

Pioneer

seeing and hearing like never before

OPERATING INSTRUCTIONS

PDP-LX609A

PDP-LX509A

PDP-C509A

KURO
FLAT SCREEN TV

FLAT SCREEN TV

To use your flat screen TV 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 your flat screen TV, 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 programmes 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 programmes 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 flat screen TV 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 "Mode 1" (⇒ see *Useful adjustment settings: "Orbiter"*).
- When **viewing programmes 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 "Mode 1" or "Mode 2" (⇒ 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"*).
- It is recommended to set the Screen Protection function to "Yes" (⇒ see *Useful adjustment settings: "Screen Protection"*).

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  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).

D3-4-2-2a_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_B_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 14.

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.

WARNING

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

D3-4-2-3-3_En

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-LX509A unless otherwise specified.

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Chapter 1

Important user information

In order to obtain maximum enjoyment from this Pioneer PDP-LX609A/PDP-LX509A/PDP-C509A flat screen TV, please first read this information carefully.

With the Pioneer PDP-LX609A/PDP-LX509A/PDP-C509A, you can be assured of a high quality flat screen TV with long-life and high reliability. To achieve images of exceptional quality, this Pioneer flat screen TV incorporates state-of-the-art design and construction, as well as very precise and highly advanced technology.

The Pioneer PDP-LX609A/PDP-LX509A/PDP-C509A flat screen TV incorporates the latest in colour filter technology; Direct Colour Filter. This improves the colour/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 display, 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-LX609A/PDP-LX509A/PDP-C509A flat screen TV 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 flat screen TV 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. Flat screen TVs 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 flat screen TV:

- Whenever possible, avoid frequently displaying the same image or virtually still moving pictures (e.g. closed-captioned images or video game images which have static portions).
- Do not display Teletext for a prolonged period of time.
- Avoid viewing the on-screen display for extended periods, from a decoder, DVD player, VCR and all other components.
- Do not leave the same picture freeze-framed or paused continuously over a long period of time, when using the still picture mode from a TV, VCR, DVD player or any other component.
- Images which have both very bright areas and very dark areas side by side should not be displayed for a prolonged period of time.
- When playing a video 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 or displaying 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 flat screen TV, always switch the display to "STANDBY" mode.

Installation guidelines

The Pioneer PDP-LX609A/PDP-LX509A/PDP-C509A flat screen TV incorporates a very thin design. To ensure safety, please take the proper measures to mount or install the flat screen TV, 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 responsible for accident or damage caused by the use of parts and accessories manufactured by other companies, inadequate installation or stabilisation, erroneous operation, remodeling or natural disasters.

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 14.
- 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.

Flat screen TV 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 flat screen TV 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 TVs display information using pixels. Pioneer flat screen TV panels contain a very large number of pixels (over 6.2 million pixels for a 50 inch/60 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 coloured pixel permanently fixed on the screen.

This effect is common to all plasma TVs 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 whilst viewing a normal broadcast (i.e. not a test card, still image or single colour display) please contact the supplying dealer.

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

Infrared rays

The flat screen TV releases infrared rays because of its characteristics.

Depending on how the flat screen TV is used, the remote controls of nearby equipment may be adversely affected or wireless headphones using infrared rays are interfered by noise. If this is the case, place that equipment at a location where its remote control sensor is not affected.

Radio interference

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

Flat screen TV driving sound

The screen of the flat screen TV 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 flat screen TV.

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

This may result in the discolouration or scratch of the cabinet.

When not using the product for a long period of time

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

Condensation

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

Cleaning the surface of the screen

When cleaning the screen surface, gently wipe it with the supplied dry cleaning cloth.



Caution

Rubbing hard on the screen can scratch the special film coating the surface. If cleaning gently with the dry cloth is not enough to remove grime, unplug the power cord from the outlet and follow the procedure below.

1. Soak a piece of soft, untreated cloth in distilled water.
A "treated" cloth contains polish or other chemicals, such as in a commercially available eyeglass cleaning towelette.
2. Wring out the cloth so that it is slightly damp, not wet.
Make sure to wring out the cloth completely. Cleaning the surface with a wet cloth can allow water to seep into the unit, causing damage.
3. Gently wipe the surface of the screen with the damp cloth.
4. Wipe the surface again using the dry cloth included with your panel to remove any remaining dampness and to prevent streaks.

Cleaning the glossy surface of the front cabinet

When cleaning 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, the surface of the product will be scratched.

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 plasticiser 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 flat screen TV

When moving the flat screen TV, ask another person for help and use the handles attached to the rear of the flat screen TV. Do not move the flat screen TV 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 motor noise

The rotation speed of the cooling fan motor increases when the ambient temperature of the flat screen TV 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 "Mode1" 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 flat screen TV 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

- To prevent damage from screen burning this flat screen TV will automatically - after a display time of 5 to 10 minutes - turn off those still images generated by the system itself: the Home Media Gallery function and Graphical User Interface elements such as HOME MENU and the Electronic Programme Guide.
- To prevent screen burning, the display position is automatically changed imperceptibly when watching flat screen TV (see *Orbiter* on page 43).

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 41).
- Set the Side Mask detection function to "Mode 1" or "Mode 2", 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 42).

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 display panel 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 panel 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 unauthorised parts can result in fire, electric shock and/or other danger.
19. Safety checks - Upon completion of service or repair work, request the service technician to perform safety checks to ensure that the product is in proper operating condition.
20. Wall or ceiling mounting - When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer.
21. Heat sources - Keep the product away from heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).
22. Unplug the power cord from the AC outlet before installing the speakers.
23. Never expose the screen of the flat screen TV 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 flat screen TV to direct sunlight for a long period of time. The optical characteristics of the front protection panel changes, resulting in discolouration or warp.
25. The flat screen TV weighs about 50.8 kg (112.0 lbs) for the PDP-LX609A and about 33.8 kg (74.6 lbs) for the PDP-LX509A/PDP-C509A. 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.

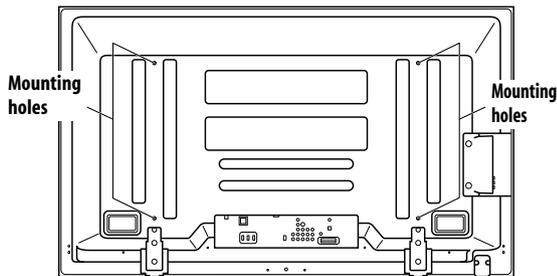
When using the optional stand, brackets, or equivalent items

- 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).

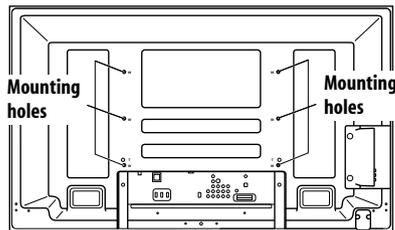
When using other items

- Consult your dealer.
- The following mounting holes can be used for the installation:

Rear view (PDP-LX609A)

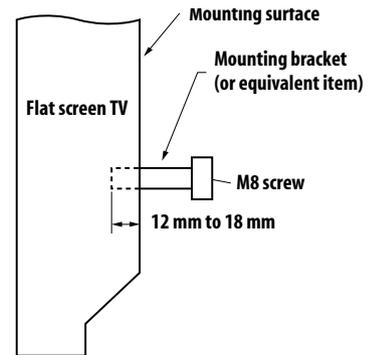


(PDP-LX509A/PDP-C509A)



(LAN (10/100) port is unavailable for PDP-C509A)

Side view



Caution

- Use M8 screws, which go 12 mm to 18 mm in depth from the mounting surface of the flat screen TV. See the side view shown to the right.
- Be careful not to block the ventilation opening at the rear of the flat screen TV.
- Be sure to install the flat screen TV on a flat surface because it contains glass.
- The screw holes other than the illustrations above are to be used only for the specified products. Never use them for mounting non-specified products.
- Do not mount or remove the flat screen TV to or from the stand, with speakers attached.

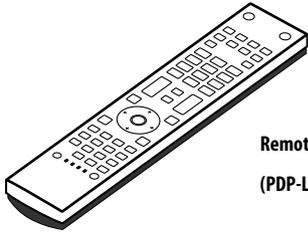
Note

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

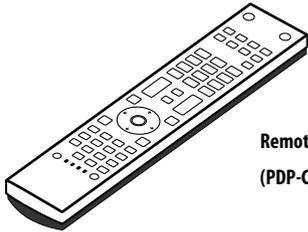
Chapter 3

Supplied accessories

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



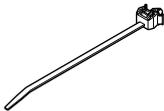
Remote control unit
(PDP-LX609A/PDP-LX509A)



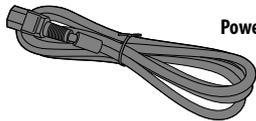
Remote control unit
(PDP-C509A)



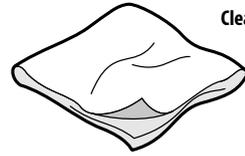
AA size battery x 2



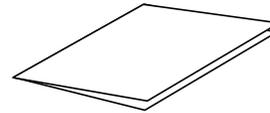
Cable clamp x 4



Power cord



Cleaning cloth



Warranty card



Operating instructions

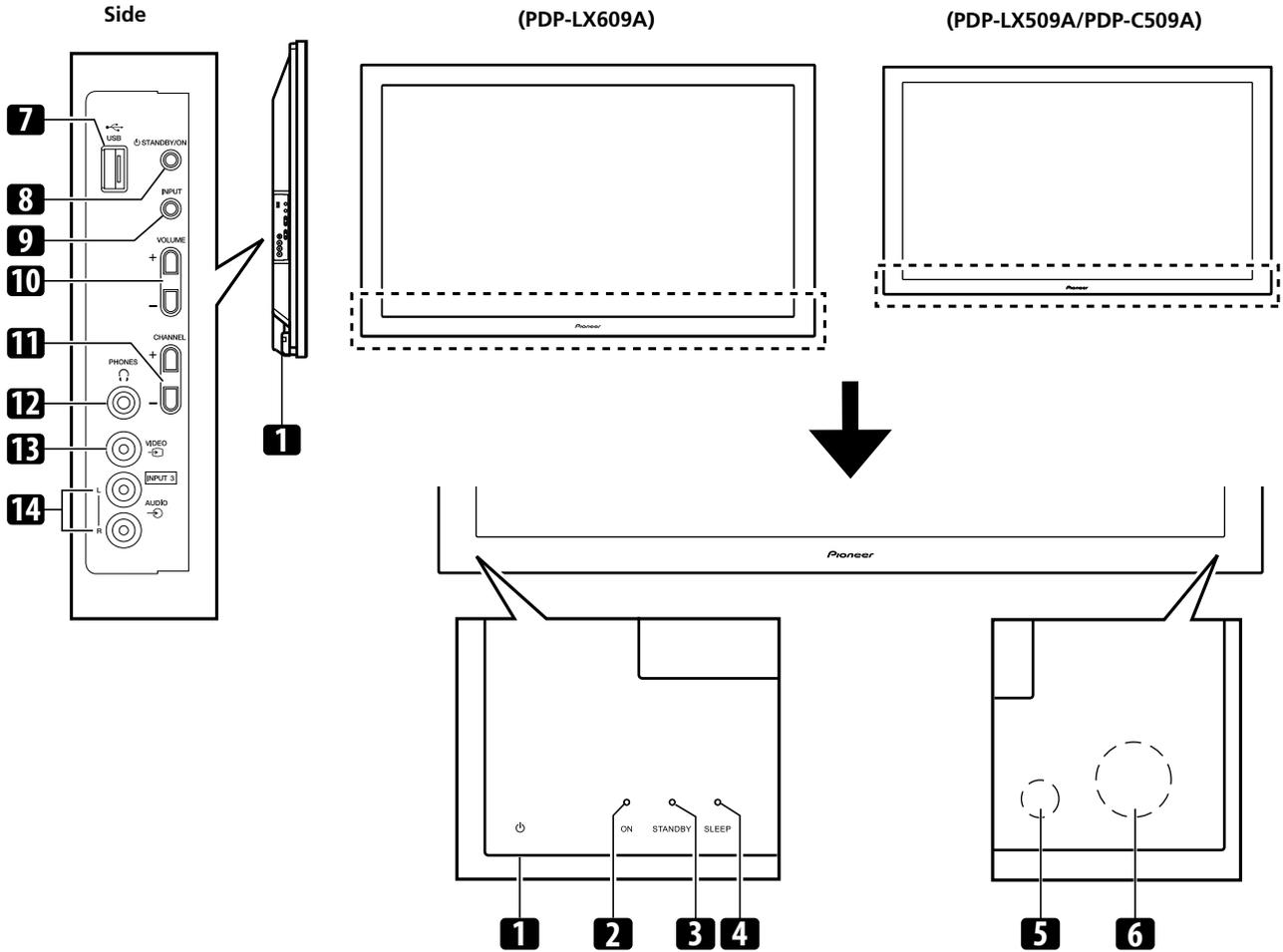


Ferrite core (black)
(PDP-LX609A/PDP-LX509A)

