>	Allows the user to customize settings as desired. You can set the mode for each input source.

### For PC source

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

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

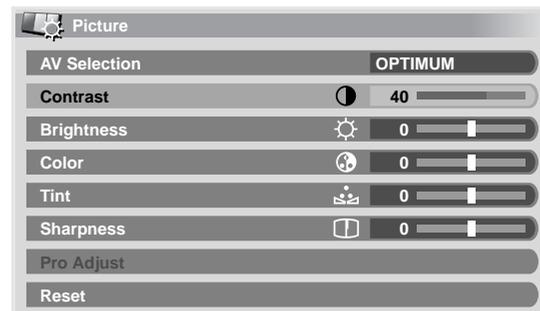
### Note

- You can also press **AV SELECTION** on the remote control to change the viewing option.
- If you have selected "DYNAMIC", you cannot select "Contrast", "Brightness", "Color", "Tint", "Sharpness", "Pro Adjust", and "Reset"; these menu items are dimmed.
- If you have selected "OPTIMUM", you cannot select "Pro Adjust"; menu items in "Pro Adjust" are dimmed.
- As "OPTIMUM" automatically optimizes image quality, the process in which image settings such as brightness and tint gradually change may be seen on the screen. This is not a malfunction.
- When "OPTIMUM" is selected, images are reproduced based on the information collected at the Room Light Sensor as well, regardless of its setting ("On" or "Off") for the "Option" menu.

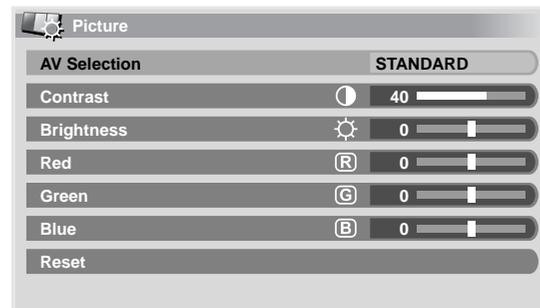
## Basic picture adjustments

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

- 1 Press **HOME MENU**.
- 2 Select **"Picture"** (↑/↓ then **ENTER**).
- 3 Select an item to be adjusted (↑/↓ then **ENTER**).



For a PC source or when the Home Gallery function is on, the following screen appears:



- 4 Select the desired level (←/→).



When an adjustment screen is in display, you can also change the item to be adjusted, by pressing ↑/↓.

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

## Setting up

08

English

### For AV source

Item	← button	→ button
Contrast	For less contrast	For more contrast
Brightness	For less brightness	For more brightness
Color	For less color intensity	For more color intensity
Tint	Skin tones become purplish	Skin tones become greenish
Sharpness	For less sharpness	For more sharpness

### For PC source

Item	← button	→ button
Contrast	For less contrast	For more contrast
Brightness	For less brightness	For more brightness
Red	For weaker red	For stronger red
Green	For weaker green	For stronger green
Blue	For weaker blue	For stronger blue

#### Note

- To perform advanced picture adjustments, select "Pro Adjust" in step 3 and then press **ENTER**. For the subsequent procedures see *Advanced picture adjustments*.
- To restore the factory defaults for all items, press **↑/↓** to select "Reset" in step 3, and then press **ENTER**. A confirmation screen appears. Press **←/→** to select "Yes", and then press **ENTER**.
- You may experience a sudden change in the image position and screen brightness when you open the "Picture" menu.

## Advanced picture adjustments

The plasma television provides various advanced functions for optimizing the picture quality. For details on these functions, see the tables.

### Using PureCinema

- Press **HOME MENU**.
- Select **"Picture"** (**↑/↓** then **ENTER**).
- Select **"Pro Adjust"** (**↑/↓** then **ENTER**).
- Select **"PureCinema"** (**↑/↓** then **ENTER**).
- Select **"Film Mode"** or **"Text Optimization"** (**↑/↓** then **ENTER**).
- Select the desired parameter (**↑/↓** then **ENTER**).  
For the selectable parameters, see the table.

### 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

Film Mode	Off	Deactivates the PureCinema
Standard		Produces smooth and vivid moving images (film specific) by automatically detecting recorded image information when displaying DVD or high-definition images (e.g., movies) having 24 frames per second
Smooth		Produces smoother and more vivid moving images
Advance		Produces smooth and quality moving images (as shown on theatre screens) by converting to 72 Hz when displaying DVD images (e.g., movies) having 24 frames per second
Text Optimization	Off	Deactivates Text Optimization
	On	Activates Text Optimization

### 7 Press HOME MENU to exit the menu.

#### Note

- "Standard" is not selectable for the following input signals: 480p, 576p, 720p@50 Hz, 720p@60 Hz, 1080p@50 Hz, 1080p@60 Hz.
- "Advance" is not selectable for the following input signals: PAL, SECAM, 576i, 576p, 720p@50 Hz, 1080i@50 Hz, 1080p@50 Hz/60 Hz.
- "Smooth" is not selectable for the following input signals: 1080p@50 Hz, 1080p@60 Hz.
- When you select "On" for "Game Control Pref" on the "Option" menu, the "PureCinema" setting is disabled.

### Using Intelligent Mode

- Press **HOME MENU**.
- Select **"Picture"** (**↑/↓** then **ENTER**).
- Select **"Pro Adjust"** (**↑/↓** then **ENTER**).
- Select **"Intelligent Mode"** (**↑/↓** then **ENTER**).
- Select the desired parameter (**↑/↓** then **ENTER**).

### Intelligent Mode

Performs such compensation that results in the optimum color tones and brightness for images

Selections	Off	Deactivates Intelligent Mode
	On	Activates Intelligent Mode

### 6 Press HOME MENU to exit the menu.

#### Note

- As this function automatically optimizes image quality, the process in which image settings such as brightness and tint gradually change may be seen on the screen. This is not a malfunction.

29  
En

### Using the Picture Detail

- 1 Press HOME MENU.
- 2 Select "Picture" (↑/↓ then ENTER).
- 3 Select "Pro Adjust" (↑/↓ then ENTER).
- 4 Select "Picture Detail" (↑/↓ then ENTER).
- 5 Select an item to be adjusted (↑/↓ then ENTER).
  - You can select "DRE Picture", "Black Level", "ACL", "Enhancer Mode" or "Gamma".
- 6 Select the desired parameter (↑/↓ then ENTER).

#### DRE Picture

Emphasizes the contrast on images so that the difference between brightness and darkness becomes more distinct

Selections	Off	Deactivates DRE Picture
	High	Enhanced DRE Picture
	Mid	Standard DRE Picture
	Low	Moderate DRE Picture

#### Black Level

Emphasizes dark portion on images so that the difference between brightness and darkness becomes more distinct

Selections	Off	Deactivates Black Level
	On	Activates Black Level

#### ACL

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

Selections	Off	Deactivates ACL
	On	Activates ACL

#### Enhancer Mode

Selects processing of the image's high frequency (detailed) areas

Selections	1	Selects Hard (SHARPNESS) image
	2	Selects Natural (SHARPNESS) image
	3	Selects Soft (SHARPNESS) image

#### Gamma

Adjusts the gamma characteristics (image gradation characteristics)

Selections	1	Selects gamma characteristics 1
	2	Selects gamma characteristics 2
	3	Selects gamma characteristics 3

- 7 Press HOME MENU to exit the menu.

### Using Color Temp

- 1 Press HOME MENU.
- 2 Select "Picture" (↑/↓ then ENTER).
- 3 Select "Pro Adjust" (↑/↓ then ENTER).
- 4 Select "Color Detail" (↑/↓ then ENTER).
- 5 Select "Color Temp" (↑/↓ then ENTER).
- 6 Select the desired parameter (↑/↓ then ENTER).

#### Color Temp

Adjusts the color temperature, resulting in a better white balance

Selections	High	White with bluish tone
	Mid-High	Intermediate tone between High and Mid
	Mid	Natural tone
	Mid-Low	Intermediate tone between Mid and Low
	Low	White with reddish tone
	Manual	Color temperature adjusted to your preference

- You may rather want to perform fine adjustment. To do this, select "Manual" first and then press and hold **ENTER** for more than three seconds. The manual adjustment screen appears. Then go to step 7.

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

Item		← button	→ button
<b>R High</b>	Fine adjustment for bright portions	For weaker red	For stronger red
<b>G High</b>		For weaker green	For stronger green
<b>B High</b>		For weaker blue	For stronger blue
<b>R Low</b>	Fine adjustment for dark portions	For weaker red	For stronger red
<b>G Low</b>		For weaker green	For stronger green
<b>B Low</b>		For weaker blue	For stronger blue

- To perform adjustment for another item, press **RETURN**, and then repeat steps 7 and 8.
- You may press ↑/↓ to immediately change an item to be adjusted.

- 9 Press HOME MENU to exit the menu.

## Setting up

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English

### Using CTI and Color Space

- 1 Press HOME MENU.
- 2 Select "Picture" (↑/↓ then ENTER).
- 3 Select "Pro Adjust" (↑/↓ then ENTER).
- 4 Select "Color Detail" (↑/↓ then ENTER).
- 5 Select "CTI" or "Color Space" (↑/↓ then ENTER).
- 6 Select the desired parameter (↑/↓ then ENTER).

#### CTI

Provides images with clearer color contours. CTI stands for Color Transient Improvement.

Selections	Off	Deactivates CTI
	On	Activates CTI

#### Color Space

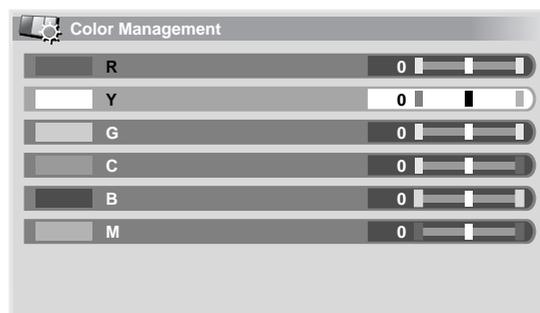
Changes the color reproduction space

Selections	1	Optimized for vivid, vibrant color reproduction
	2	Standard color reproduction

- 7 Press HOME MENU to exit the menu.

### Using Color Management

- 1 Press HOME MENU.
- 2 Select "Picture" (↑/↓ then ENTER).
- 3 Select "Pro Adjust" (↑/↓ then ENTER).
- 4 Select "Color Detail" (↑/↓ then ENTER).
- 5 Select "Color Management" (↑/↓ then ENTER).
- 6 Select an item to be adjusted (↑/↓ then ENTER).



- 7 Select the desired level (←/→).

Item	← button	→ button
R	Closer to magenta	Closer to yellow
Y	Closer to red	Closer to green
G	Closer to yellow	Closer to cyan
C	Closer to green	Closer to blue
B	Closer to cyan	Closer to magenta
M	Closer to blue	Closer to red

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

- 8 Press HOME MENU to exit the menu.

### Eliminating noise from images

- 1 Press HOME MENU.
- 2 Select "Picture" (↑/↓ then ENTER).
- 3 Select "Pro Adjust" (↑/↓ then ENTER).
- 4 Select "Noise Reduction" (↑/↓ then ENTER).
- 5 Select an item to be adjusted (↑/↓ then ENTER).  
You can select "3DNR", "Field NR", "Block NR" or "Mosquito NR".
- 6 Select the desired parameter (↑/↓ then ENTER).

#### 3DNR

Eliminates video noise for clean crisp images. 3DNR stands for 3-dimensional Noise Reduction.

Selections	Off	Deactivates 3DNR
	High	Enhanced 3DNR
	Mid	Standard 3DNR
	Low	Moderate 3DNR

#### Field NR

Removes glimmer for more natural images

Selections	Off	Deactivates Field NR
	High	Enhanced Field NR
	Mid	Standard Field NR
	Low	Moderate Field NR

#### Block NR

Helps reduce noise appearing in high-definition images

Selections	Off	Deactivates Block NR
	On	Activates Block NR

**Mosquito NR**

Reduces mosquito noise in DVD and high-definition images, resulting in noise-free images

Selections	Off	Deactivates Mosquito NR
	On	Activates Mosquito NR

**7 Press HOME MENU to exit the menu.****Using the 3DYC and I-P Mode**

- 1 Press HOME MENU.
- 2 Select "Picture" (↑/↓ then ENTER).
- 3 Select "Pro Adjust" (↑/↓ then ENTER).
- 4 Select "Others" (↑/↓ then ENTER).
- 5 Select "3DYC" or "I-P Mode" (↑/↓ then ENTER).
- 6 Select the desired parameter (↑/↓ then ENTER).

**3DYC**

Optimizes characteristics for separating brightness signals and color signals. This works for both video and still images.

Selections	Off	Deactivates 3DYC
	High	Enhanced 3DYC
	Mid	Standard 3DYC
	Low	Moderate 3DYC

**I-P Mode**

Performs optimum conversion from interlace signals to progressive signals. This works for both video and still images.

Selections	1	Optimum for video images
	2	Standard setting
	3	Optimum for still images

**7 Press HOME MENU to exit the menu.****Note**

- The 3DYC setting is ineffective when SECAM, PAL-M, PAL-N or 4.43 NTSC signals are input.
- For the I-P Mode, the individual parameters are not selectable for the following input signals: 480p, 576p, 720p, 1080p.
- The I-P Mode setting is disabled if you use an external input source and select "On" for "Game Control Pref" on the "Option" menu.
- For the 3DYC, the individual parameters are selectable only when you have selected the analog tuner, or you have selected "INPUT 1", "INPUT 2", "INPUT 3" or "INPUT 6" as the input source and there is a video signal present.

**Comparing picture adjustments on the screen**

During picture adjustments, you can quickly refer to the image previously set in the same parameter, allowing you to easily compare and select the preferred image quality.

- 1 Press HOME MENU.
- 2 Select "Picture" (↑/↓ then ENTER).
- 3 Select an item to be adjusted (↑/↓ then ENTER).
- 4 While performing adjustment, press BLUE on the remote control unit.  
"Before" displays and the image adjusted last time appears for comparison.
- 5 Press the button again to return to the newly adjusted image.  
Each press of the button toggles between "Before" and "After".
- 6 Repeat steps 1 and 5 for other parameters.
- 7 Press HOME MENU to exit the menu.

Before

**Caution**

- If you exit the menu by pressing HOME MENU or no operation is performed for 60 seconds, all the parameter settings displayed last are stored in memory.
- If you want to exit the menu without performing the adjustments (or leaving the settings disabled) on the "After" screen, switch to "Before" and then exit.