Chapter 4 Part names

Flat screen TV

(Front)

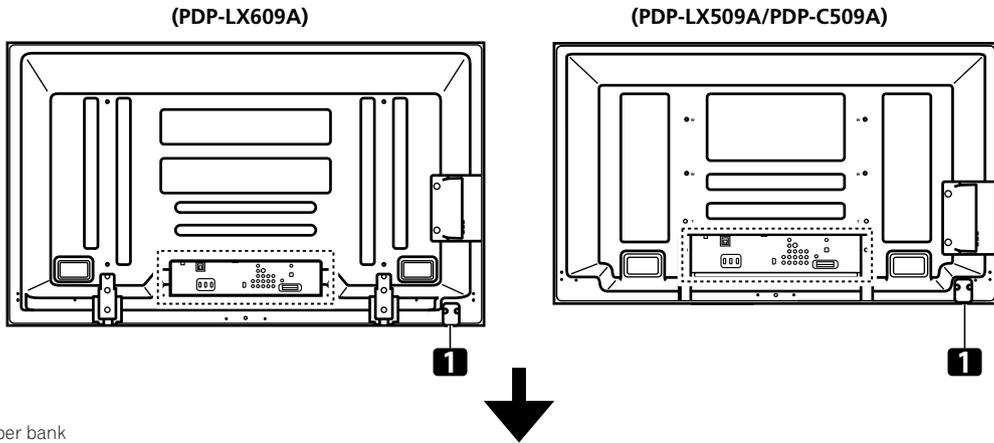


The terminals on the side panel are common to the PDP-LX609A, PDP-LX509A and PDP-C509A.

- | | |
|--|---|
| <p>1 Power On (⏻) button (This button is located at the bottom on the rear panel. (See 1 on page 12.) If the button is off, the power will not turn on even when TV ⏻, 0 to 9 on the remote control unit or STANDBY/ON on the flat screen TV is pressed. To turn on the power, press Power On (⏻).)</p> <p>2 Power ON indicator</p> <p>3 STANDBY indicator</p> <p>4 SLEEP indicator</p> <p>5 Room Light Sensor</p> <p>6 Remote control sensor</p> | <p>7 USB port (PDP-LX609A and PDP-LX509A, for the Home Media Gallery functions; PDP-C509A, used for service only)</p> <p>8 STANDBY/ON button</p> <p>9 INPUT button</p> <p>10 VOLUME +/- buttons</p> <p>11 CHANNEL +/- buttons</p> <p>12 PHONES output terminal</p> <p>13 INPUT 3 terminal (Video)</p> <p>14 INPUT 3 terminals (Audio)</p> |
|--|---|

Flat screen TV

(Rear)

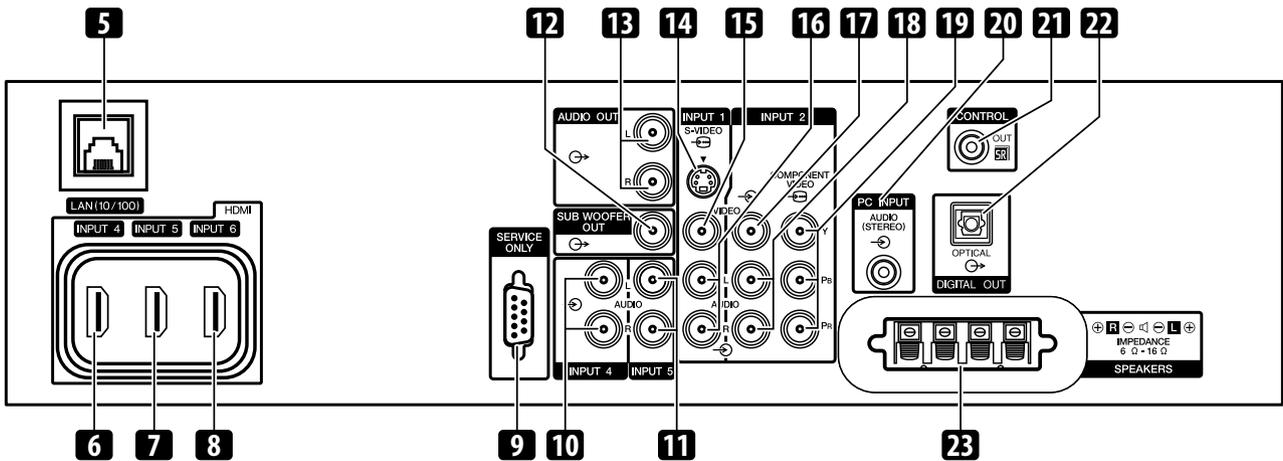


Terminals in upper bank



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

Terminals in middle bank

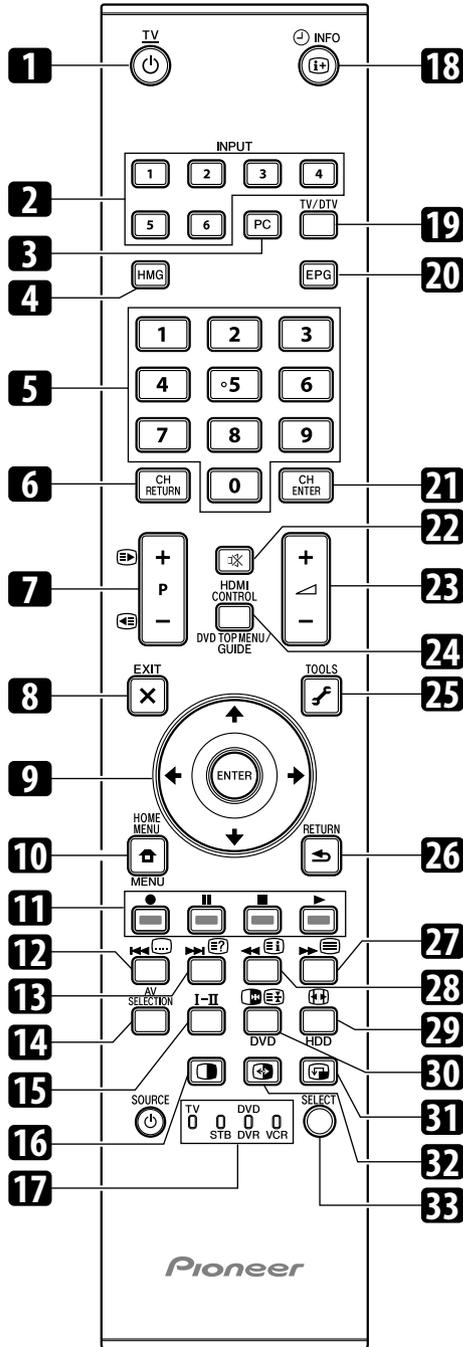


The terminals on the rear panel are common to the PDP-LX609A and PDP-LX509A (LAN (10/100) port is unavailable for PDP-C509A).

- | | |
|--|---|
| <p>1 Power On (⏻) button</p> <p>2 ANT (Antenna) input terminal</p> <p>3 PC INPUT terminal (Analogue RGB)</p> <p>4 AC IN terminal</p> <p>5 LAN (10/100) port (PDP-LX609A/PDP-LX509A only)</p> <p>6 INPUT 4 terminal (HDMI)</p> <p>7 INPUT 5 terminal (HDMI)</p> <p>8 INPUT 6 terminal (HDMI)</p> <p>9 RS-232C terminal (SERVICE ONLY) (used for factory setup)</p> <p>10 INPUT 4 terminals (Audio)</p> <p>11 INPUT 5 terminals (Audio)</p> <p>12 SUB WOOFER OUT terminal</p> <p>13 AUDIO OUT terminals</p> <p>14 INPUT 1 terminal (S-Video)</p> | <p>15 INPUT 1 terminal (Video)</p> <p>16 INPUT 1 terminals (Audio)</p> <p>17 INPUT 2 terminal (Video)</p> <p>18 INPUT 2 terminals (Audio)</p> <p>19 INPUT 2 terminals (COMPONENT VIDEO: Y, P_B, P_R)</p> <p>20 PC INPUT terminal (Audio)</p> <p>21 CONTROL OUT terminal</p> <p>22 DIGITAL OUT terminal (OPTICAL)</p> <p>23 SPEAKERS terminals (right/left)</p> <ul style="list-style-type: none"> • Do not connect any devices to the speaker terminals other than the speakers specified. • Do not leave speaker cable wires bare and exposed at the terminals. Exposed wires can result in an electrical short causing malfunction or damage to the system. |
|--|---|

Remote control unit

This section describes the functions of the buttons available when the TV mode has been selected by using the **SELECT** button. For the buttons controlling other equipment, see *Controlling other equipment using the supplied remote control unit* starting from page 63.



(for PDP-LX609A/PDP-LX509A)

- 4 HMG (Home Media Gallery, PDP-LX609A/PDP-LX509A only):** Displays the Home Media Gallery screen.
- 5 0 to 9:** TV/External input mode: Selects a channel.
Teletext mode: Selects a page.
Turns the power on when the STANDBY indicator lights red.
- 6 CH RETURN:** Returns to the previous channel.
- 7 P+/P-:** TV/External input mode: Selects a channel.
Teletext mode: Selects a page.
- 8 X EXIT:** Returns to the normal screen in one step.
- 9 ↑/↓/←/→:** Selects a desired item on the setting screen.
ENTER: Executes a command.
- 10 HOME MENU:** Displays the HOME MENU screen.
- 11 Colour (RED/GREEN/YELLOW/BLUE):**
Controls a BD player for HDMI Control functions only.
- 12 ...:** Jumps to Teletext subtitle page.
Turns subtitle on and off in DTV input mode depending on the broadcast.
- 13 ?:** Displays hidden characters.
- 14 AV SELECTION:** Selects audio and video settings.
(AV source: OPTIMUM, PERFORMANCE, DYNAMIC, MOVIE, SPORT, GAME, Standard. PC source: STANDARD, USER)
- 15 I-II:** Sets the sound multiplex mode.
- 16 [Screen Mode Icon]:** Switches the screen mode among 2-screen, picture-in-picture, and single-screen.
- 17 TV, STB, DVD/DVR, VCR:** These indicators show the current selection and status when you control other connected equipment, using the supplied remote control unit.
- 18 [Info Icon] [Banner Icon] INFO:** Displays the channel information.
Displays the banner information.
- 19 TV/DTV:** Switches the mode between TV and DTV.
- 20 EPG:** Displays the Electronic Programme Guide in DTV input mode.
- 21 CH ENTER:** Executes a channel selection by the number buttons.
- 22 [Mute Icon]:** Mutes the sound.
- 23 [Volume Icon] +/-:** Sets the volume.
- 24 HDMI CONTROL:** Displays the HDMI Control menu.
- 25 [Tools Icon] TOOLS:** Displays the TOOLS Menu.
- 26 [Return Icon] RETURN:** Restores the previous menu screen.
- 27 [Teletext Icon]:** Selects the Teletext mode (all TV image, all TEXT image, TV/TEXT image).
- 28 [Index Icon]:** Displays an Index page for the CEEFAX/FLOF format. Displays a TOP Over View page for the TOP format.
- 29 [Screen Size Icon]:** Selects the screen size.
- 30 [Freeze Icon]:** TV/External input mode: Freezes a frame from a moving image. Press again to cancel the function.
Teletext mode: Stops updating Teletext pages. Press again to release the hold mode.
- 31 [Move Icon]:** Moves the location of the small screen when in the picture-in-picture mode.
- 32 [Switch Icon]:** Switches between the two screens when in the 2-screen or picture-in-picture mode.
- 33 SELECT:** Switches the selection among TV, STB, DVD/DVR, and VCR, so that you can control other connected equipment, using the supplied remote control unit.

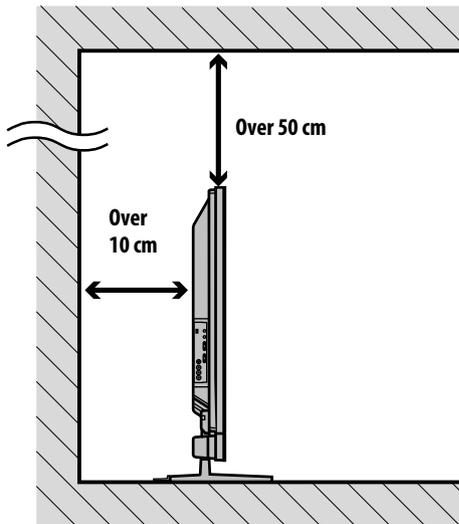
Note

- When using the remote control unit, point it at the flat screen TV.

- 1 TV [Power Icon]:** Turns on the power to the flat screen TV or places it into the standby mode.
- 2 INPUT:** Selects an input source of the flat screen TV. ("INPUT 1", "INPUT 2", "INPUT 3", "INPUT 4", "INPUT 5", "INPUT 6")
- 3 PC:** Selects the PC terminal as an input source.

Chapter 5 Preparation

Installing the flat screen TV



Location

- Avoid direct sunlight. Maintain adequate ventilation.

Caution

- If you do not leave sufficient space above the flat screen TV, 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 stabilisation, 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 flat screen TV in a flat, stable location.

Using the optional Pioneer stand

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

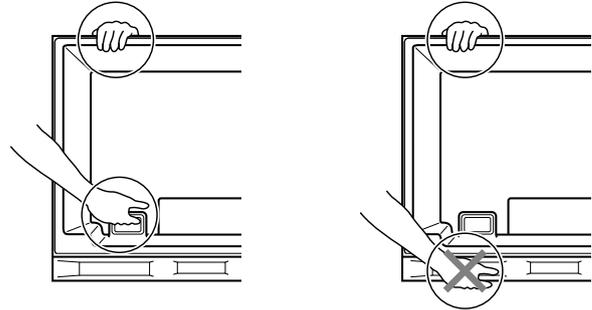
Using the optional Pioneer speakers

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

Moving the flat screen TV

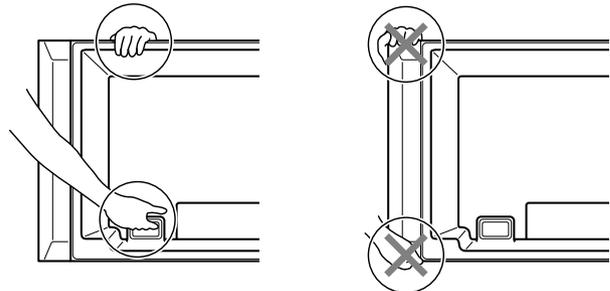
When installing on a rack, etc., hold the flat screen TV as shown below. Because the flat screen TV is heavy, be sure to have someone help you when moving it.

(for PDP-LX609A/PDP-LX509A) (Under speaker)



The instructions are for both PDP-LX509A and PDP-LX609A (illustrations shown are for PDP-LX509A).

(for PDP-C509A) (Side speaker)



Note

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

Preventing the flat screen TV from falling over

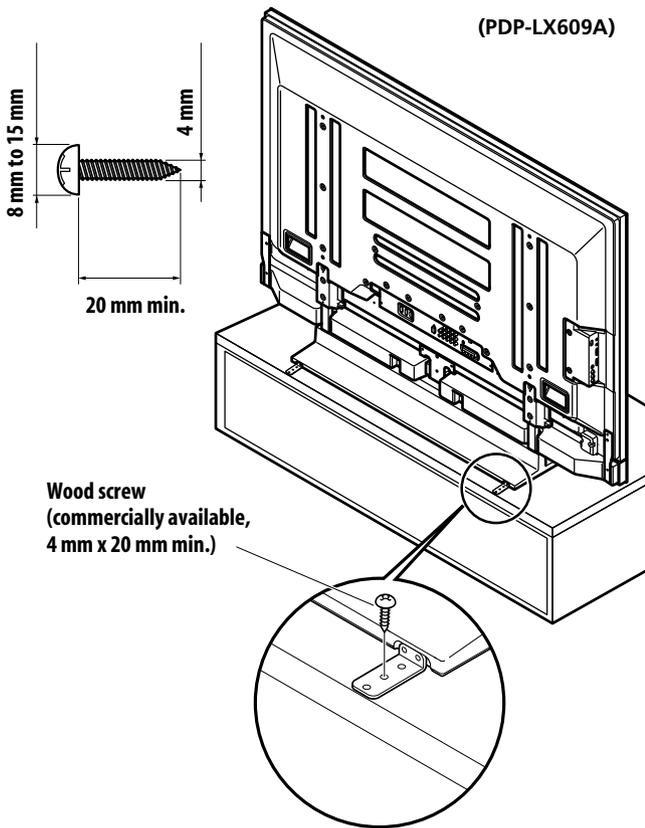
After installing the stand, be sure to take special care to ensure that the flat screen TV will not fall over and is stabilised to both the wall and rack.

Stabilising on a table or rack

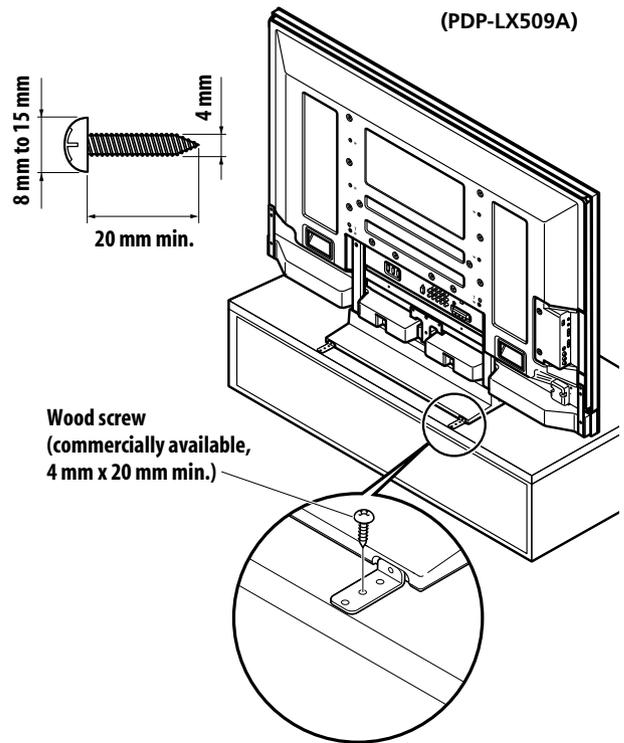
Stabilise the flat screen TV as shown in the diagram using the falling prevention metal fittings and screws supplied with the optional stand.

 **Note**

- Before stabilising the flat screen TV on a stand or rack, make sure that the falling prevention metal fittings are attached to the stand.
- To stabilise the flat screen TV on a table or rack, also use commercially available wood screws that have a nominal diameter of 4 mm and that are at least 20 mm long.



Drill a hole in the middle at the rear of the tabletop panel before using a wood screw. Perform this work the same way on the left and right sides.



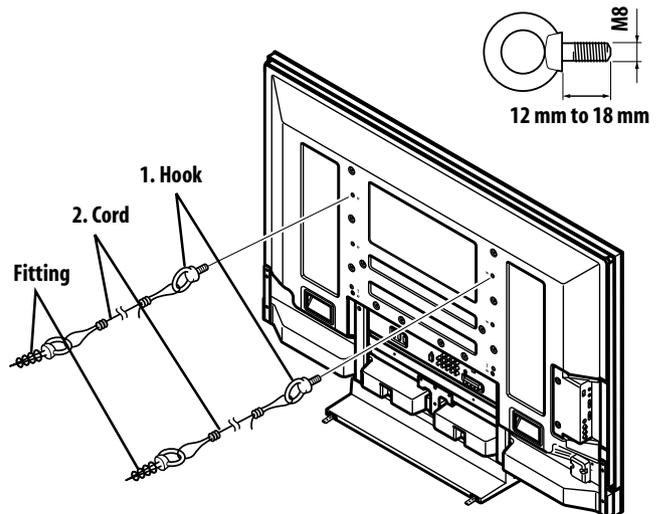
Drill a hole in the middle at the rear of the tabletop panel before using a wood screw. Perform this work the same way on the left and right sides.

Using a wall for stabilisation

- 1 Attach falling prevention bolts (hooks) to the flat screen TV.
- 2 Use strong cords to stabilise 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



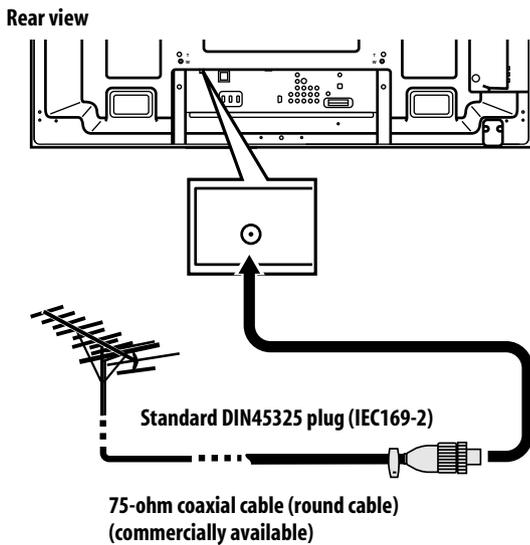
Caution

- A table or rack with adequate strength should always be used to support the flat screen TV. Failure to do so could result in personal injury and physical damage.
- When installing the flat screen TV, 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 flat screen TV could fall down and cause injury.
- The screws, hooks, cords and other fittings that you use to secure the flat screen TV 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.
- Do not use bare wires for the cord. If any part of the wire is introduced into the ventilation port on the back of the display panel, fire or electric shock could result.

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 a 75-ohm coaxial cable (commercially available) to the ANT terminal.