**Note**

- You cannot adjust any item while on the "Before" screen. A warning message appears.
- When you switch to another parameter, make sure to change the display from "Before" to "After" first, otherwise you cannot select "Before". A warning message appears if you don't.
- If you exit the selection from the "Before" screen, the previous entry is stored in the memory and the button no longer works.
- If you exit the selection from the "After" screen, the new entry is stored in the memory and the button no longer works.
- If you move and change the "AV Selection" parameter, the new entry in the current parameter is stored in the memory and the button continues to work.
- You cannot compare images between different parameters on the "AV Selection" menu ("STANDARD" and "MOVIE", for example).
- When you select this function, "Intelligent Mode" for "Pro Adjust" on the "Picture" menu, "OPTIMUM" on the "AV Selection" menu and "Room Light Sensor" on the "Option" menu are all set to off and image quality returns to default settings.
- This function is not selectable:
  - when you select "AV Selection",
  - when you select "Yes" or "No" on the confirmation screen for "Reset" from the "Picture" menu or
  - when you select a menu from the PC source

## Setting up

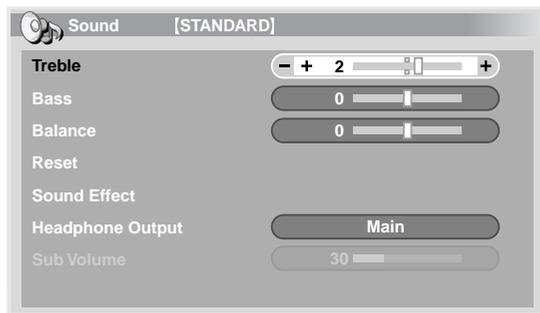
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### Sound adjustments

You can adjust the sound quality to your preference with the following settings.

Adjust the sound to your preference for the chosen AV Selection option (see *AV Selection* on page 28).

- 1 Press **HOME MENU**.
- 2 Select **"Sound"** (↑/↓ then **ENTER**).
- 3 Select an item to be adjusted (↑/↓).
- 4 Select the desired level (←/→).



Item	← button	→ button
Treble	For weaker treble	For stronger treble
Bass	For weaker bass	For stronger bass
Balance	Shifts the audio balance to the left	Shifts the audio balance to the right

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

#### Note

- You cannot adjust the sound for listening with headphones.
- If you perform sound adjustments with headphones connected, the new settings will become effective as soon as you disconnect the headphones.
- To restore the factory defaults for all items, press ↑/↓ to select "Reset" in step 3, and then press **ENTER**. A confirmation screen appears. Press ←/→ to select "Yes", and then press **ENTER**.

### Sound Effect

You can select from SRS FOCUS, SRS or SRS TruBass.

- 1 Press **HOME MENU**.
- 2 Select **"Sound"** (↑/↓ then **ENTER**).
- 3 Select **"Sound Effect"** (↑/↓ then **ENTER**).
- 4 Select **"SRS FOCUS", "SRS" or "SRS TruBass"** (↑/↓).
- 5 Select the desired parameter (←/→).

### SRS FOCUS

Selections	Off	Deactivates SRS FOCUS®
	On	Activates SRS FOCUS® Shifts the apparent direction of the sound upward for more clearly defined sound

### SRS

Selections	Off	Deactivates SRS®
	On	Activates SRS® Reproduces highly effective three-dimensional sound

### SRS TruBass

Selections	Off	Deactivates SRS TruBass®
	On	Activates SRS TruBass® Provides deep, rich bass using a new technology

- 6 Press **HOME MENU** to exit the menu.

#### Note

- (WOW) denotes a status where SRS FOCUS®, SRS® and SRS TruBass® are on.
- You can also press (Sound Effect) on the remote to change the selection.
- You cannot adjust the sound effect for listening with headphones.
- If you change the sound effect with headphones connected, the new setting will become effective as soon as you disconnect the headphones.
- The effect of this function differs depending on signals.

### Listening to audio from the sub screen using headphones

With headphones connected, you can listen to audio coming from the sub screen when in the 2-screen or picture-in-picture mode; audio coming from the main screen is output from the speakers.

- 1 Press **HOME MENU**.
- 2 Select **"Sound"** (↑/↓ then **ENTER**).
- 3 Select **"Headphone Output"** (↑/↓).
- 4 Select the desired parameter (←/→).



### Headphone Output

Selections	Main (default)	Audio coming from the main screen is output from the PHONES output terminal
	Sub	When in the 2-screen or picture-in-picture mode, audio coming from the sub screen is output from the PHONES output terminal

- 5 Select "Sub Volume" (↑/↓).
- 6 Select the desired volume level (←/→).
- 7 Press HOME MENU to exit the menu.

#### Note

- To adjust the volume for headphones after selecting "Sub", always use "Sub Volume" from the menu, whether the screen is in single, 2-picture or picture-in-picture mode. When the screen is in single mode with "Sub" selected, audio coming from the screen is output from the speakers even with headphones connected.

## Power Control

Power Control provides convenient functions for power saving.

### Energy Save

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

- 1 Press HOME MENU.
- 2 Select "Power Control" (↑/↓ then ENTER).
- 3 Select "Energy Save" (↑/↓ then ENTER).
- 4 Select "Mode 1", "Mode 2", or "Picture Off" (↑/↓ then ENTER).

#### Energy Save

Selections	Off	Does not decrease the picture brightness
	Mode 1	Slightly lowers power consumption while slightly suppressing the brightness drop level
	Mode 2	Decreases the picture brightness and lowers power consumption
	Picture Off	Deactivates the screen to save power. To restore the screen display, press any button other than  + /  -,  (Sound Effect) or  . This setting is not memorized by the system.

- 5 Press HOME MENU to exit the menu.

#### Note

- When you change the Energy Save mode, you may notice a change in the panel sound. This is normal.
- The Energy Save function can maintain efficiency of the screen for a long period of time. Setting the Energy Save function to "Mode 1" is recommended in order to maintain efficiency of the screen for a long period of time.

### No Signal off (AV source only)

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

- 1 Press HOME MENU.
- 2 Select "Power Control" (↑/↓ then ENTER).
- 3 Select "No Signal off" (↑/↓ then ENTER).
- 4 Select "Enable" (↑/↓ then ENTER).

#### No Signal off

Selections	Disable (default)	Does not place the system into the standby mode
	Enable	Places the system into the standby mode if no signal is received for 15 minutes

- 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 plasma television after a TV program finishes.

### No Operation off (AV source only)

The system will be automatically placed into the standby mode when no operation is performed for three hours.

- 1 Press HOME MENU.
- 2 Select "Power Control" (↑/↓ then ENTER).
- 3 Select "No Operation off" (↑/↓ then ENTER).
- 4 Select "Enable" (↑/↓ then ENTER).

#### No Operation off

Selections	Disable (default)	Does not place the system into the standby mode
	Enable	Places the system into the standby mode if no operation is performed for three hours

- 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 Management (PC source only)**

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

- 1 Press **HOME MENU**.
- 2 Select **"Power Control"** (↑/↓ then **ENTER**).
- 3 Select **"Power Management"** (↑/↓ then **ENTER**).
- 4 Select **"Mode 1"** or **"Mode 2"** (↑/↓ then **ENTER**).

**Power Management**

Selections	Off (default)	No power management
Mode 1		<ul style="list-style-type: none"> <li>• Places the system into the standby mode when no signal is received from the personal computer for eight minutes.</li> <li>• Even when you start using the computer and a signal is received again, the system stays off.</li> <li>• The system is switched on again by pressing <b>STANDBY/ON</b> on the plasma television or  on the remote control unit.</li> </ul>
Mode 2		<ul style="list-style-type: none"> <li>• Places the system into the standby mode when no signal is received from the personal computer for eight seconds.</li> <li>• When you start using the computer and a signal is input again, the system is switched on.</li> <li>• The system is switched on again by pressing <b>STANDBY/ON</b> on the plasma television or  on the remote control unit.</li> </ul>

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

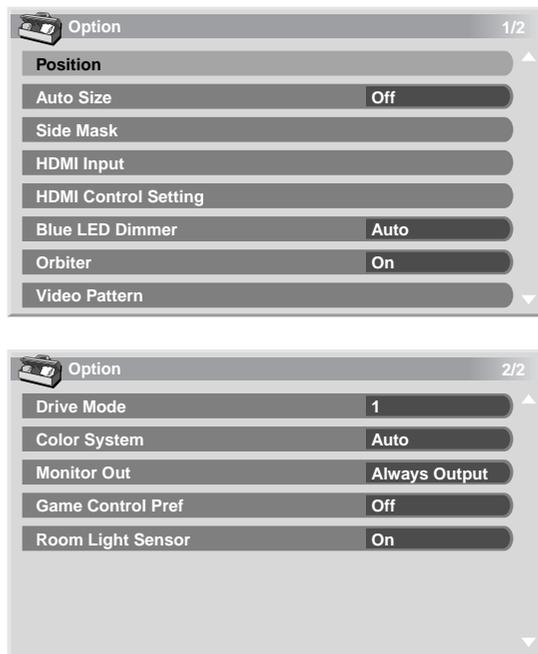
**Note**

- This function is not selectable when the PC is connected to the HDMI terminal.

## Chapter 9 Useful adjustment settings

### About "Option" menus

The "Option" menu consists of two screens. To select the desired menu, press repeatedly **↑/↓** to switch between Screen 1 and Screen 2. The current screen number appears at the top right corner on the screen.



(For AV source)

### Switching the vertical drive mode (AV source only)

You can select the desired drive mode according to the program you watch.

- 1 Press **HOME MENU**.
- 2 Select "Option" (**↑/↓** then **ENTER**).
- 3 Select "Drive Mode" (**↑/↓** then **ENTER**).
- 4 Select "1", "2" or "3" (**↑/↓** then **ENTER**).
- 5 Press **HOME MENU** to exit the menu.

#### Note

- This setting can be made for each input source separately.
- Selections are effective only for the following input signals: PAL/SECAM, 576i, 576p, 1080i@50 Hz, 720p@50 Hz.
- This setting cannot be made when 480i, 480p, 1080i@60 Hz, 720p@60 Hz, 1080p@24 Hz or 1080p@60 Hz signals are input.
- The Drive Mode does not operate when "On" is selected in "Game Control Pref".

### Adjusting image positions (AV source only)

Adjust the horizontal and vertical positions of images on the plasma television.

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

#### Note

- To restore the factory defaults for all 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.
- Depending on the displayed video, the image position may not change even after adjustment.

### Adjusting image positions and clock automatically (PC source only)

Use Auto Setup to automatically adjust the positions and clock of images coming from a personal computer.

- 1 Press **HOME MENU**.
- 2 Select "Option" (**↑/↓** then **ENTER**).
- 3 Select "Auto Setup" (**↑/↓** then **ENTER**).
- A message screen appears and 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 plasma television and switch it on before starting Auto Setup.
- This function is not selectable when the PC is connected to the HDMI terminal.
- Depending on the displayed video, the image position may not change even after adjustment.

## Useful adjustment settings

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### Adjusting image positions and clock manually (PC source 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 Select **"Option"** (↑/↓ then **ENTER**).
- 3 Select **"Manual Setup"** (↑/↓ then **ENTER**).
- 4 Select the item to be adjusted (↑/↓ then **ENTER**).
- 5 Perform adjustment (↑/↓ and ←/→).
  - With "Clock" or "Phase" selected, you can change the parameter using ←/→.
- 6 Press **HOME MENU** to exit the menu.

#### Note

- To restore the factory defaults for all items, press ↑/↓ to select "Reset" in step 4, and then press **ENTER**. A confirmation screen appears. Press ←/→ to select "Yes", and then press **ENTER**.
- This function is not selectable when the PC is connected to the HDMI terminal.
- Depending on the displayed video, the image position may not change even after adjustment.

### Color system setting

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

- 1 Press **HOME MENU**.
- 2 Select **"Option"** (↑/↓ then **ENTER**).
- 3 Select **"Color System"** (↑/↓ then **ENTER**).
- 4 Select a video signal system (↑/↓ then **ENTER**).
  - You can select "Auto", "PAL", "SECAM", "NTSC", "4.43NTSC", "PAL-M" or "PAL-N".
  - With "Auto" selected, input signals are automatically identified.
- 5 Press **HOME MENU** to exit the menu.

#### Note

- The factory default is "Auto".
- You do not need to enter any setting if "HDMI Input" has been selected.
- You need to perform color system setting for each of "INPUT 1", "INPUT 2", "INPUT 3" and "INPUT 6".
- For the color system setting, see steps 11 and 12 under *Setting up TV channels manually* on page 25.

### Selecting a game mode

When playing a game, you can use this function to establish a preference for image quality or operability.

- 1 Press **HOME MENU**.
- 2 Select **"Option"** (↑/↓ then **ENTER**).
- 3 Select **"Game Control Pref"** (↑/↓ then **ENTER**).
- 4 Select **"On"** or **"Off"** (↑/↓ then **ENTER**).

Item	Description
On	Establishes a preference for operability
Off	Establishes a preference for image quality

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

#### Note

- The "Game Control Pref" is only available when using an external input (except a PC source) and "GAME" is selected in "AV Selection".
- The "Game Control Pref" options are not effective when PC signals are received (when a PC source menu is displayed on the screen).
- The "On" setting is not effective when freezing images or in the multiscreen mode.

### Selecting a screen size manually

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

Each time you press **⏏**, the selection is switched.

The selectable screen sizes differ depending on the types of input signals.

#### Important

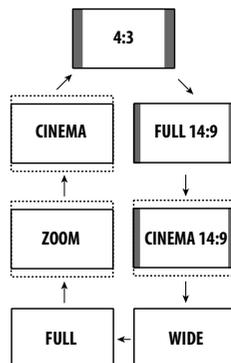
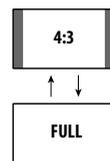
- If images with black bands on both sides or top and bottom of the screen – when using the "4:3", "FULL 14:9" or "CINEMA 14:9" modes, for example – are displayed continuously for long periods or for shorter periods of time over several days, image retention may result. It is recommended that you enjoy watching images displayed in full screen, except when doing so may result in copyright infringement.

**AV source**

Item	Description
<b>4:3</b>	For 4:3 "standard" pictures. A side mask appears on each side.
<b>FULL 14:9</b>	For 14:9 squeeze pictures. A thin side mask appears on each side.
<b>CINEMA 14:9</b>	For 14:9 letterbox pictures. A thin side mask appears on each side, and you may also see bars on the top and bottom with some programs.
<b>WIDE</b>	In this mode the picture is progressively stretched toward each side of the screen
<b>FULL</b>	For 16:9 squeeze pictures
<b>ZOOM</b>	For 16:9 letterbox pictures. Bars may appear on the top and bottom with some programs.
<b>CINEMA</b>	For 14:9 letterbox pictures. Bars may appear on the top and bottom on some programs.

**PC source**

Item	Description
<b>4:3</b>	Fills the screen without altering the input signal aspect ratio
<b>FULL</b>	Full 16:9 screen display

**AV source****PC source****Note**

- The specifications given for the PC source are for the PDP-508XG. For the PDP-428XG, the number of panel pixels is different, and thus signal processing and actual viewing conditions will vary slightly.
- While receiving High Definition video signals, pressing **[F4]** switches among FULL, WIDE, 4:3, and ZOOM.
- Some HD broadcasts may display 4:3 content with side masks, which may cause uneven wear. After viewing it is recommended to view full-screen motion video (see *Detecting side masks*).

**Selecting a screen size automatically**

The plasma television automatically selects an appropriate screen size when the received video signals contain WSS (wide screen signaling) information or when video signals are received from a connected HDMI equipment (see *Using the HDMI Input* on page 45). To activate this function, use the following procedure.

- 1 Press **HOME MENU**.
- 2 Select **"Option"** (**↑/↓** then **ENTER**).
- 3 Select **"Auto Size"** (**↑/↓** then **ENTER**).
- 4 Select **"Natural"** or **"Wide-Zoom"** (**↑/↓** then **ENTER**).

Item	Description
<b>Off</b>	Deactivates the Auto Size function
<b>Natural</b>	Naturally adjusts the image to the screen
<b>Wide-Zoom</b>	Enlarges and displays only the 4:3 aspect ratio portion in full and wide screen

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

**Note**

- Manually select an appropriate screen size if an image does not automatically switch to a correct screen format.
- When the video signal contains no aspect ratio information, the function will not work even with "Natural" or "Wide-Zoom" selected.

**Detecting side masks**

Some HD broadcasts may display 4:3 content with side masks. The plasma television automatically detects these side masks to provide gray side masks when "Natural" has been selected for "Auto Size", or display the image full screen with the side masks removed when "Wide-Zoom" has been selected. This function does not operate when "Off" is selected for "Auto Size".

- 1 Press **HOME MENU**.
- 2 Select **"Option"** (**↑/↓** then **ENTER**).
- 3 Select **"Side Mask"** (**↑/↓** then **ENTER**).
- 4 Select **"Detection"** (**↑/↓**).
- 5 Select **"On"** (**←/→**).

Item	Description
<b>Off</b>	Deactivates the Side Mask detection
<b>On</b>	Activates the Side Mask detection

- 6 Press **HOME MENU** to exit the menu.

**Important**

- The "On" setting prevents uneven wear on 4:3 content and side masks and can reduce the possibility of image retention.

## Useful adjustment settings

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### Note

- You cannot set the Side Mask detection to "On" or "Off" when "Off" is selected in "Auto Size".
- The Side Mask detection does not operate on 4:3 content displayed in SD signals.
- "Auto" will appear on the channel display when this function is on.
- Set the Side Mask detection function to "On", the High Definition 16:9 aspect ratio images containing side masks will be detected and the side masks will be added automatically or the image displayed in full screen, leading to more effective countermeasures taken for the screen burning.
- Detection errors may occur depending on the HD contents. In case a detection error occurs, manually change the screen size to the desired size.

## Changing the brightness at both sides of the screen (Side Mask)

With the 4:3, FULL 14:9, or CINEMA 14:9 screen size selected, you can change the brightness of the gray side masks that appear at both sides of the screen.

- 1 Press HOME MENU.
- 2 Select "Option" (↑/↓ then ENTER).
- 3 Select "Side Mask" (↑/↓ then ENTER).
- 4 Select "Brightness Sync." (↑/↓).
- 5 Select the desired parameter (←/→).

Item	Description
Fixed (default)	Always sets the same brightness for the gray side masks
Auto	Adjusts the brightness of the gray side masks according to the brightness of images

### Important

- The "Auto" setting adjusts the brightness of the side masks according to the brightness of the screen and can reduce the possibility of image retention.
- 6 Press HOME MENU to exit the menu.

## Room Light Sensor

This function automatically adjusts the brightness of the display panel in accordance with the brightness level of the viewing area. For details, use the following procedure.

- 1 Press HOME MENU.
- 2 Select "Option" (↑/↓ then ENTER).
- 3 Select "Room Light Sensor" (↑/↓ then ENTER).
- 4 Select "On" or "Off" (↑/↓ then ENTER).

Item	Description
On	Activates the Room Light Sensor function
Off	Deactivates the Room Light Sensor function

- 5 Press HOME MENU to exit the menu.

### Note

- This function is disabled when "OPTIMUM" is selected on the "AV Selection" menu.
- This function is not available when PC signals are received.
- As this function automatically optimizes image quality, the process in which image settings such as brightness and tint gradually change may be seen on the screen. This is not a malfunction.

## Blue LED Dimmer

You can adjust the brightness of the POWER ON indicator depending on the brightness level of the viewing area. When "Auto" is selected, the brightness of the indicator changes to "High", "Mid" or "Low" to match the brightness level of the viewing area.

- 1 Press HOME MENU.
- 2 Select "Option" (↑/↓ then ENTER).
- 3 Select "Blue LED Dimmer" (↑/↓ then ENTER).
- 4 Select "Auto", "High", "Mid" or "Low" (↑/↓ then ENTER).
- 5 Press HOME MENU to exit the menu.

## Orbiter

This function automatically shifts the image little by little to reduce the occurrence of the burning.

- 1 Press HOME MENU.
  - 2 Select "Option" (↑/↓ then ENTER).
  - 3 Select "Orbiter" (↑/↓ then ENTER).
  - 4 Select "On" (↑/↓ then ENTER).
  - 5 Press HOME MENU to exit the menu.
- To cancel this function, select "Off" in step 4.

### Note

- When the Orbiter function is set to "On", the image may appear to drop slightly on the screen.
- This function does not operate when PC signals are received.

## Video Pattern

You can display the Video Pattern screen that also helps eliminate after-image when it occurs.

- 1 Press **HOME MENU**.
- 2 Select **"Option"** (↑/↓ then **ENTER**).
- 3 Select **"Video Pattern"** (↑/↓ then **ENTER**).  
A confirmation screen appears.
- 4 Select **"Start"** (**ENTER**).

The Video Pattern screen displays.

### Note

- The system is automatically placed into standby one hour after the Video Pattern screen has started.
- While the Video Pattern screen is on, no buttons operate except **⏻** on the remote control unit, **STANDBY/ON** and **⏻** on the plasma television.
- To cancel the Video Pattern screen, press **⏻** on the remote control unit, **STANDBY/ON** or **⏻** on the plasma television.
- The Video Pattern timer has priority over the sleep timer. When the Video Pattern timer is on, the sleep timer becomes ineffective.

## Sleep Timer

When the selected time elapses, the Sleep Timer automatically places the system into the standby mode.

- 1 Press **HOME MENU**.
- 2 Select **"Sleep Timer"** (↑/↓ then **ENTER**).
- 3 Select the desired time (↑/↓ then **ENTER**).  
Select "Off" (cancel), "30 min", "60 min", "90 min" or "120 min".
- 4 Press **HOME MENU** to exit the menu.

### Note

- Five minutes before the selected time elapses, the remaining time appears every minute.
- To check the remaining time, perform steps 1 and 2. After checking the time, press **HOME MENU** to restore the previous display.
- The SLEEP indicator on the front of the plasma television lights up in orange when the Sleep Timer is set.

## Using a password

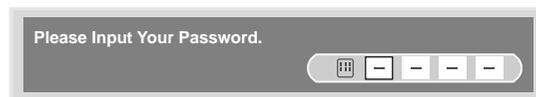
The plasma television provides a Child lock function for preventing children from watching inappropriate programs. You need to enter a password when watching programs with "Block" specified. Before the system is shipped, "1234" is preset as the factory-default password. You can however, change the password as you want.

You will need to enter the password before using the "Auto Installation", "Analog TV Setup", or "Password" functions from the HOME MENU to prevent unauthorized changes to the settings.

## Entering a password

In a case where you select a channel blocked with Child lock function or if password entry is requested when attempting to open the menu, enter a password correctly.

- Enter your four-digit password using buttons **0** to **9**.



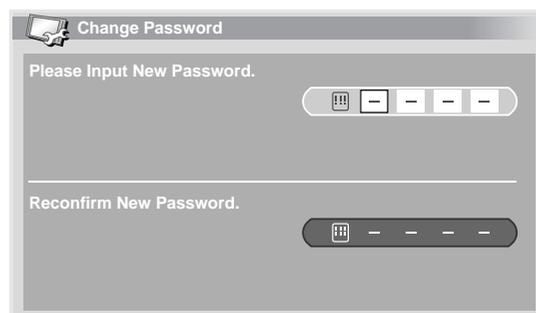
### Note

- If you fail password entry three times, "Invalid password." appears, and the menu is closed. In order to display the password entry screen again to unlock the password, select the blocked channel or open the menu again.
- If the password entry screen disappears before entry, you may recall it by pressing **ENTER**.

## Changing the password

Use the following procedure to change the password.

- 1 Press **HOME MENU**.
- 2 Select **"Setup"** (↑/↓ then **ENTER**).
- 3 Select **"Password"** (↑/↓ then **ENTER**).  
The password entry screen appears. Enter the current four-digit password using buttons **0** to **9**.
- 4 Select **"Change Password"** (↑/↓ then **ENTER**).
- 5 Enter a four-digit password to be newly set, using the buttons **0** to **9**.



- 6 Enter the same password that you have entered in step 5.  
  - If a different password is entered, the operation goes back to step 5 for reentry from the beginning.
  - You can try up to three times to reconfirm the new password before the Change Password screen is automatically exited.
- 7 Press **HOME MENU** to exit the menu.

### Note

- Take a note of the newly set password and keep it handy.

## Useful adjustment settings

09

English

### Resetting the password function

- 1 Press HOME MENU.
- 2 Select "Setup" (↑/↓ then ENTER).
- 3 Select "Password" (↑/↓ then ENTER).  
The password entry screen appears. Enter your four-digit password using buttons 0 to 9.
- 4 Select "Reset" (↑/↓ then ENTER).
- 5 Select "Yes" (←/→ then ENTER).
- 6 Press HOME MENU to exit the menu.

#### Note

- The above procedure will reset the password to the factory default (1 2 3 4).

We suggest you write down your password so you don't forget it.

PDP-508XG / PDP-428XG  
Your password No.:

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
----------------------	----------------------	----------------------	----------------------

#### If you forget the password

When the message "Please Input Your Password" is displayed, press the **ENTER** button on the remote control unit and hold it down for three seconds or longer.

The password reverts to "1234".

41  
En

## 10 Using with other equipment

### Chapter 10 Using with other equipment

You can connect many types of external equipment to your plasma television, like a digital tuner, VCR, DVD player, personal computer, game console, and camcorder.

To view images coming from external equipment, select the input source using **INPUT 1** to **INPUT 6** or **PC** on the remote control unit (page 14) or **INPUT** on the plasma television.

#### Caution

- To protect all equipment, always unplug the plasma television from the power outlet before connecting to a digital tuner, VCR, DVD player, personal computer, game console, camcorder, or other external equipment.

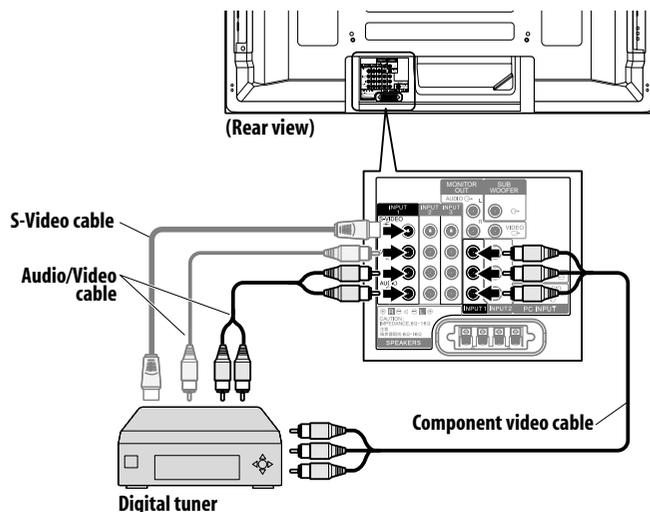
#### Note

- Unless stated otherwise, the connecting cables shown in the illustrations are readily available commercially, but are not supplied with this product.
- Refer to the relevant operation manual (DVD player, personal computer, etc.) carefully before making connections.

#### Connecting a digital tuner

You can use the INPUT 1 terminal when connecting a digital tuner and other audiovisual equipment.

Use either a component, S-Video or standard video cable for the video signal. Use a stereo audio cable for the audio. (If you're using the standard video input, you can use a red/white/yellow audio/video cable.)



#### Displaying broadcasts via a digital tuner

To watch a digital tuner image, press **INPUT 1** on the remote control unit or press **INPUT** on the plasma television to select "INPUT 1".

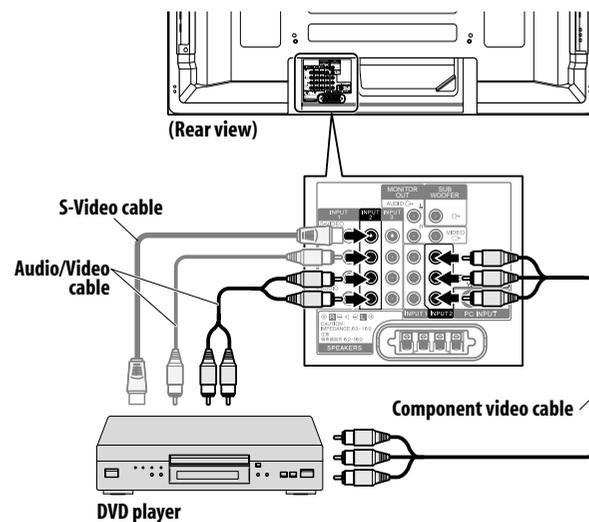
#### Note

- Signal priority for the INPUT 1 terminals is (1) Component video, (2) S-Video, (3) Video.
- Connect only the type of video cable that will actually be used.
- Refer to your digital tuner operation manual for the signal types available.

#### Connecting a DVD player

Use the INPUT 2 terminal when connecting to a DVD player and other audiovisual equipment.

Use either a component, S-Video or standard video cable for the video signal. Use a stereo audio cable for the audio. (If you're using the standard video input, you can use a red/white/yellow audio/video cable.)



#### DVD playback

To watch a DVD, press **INPUT 2** on the remote control unit or press **INPUT** on the plasma television to select "INPUT 2".

#### Note

- Signal priority for the INPUT 2 terminals is (1) Component video, (2) S-Video, (3) Video.
- Connect only the type of video cable that will actually be used.
- Refer to your DVD player operation manual for the signal types available.

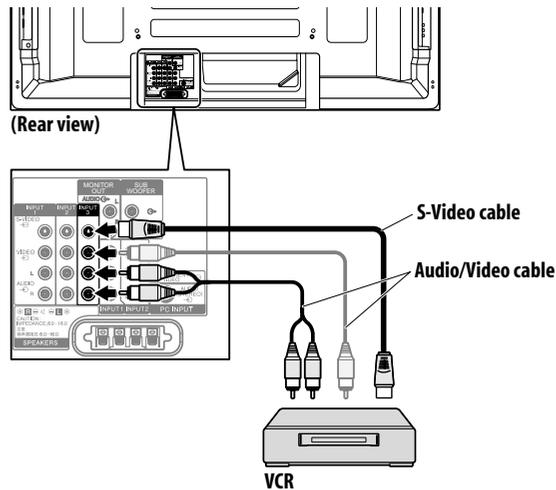
## Using with other equipment

10

### Connecting a VCR

Use the INPUT 3 terminals when connecting a VCR and other audiovisual equipment.

Use either an S-Video or standard video cable for the video signal. Use a stereo audio cable for the audio. (If you're using the standard video input, you can use a red/white/yellow audio/video cable.)



### VCR playback

To watch a VCR image, press **INPUT 3** on the remote control unit or press **INPUT** on the plasma television to select "INPUT 3".