Antenna cable (commercially available)



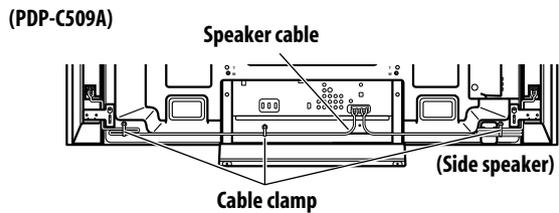
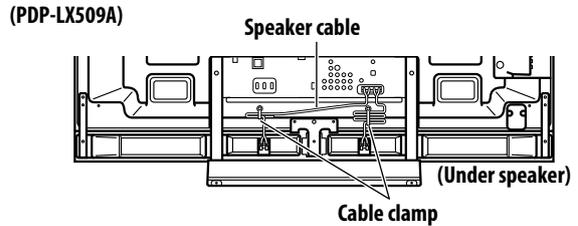
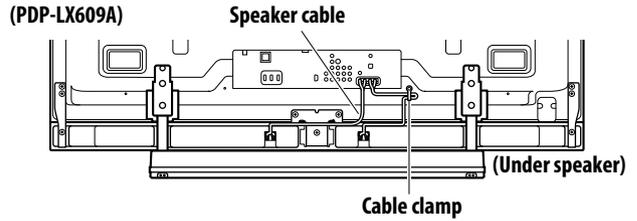
If your outdoor antenna uses a 75-ohm coaxial cable with a standard DIN45325 plug (IEC169-2), plug it into the antenna terminal at the rear of the flat screen TV.

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

When the speaker is mounted to the flat screen TV panel:

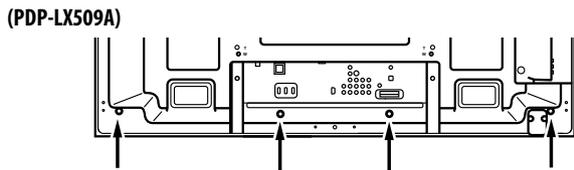
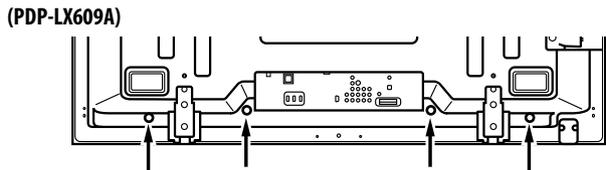


Note

- Use the supplied cable clamps as necessary.
- When tidying up your speaker cables, make sure to bundle them so that they are not subjected to any pressure.

Attaching cable clamps to the main unit

Use the cable clamps as necessary to route the connecting cables. The diagrams below show the location of the holes on the rear of the flat screen TV.

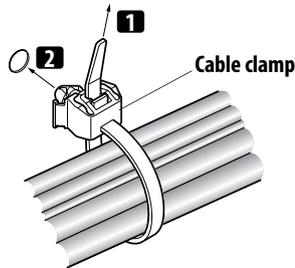


Clamp hole locations for PDP-C509A are the same as PDP-LX509A.

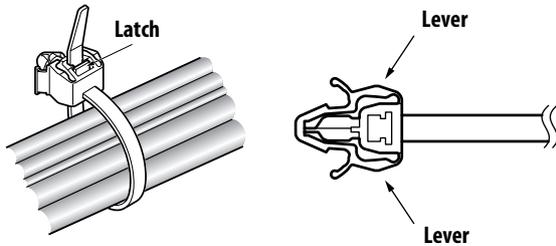
Preparation

Attaching and removing a cable clamp

Thread the clamp band through the holder [1] and bundle the cable(s) in the cable clamp. Push and hold the levers then insert the hook into an appropriate hole [2] on the rear of the flat screen TV. Pull up the clamp band to lock.



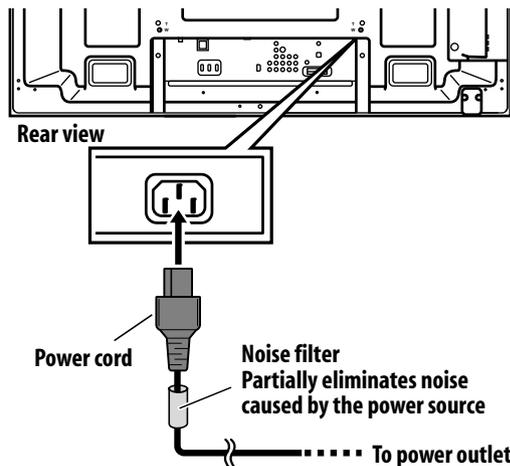
- Confirm that the cable clamp is seated firmly in the panel.
- To remove the clamp band, pull and hold the latch to release.
To remove the cable clamp, push and hold the levers then pull it out from the hole.



Note

- Avoid pinching or creating pressure points when routing or bundling cables.
- The longer a clamp is in place, the better chance of deterioration. An older clamp is more easily damaged while being removed and may not be reusable.
- Use the cable clamps as necessary.
- Be careful not to subject any connecting cables to strain.

Connecting the power cord



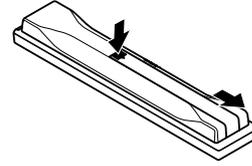
Note

- Disconnect the power cord from the power outlet when the flat screen TV is not going to be used for a long period of time.
- Insert the power plug in the AC outlet, after all other components are connected.

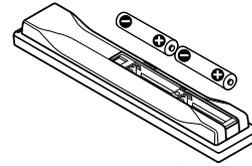
Preparing the remote control unit

Inserting batteries

- 1 To open push and slide the battery cover in the direction of the arrows.

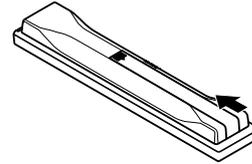


- 2 Load the supplied two AA size batteries while inserting their respective negative polarity (-) ends first.



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

- 3 Close the battery cover.



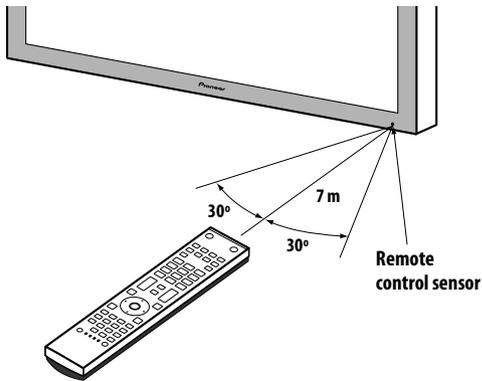
Caution

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 flat screen TV. 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 remote control sensor locations, see *Part names* on page 11.

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 flat screen TV is under direct sunlight or strong lighting. In such case, change the angle of the lighting or flat screen TV, 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 flat screen TV 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 flat screen TV.
- Depending on the installation environment, infrared rays from the flat screen TV 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.

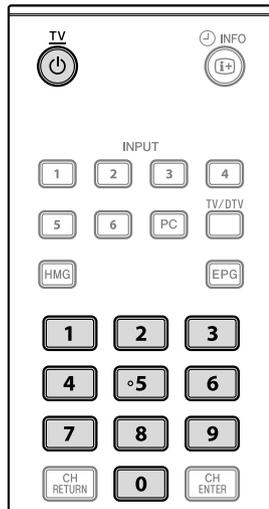
Chapter 6 Watching TV

Important

- Before watching broadcast channels, the built-in TV tuner must be set up. See *Setting up TV channels automatically* on page 26 for how to do this.

Turning the power on

- Turn Power On (⏻) on on the flat screen TV when the Power ON and STANDBY indicators are off (see *Part names* on pages 11 and 12).
- The system is on.
- The Power ON indicator lights up blue.
- Press TV ⏻ or 0 to 9 on the remote control unit or STANDBY/ON on the flat screen TV 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.



(for PDP-LX609A/PDP-LX509A)

Placing the system into standby

Press TV ⏻ on the remote control unit or STANDBY/ON on the flat screen TV.

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

Note

- When Power On (⏻) on the flat screen TV is off, you cannot turn the power on by pressing TV ⏻ or 0 to 9 on the remote control unit or STANDBY/ON on the flat screen TV.
- While the system is placed into standby mode, pressing remote control's TV ⏻ causes the flat screen TV to turn on.
- When the system is placed into standby mode, the main power flow is cut and the system is no longer fully operational. A minute flow of power feeds the system to maintain operational readiness.
- If you are not going to use the flat screen TV for a long period of time, be sure to remove the power cord from the power outlet.

Flat screen TV status indicators

The table below shows the operational status of the flat screen TV. You can check the current status of the system with the indicators on the flat screen TV.

Indicator status		System status
Power ON	STANDBY	
●	●	The power cord of the flat screen TV has been disconnected. Or, the power cord of the flat screen TV has been connected but the Power On (⏻) button of the flat screen TV is off.
	●	Power to the system is on
●		The system is in the standby mode

For other than the above, see *Troubleshooting* on page 74.

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 43.

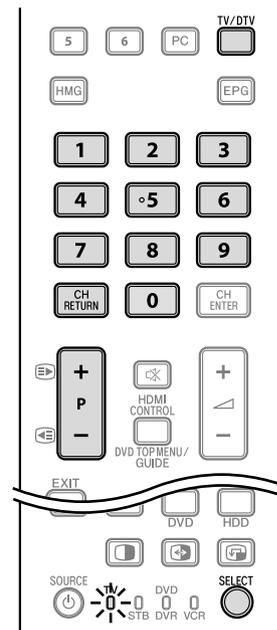
Changing channels

Use the remote control or the control panel on the left-hand side of the flat screen TV 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 63.

Switching the TV input mode

- Press INPUT on the flat screen TV or TV/DTV on the remote control unit to select TV or DTV input mode.



(for PDP-LX609A/PDP-LX509A)

Using P+/P- on the remote control unit

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

Note

- Press **CH RETURN** to switch the current channel to the previously viewed channel. Press **CH RETURN** again to return to the original channel.
- **CHANNEL +/-** on the flat screen TV operates the same as **P+/P-**.
- **P+/P-** cannot pick up channels that are set to skip. For Channel Skip, see steps 10 and 11 under *Setting up analogue TV channels manually* on page 26.
- When in DTV mode, **P+/P-** cannot pick up digital channels that are set to skip while "Off" is selected for "Favourites" or that are not registered in the Favourites List while "On" is selected for "Favourites". See *Customising channel related settings* on pages 36.

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).

While in DTV mode, press **1**, **2** and **3** to select channel 123 (three-digit channel).

Note

- 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 will be displayed.

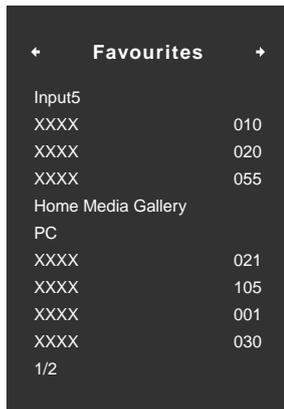
Displaying a channel list

Three channel lists are available for quick access to the desired channel: Favourites List, Channel List and Input List. To display each list, follow the procedure below:

Favourites List: Press **ENTER** while watching a programme, select "Favourites" on the HOME MENU or use **←/→** to select "Favourites" on the Channel List or Input List.

Channel List: Select "Channel" on the HOME MENU, use **←/→** to select "Channel List" on the Favourites List or Input List.

Input List: Select "Input" on the HOME MENU or use **←/→** to select "Input List" on the Favourites List or Channel List.



List	Max. number of channels	Items displayed
Favourites List	20 analogue channels 20 digital channels 1 Home Media Gallery	Analogue/digital channels, external inputs and top screen for Home Media Gallery
Input List	INPUT 1 through INPUT 6, PC	External inputs
Channel List	All analogue and digital channels	Analogue/digital channels

Note

- Pressing **ENTER** selects the desired channel.
- Pressing **EXIT** or **RETURN** causes the list to disappear.
- Home Media Gallery is unavailable for PDP-C509A.

Setting your favourite channels

Select up to 10 channels for each screen (up to five screens). You can then quickly jump to your favourite channels.