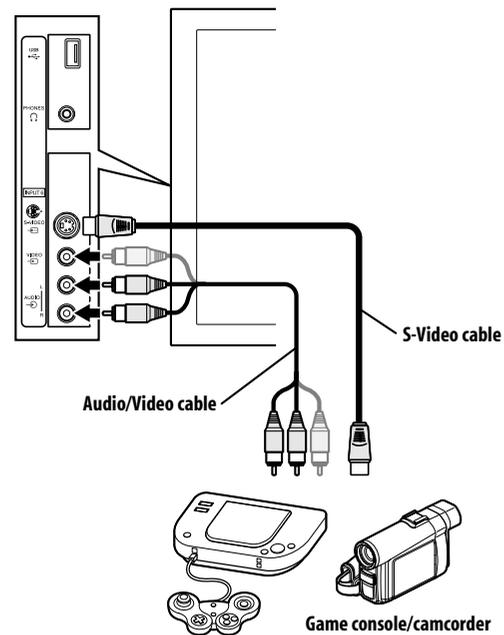
#### Note

- Signal priority for the INPUT 3 terminals is (1) S-Video, (2) Video.
- Connect only the type of video cable that will actually be used.
- Refer to your VCR operation manual for the signal types available.

### Connecting a game console or camcorder

Use the INPUT 6 terminals to connect a game console, camcorder and other audiovisual equipment.

Use either an S-Video or standard video cable for the video signal. Use a stereo audio cable for the audio. (If you're using the standard video input, you can use a red/white/yellow audio/video cable.)



### Displaying an image from the game console or camcorder

To watch an image coming from the game console or camcorder, press **INPUT 6** on the remote control unit or press **INPUT** on the plasma television to select "INPUT 6".

#### Note

- Signal priority for the INPUT 6 terminals is (1) S-Video, (2) Video.
- Connect only the type of video cable that will actually be used.

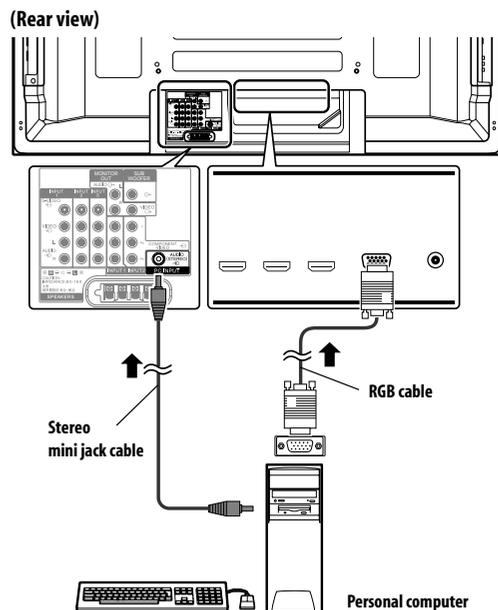
English

## 10 Using with other equipment

### Connecting a personal computer

Use the PC terminals to connect a personal computer.

- The PC input terminal is DDC1/2B-compatible.



### Displaying an image from a personal computer

To watch an image coming from the personal computer, press **PC** on the remote control unit or press **INPUT** on the plasma television to select "PC".

When connecting to a personal computer, the correct input signal type is automatically detected. If the personal computer image does not come in clearly, you may need to use Auto Setup menu. See page 36.

#### Note

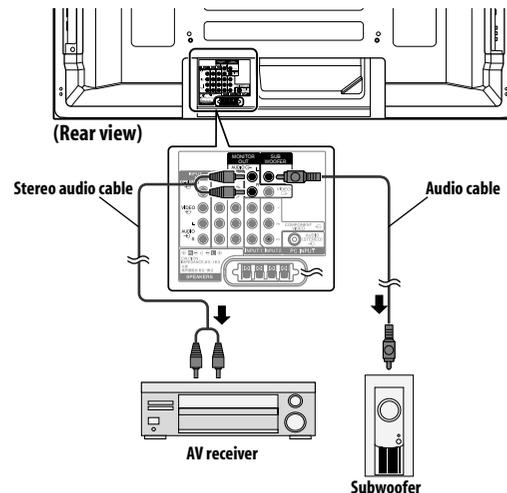
- The PC terminals cannot be used for audiovisual equipment.

### Computer compatibility chart

Resolution	Frequency
720 x 400	70 Hz
640 x 480 (VGA)	60 Hz
800 x 600 (SVGA)	60 Hz
1280 x 720	60 Hz
1024 x 768 (XGA)	60 Hz
1360 x 768 (Wide-XGA)	60 Hz
1280 x 1024 (SXGA)	60 Hz

### Connecting an amplifier/AV receiver

You can enjoy more powerful sound by connecting an amplifier/AV receiver and subwoofer to the plasma television.



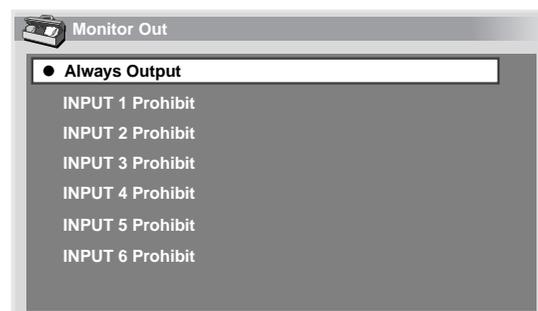
#### Note

- For details, refer to the operation manual for the audio equipment to be connected.
- If your amplifier/AV receiver has a subwoofer output, it is not necessary to connect the subwoofer output on the plasma television.
- Audio signals corresponding to the currently displayed images are always output to the MONITOR OUT and SUBWOOFER terminals.

### Avoiding unwanted feedback

You can prevent unwanted feedback from adversely affecting the quality of images. Specify the output terminal whose output is to be inhibited.

- Press **HOME MENU**.
- Select "Option" (↑/↓ then **ENTER**).
- Select "Monitor Out" (↑/↓ then **ENTER**).
- Select the desired parameter (↑/↓ then **ENTER**).



## Using with other equipment

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English

Item	Description
<b>Always Output</b>	Outputs composite video and audio signals no matter which input source is selected
<b>INPUT 1 Prohibit</b>	Does not output composite video and audio signals when "INPUT 1" is selected
<b>INPUT 2 Prohibit</b>	Does not output composite video and audio signals when "INPUT 2" is selected
<b>INPUT 3 Prohibit</b>	Does not output composite video and audio signals when "INPUT 3" is selected
<b>INPUT 4 Prohibit</b>	Does not output composite video and audio signals when "INPUT 4" is selected
<b>INPUT 5 Prohibit</b>	Does not output composite video and audio signals when "INPUT 5" is selected
<b>INPUT 6 Prohibit</b>	Does not output composite video and audio signals when "INPUT 6" is selected

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

#### Note

- The INPUT 4 and INPUT 5 video signals are not output from the MONITOR OUT jack regardless of this setting.

## Using the HDMI Input

The INPUT 3, INPUT 4 and INPUT 5 terminals are HDMI terminals to which digital video and audio signals can be input. To use the HDMI terminals, 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 3**, **INPUT 4** or **INPUT 5** on the remote control unit or press **INPUT** on the plasma television to select "INPUT 3", "INPUT 4" or "INPUT 5".

Video signals supported
720 (1440) x 576i@50 Hz
720 x 576p@50 Hz
1280 x 720p@50 Hz
1920 x 1080i@50 Hz
720 (1440) x 480i@59.94 Hz/60 Hz
720 x 480p@59.94 Hz/60 Hz
1280 x 720p@59.94 Hz/60 Hz
1920 x 1080i@59.94 Hz/60 Hz
1920 x 1080p@24 Hz
1920 x 1080p@50 Hz
1920 x 1080p@60 Hz

PC signals supported
640 x 480 (VGA) 60 Hz
800 x 600 (SVGA) 60 Hz
1024 x 768 (XGA) 60 Hz
1360 x 768 (Wide - XGA) 60 Hz
1280 x 1024 (SXGA) 60 Hz

For audio, the system supports the following:

- Linear PCM (STEREO 2ch)
- Sampling frequency: 32 kHz, 44.1 kHz, 48 kHz

## HDMI Control supported

The plasma television supports the HDMI Control functions. By connecting devices that support the HDMI Control functions to the plasma television, you can control the connected device(s) from the plasma television or remote control unit of the plasma television. See *Using the HDMI Control* on Chapter 11.

## Deep Color supported

Deep Color means the color depth that describes the number of bits used to represent the color of a single pixel in a bitmapped image. Besides the conventional RGB/YCbCr16 bit/20 bit/24 bit signals, the plasma television also supports RGB/YCbCr30 bit/36 bit signals. This enables finer, minute color reproduction when a device that supports Deep Color signals is connected to the plasma television. When Deep Color signals are received, the color depth appears on the channel display.

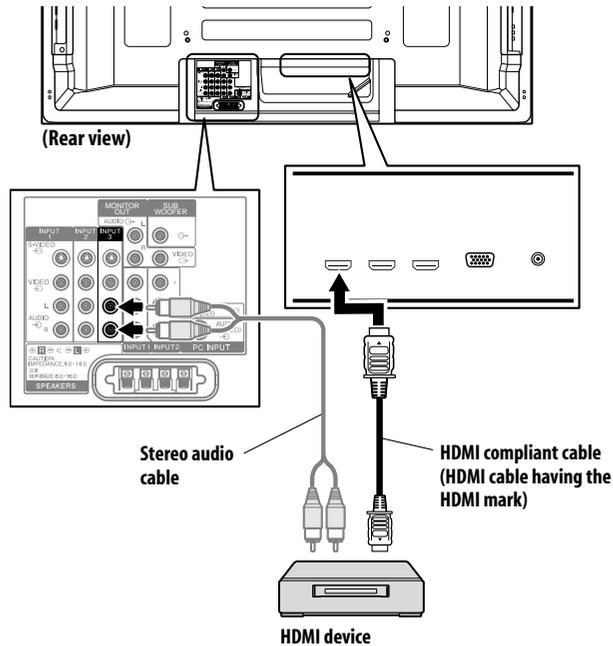
#### Note

- It may take a short while until the image is displayed, depending on the equipment connected.
- Make sure to use an HDMI compliant cable.
- When inputting 1080p signals, we recommend you use an HDMI cable that supports HDMI Category 2.
- When connecting a PC to the HDMI terminal, use the HDMI compliant PC or video card.
- When connecting a PC to the HDMI terminal using a DVI output terminal, the plasma television may not display properly. If that is the case, consult with your PC manufacturer.
- PC picture and/or sound may not be displayed or heard properly depending on the PC used.

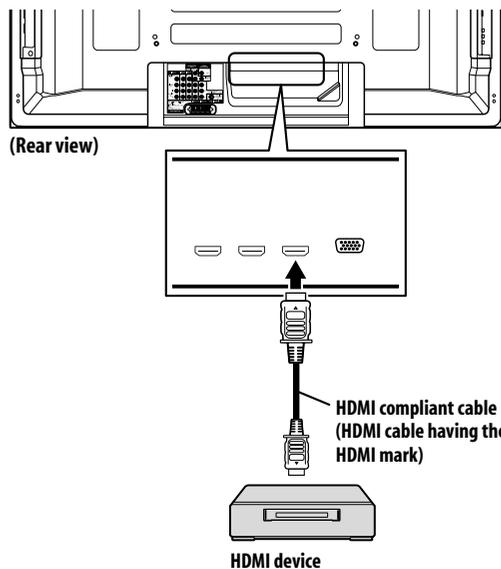
## 10 Using with other equipment

### Connecting HDMI equipment

For INPUT 3, connect an HDMI cable for the video and (if necessary) a stereo audio cable for analog audio. You can select the audio and video format according to the device you've connected – see below for more.



For INPUT 4 and INPUT 5, connect just an HDMI cable – this carries both the audio and video signals (the illustration below shows the connection to INPUT 5).



### Activating the INPUT 3 HDMI terminal

- 1 Press HOME MENU.
- 2 Select "Option" (↑/↓ then ENTER).
- 3 Select "HDMI Input" (↑/↓ then ENTER).
- 4 Select "Setting" (↑/↓ then ENTER).
- 5 Select "Enable" (↑/↓ then ENTER).

Item	Description
Disable (default)	Deactivates the INPUT 3 HDMI terminal
Enable	Activates the INPUT 3 HDMI terminal

- 6 Press HOME MENU to exit the menu.

#### Note

- You need not manually activate the INPUT 4 and INPUT 5 HDMI terminals.

### Specifying the type of input signals

- 1 Repeat steps 1 to 3 provided for *Activating the INPUT 3 HDMI terminal*.
- 2 Select "Signal Type" (↑/↓ then ENTER).
- 3 Select "Video" or "PC" (↑/↓ then ENTER).

Item	Description
Video (default)	Select this option except when a PC is connected
PC	Select this option when a PC is connected to the HDMI input terminal

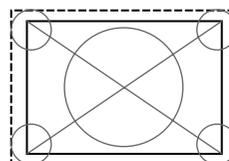
- 4 Press HOME MENU to exit the menu.

#### Caution

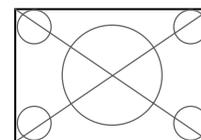
- Make sure to select "PC" when a PC is connected to the HDMI input terminal.

#### Note

- In the "Video" mode, the image is "over-scanned" (enlarged), and the mode is automatically switched to "PC" when PC signals are received.
- In the "PC" mode, the image is displayed in full size for optimum image quality.



when "Video" is selected  
("overscan" size screen)



when "PC" is selected  
("underscan" size screen)

## Using with other equipment

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### Specifying the type of digital video signals

- 1 Press HOME MENU.
- 2 Select "Option" (↑/↓ then ENTER).
- 3 Select "HDMI Input" (↑/↓ then ENTER).
- 4 Select "Video" (↑/↓ then ENTER).
- 5 Select the type of digital video signals (↑/↓ then ENTER).
  - If you select "Auto", an attempt will be made to identify the type of digital video signals when digital video signals are received.

Item	Description
Auto (default)	Automatically identifies input digital video signals
Color-1	Digital Component Video signals (4:2:2) locked
Color-2	Digital Component Video signals (4:4:4) locked
Color-3	Digital RGB signals (16 to 235) locked
Color-4	Digital RGB signals (0 to 255) locked

- 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, or images appear in inappropriate colors, 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.

### Specifying the type of audio signals

When using the INPUT 3 HDMI terminal, you need to specify the type of audio signals.

- 1 Repeat steps 1 to 3 provided for *Specifying the type of digital video signals*.
- 2 Select "Audio" (↑/↓ then ENTER).
- 3 Select the type of audio signals (↑/↓ then ENTER).
  - If you select "Auto", an attempt will be made to identify the type of audio signals when audio signals are received.

Item	Description
Auto (default)	Automatically identifies the input signals
Digital	Accepts digital audio signals
Analog	Accepts analog audio signals

- 4 Press HOME MENU to exit the menu.

#### Note

- The INPUT 4 and INPUT 5 HDMI terminals accept only digital audio signals.
- 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.

### Using control cords

Connect control cords between the plasma television and other Pioneer equipment having the SR logo to be able to operate the connected equipment via the remote control sensor on the plasma television.