- 1 Press **HOME MENU**.
- 2 Select **"Setup"** (**↑/↓** then **ENTER**).
- 3 Select **"Favourites Setup"** (**↑/↓** then **ENTER**).
- 4 Select **"Channel Mode"** (**↑/↓**).
- 5 Select **"Favourites"** (**←/→**).
Select "All" to set all channels to "Favourites".
- 6 Press **HOME MENU** again to exit the menu.

Note

- If there is another screen that follows, a scroll bar appears.
- Pressing **ENTER** while watching a TV programme also causes the Favourites List to appear.
- If no channels are registered, "No Favourites List." appears.

Sorting favourite channels

You can sort favourite channels. To sort the registered channels, follow the procedure below.

- 1 Press **HOME MENU**.
 - 2 Select **"Setup"** (**↑/↓** then **ENTER**).
 - 3 Select **"Favourites Setup"** (**↑/↓** then **ENTER**).
 - 4 Select **"Sort Favourites"** (**↑/↓** then **ENTER**).
 - 5 Select a channel to be shifted (**↑/↓/←/→** then **ENTER**).
 - 6 Select a new location (**↑/↓/←/→** then **ENTER**).
Sorting is executed.
- To sort another channel(s), repeat steps 5 and 6.
- 7 Press **HOME MENU** again to exit the menu.

Note

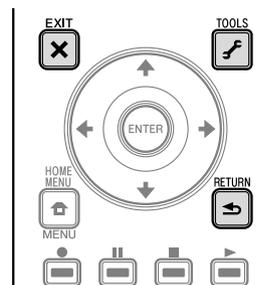
- If there is another screen that follows, a scroll bar appears.

Registering favourite channels

Use the TOOLS Menu to register TV channels, external input sources including PC, and Home Media Gallery content (top menu screen). To register, follow the procedure below.

- 1 Press **TOOLS**.
The TOOLS Menu appears on screen.
- 2 Select **"Favourites Entry"** (**↑/↓**).
- 3 Select **"On"** (**←/→**).

The channel you are watching is registered in the Favourites List. To cancel, use **←/→** to select "Off".



Note

- Pressing **EXIT**, **RETURN**, or **TOOLS** again causes the TOOLS Menu to disappear.
- If the number of channels registered reaches the limit, a warning screen appears.
- To cancel the above procedure before it finishes, press **EXIT** or **RETURN**.
- Home Media Gallery is unavailable for PDP-C509A.

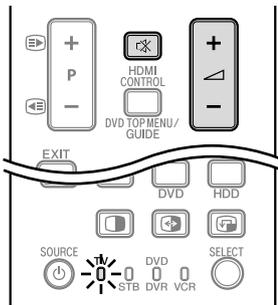
Editing Input List

You can edit the input channel name. For changing the name, follow the procedure below.

- 1 Press **HOME MENU**.
- 2 Select "Setup" (↑/↓ then **ENTER**).
- 3 Select "Option" (↑/↓ then **ENTER**).
- 4 Select "Label Input" (↑/↓ then **ENTER**).
- 5 Select an input (↑/↓ then **ENTER**).
The software keyboard appears.
- 6 Edit the name.
- 7 Press **HOME MENU** again to exit the menu.

Changing the volume and sound

Use the remote control or the control panel on the left-hand side of the flat screen TV to adjust the volume.



Using +/− on the remote control unit

- Press **+** to increase the volume.
- Press **−** to decrease the volume.



- **VOLUME +/-** on the flat screen TV operates the same as **+/−**.

Using Mute on the remote control unit

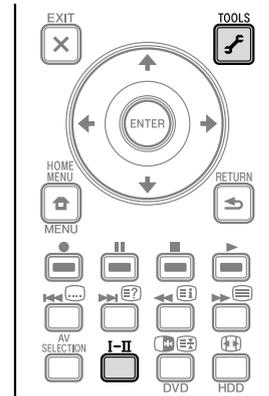
- 1 Press **Mute** to mute the sound.
Mute appears on the screen. If headphones are used, Mute appears.



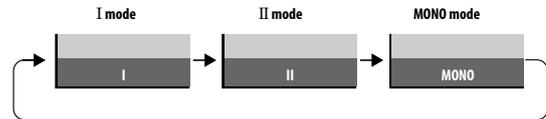
- 2 Press **Mute** again or **+** to restore the sound.

Switching the broadcast audio channel

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



- Press **I-II** to change the audio channel.



Note

- Pressing **TOOLS** also causes the audio channel mode menu to appear.
The table below shows the available audio channels by broadcast audio type.

		Setting		
		I	II	MONO
A2 Broadcasts	Stereo	A 1 DDD STEREO 10:00	A 1 DDD STEREO 10:00	A 1 DDD MONO 10:00
	Bilingual	A 2 EEE DUAL I 10:00	A 2 EEE DUAL II 10:00	A 2 EEE MONO 10:00
	Monaural	A 3 FFF MONO 10:00	A 3 FFF MONO 10:00	A 3 FFF MONO 10:00
Digital Terrestrial Broadcasts	DualMono	D 001 GGG L 10:00	D 001 GGG R 10:00	D 001 GGG MONO 10:00
	Stereo	D 002 HHH STEREO 10:00	D 002 HHH STEREO 10:00	D 002 HHH MONO 10:00
	Monaural	D 003 III MONO 10:00	D 003 III MONO 10:00	D 003 III MONO 10:00

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 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" does not change the type of sound. In this case, sound is determined by the video source.

Switching an audio component

The TOOLS Menu also allows selecting from up to 32 audio components.

1 Press TOOLS.

The TOOLS Menu appears on screen.

2 Select "Audio" (↑/↓).

3 Select the desired audio component (←/→).

You can switch:

- an audio component between the languages (digital broadcast only)
- an audio component for the Home Media Gallery (PDP-LX609A/PDP-LX509A only) (page 50)

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 63.

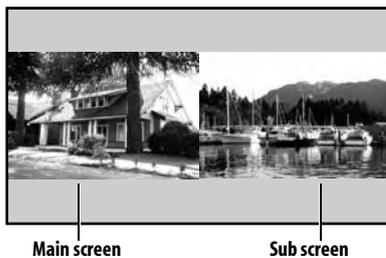
Splitting the screen

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

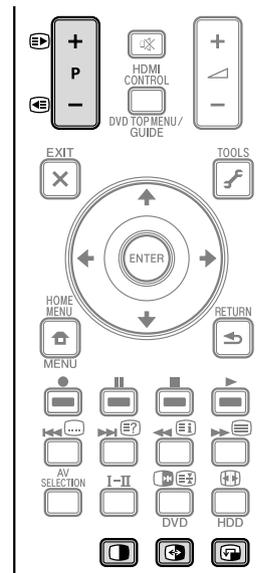
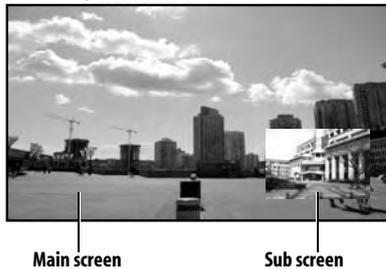
Note

- 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

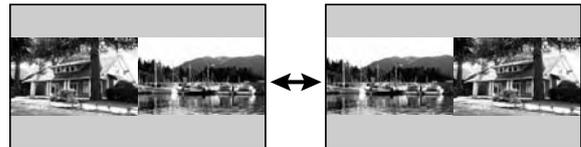


1 Press to select the display mode.

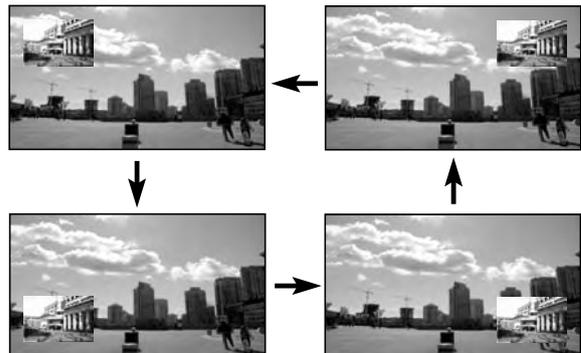
Each time you press , the display mode is switched among 2-screen, picture-in-picture, and single-screen.

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 which will be indicated by "▶". The user is allowed to operate picture and sound.



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



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

If watching TV programmes, press **P+/P-** to change the channel.

Using the TOOLS Menu

You can also select the multiscreen mode from the TOOLS Menu.

1 Press TOOLS.

The TOOLS Menu appears on screen.

2 Select "Split", "Swap" or "Shift" (↑/↓).

3 Select a mode (←/→).

For "Split" mode, select "Off (Single)", "2-screen" or "P-in-P".

The selected mode appears in the centre of the TOOLS Menu.

Note

- Refer to the *TOOLS Menu* on page 53.
- 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 input sources.
 - Analogue TV, digital TV or Home Media Gallery (PDP-LX609A/PDP-LX509A only) and external source ("INPUT 1" to "INPUT 6", "PC")
- When you press **EXIT**, the single-screen mode is restored and the corresponding menu is displayed.
- When in the 2-screen mode, images displayed on the right screen may look less fine, depending on the images.
- While in the 2-screen or picture-in-picture mode, the analogue favourite channel list and the digital channel list are unavailable.

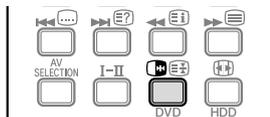
Freezing images

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 63.

Important

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



1 Press [Freeze].

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



2 Press [Freeze] again to cancel the function.

Note

- 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	
Channel	-	20	
Favourites	-	20	
Input	-	20	
EPG	-	38	
Home Media Gallery*	-	50	
HDMI Control	-	68	
Setup	Picture	AV Selection	28
		Contrast**	28
		Brightness**	28
		Colour**	28
		Tint**	28
		Sharpness**	28
		Pro Adjust**	29
		PureCinema***	29
		Sound Control****	33
		OPTIMUM Performance****	33
		Reset	28
	Sound	Treble	32
		Bass	32
		Balance	32
		Sound Effect	32
		Reset	32
		AVC	33
	Power Control	Energy Save	33
		No Signal off	33
		No Operation off	33
Sleep Timer	-	43	
Option	Position	Auto Size	42
		Side Mask	42
		HDMI Input	48
		HDMI Control Setting	70
		Blue LED Dimmer	43
		Orbiter	43
		Video Pattern	43
		Drive Mode	40
		Colour System	41
		Game Control Pref	41
		Room Light Sensor	42
		Screen Protection	43
		Label Input	43
System Setup	Auto Installation	Analogue TV Setup	26
		Digital Tuner Setup	36
		Digital Audio Output	47
		Password	44
		Language	27
		Technical Info.	27
Favourites Setup	Channel Mode	Channel Mode	20
		Sort Favourites	20

* Unavailable for PDP-C509A

** Available when any option other than "OPTIMUM" is selected from "AV Selection".

*** Access this option through the Pro Adjust menu when any option other than "OPTIMUM" is selected.

**** Available only when "OPTIMUM" is selected from "AV Selection".

For PC source

HOME MENU	Item	Page	
Channel	-	20	
Favourites	-	20	
Input	-	20	
EPG	-	38	
Home Media Gallery*	-	50	
HDMI Control	-	68	
Setup	Picture	AV Selection	28
		Contrast	28
		Brightness	28
		Red	28
		Green	28
		Blue	28
		Reset	28
	Sound	Treble	32
		Bass	32
		Balance	32
		Sound Effect	32
		Reset	32
		AVC	33
	Power Control	Energy Save	33
		Power Management	34
Sleep Timer	-	43	
Option	Auto Setup	Auto Setup	40
		Manual Setup	41
		HDMI Input	48
		HDMI Control Setting	70
		Orbiter	43
		Label Input	43
Favourites Setup	Channel Mode	Channel Mode	20
		Sort Favourites	20

Chapter 8 Setting up

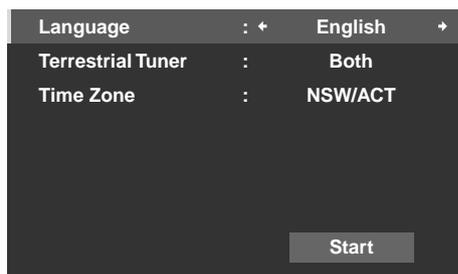
Setting up TV channels automatically

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

Using Auto Installation

When the flat screen TV is switched on for the first time after purchase, Auto Installation menu appears on screen. For language, channel and time zone selections, follow the steps below.