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 television when operating the connected equipment.

#### Note

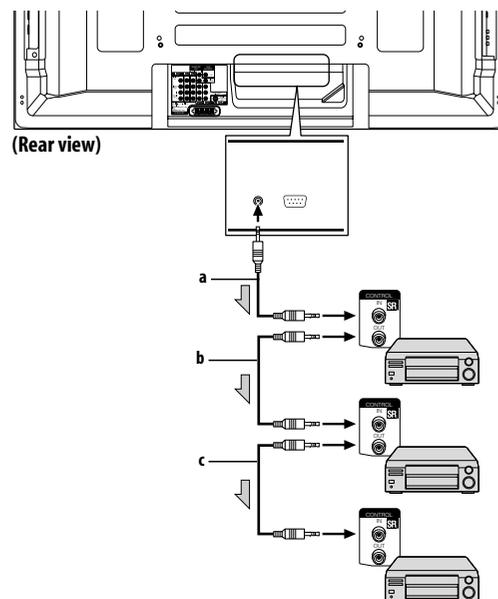
- Make sure that the power cord is removed from the power outlet when making connections.
- Complete all component connections before making control cord connections.

### About SR+

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

#### Note

- While in connection through SR+, the volume on this system is temporarily minimized.
- When making control cord connections, use the SR+ cable.
- When making control cord connections with one or more pieces of Pioneer equipment, directly connect the plasma television and the Pioneer amplifier that supports SR+. Do not connect other equipment between them.



When SR+ is not used (a, b and c):

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

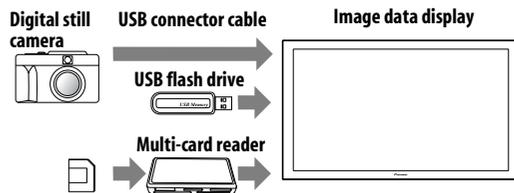
When SR+ is used (a):

Use the SR+ cable (available as option).

## 10 Using with other equipment

### Enjoying through USB interface (Home Gallery function)

On this system, you can watch JPEG images that have been captured and stored in memory cards using a digital still camera. You can also connect your digital camera directly to the plasma television using a USB connector cable.



#### Note

- A single USB device can only be connected at a time. No USB hub can be connected.
- Such devices as a printer or keyboard cannot be connected and used.

### Readable memory cards

This system can read memory cards whose formats are FAT16, FAT32, or VFAT.

### Readable data files

This system can read only JPEG files that meet the following conditions:

- Extensions are JPG or JPEG.
- JPEG 4:2:2 and 4:2:0 format
- The image resolution must be less than 3264 pixels in the horizontal direction and 2448 pixels in the vertical direction.
- The image resolution must be higher than 160 pixels in the horizontal direction and 120 pixels in the vertical direction.

#### Note

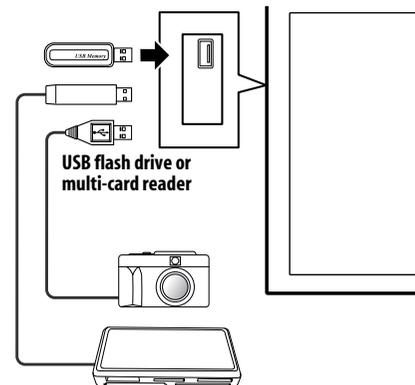
- This system may not be able to display images, depending on the type of your memory card, or camera.
- This system may not be able to display images modified or edited using a personal computer or other equipment.
- This system complies with the USB Mass Storage Class, SIC (Still Image Capture) Class + PTP and Multiple LUN (Logical Unit Number) Class.

### Connecting a USB device

Hold the USB device's connector with its top side facing the front panel, and then insert it into the USB port on the side of the plasma television.

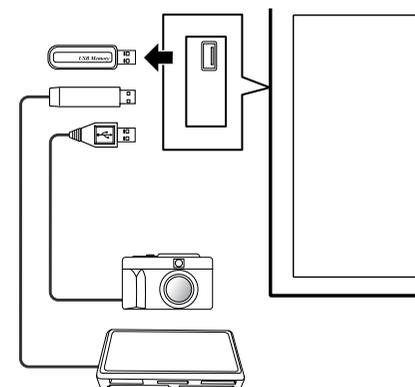
- Insert the USB device's connector as far as it goes.
- When using the USB connector of your device, connect it directly to the USB port.

#### Side of the plasma television



### Removing a USB device

To remove a USB device's connector, quit the Home Gallery screen and then remove it.



#### Note

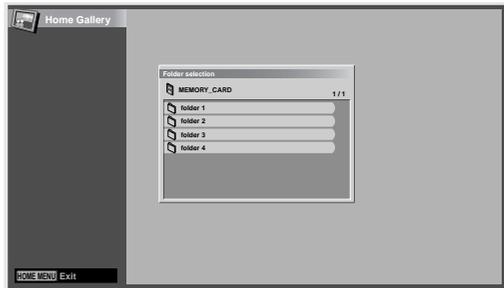
- Be sure to quit the Home Gallery screen before removing the USB device. If you remove the USB device while the Home Gallery screen is displayed, data inside the memory may be damaged.
- Do not insert or remove the USB device immediately after the system is switched on or off. This may cause data inside the memory to be damaged.
- Do not turn the digital camera off while the Home Gallery screen is displayed.

## Using with other equipment

### Starting the initial Home Gallery screen

When you connect a USB device while the system is on, the initial screen appears automatically. If the screen does not appear, use the steps 1 and 2.

- 1 Press **HOME MENU**.
- 2 Select "Home Gallery" (**↑/↓** then **ENTER**).



- 3 Select a folder (**↑/↓** then **ENTER**).

### Selecting a folder

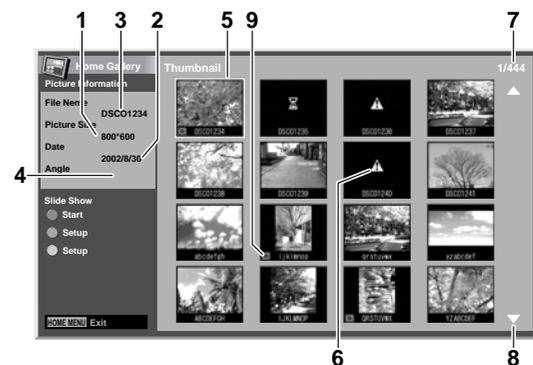
The initial Home Gallery screen shows folders saved in the memory card. Different types of icons appear depending on the contents of folders.

-  — Designates a folder that contains another folder.
-  — Designates a folder that contains no image file.
-  — Designates a folder that contains one or more image files.
-  — Designates one or more image files saved under the root directory.

To select a desired folder, press **↑/↓** and then **ENTER**. Images in the selected folder are displayed in thumbnail format.

### Starting a thumbnail screen

When a folder is selected on the initial Home Gallery screen, images in the folder are displayed in thumbnail format.



- 1 Picture size
- 2 Saved date

- 3 File name
- 4 Rotation angle
- 5 Image selection cursor
- 6 Appears for unreadable images and images that could not be displayed on a single screen.
- 7 Number of the selected file/total number of images in the folder
- 8 Appears when the folder contains more than 16 images.
- 9 Indicates that the picture has been rotated.

Press **↑/↓** to scroll the screen.

To highlight a desired image, press **↑/↓** and **←/→** to move the cursor. Information about the highlighted image appears at the top left of the screen.

Press **HOME MENU** to quit the Home Gallery function.

### Starting a standard single-image screen

When the thumbnail screen is displayed, press **↑/↓** and **←/→** to highlight a desired image, and then press **ENTER**. The thumbnail screen disappears and only the selected image is displayed.



With the above screen displayed, you can use the following buttons to perform various operations:

**P-:**  
Displays the previous image in the normal or full screen.

**P+:**  
Displays the next image in the normal or full screen.

**RED:**  
Displays the image using the full screen. To quit the full-screen display, press **RETURN**.

**GREEN:**  
Rotates the displayed image clockwise. Each press rotates the image in the sequence: 90°, 180°, and then 270°.

**HOME MENU:**  
Quits the Home Gallery function.

### Note

- Be careful not to display the same image for an extended period of time. This may cause screen burning/image retention.
- Images smaller than 1024 x 768 pixels are displayed with blank surrounding.

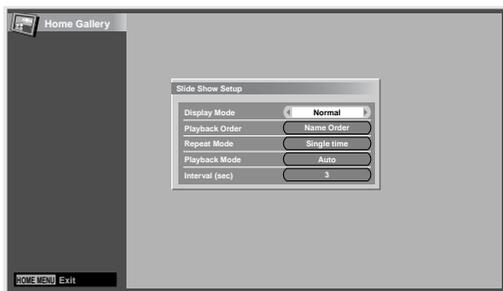
### Starting the Slide Show Setup screen

When the thumbnail screen is displayed, press **GREEN** to start the screen for setting up for Slide Show that sequentially changes images.

- 1 Select "Display Mode" (**↑/↓**).
- 2 Select "Normal" or "Full" (**←/→**).
  - With "Full" selected, images are displayed using the full screen.

## 10 Using with other equipment

- 3 Select "Playback Order" (↑/↓).
- 4 Select "Name Order" or "Random" (←/→).
- 5 Select "Repeat Mode" (↑/↓).
- 6 Select "Single Time" or "Loop" (←/→).
  - With "Loop" selected, Slide Show is repeated until RETURN is pressed.
- 7 Select "Playback Mode" (↑/↓).
- 8 Select "Auto" or "Manual" (←/→).
  - With "Auto" selected, images automatically change at the specified intervals.
  - With "Manual" selected, images change each time you press P+/P-.



- 9 If you have selected "Auto" in step 8, press ↑/↓ to select "Interval (sec.)", and then press ←/→ to select the desired display duration for individual images.
  - You can select from among 3 seconds, 5 seconds, 10 seconds, 20 seconds, 30 seconds, 60 seconds, and 90 seconds.
- 10 To start the Slide Show screen, press RETURN to display the thumbnail screen and then press RED.
  - To quit the Home Gallery function, press HOME MENU.

### Starting the Slide Show screen

After setting up for Slide Show, you can start Slide Show to sequentially change images.

- 1 To start the Slide Show screen, press RED when a thumbnail screen is displayed.
  - With "Auto" selected for "Playback Mode", images automatically change at the specified intervals.
  - With "Manual" selected for "Playback Mode", press P+/P- to change images.
  - While images are automatically changing, you can stop and hold automatic image change for approximately 90 seconds by pressing RED. To resume, press RED again.
- 2 When quitting the Slide Show screen, press RETURN to restore the thumbnail screen or HOME MENU to quit the Home Gallery function.

#### Note

- When paused during a slideshow is played, the screen automatically changes to the next image in five minutes.
- If no operation is continued for five minutes, the Home Gallery function automatically finishes except when the slideshow is played with "Loop" selected for the "Repeat Mode".

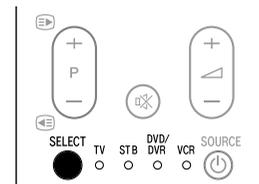
### Adjusting the picture quality

When a thumbnail screen is displayed, press **YELLOW**. The same picture adjustment screen as the PC source is displayed. For the subsequent procedure, see page 28.

### Controlling other equipment using the supplied remote control unit

Using the supplied remote control unit, you can control other equipment in connection: a set-top box (STB), DVD player, DVD/HDD recorder (DVR), BD player or VCR.

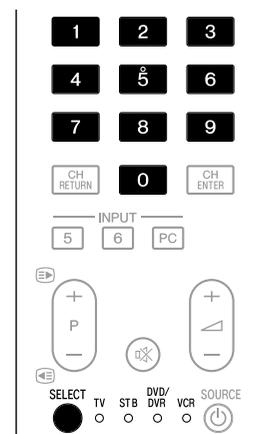
Before using this function, you need to preset the supplied remote control unit with the manufacture code of the equipment to be controlled. When you then want to control the equipment, press **SELECT** on the remote control unit to select an appropriate mode depending on the equipment; the selection is switched among TV, STB, DVD/DVR, and VCR. The corresponding mode indicators on the remote control unit show the currently selected mode.



- When you control a BD player, select the DVD/DVR mode.

### Presetting manufacture codes

- 1 Press **SELECT** on the remote control unit to select the STB, DVD/DVR, or VCR mode depending on the equipment.
- 2 After confirming that the indicator of the previously selected mode goes off, press and hold **SELECT**, and then press **1** on the remote control unit.
  - The corresponding mode indicator flashes.
- 3 Press **0** to **9** to enter a three-digit manufacture code.
  - See the manufacture code list to identify an appropriate code.
  - The mode indicator lights up for approximately one second and then goes off; presetting the manufacture code is completed.



#### Note

- If you perform no operation for approximately one minute while a mode indicator is flashing, the code presetting procedure is quitted.

## Using with other equipment

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- If you enter a code not listed in the table, a mode indicator flashes quickly for approximately one second and then flashes as before.
- To quit the code presetting procedure halfway while a mode indicator is flashing, you may press **SELECT** on the remote control unit.
- The factory default manufacture codes for the STB, DVD/DVR, and VCR modes are "000", "100", and "500" respectively.

### Manufacture codes

- Some equipment listed in the table may not allow you to control with the supplied remote control unit partially or entirely.

STB	
000	PIONEER 1 (factory default)
001	PIONEER 2
002	AONVISION
003	ZINWELL
004	CANAL SATELLITE
005	HUMAX
006	PACE 1
007	PACE 2
008	QUALI-TV
009	SKY DIGITAL
DVD	
100	PIONEER 1 (factory default)
101	PIONEER 2
102	AKAI
103	DENON
104	HITACHI
105	JVC
106	KENWOOD 1
107	KENWOOD 2
108	PANASONIC 1
109	PANASONIC 2
110	PHILIPS 1
111	PHILIPS 2
112	SAMSUNG
113	SHARP
114	SONY 1
115	SONY 2
116	SONY 3
117	THOMSON
118	TOSHIBA
119	YAMAHA

DVR	
200	PIONEER 1
201	PIONEER 2
202	PIONEER 3
203	PANASONIC
204	PHILIPS 1
205	PHILIPS 2
206	SHARP
207	SONY
208	TOSHIBA

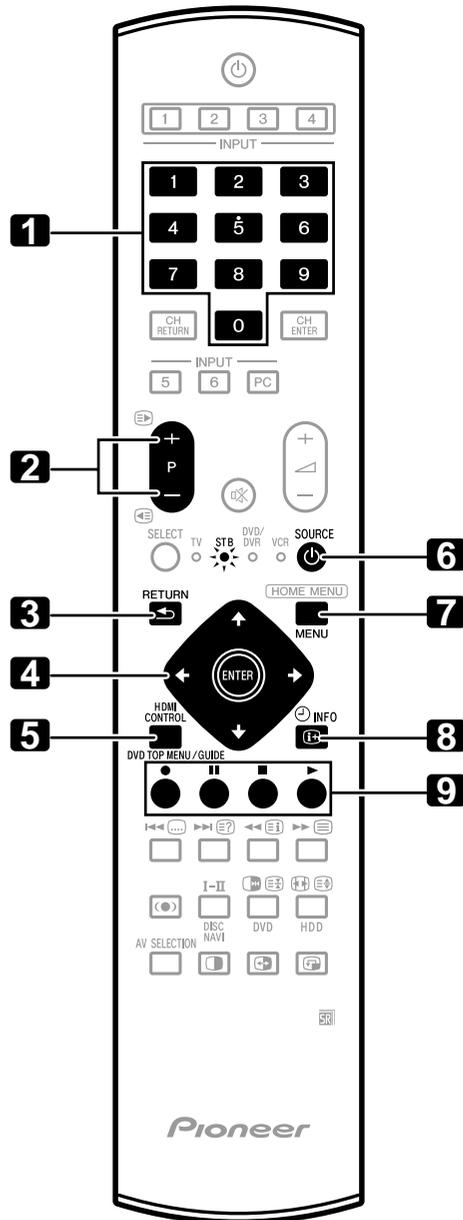
BD	
300	PIONEER

VCR	
500	PIONEER 1 (factory default)
501	PIONEER 2
502	AIWA 1
503	AIWA 2
504	AKAI 1
505	AKAI 2
506	AKAI 3
507	DAEWOO
508	GRUNDIG 1
509	GRUNDIG 2
510	GRUNDIG 3
511	GRUNDIG 4
512	HITACHI 1
513	HITACHI 2
514	HITACHI 3
515	JVC 1
516	JVC 2
517	JVC 3
518	JVC 4
519	JVC 5
520	LOEWE 1
521	LOEWE 2
522	MATSUI
523	ORION
524	PANASONIC 1
525	PANASONIC 2
526	PHILIPS 1

English

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En

VCR	
527	PHILIPS 2
528	PHILIPS 3
529	SANYO
530	SAMSUNG 1
531	SAMSUNG 2
532	SAMSUNG 3
533	SAMSUNG 4
534	SHARP
535	SONY 1
536	SONY 2
537	SONY 3
538	SONY 4
539	SONY 5
540	SONY 6
541	SONY 7
542	THOMSON
543	TOSHIBA

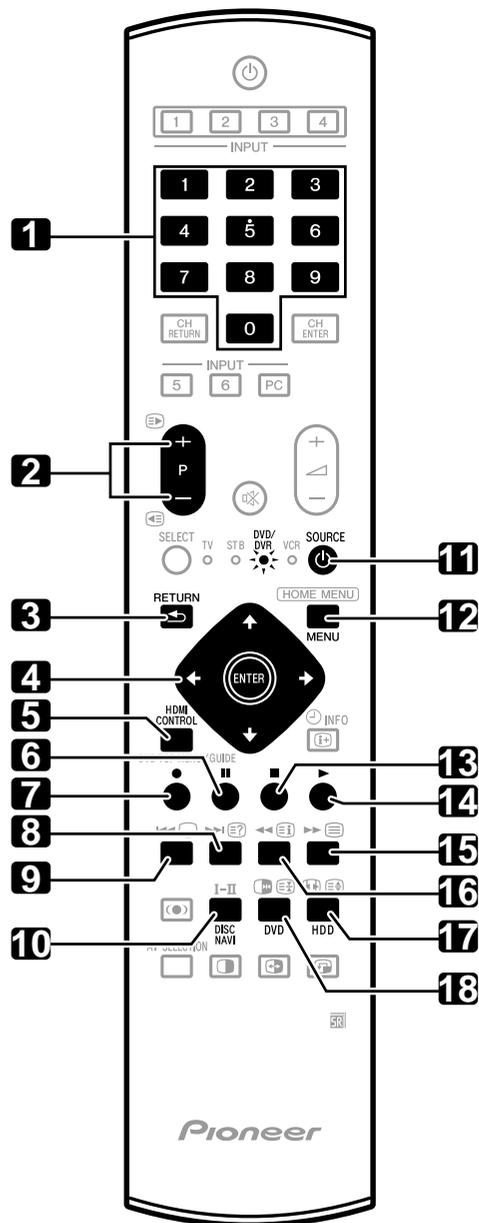


### STB (set - top box) control buttons

When in the STB mode, the buttons on the remote control unit function as below.

- 1 0 to 9**  
Function as the numeric buttons.
- 2 P+/P-**  
Press to tune in a higher or lower channel.
- 3 RETURN**  
When the broadcasting menu screen is in display, press to restore the immediately previous screen.
- 4 ENTER**  
Press to activate the selected function.  
↑/↓/←/→  
Press to select items on the broadcasting menu screen or the broadcasting guide screen.
- 5 GUIDE**  
Press to display the broadcasting guide screen.
- 6 SOURCE**   
Turns the set-top box on and off.
- 7 MENU**  
Press to display the broadcasting menu screen.
- 8 INFO**  
Press to display information on the current broadcasting.
- 9 Color (RED/GREEN/YELLOW/BLUE)**  
This operation is available for only AonVision and Zinwell products.

## 10 Using with other equipment



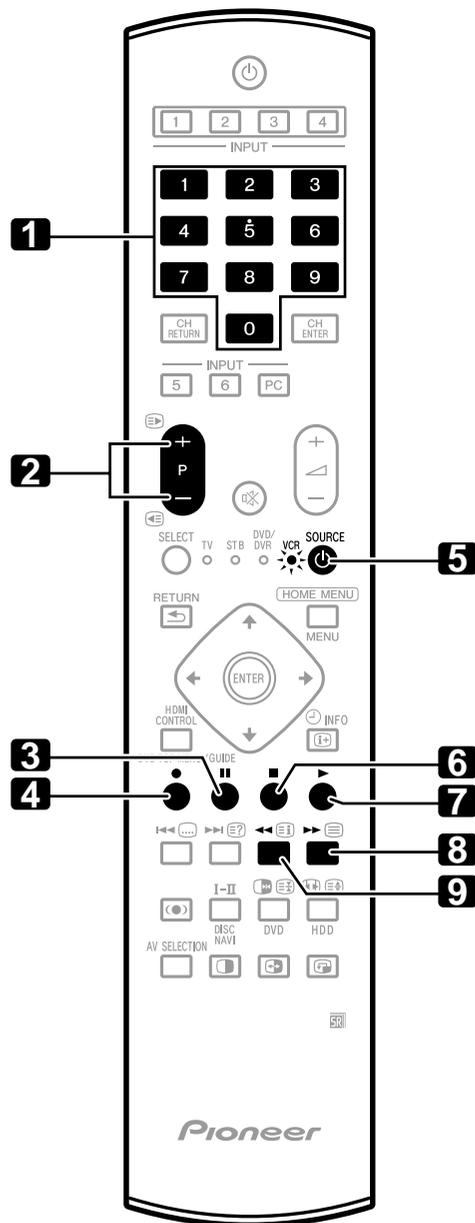
### DVD/DVR control buttons

When in the DVD/DVR mode, the buttons on the remote control unit function as below.

- 1 **0 to 9**  
Function as the numeric buttons.
- 2 **P+/P-** (DVD/HDD recorder (DVR) only)  
Press to change the channel of the tuner built in the DVD/HDD recorder (DVR).
- 3 **RETURN**  
When the DVD menu is in display, press to restore the immediately previous screen.
- 4 **ENTER**  
Press to activate the selected function.  
↑/↓/←/→  
Press to select items on the DVD MENU screen.
- 5 **DVD TOP MENU**  
When this button is pressed, the DVD top menu will appear.
- 6 **|| (PAUSE/STILL)**  
Sets pauses and still pictures.
- 7 **● (REC) (DVD/HDD recorder (DVR) only)**  
Starts recording.
- 8 **▶▶ (CHAPTER SEARCH)**  
Each time you press, you move ahead to the start of the next chapter.
- 9 **◀◀ (CHAPTER SEARCH)**  
Each time you press, you move back to the start of the previous chapter.
- 10 **DISC NAVI (DVD/HDD recorder (DVR) only)**  
Press to display the Disc Navigator screen for browsing the contents of a disc.
- 11 **SOURCE**   
Turns on and off the power of the DVD player or DVD/HDD recorder (DVR).
- 12 **MENU**  
Press to display the DVD menu.
- 13 **■ (STOP)**  
Press to stop playback or recording. With some DVD players or DVD/HDD recorders (DVRs), pressing the button twice may open the disc tray.
- 14 **▶ (PLAY)**  
Starts playback.
- 15 **▶▶ (SCAN)**  
Press for fast forward.
- 16 **◀◀ (SCAN)**  
Press to go backward.
- 17 **HDD (DVD/HDD recorder (DVR) only)**  
Press to select the hard disk (HDD) for playback or recording.
- 18 **DVD (DVD/HDD recorder (DVR) only)**  
Press to select the DVD for playback or recording.
- 7, 13 **REC STOP (DVD/HDD recorder (DVR) only)**  
Press ● and ■ at the same time to stop recording. This operation is available for only Pioneer and Sony DVD/HDD recorders (DVRs).

### Note

- You can control a BD player in the DVD/DVR mode.
- The DVD player, DVD/HDD recorder (DVR) or BD player cannot be selected at the same time.



### VCR control buttons

When in the VCR mode, the buttons on the remote control unit function as below.

- 1 **0 to 9**  
Function as the numeric buttons.
- 2 **P+/P-**  
Press to select channels of the TV tuner on the VCR.
- 3 **|| (PAUSE/STILL)**  
Sets pauses and still pictures.
- 4 **● (REC)**  
Starts recording.
- 5 **SOURCE**   
Turns the power of the VCR on and off.
- 6 **■ (STOP)**  
Stops tape transport.
- 7 **▶ (PLAY)**  
Starts playback.
- 8 **▶▶ (FF)**  
Rapidly advances the tape and allows picture search.
- 9 **◀◀ (REW)**  
Rewinds the tape and allows picture search.

## Chapter 11 Using the HDMI Control

### Using the HDMI Control functions

You can operate such Pioneer devices as a recorder, player or AV system that support the HDMI Control functions using the remote control of the plasma television.

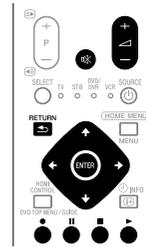
The HDMI Control functions include playback of content using on-screen control panel on the plasma television, recording of a TV program while watching, timer recording using a program list on the connected recorder, and confirmation of timer recording registered in the recorder. For details, see the table below.

#### Note

- Maximum number of devices that can be connected and controlled using the remote control unit of the plasma television is as follows: recorder x 2, player x 2, AV system x 1.
- Not all device operations may be available for HDMI Control functions.

#### HDMI Control functions

Function	Description	Usable devices
<b>Playback of content</b>	The proper input source is automatically selected and the content is played back on the plasma television as you press PLAY on the connected device	Recorder/ player
<b>On-screen control</b>	Recorder/player operation can be controlled on-screen or with the remote control unit of the plasma television (play, stop, fast forward/reverse, etc.)	Recorder/ player
<b>Recording of TV program</b>	The program now watching can be recorded using the remote control unit of the plasma television	Recorder
<b>Timer recording</b>	Timer recording using a program list on the recorder connected	Recorder
<b>Confirmation of recording schedule</b>	Recording schedule registered in the recorder can be displayed and confirmed on the screen using the remote control unit of the plasma television	Recorder
<b>Display Language Setup</b>	Information on the display menu language is transferred to the recorder or player connected to the plasma television. For details, see the operation manual that came with the recorder or player.	Recorder/ player
<b>AV system control</b>	Receiver/amplifier operation can also be controlled with the remote control unit of the plasma television (volume, surround mode and input selection of the HDMI terminal)	AV system
<b>Power On</b>	The connected recorder can be turned On when the plasma television is turned On. The plasma television can be turned On when the connected recorder(s) or player(s) is turned On and images are input to the plasma television.	Recorder/ player
<b>Power Off</b>	The connected device(s) can be turned Off when the plasma television is turned Off	Recorder/ player/AV system



- Press  $\triangle$  /  $\nabla$  or  $\times$  to adjust volume for the AV system.
- Press  $\uparrow$ ,  $\downarrow$ ,  $\leftarrow$ ,  $\rightarrow$ , **ENTER**, **RETURN** ( $\rightarrow$ ) or color (**BLUE**, **RED**, **YELLOW**, **GREEN**) buttons to use functions such as the disc navigator on the connected recorder or player.

#### Note

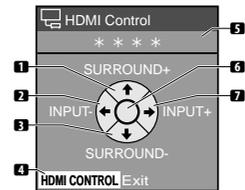
- When using the HDMI Control functions, operate the remote control unit while pointing it toward the remote control sensor (SR) located at the bottom right of the front panel of the plasma television.
- You cannot use two or more HDMI terminals at the rear of the plasma television at the same time except "Power Off" and "Display Language Setup" functions.

## Using the HDMI Control

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### On-screen control panel

#### For an AV system



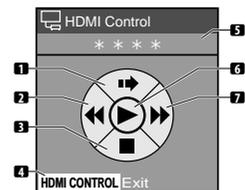
- 1 Switches the surround mode in order
- 2 Switches the input source in reverse order
- 3 Switches the surround mode in reverse order
- 4 Closes the screen to return to the HDMI Control menu
- 5 Displays the model number of the connected device
- 6 Void
- 7 Switches the input source in order

Press **↑** or **↓** on the remote control unit of the plasma television to switch the surround mode in order or in reverse order, **←** or **→** to switch the input source in order or in reverse order. Pressing **HDMI CONTROL** turns the control panel screen off to return to the HDMI Control menu.

#### Note

- You cannot operate the recorder/player when you press **←** or **→** to switch the input source during operation. To resume the operation, return to the HDMI Control menu and select the desired function again.

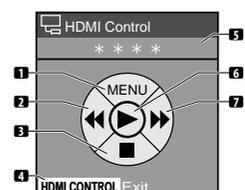
#### For a recorder



- 1 Skips commercials
- 2 Fast reverse
- 3 Stops playback
- 4 Closes the screen to return to the HDMI Control menu
- 5 Displays the model number of the connected device
- 6 Starts playback
- 7 Fast forward

Press **←** or **→** on the remote control unit of the plasma television to select fast reverse or fast forward mode, **↑** to skip commercials or **↓** to stop playback. Pressing **ENTER** starts playback and **HDMI CONTROL** turns the control panel screen off to return to the HDMI Control menu.