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



You can select from among four languages; English, Italian, Spanish and Portuguese.

- 3 Select "Terrestrial Tuner" (↑/↓).
Use ←/→ to select "Digital", "Analogue" or "Both" (default).
- 4 Select "Time Zone" (↑/↓).
Use ←/→ to select "NSW/ACT" (default), "VIC", "QLD", "SA", "WA", "TAS" or "NT" (see page 37).
- 5 Select "Start" (↑/↓ then ENTER).
Auto Installation automatically starts. To quit Auto Installation before it finishes, press RETURN.

Note

- You can start Auto Installation from the HOME MENU after moving to another city, for example. Follow the steps below before starting Auto Installation:

- 1 Press HOME MENU (↑/↓ then ENTER).
- 2 Select "Setup" (↑/↓ then ENTER).
- 3 Select "System Setup" (↑/↓ then ENTER).
- 4 Select "Auto Installation" (↑/↓ then ENTER).

The password entry screen appears. Enter your four-digit password using buttons 0 to 9. See *Using a password* on page 44.

If no channel is found, check the antenna connections, and then retry Auto Installation.

Note

- Channels obtained may vary depending on the installation environment and weather conditions.

Setting up analogue TV channels manually

Use the Manual Adjust function to set up analogue TV channels manually.

- 1 Press HOME MENU.
- 2 Select "Setup" (↑/↓ then ENTER).
- 3 Select "System Setup" (↑/↓ then ENTER).
- 4 Select "Analogue 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 44.

- 5 Select "Manual Adjust" (↑/↓ then ENTER).



- 6 Select "Programme Entry" (↑/↓).
- 7 Select a programme number (←/→).
You can select 1 through 99.
- 8 Select "Search" (↑/↓).
- 9 Enter a frequency using buttons 0 to 9, then ENTER.
You can also press ←/→ to enter a frequency.
- 10 Select "Store" (↑/↓).
- 11 Select "Yes" or "No" (←/→).

Item	Description
Yes	You can select the channel using P+/P-
No	You cannot select the channel using P+/P-

- 12 Press HOME MENU again to exit the menu.
Alternatively, to set up for another channel, repeat steps 7 to 11.

Note

- Manual Adjust also allows you to make selections for "Tuner NR" and "Channel Lock". See *Reducing video noise* and *Setting Channel Lock*.

Reducing video noise

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

- 1 Repeat steps 1 to 5 provided for *Setting up analogue TV channels manually*.
- 2 Select "Tuner NR" (↑/↓).
- 3 Select "On" (←/→).
- 4 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 Channel Lock

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

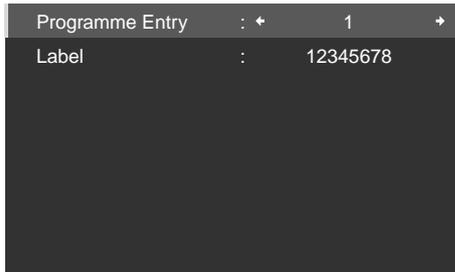
- 1 Repeat steps 1 to 7 provided for *Setting up analogue TV channels manually*. After selecting a channel (using Programme Entry), perform the following steps:
- 2 Select "Channel Lock" (↑/↓).
- 3 Select "Block" (←/→).
The selection is switched between "View" (default) and "Block".
- 4 Press HOME MENU to exit the menu.

Labelling TV channels

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

- Repeat steps 1 to 4 provided for *Setting up analogue TV channels manually*.
- Select "Label" (↑/↓ then ENTER).
- Select "Programme Entry" (↑/↓).
- Select a programme number (←/→).

You can select 1 through 99.



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



The cursor moves to the second character.

- Repeat step 6 to enter up to eight 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.
To toggle between upper case and lower case, select [Caps] on the screen, and then press ENTER.
- To complete the name entry, press ↑/↓ or ←/→ to select [OK] on the screen, and then press ENTER.
- Press HOME MENU to exit the menu.

Sorting preset TV channels

Use the following procedure to change the sequence of the preset TV programmes.

- Repeat steps 1 to 4 provided for *Setting up analogue TV channels manually*.
- Select "Sort" (↑/↓ then ENTER).
The sort screen appears.



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



Note

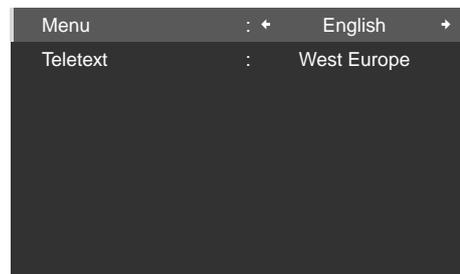
- To change a page on the Sort screen in step 2, select the arrow icon on the screen with ↑/↓ then press ENTER.

Language setting

You can select the language to be used for on-screen display such as menus and instructions, from among four languages: English, Italian, Spanish and Portuguese.

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

- Repeat steps 1 to 3 provided for *Setting up analogue TV channels manually*.
- Select "Language" (↑/↓ then ENTER).
- Select "Menu" (↑/↓).
- Select a language (←/→).



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

Checking software/hardware version

To access the version information, follow the procedure below.

- Repeat steps 1 to 3 provided for *Setting up analogue TV channels manually*.
- Select "Technical Info." on page 2 of the menu (↑/↓ then ENTER).
- Press HOME MENU to exit the menu.

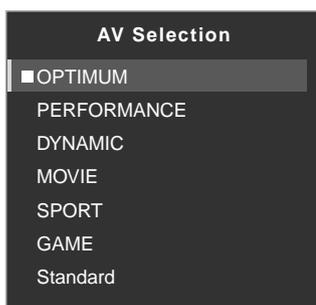
AV Selection

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

Your flat screen TV has been adjusted to provide optimum sound quality for each AV Selection option. However, you can adjust it to your preference.

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

For AV source



For AV source

Item	Description
OPTIMUM	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 inputs and TV input sources.
PERFORMANCE	For a highly defined image in a normal living room. This setting is shared by both the external inputs and TV input sources.
DYNAMIC	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 inputs and TV input sources.
MOVIE	Optimised for movies. This setting is shared by both the external inputs and TV input sources.
SPORT	Optimised for sports programmes. This setting is shared by both the external inputs and TV input sources.
GAME	Lowers image brightness for easier viewing. This setting is shared by both the external inputs and TV input sources.
Standard	Allows the user to customise settings as desired. You can set the mode for each input source.

For PC source

Item	Description
STANDARD	For a highly defined image in a normally bright room
USER	Allows the user to customise setting as desired. You can set the mode for each input source.

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

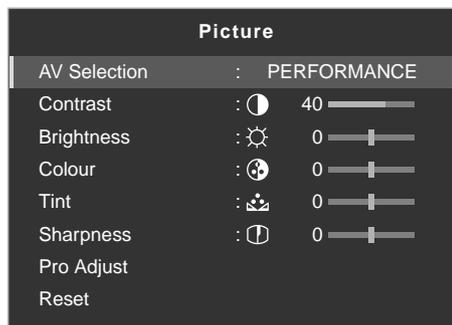
Note

- As "OPTIMUM" automatically optimises 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.

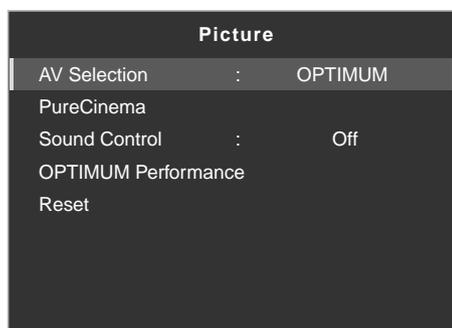
Basic picture adjustments

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

- 1 Repeat steps 1 to 3 provided for *AV Selection*.
- 2 Select an item to be adjusted (↑/↓ then **ENTER**).



If you select "OPTIMUM" for "AV Selection", the following submenu appears on screen.



For PC source, the following screen appears;



- 3 Select the desired level for AV Selection options other than "OPTIMUM" (←/→).



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

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

For AV source

Item	← button	→ button
Contrast	For less contrast	For more contrast
Brightness	For less brightness	For more brightness
Colour	For less colour intensity	For more colour 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 2 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 2, 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.
- Pressing **TOOLS** also causes the "AV Selection" menu to appear.
- If you have selected "DYNAMIC", you cannot select "Contrast", "Brightness", "Colour", "Tint", "Sharpness", "Pro Adjust", and "Reset"; these menu items are dimmed.
- Selecting "OPTIMUM" causes optional menus to appear: "Sound Control" and "OPTIMUM Performance" (page 33).

Advanced picture adjustments

The flat screen TV provides various advanced functions for optimising the picture quality. For details on these functions, see the tables.

Using PureCinema

- Press **HOME MENU**.
- Select "Setup" (**↑/↓** then **ENTER**).
- Select "Picture" (**↑/↓** then **ENTER**).
- Select "Pro Adjust" (**↑/↓** then **ENTER**).
- Select "PureCinema" (**↑/↓** then **ENTER**).
- Select "Film Mode" or "Text Optimisation" (**↑/↓** 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), analyses 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 movie images such as movie programmes on TV (interlaced)
Smooth		Makes movie images smoother. This mode for users who prefer smoother images rather than film-like images.
Advance		Produces smooth and quality moving images (as shown on theatre screens) by converting to appropriate panel drive frequency when displaying DVD or BD images (e.g., movies)
Text Optimisation	Off	Deactivates Text Optimisation
	On	Improves subtitle display quality

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

Note

- This function may not work properly depending on the input signal.
- When you select "On" for "Game Control Pref" on the "Option" menu, the "PureCinema" setting is disabled.

Using Intelligent Mode

- Repeat steps 1 to 4 provided for *Using PureCinema*.
- Select "Intelligent Mode" (**↑/↓** then **ENTER**).
- Select the desired parameter (**↑/↓** then **ENTER**).

Intelligent Mode

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

Selections	Off	Deactivates Intelligent Mode
	Mode 1	Compensates for more effective picture adjustment for general viewing
	Mode 2	Compensates for appropriate picture adjustment, especially for private content such as home video

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

Note

- As this function automatically optimises 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.

Using the Picture Detail

- Repeat steps 1 to 4 provided for *Using PureCinema*.
- Select "Picture Detail" (**↑/↓** then **ENTER**).
- Select an item to be adjusted (**↑/↓** then **ENTER**). You can select "DRE Picture", "Black Level", "ACL", "Enhancer Mode" or "Gamma".
- Select the desired parameter (**↑/↓** then **ENTER**).

DRE (Dynamic Range Expander) Picture

Emphasises 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

Emphasises 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 (Automatic Contrast Limiter)

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 to find the right balance between preserving picture detail and eliminating unwanted noise

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

Gamma

Adjusts the gamma characteristics (image gradation characteristics) to find the right balance between contrast and maintaining dark details

Selections	1	Delivers uniformly contrast-rich images
	2	Delivers a well balanced image, applying delicate in-picture contrast enhancement
	3	Delivers an overall slightly brighter image, revealing more gradation details

5 Press HOME MENU to exit the menu.

Using Colour Temp

- 1 Repeat steps 1 to 4 provided for *Using PureCinema*.
- 2 Select "Colour Detail" (↑/↓ then ENTER).
- 3 Select "Colour Temp" (↑/↓ then ENTER).
- 4 Select the desired parameter (↑/↓ then ENTER).