#### For a player



- 1 Displays the DVD disc menu or Blu-ray disc's pop-up menu on the player
- 2 Fast reverse
- 3 Stops playback
- 4 Closes the screen to return to the HDMI Control menu
- 5 Displays the model number of the connected device
- 6 Starts playback
- 7 Fast forward

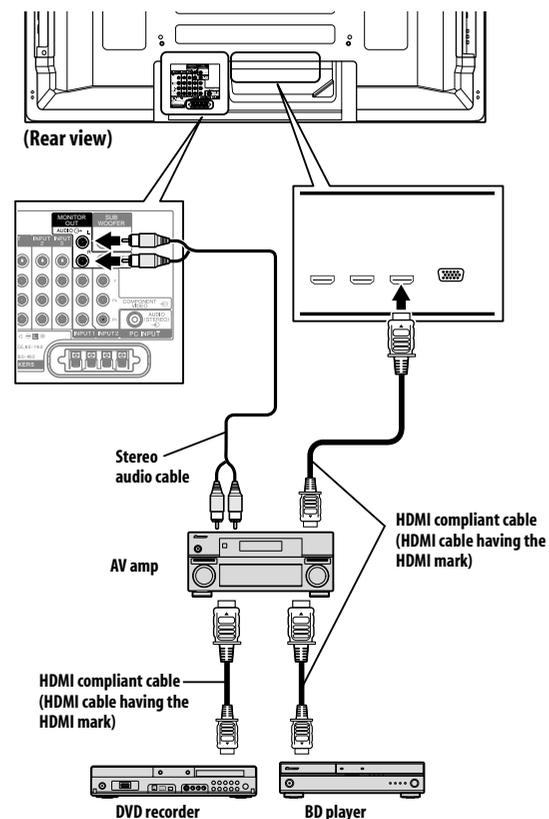
Press **←** or **→** on the remote control unit of the plasma television to select fast reverse or fast forward mode, **↑** to display the DVD disc menu or Blu-ray disc's pop-up menu on the player or **↓** to stop playback. Pressing **ENTER** starts playback and **HDMI CONTROL** turns the control panel screen off to return to the HDMI Control menu.

### Making the HDMI Control connections

When you make changes in connections between the plasma television and the device(s) that supports the HDMI Control functions or settings for the "HDMI Control Setting", perform the following procedure:

- 1 Turn on the plasma television and all the connected devices.
- 2 Confirm that the setting in "Input Setting" for "HDMI Control Setting" is properly entered according to the connected devices. Also confirm the HDMI Control related settings in the connected devices.
- 3 Switch to the HDMI input terminals to which the devices are connected to check if audio and video images are properly output and displayed.
- 4 Try turning off the plasma television, then turn the power back on to the plasma television.

#### Connecting an AV amp/DVD recorder/BD player



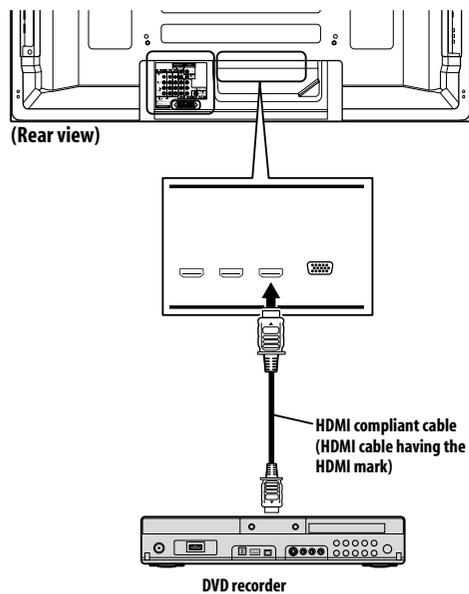
The PDP-508XG/PDP-428XG does not support S/PDIF. When connecting the plasma television to an AV system, use the MONITOR OUT terminal.

English

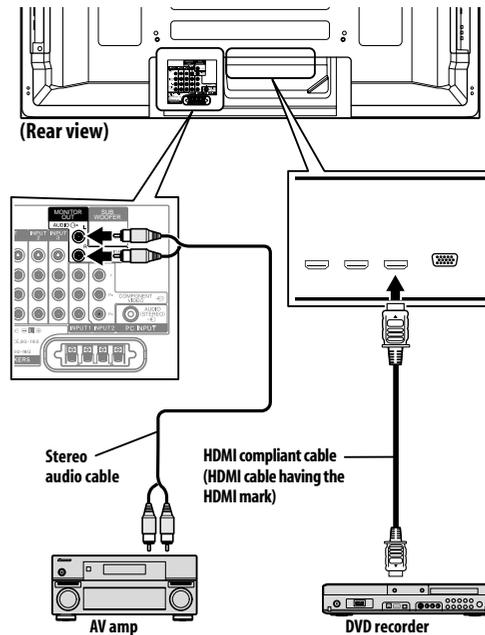
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## Connecting a DVD recorder


 **Note**

- Maximum number of devices that can be connected and controlled using the remote control unit of the plasma television is as follows: recorder x 2, player x 2, AV system x 1.
- When connecting an AV system, be sure to place and connect it between the plasma television and recorder or player.
- Do not connect an AV system that does not support the HDMI Control functions between the plasma television and a recorder/player, otherwise the HDMI Control functions may not operate properly.
- When connecting an AV system that does not support the HDMI Control functions and a player/recorder that supports the HDMI Control functions to the plasma television, connect the AV system to the MONITOR OUT terminal on the plasma television using a stereo audio cable, and the recorder/player to the HDMI terminal using an HDMI compliant cable (see the illustration).
- HDMI Control may not operate properly if you do not use an HDMI cable that supports the HDMI 1.3 Specification.



- After making connections, enter the setting in "Input Setting" for "HDMI Control Setting". Be sure that the setting is entered in each HDMI input terminal to which the device is connected.
- Settings in the connected device(s) are also required to use the HDMI Control functions. For details, see the operation manual that came with the connected device(s).
- When a recorder is connected, its power is automatically switched on as the plasma television is turned On to help make the recording smoother.
- For more information on the devices that support the HDMI Control functions, check the Pioneer Web site (see back cover).

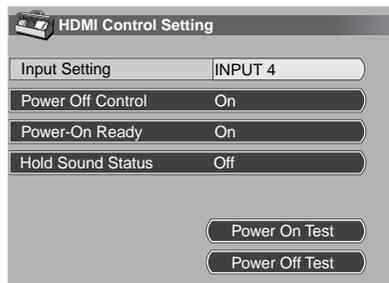
## Using the HDMI Control

### Setting the HDMI Control

#### Selecting the input terminal

Select the HDMI terminal to which the external device is connected in order to use the HDMI Control functions.

- 1 Press HOME MENU.
- 2 Select "Option" (↑/↓ then ENTER).
- 3 Select "HDMI Control Setting" (↑/↓ then ENTER).



- 4 Select "Input Setting" (↑/↓ then ENTER).
- 5 Select "INPUT 3", "INPUT 4" or "INPUT 5" (↑/↓ then ENTER).

Only the device that supports the HDMI Control and is connected through the selected INPUT terminal is available for the HDMI Control functions.

- 6 Press HOME MENU to exit the menu.

#### Note

- "INPUT 3" can only be selected when "Enable" has been selected for the "HDMI Input" menu (see *Activating the INPUT 3 HDMI terminal* on page 46).
- If you have selected "Off" in step 5, a message "Operations cannot be carried out. Confirm the HDMI control settings." appears when **HDMI CONTROL** is pressed on the remote control unit.
- If you operate an HDMI supported device(s) using an HDMI terminal other than the terminal selected in "Input Setting", a malfunction may occur. When connecting to any HDMI terminals other than the terminal selected in "Input Setting", make sure to enter the settings of the external device(s) so that the HDMI Control function does not operate.

#### Selecting the Power Off Control

You can select whether or not the connected device is turned Off when the plasma television is turned Off. (factory default is "On")

- 1 Repeat steps 1 to 3 in *Selecting the input terminal*.
- 2 Select "Power Off Control" (↑/↓ then ENTER).
- 3 Select "On" (↑/↓ then ENTER).
- 4 Press HOME MENU to exit the menu.

#### Note

- The "Power Off Control" function is valid for the devices connected to any of HDMI terminals at the rear of the plasma television.

#### Selecting the Power-On Ready

You can select whether or not the plasma television is turned On when the connected Pioneer recorder or player is turned On and images are input to the plasma television. (factory default is "On")

- 1 Repeat steps 1 to 3 in *Selecting the input terminal*.
- 2 Select "Power-On Ready" (↑/↓ then ENTER).
- 3 Select "On" (↑/↓ then ENTER).
- 4 Press HOME MENU to exit the menu.

#### Selecting the Hold Sound Status

You can select whether or not the function is held for the connected Pioneer AV system even if the system is placed into standby during HDMI Control operations. (factory default is "Off")

- 1 Repeat steps 1 to 3 in *Selecting the input terminal*.
- 2 Select "Hold Sound Status" (↑/↓ then ENTER).
- 3 Select "On" (↑/↓ then ENTER).
- 4 Press HOME MENU to exit the menu.

#### Power On/Off Test

You can confirm if the Power On/Off control function is effective between the plasma television and the connected device.

- 1 Repeat steps 1 to 3 in *Selecting the input terminal*.
- 2 Select "Power On Test" or "Power Off Test" (↑/↓ then ENTER).  
A list containing devices appears when multiple HDMI devices are connected to the HDMI terminals.
- 3 Select the desired device (↑/↓ then ENTER).
- 4 Press HOME MENU to exit the menu.

#### Note

- Devices that can be checked for Power On/Off Test are those connected to HDMI terminals as set in "Input Setting".
- If the Power On/Off Test fails, check for the connection and setting.

## 11 Using the HDMI Control

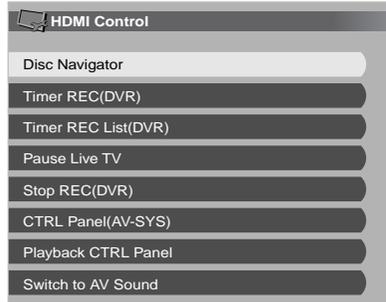
### Using the HDMI Control menus

You can enjoy various functions with the connected Pioneer recorder, player or AV system that supports the HDMI Control functions by selecting and using the corresponding HDMI Control menus.

#### 1 Press HOME MENU.

#### 2 Select "HDMI Control" (↑/↓ then ENTER).

The HDMI Control menu is displayed.

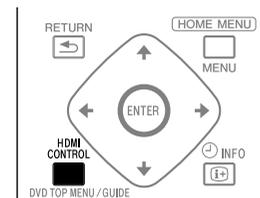


### HDMI Control menu

Item	Description
<b>Disc Navigator</b>	Displays a title list of the connected recorder or player
<b>Timer REC (DVR)</b>	Displays a timer recording list of the connected recorder
<b>Timer REC List (DVR)</b>	Displays a timer recording list of the connected recorder
<b>Pause Live TV</b>	Starts recording of the current TV channel when a recorder is connected, but with playback paused, effectively pausing the broadcast
<b>Stop REC (DVR)</b>	Stops recording for the connected recorder
<b>CTRL Panel (AV-SYS)</b>	Displays the control panel for the connected AV system on the plasma television
<b>Playback CTRL Panel</b>	Displays the control panel for the connected recorder or player on the plasma television
<b>Switch to AV Sound (Switch to PDP Sound)</b>	Switches between the plasma television and the connected AV system to which sound is output

#### Note

- To use the HDMI Control functions, a Pioneer recorder, player or AV system that supports the HDMI Control functions is required.
- Not all operations may be controlled for the connected devices.
- The HDMI Control menu is not selectable when "Off" is selected in "Input Setting" for the "HDMI Control Setting" menu.
- Even when the program being recorded is over, recording is not automatically stopped on the Pause Live TV menu.
- The CTRL Panel (AV-SYS) menu is only available when the sound is output from the AV system.
- The Playback CTRL Panel menu is selectable when the connected recorder or player is ready to operate.
- You can also display the HDMI Control menu by pressing **HDMI CONTROL** on the remote control unit of the plasma television.



## Chapter 12 Using Teletext

### Using the Teletext Functions

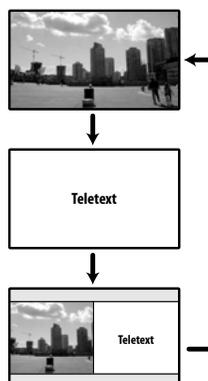
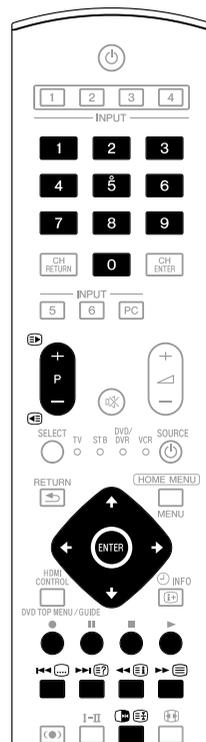
#### What is Teletext?

Teletext broadcasts pages of information and entertainment to specially equipped television sets. Your plasma television receives Teletext signals broadcast by TV networks, and decodes them into graphical format for viewing. News, weather and sports information, stock exchange prices and program previews are among many services available.



#### Important

- Displaying Teletext pages for a long period of time, or for shorter periods of time everyday, may result in image retention.



### Operating the Teletext basics

#### Turning on and off Teletext

- 1 Select a TV channel or external input source providing a Teletext program.
- 2 Press to display the Teletext (full screen).
- 3 Press again to display the Teletext on the right screen and normal image on the left screen.
  - Each time you press , the screen switches as shown to the left.
  - If you select a program with no Teletext signal, "Cannot display Teletext." appears.

#### Selecting and operating Teletext pages

Use the following remote control buttons to select and operate Teletext pages.

#### Color (RED/GREEN/YELLOW/BLUE):

You can select a group or block of pages displayed in the colored brackets at the bottom of the screen by pressing the corresponding color (RED/GREEN/YELLOW/BLUE) on the remote control unit.

#### 0 to 9:

Directly select any page from 100 to 899 by using **0 to 9**.

#### /

Press to increase the page number.

Press to decrease the page number.

#### 

To display hidden information such as an answer to a quiz, press .

Press again to hide the information.

#### 

To stop updating Teletext pages, press .

Press again to release the hold mode.

#### 

Displays an Index page for the CEEFAX/FLOF format. Displays a TOP Over View page for the TOP format.



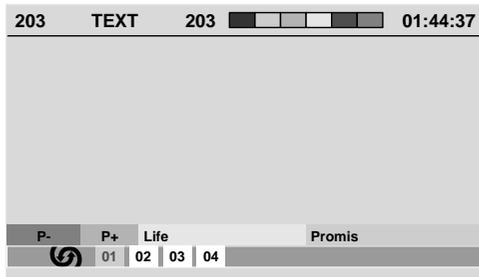
#### Note

- Before displaying the Teletext, return the screen to the single-screen mode.

## 12 Using Teletext

### Displaying subpages

You can display several subpages as they are transmitted.



- 1 Press to display Teletext.
  - If you open a page containing subpages, the subpages are automatically displayed in sequence.
- 2 To quit automatic subpage change, press .
  - You can then manually change subpages by pressing .

#### Note

- Pressing / causes the page to be changed and the subpage screen to disappear.
- Pressing stops automatic subpage change and performs its respective button function.

### Displaying TOP Over View

When receiving TOP Teletext, you can read a TOP text overview.



- 1 Press to display Teletext.
- 2 While receiving TOP Teletext, press to display TOP Over View.
- 3 Press and to select the desired block or group pages, and then press ENTER.

### Displaying subtitle pages

You can display several subtitles as they are transmitted.

- 1 Press to display the subtitle.
 

Subtitle is updated by the information sent by the broadcasting station.
- 2 Press again to access next available subtitle screen.