Colour Temp

Adjusts the colour temperature, resulting in a better white balance

Selections	High	Cool white tone
	Mid-High	Intermediate tone between High and Mid
	Mid	Natural tone
	Mid-Low	Intermediate tone between Mid and Low
	Low	Warm white tone
	Manual	Colour 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 5.

5 Select an item to be adjusted (↑/↓ then ENTER).

6 Select the desired level (←/→).

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

To perform adjustment for another item, press **RETURN**, and then repeat steps 5 and 6.

You may press ↑/↓ to immediately change an item to be adjusted.

7 Press HOME MENU to exit the menu.

Using CTI and Colour Space

- 1 Repeat steps 1 to 2 provided for *Using Colour Temp*.
- 2 Select "CTI" or "Colour Space" (↑/↓ then ENTER).
- 3 Select the desired parameter (↑/↓ then ENTER).

CTI

Provides images with clearer colour contours. The CTI stands for Colour Transient Improvement.

Selections	Off	Deactivates CTI
	On	Activates CTI

Colour Space

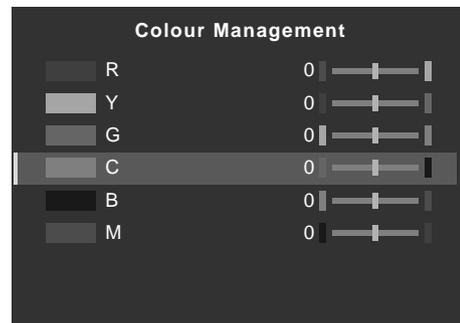
Changes the colour reproduction space

Selections	1	Optimised for vivid, vibrant colour reproduction
	2	Standard colour reproduction

4 Press HOME MENU to exit the menu.

Using Colour Management

- 1 Repeat steps 1 to 2 provided for *Using Colour Temp*.
- 2 Select "Colour Management" (↑/↓ then ENTER).
- 3 Select an item to be adjusted (↑/↓ then ENTER).



4 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 3 and 4.

You may press **↑/↓** to immediately change an item to be adjusted.

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

Eliminating noise from images

- Repeat step 1 provided for *Using Colour Temp.*
- Select "Noise Reduction" (**↑/↓** then **ENTER**).
- Select an item to be adjusted (**↑/↓** then **ENTER**).
You can select "3DNR", "Field NR", "Block NR" or "Mosquito NR".
- Select the desired parameter (**↑/↓** then **ENTER**).

3DNR		
Eliminates video noise for clear, 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		
Reduces noise such as blocks appearing in digitally compressed sources on DVD and in digital broadcasting		
Selections	Off	Deactivates Block NR
	On	Activates Block NR

Mosquito NR		
Reduces noise in contoured portions appearing in digitally compressed sources on DVD and in digital broadcasting		
Selections	Off	Deactivates Mosquito NR
	On	Activates Mosquito NR

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

Using the 3DYC and I-P Mode

- Repeat step 1 provided for *Using Colour Temp.*
- Select "Others" (**↑/↓** then **ENTER**).
- Select "3DYC" or "I-P Mode" (**↑/↓** then **ENTER**).
- Select the desired parameter (**↑/↓** then **ENTER**).

3DYC		
Optimises characteristics for separating brightness signals and colour signals. This works for both video and still images.		
Selections	Off	Deactivates 3DYC
	High	Enhanced 3DYC
	Mid	Standard 3DYC
	Low	Moderate 3DYC



Note

- For the 3DYC, the individual parameters are selectable only when:
 - You have selected "INPUT 1", "INPUT 2" or "INPUT 3" as the input source; or
 - You have selected "INPUT 3" as the input source or you have selected the analogue tuner.
- The 3DYC setting is ineffective when SECAM, PAL60, or 4.43NTSC signals are input.

I-P Mode		
Performs optimum conversion from interlace signals to progressive signals. This works for both video and still images.		
Selections	1	Primarily for images with fast motion
	2	Well balanced setting for both moving and still images
	3	Primarily for images with little or no motion



Note

- 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 I-P Mode, the individual parameters are not selectable for the following input signals: 480p, 576p, 720p, 1080p.
- 5 Press **HOME MENU** to exit the menu.

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.

- Repeat steps 1 to 3 provided for *Using PureCinema.*
- Select an item to be adjusted (**↑/↓** then **ENTER**).
- While performing adjustment, press **TOOLS** on the remote control unit. "Before" displays and the image adjusted last time appears for comparison.

Before

- Press the button again to return to the newly adjusted image. Each press of the button toggles between "Before" and "After".
- Repeat steps 2 and 4 for other parameters.
- Press **HOME MENU** to exit the menu.



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.

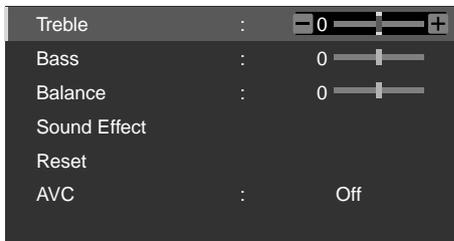
 **Note**

- 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 **TOOLS** 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 ("MOVIE" and "SPORT", for example).
- When you select this function, "Intelligent Mode" for "Pro Adjust" on the "Picture" menu, and "Room Light Sensor" on the "Option" menu are set to off and image quality returns to default settings.
- This function is not selectable:
 - when "OPTIMUM" is selected for "AV Selection".
 - 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

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 **"Setup"** (↑/↓ then **ENTER**).
- 3 Select **"Sound"** (↑/↓ then **ENTER**).
- 4 Select an item to be adjusted (↑/↓).
- 5 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

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

 **Note**

- You can adjust the sound for listening with headphones.
- To restore the factory defaults for the "Treble", "Bass", "Balance" and "Sound Effect" options, press ↑/↓ to select "Reset" in step 4, and then press **ENTER**. A confirmation screen appears. Press ←/→ to select "Yes", and then press **ENTER**.
- You cannot restore the factory default for "AVC".
- Pressing **TOOLS** while using Home Media Gallery functions also causes the "Sound" menu to appear (PDP-LX609A/PDP-LX509A only).

Sound Effect

You can select from SRS FOCUS, SRS, SRS TruBass and SRS Definition.

- 1 Repeat steps 1 to 3 provided for *Sound adjustments*.
- 2 Select **"Sound Effect"** (↑/↓ then **ENTER**).
- 3 Select **"SRS FOCUS", "SRS", "SRS TruBass" or "SRS Definition"** (↑/↓).
- 4 Select the desired parameter (←/→).

SRS FOCUS™

Moves sound source direction vertically and makes sound and voice clearly audible

Selections	Off	Deactivates SRS FOCUS
	Low	Moderate SRS FOCUS
	Mid	Standard SRS FOCUS
	High	Enhanced SRS FOCUS

SRS®

Effortlessly produces a three-dimensional sound field

Selections	Off	Deactivates SRS
	Low	Moderate SRS
	Mid	Standard SRS
	High	Enhanced SRS

SRS TruBass®

Produces a clear, rich bass tone

Selections	Off	Deactivates SRS TruBass
	Low	Moderate SRS TruBass
	Mid	Standard SRS TruBass
	High	Enhanced SRS TruBass

SRS Definition®

Improves midrange quality and clarifies voice and instrument sound

Selections	Off	Deactivates SRS Definition
	Low	Moderate SRS Definition
	Mid	Standard SRS Definition
	High	Enhanced SRS Definition

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

 **Note**

-  (SRS WOW HD™) denotes a status where SRS FOCUS, SRS, SRS TruBass and SRS Definition are on.
- You can adjust the sound effect for listening with headphones.
- The effect of this function differs depending on signals.

Using AVC (Auto Volume Control)

Reduces sudden volume change and compensates source sound level. To select this option, follow the procedure below.

- 1 Repeat steps 1 to 3 provided for *Sound adjustments*.
- 2 Select "AVC" (↑/↓).
- 3 Select "On" (←/→).
- 4 Press HOME MENU to exit the menu.



Note

- To cancel this option, select "Off" in step 3.

Using Sound Control

Select this option when "OPTIMUM" is selected in the "AV Selection" menu for optimum audio levels adjusted to the picture.

- 1 Press HOME MENU.
- 2 Select "Setup" (↑/↓ then ENTER).
- 3 Select "Picture" (↑/↓ then ENTER).
- 4 Select "AV Selection" (↑/↓ then ENTER).
- 5 Select "OPTIMUM" (↑/↓ then ENTER).
- 6 Press RETURN to return to the immediately previous menu.
- 7 Select "Sound Control" (↑/↓ then ENTER).
- 8 Select "On" (↑/↓ then ENTER).
- 9 Press HOME MENU again to exit the menu.



Note

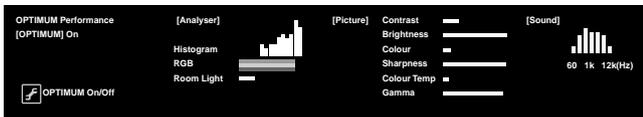
- If "Sound Control" is set to "On" in the "Picture" menu, the "Sound" menu options are unavailable except "AVC".
- This function is unavailable if any option other than "OPTIMUM" is selected.

OPTIMUM Performance

Select this option when "OPTIMUM" is selected in the "AV Selection" menu for optimum picture quality. You can easily recognise the status of adjustments with an on-screen bar graph monitor. For selection, follow the procedure below.

- 1 Repeat steps 1 to 6 provided for *Using Sound Control*.
- 2 Select "OPTIMUM Performance" (↑/↓ then ENTER).

The on-screen bar graph monitor appears.



Note

- OPTIMUM Performance compares the picture and sound quality between "Off" (unadjusted) and "On" (adjusted using the **TOOLS** button).
- This function is unavailable if any option other than "OPTIMUM" is selected.
- When "OPTIMUM" is selected, press and hold **(F)** to display the OPTIMUM Performance. Pressing **(F)** while displaying Teletext pages or subtitles does not cause OPTIMUM Performance to appear.
- To cancel the OPTIMUM Performance, press **EXIT**.
- The OPTIMUM Performance is unavailable for a PC image.

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 "Setup" (↑/↓ then ENTER).
- 3 Select "Power Control" (↑/↓ then ENTER).
- 4 Select "Energy Save" (↑/↓ then ENTER).
- 5 Select "Mode1", "Mode2" or "Off" (↑/↓ then ENTER).

Energy Save

Selections	Off (default)	Provides normally bright pictures
	Mode1	Consumes less power than "Off" mode
	Mode2	Consumes less power than "Mode1"

- 6 Press HOME MENU again 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 "Mode1" is recommended in order to maintain the 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 Repeat steps 1 to 3 provided for *Energy Save*.
- 2 Select "No Signal off" (↑/↓ then ENTER).
- 3 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

- 4 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 flat screen TV after a TV programme 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 Repeat steps 1 to 3 provided for *Energy Save*.
- 2 Select "No Operation off" (↑/↓ then ENTER).
- 3 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

- 4 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 Repeat steps 1 to 3 provided for *Energy Save*.
- 2 Select "Power Management" (↑/↓ then ENTER).
- 3 Select "On" or "Off" (↑/↓ then ENTER).

Item	Description
Off (default)	No power management
On	<ul style="list-style-type: none"> • Places the system into the standby mode when no signal is received from the personal computer for eight minutes. • Even when you start using the computer and a signal is received again, the system stays off. • The system is switched on again by pressing STANDBY/ON on the flat screen TV or TV  on the remote control unit.