## Chapter 13 Additional information

### Troubleshooting

Problem	Possible solution
<b>GENERAL</b>	
<ul style="list-style-type: none"> <li>• <b>No power.</b></li> <li>• <b>System cannot be switched on.</b></li> </ul>	<ul style="list-style-type: none"> <li>• Is the power cord disconnected? (See page 17.)</li> <li>• Has  on the plasma television been turned on? (See page 19.)</li> <li>• Check if you pressed buttons <b>0</b> to <b>9</b> or  on the remote control unit. (See page 19.)</li> <li>• If the indicator on the system lights up red, press <b>0</b> to <b>9</b> or  on the remote control unit or <b>STANDBY/ON</b> on the plasma television.</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Power is suddenly turned off.</b></li> </ul>	<ul style="list-style-type: none"> <li>• The system's internal temperature has increased. Remove any objects blocking vent or clean. (See page 15.)</li> <li>• Check the power control setting. (See page 34.)</li> <li>• Check the sleep timer setting. (See page 40.)</li> </ul>
<ul style="list-style-type: none"> <li>• <b>The system cannot be operated.</b></li> </ul>	<ul style="list-style-type: none"> <li>• External influences such as voltage malfunction, static electricity, etc., may cause improper operation. In this case, operate the system after unplugging the power cord and re-plugging it in after one or two minutes.</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Remote control unit does not operate.</b></li> </ul>	<ul style="list-style-type: none"> <li>• Is the TV indicator on the remote control unit lighted? Press <b>SELECT</b> on the remote control unit to select the TV mode.</li> <li>• Are batteries inserted with polarity (+, -) aligned? (See page 18.)</li> <li>• Are batteries worn out? Replace with new batteries. (See page 18.)</li> <li>• Operate the remote control unit while pointing it toward the remote control sensor on the plasma television. (See page 18.)</li> <li>• Are you using it under strong or fluorescent lighting?</li> <li>• Is a fluorescent light illuminated to remote control sensor?</li> <li>• Check if any obstacles exist between the remote control unit and the remote control sensor.</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Panel sounds /noises.</b></li> </ul>	<ul style="list-style-type: none"> <li>• Panel generated sounds—for example, fan motor noise, electrical circuit humming, glass panel buzzing—are normal operation of a phosphor-based matrix display.</li> <li>• When you change the Energy Save mode, you may notice a change in the panel sound. This is normal.</li> </ul>
<b>PICTURE/SOUND</b>	
<ul style="list-style-type: none"> <li>• <b>Screen appears dark</b></li> </ul>	<ul style="list-style-type: none"> <li>• Check if any obstacles exist in front of the Room Light Sensor. (See pages 12 and 39.)</li> </ul>
<ul style="list-style-type: none"> <li>• <b>No image and audio is presented.</b></li> </ul>	<ul style="list-style-type: none"> <li>• Check if the input source for video or PC has been unintentionally selected although you want to watch a TV channel. (See page 20.)</li> <li>• Check if you have selected a channel blocked with Child Lock. (See page 26.)</li> <li>• Enter a password to temporarily cancel Child Lock. (See page 40.)</li> <li>• Check the cable connection with the antenna. (See page 16.)</li> <li>• Check the cable connection with the other equipment. (See pages 42 to 47.)</li> </ul>
<ul style="list-style-type: none"> <li>• <b>No picture.</b></li> </ul>	<ul style="list-style-type: none"> <li>• Is connection to other components correct? (See pages 42 to 47.)</li> <li>• Is a non-compatible PC signal being input? (See page 44.)</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Audio is output but no image is presented.</b></li> </ul>	<ul style="list-style-type: none"> <li>• Check if you have selected "Picture Off" for Energy Save. With this option selected, the screen is deactivated: only sound is output. To restore the screen display, press any button other than  (Sound Effect),  +/  - or  (See page 34).</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Images are presented but no audio is output.</b></li> </ul>	<ul style="list-style-type: none"> <li>• Check if you have selected the minimum volume. (See page 20.)</li> <li>• Check that no headphones are connected.</li> <li>• Check that the sound is not muted. (See page 20.)</li> <li>• Check that the audio input is also connected. (See pages 42 to 44.)</li> <li>• Check the sound system selected for a TV channel where problems have occurred (see page 21). Reselect the correct sound system.</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Sound is reversed between the right and left speakers.</b></li> <li>• <b>Sound is output from only a single speaker.</b></li> </ul>	<ul style="list-style-type: none"> <li>• 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 (for PDP-508XG only). (See page 13.)</li> <li>• Has the balance been correctly adjusted? (See page 33.)</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Picture is cut off.</b></li> </ul>	<ul style="list-style-type: none"> <li>• Is the image position correct? (See page 36.)</li> <li>• Has the correct screen size been selected? (See page 37.)</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Strange color, light color, dark or color misalignment.</b></li> </ul>	<ul style="list-style-type: none"> <li>• Adjust the picture tone. (See pages 28 to 31.)</li> <li>• Is the room too bright? The picture may look dark in a room that is too bright.</li> <li>• Check the color system setting. (See page 37.)</li> </ul>

Problem	Possible solution
<ul style="list-style-type: none"> <li>• <b>After-image lag.</b></li> </ul>	<ul style="list-style-type: none"> <li>• After displaying a still image or a very bright image for a certain period of time, if the screen is then switched to a darker scene, the previous image may appear as an after-image.</li> <li>• This can be rectified by playing a rather bright moving image for several minutes. However, displaying a still image for excessively long periods of time may cause permanent display deterioration.</li> <li>• To help eliminate after-image when it occurs, display the "Video Pattern" screen. (See page 40.)</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Brightness and color tone on both sides differ from those in the center in 4:3 mode.</b></li> </ul>	<ul style="list-style-type: none"> <li>• If images in 4:3 mode or letterbox images are displayed for long periods or for shorter periods over several days, an after-image may remain due to burning. This is a characteristic of plasma televisions.</li> <li>• We recommend that you enjoy watching images in a full screen mode as much as possible. (See page 37.)</li> <li>• When watching images in 4:3 mode, we recommend you select "Auto" for the Side Mask setting. This adjusts the brightness of the gray side masks according to the brightness of the main image. (See page 39.)</li> </ul>
<b>HDMI Control</b>	
<ul style="list-style-type: none"> <li>• <b>HDMI Control functions do not operate.</b></li> </ul>	<ul style="list-style-type: none"> <li>• Check if the connections are properly made between the plasma television and the device that supports the HDMI Control functions. (See page 57.)</li> <li>• HDMI Control may not operate properly if you do not use an HDMI cable that supports the HDMI 1.3 Specification.</li> <li>• Check if you have entered the settings properly for "HDMI Control Setting". (See page 59.)</li> <li>• Check if the settings for the HDMI Control functions are effective on the connected device(s). For details, refer to the operation manual that came with the device.</li> </ul>
<ul style="list-style-type: none"> <li>• <b>No image and audio is presented.</b></li> </ul>	<ul style="list-style-type: none"> <li>• Check if the connections are properly made between the plasma television and the device that supports the HDMI Control functions. (See page 57.)</li> <li>• Check if you have entered the settings properly for the HDMI Control Setting. (See page 59.)</li> </ul>
<ul style="list-style-type: none"> <li>• <b>No picture</b></li> </ul>	<ul style="list-style-type: none"> <li>• Check if the connections are properly made between the plasma television and the device that supports the HDMI Control functions. (See page 57.)</li> <li>• Check if you have entered the settings properly for "HDMI Control Setting". (See page 59.)</li> </ul>
<ul style="list-style-type: none"> <li>• <b>No sound</b></li> </ul>	<ul style="list-style-type: none"> <li>• Check if the connections are properly made between the plasma television and the device that supports the HDMI Control functions. (See page 57.)</li> <li>• Check if you have entered the settings properly for "HDMI Control Setting". (See page 59.)</li> </ul>
<ul style="list-style-type: none"> <li>• <b>An error message "The device cannot be operated. Please check the connection." appears.</b></li> </ul>	<ul style="list-style-type: none"> <li>• Check if the connections are properly made between the plasma television and the device that supports the HDMI Control functions. (See page 57.)</li> <li>• Check if you have entered the settings properly for "HDMI Control Setting". (See page 59.)</li> </ul>
<b>OTHER</b>	
<ul style="list-style-type: none"> <li>• <b>POWER ON indicator or STANDBY indicator is quickly flashing.</b></li> </ul>	<ul style="list-style-type: none"> <li>• Internal protective circuits may have been activated. First turn off  on the plasma television, and then turn the power on by pressing  again after waiting one minute or more. If the indicator is still flashing, unplug the plasma television's power cord from the power outlet. Wait one to two minutes then plug in the plasma television again. If this does not solve the problem, contact a Pioneer Service Center or Pioneer Authorized Independent Service company. These are listed on your warranty card for each country or region.</li> </ul>
<ul style="list-style-type: none"> <li>• <b>An external device connected to the USB terminal does not operate.</b></li> </ul>	<ul style="list-style-type: none"> <li>• Check if the device is connectable to the display. (See page 48.)</li> <li>• Re-insert the USB cable. (See page 48.)</li> <li>• For connection, use a USB cable shorter than 5 m. (See page 48.)</li> <li>• Check if the USB cable is properly connected. (See page 48.)</li> <li>• First turn off  on the plasma television and then turn it on again in order to check if the external device works correctly.</li> <li>• Check if the external device works correctly after the USB device was restarted.</li> <li>• Check if the digital still camera is in the viewing mode.</li> <li>• Refer to the instruction manual for the digital still camera.</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Photo data stored in digital still cameras cannot be read through the USB interface.</b></li> </ul>	<ul style="list-style-type: none"> <li>• Check if the device is connectable to the display. (See page 48.)</li> <li>• Check if the digital still camera turns on.</li> </ul>

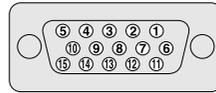
If the following error codes appear on the screen, check the corresponding items in the table.

Code	Message	Check
SD04 and SD11	Powering off. Internal temperature too high. Check temperature around PDP.	Check if the ambient temperature of the plasma television is high.
SD05	(PDP-508XG) Internal protection circuit turns power off. Is there a short in the speaker cable? (PDP-428XG) Internal protection circuit turns power off.	Check the speaker cable connections between the plasma television and the speakers.  Contact a Pioneer Service Center or Pioneer Authorized Independent Service company. These are listed on your warranty card for each country or region.

## Additional information

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### Signal assignments for 15-pin D-sub connector



English

Pin No.	Signal assignment	Pin No.	Signal assignment
1	R	9	+5 V
2	G	10	GND (ground)
3	B	11	Not connected
4	Not connected	12	SDA
5	Not connected	13	HD
6	GND (ground)	14	VD
7	GND (ground)	15	SCL
8	GND (ground)		

### Standard channel allocation selections for countries and regions

Region	Standard channel allocation	Region	Standard channel allocation
Taiwan	Air (US Type)*	Mexico	Air (US Type)*
Hong Kong	General	Chile	Air (US Type)*
Philippines	Air (US Type)*	Brazil	Air (US Type)*
Thailand	General	Australia	General
Malaysia	General	New Zealand	General
Singapore	General	Egypt	General
Indonesia	General	South Africa	General
Saudi Arabia	General	Colombia	Air (US Type)*
Israel	General	Peru	Air (US Type)*
Lebanon	General	Venezuela	Air (US Type)*
United Arab Emirates	General		

\* When receiving signals from a cable TV company, select "Cable (US Type)" for "Channel Allocation". See *Setting up TV channels automatically* on page 25.

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En

## 13 Additional information

### Specifications

Item		50" plasma television, model: PDP-508XG	42" plasma television, model: PDP-428XG	
Number of pixels		1365 x 768 pixels	1024 x 768 pixels	
Audio amplifier		17 W + 17 W (1 kHz, 10 %, 6 Ω)		
Speakers		–	Woofer: 4.8 cm x 13 cm cone type Tweeter: 2.5 cm semidome type	
Sound Effect		SRS FOCUS/SRS/SRS TruBass		
Power Requirements		110 V to 240 V AC, 50 Hz/60 Hz, 366 W (0.2 W Standby/110 V AC)	110 V to 240 V AC, 50 Hz/60 Hz, 298 W (0.2 W Standby/110 V AC)	
Weight		34.6 kg (76.3 lbs.)	29.6 kg (65.3 lbs.)	
Color System		PAL/SECAM/NTSC/4.43 NTSC/PAL-M/PAL-N		
TV Function	Receiving System	PAL: B/G, D/K, I SECAM: B/G, D/K NTSC: M/N		
	Tuner	VHF/UHF	44.25 MHz to 863.25 MHz	
		CATV	Hyper-band, S1 ch to S41ch	
	Auto Channel Preset	99 ch (General), 68 ch (Air, US Type), 125 ch (Cable, US Type), Auto Preset		
	Audio multiplex	NICAM/A2/BTSC System		
Terminals	Rear	INPUT 1	COMPONENT VIDEO in, S-VIDEO in, AV in	
		INPUT 2	COMPONENT VIDEO in, S-VIDEO in, AV in	
		INPUT 3	S-VIDEO in, AV in, HDMI in*1	
		INPUT 4	HDMI in*1	
		INPUT 5	HDMI in*1	
		PC INPUT	Analog RGB, Audio in	
		CONTROL OUT	1	
		MONITOR OUT	AV out	
		SUBWOOFER	Variable	
		SPEAKERS	6 Ω to 16 Ω	–
	Antenna	75 Ω Din Type for VHF/UHF in		
	Side	INPUT 6	S-VIDEO, AV in	
		USB	USB in*2	
		PHONES	16 Ω to 32 Ω recommended	

\*1 This conforms to HDMI1.3 and HDCP1.1. HDMI (High-Definition Multimedia Interface) is a digital interface that handles both video and audio using a single cable. HDCP (High-bandwidth Digital Content Protection) is a technology used to protect copyrighted digital contents that use the Digital Visual Interface (DVI).

\*2 This conforms to USB1.1 and 2.0 specifications.

*Design and specifications are subject to change without notice.*

### Trademarks

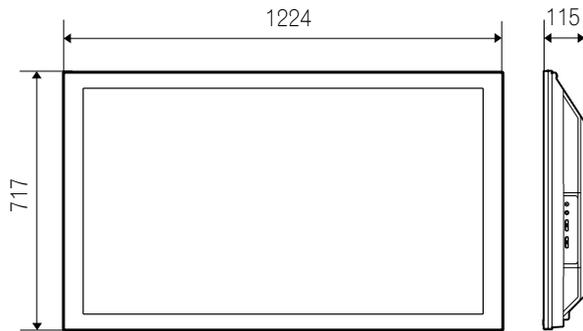
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**Additional information**

**Dimensions**

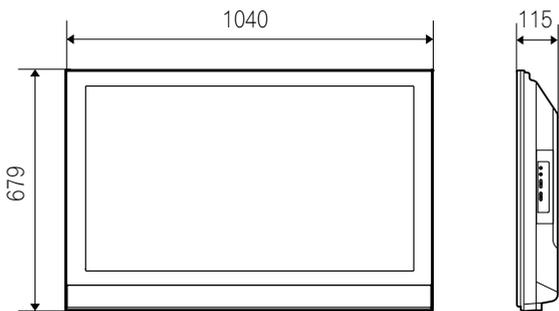
**PDP-508XG**

**Unit: mm**



**PDP-428XG**

**Unit: mm**



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