- 4 Press HOME MENU to exit the menu.

 **Note**

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

Picture Off

To save energy and extend the life of your flat screen TV, have the screen turn Off. To deactivate the screen, follow the steps below.

- 1 Press TOOLS.
The TOOLS Menu appears on screen.
- 2 Select "Picture Off" (↑/↓ then ENTER).
The screen display turns Off.

To restore the screen display, press any buttons other than +/- and .

 **Note**

- The Picture Off setting is not memorised by the system.

Chapter 9 Enjoying DTV broadcasts

Watching DTV programmes

Digital TV (DTV) opens up a new world of free-to-air terrestrial programming. It provides more channels, clearer picture quality, and various types of useful information. You can enjoy high-quality digital programmes, simply by selecting the channel number from available digital stations on the menu.

 **Note**

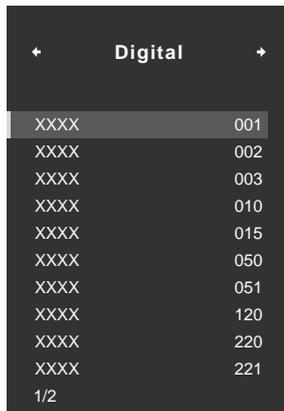
- When executing Auto Installation (page 26), make sure to select "Digital" or "Both" for "Terrestrial Tuner".
- Selecting the DTV mode when no channels yet searched will only display "Digital Tuner Setup" screen with only the item "Installation" selectable.
- While in the DTV mode, press  to display the Teletext screen.

Changing channels

1 Press HOME MENU.

2 Select "Channel" ( then ENTER).

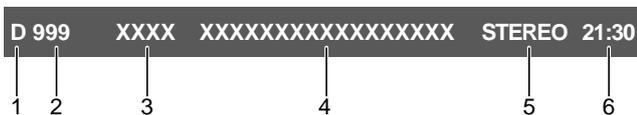
The Digital Channel List appears on screen when viewing a digital terrestrial channel. Pressing  or  causes the channel list to cycle through Favourites List, Input List, Analogue TV List and Digital Channel List.



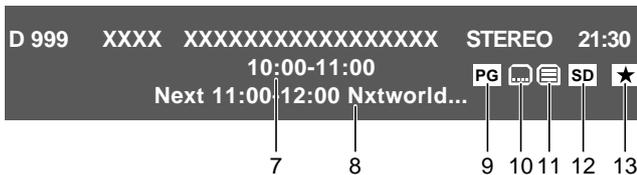
Viewing the "InfoBanner"

When tuning in a TV channel or an input signal changes, an information banner ("InfoBanner") automatically appears at the top of the screen. While watching a programme, press  to display the "InfoBanner" (additional). Press EXIT or  again to hide the banner.

"InfoBanner"



"InfoBanner" (additional)



- 1 Broadcast signal - D (Digital)/A (Analogue)
- 2 Channel number
- 3 Station name
- 4 Programme title

- 5 Sound multiplex information
- 6 Current time
- 7 Programme time schedule
- 8 Next programme time schedule/title
- 9 Parental guide information
- 10 Subtitle icon
- 11 Teletext icon
- 12 Signal information (HD/SD)
- 13 Favourite icon

A separate banner also appears at the bottom of the screen showing the AV Selection mode (bottom left) and screen size (bottom right).

 **Note**

- The "InfoBanner" (additional) appears when:
 - pressing  while watching a TV or video programme
 - pressing  while the "InfoBanner" is displayed
- The above information is not displayed if it is not included in broadcast signal.
- During multiscreen mode, the banner appears in both main and sub screens.

Viewing subtitles

When in the DTV mode, press  to turn subtitles on and off.



 **Note**

- When a programme is recorded with this function on, subtitles are also recorded.

You can also use the TOOLS Menu to select subtitles. Follow the procedure below.

1 Press TOOLS.

The TOOLS Menu appears on screen.

2 Select "Subtitle" (.

3 Select the desired subtitle (.

Selecting "Off" causes the subtitle to disappear.

This option toggles between "On" and "Off" for analogue broadcasts.

Reconfiguring the DTV channel settings

This section describes how to reconfigure the DTV channel settings after setting up DTV channels using Auto Installation (page 26). You can select "Digital Tuner Setup" only when watching DTV channels.

Adding new channels

Use the following procedure to search and register new channels with the current DTV channel setups saved.

- 1 Press **HOME MENU**.
- 2 Select **"Setup"** (↑/↓ then **ENTER**).
- 3 Select **"System Setup"** (↑/↓ then **ENTER**).
- 4 Select **"Digital Tuner Setup"** (↑/↓ then **ENTER**).
- 5 Select **"Installation"** (↑/↓ then **ENTER**).

The password entry screen appears. Enter your four-digit password using buttons 0 to 9.

- 6 Select **"Add New Channels"** (↑/↓ then **ENTER**).

Channel search automatically starts. If any new channel is found, it is automatically registered on the flat screen TV.

To quit a channel search before it finishes, press **RETURN**.

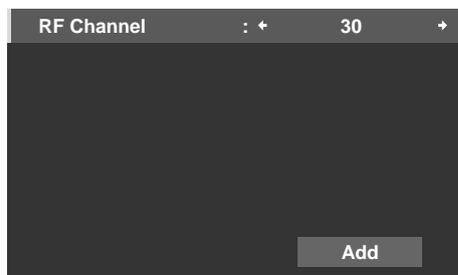
Note

- The password entry screen does not appear if you have disabled the password function. For details, see *Using a password* on page 44.
- You can select "Digital Tuner Setup" only when watching DTV channels.

Checking signal strength

You can check the signal strength and signal quality of each TV channel.

- 1 Repeat steps 1 to 5 provided for *Adding new channels*.
- 2 Select **"Signal Check"** (↑/↓ then **ENTER**).
- 3 Select **"RF Channel"** (↑/↓ then **ENTER**).
- 4 Select the channel to be checked (←/→).



Level : 12% 
Quality : 32% 

Select "Add" to add channels within the selected RF channel (receiving frequency).

Note

- You can select "Digital Tuner Setup" only when watching DTV channels.

Customising channel related settings

This section describes how to customise various channel related settings. These settings include Channel Skip, Channel Lock and Channel Delete.

Setting Channel Options

Use the following procedure to select individual channels and switch on the Channel Skip, Channel Lock or Channel Delete for the channels.

- 1 Repeat steps 1 to 4 provided for *Adding new channels*.

- 2 Select **"Channel management"** (↑/↓ then **ENTER**).

The password entry screen appears. Enter your four-digit password using buttons 0 to 9.

- 3 Select **"Channel Options"** (↑/↓ then **ENTER**).

The Channel Options screen with a list of registered channels appears.

XXXXX	001			
XXXXX	002	✓		
XXXXX	003			
XXXXX	004		✓	
XXXXX	005			
XXXXX	006	✓	✓	
XXXXX	007	✓		
XXXXX	008			
XXXXX	009			

- 4 Select an individual channel (↑/↓/←/→ then **ENTER** to select on/off).

Select ✓ ("On") for  (Channel Skip) if you want the channel to be skipped when operating **P+/P-** on the remote control unit or **CHANNEL +/-** on the flat screen TV (with "Favourites" set to "Off").

Select "On" for  (Channel Lock) if you want the channel not to be tuned without password entry.

Select "On" for  (Channel Delete) if you want the channel to be deleted.

- 5 After the setting is complete, make sure to complete the following steps.

If you have selected any channel for Channel Lock, see *Using a password* on page 44 and set an appropriate four-digit password.

Note

- The password entry screen does not appear if you have disabled the password function. For details, see *Using a password* on page 44.
- You can select "Digital Tuner Setup" only when watching DTV channels.
- If a box is selected in "Channel Delete", pressing **RETURN** displays a confirmation screen. Select "Yes" then press **ENTER** to complete the "Channel Delete" setting.

Activating the Auto Skip

This function lets you skip group of services, such as radio and text data services.

- 1 Repeat steps 1 to 2 provided for *Setting Channel Options*.

- 2 Select **"Auto Skip"** (↑/↓).

- 3 Select a channel to skip (←/→).

You can select from "Off", "Radio", "Data" or "Both".

Note

- "Auto Skip" function lets you skip "group" of services such as radio and text data. On the other hand, individual channel settings set to skip in "Channel Options" screen will not be affected by this setting.
- You can select "Digital Tuner Setup" only when watching DTV channels.

Using the Parental Control

With the Parental Control, parents can prevent their children from watching inappropriate TV programmes. When an attempt is made to watch a blocked programme, the flat screen TV shows nothing but a message. Parental Control functions for digital TV channels.

- 1 Repeat steps 1 to 2 provided for *Setting Channel Options*.

- 2 Select **"Parental Control"** (↑/↓).

- 3 Select the desired rating and change the setting (←/→).

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

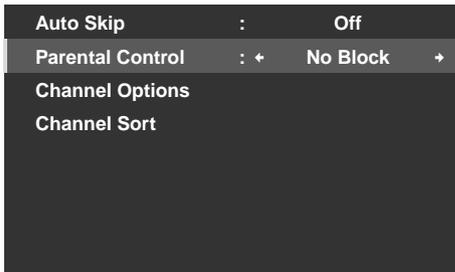
Parental Rating option

You can choose from the following options to block TV programmes:

Rating	Description
No Block (default)	All programmes can be watched without any age limitation
Block All	All programmes are blocked
G	General and above: For general audiences. Not specifically designed for children but all ages are allowed.
PG	Parental Guidance and above: Some material may not be suitable for children. Parental guidance suggested.
M	Mature and above: Mature audience 15+. Programmes are blocked for children under 15.
MA	Mature Adult and above: Specifically designed for adults. Some material may be inappropriate for children under 15.
AV	Adult Violence and above: Programmes are blocked for children under 15 as these programmes contain strong violent content
R	Restricted and above: Programmes contain inappropriate content for children under 18

Note

- You can select "Digital Tuner Setup" only when watching DTV channels.
- The Parental Control setup becomes effective the first time you tune in a TV channel after entering the settings.
- When you select any Parental Control options other than "No Block", the password entry screen appears depending on the programme received. Enter your four-digit password using buttons **0** to **9** (see page 44).
- When you select "No Block", Parental Control does not function in any way.



Sorting preset DTV channels

Use the following procedure to change the sequence of the preset DTV channels.

- Repeat steps 1 to 2 provided for *Setting Channel Options*.
- Select "Channel Sort" (↑/↓ then ENTER).
The Sort screen appears.
- Select a channel to be shifted (↑/↓/←/→ then ENTER).



- Select a new location (↑/↓/←/→ then ENTER).
Sorting is executed.
- Press HOME MENU to exit the menu.

Note

- To change a page on the Sort screen in step 3, select the arrow icon on the screen with ↑/↓/←/→ then press ENTER.
- You can select "Digital Tuner Setup" only when watching DTV channels.

Setting Time Zone

Use this function to display the correct time when the "InfoBanner" (page 35) appears on the screen. Designate the correct city or region you live in, otherwise incorrect time displays.

- Repeat steps 1 to 4 provided for *Adding new channels*.
- Select "Time Zone" (↑/↓).
- Select the region you live in from the list below (←/→).
NSW/ACT (New South Wales/Australian Capital Territory) (default)
VIC (Victoria)
QLD (Queensland)
SA (South Australia)
WA (Western Australia)
TAS (Tasmania)
NT (Northern Territory)
- Press HOME MENU to exit the menu.

Note

- You can select "Digital Tuner Setup" only when watching DTV channels.

Screen Saver

The screen saver automatically starts when no operation is performed for three minutes while receiving DTV radio channels.

Note

- While the screen saver is active, you can perform the following operations:
 - Press TV/DTV to switch to analogue TV.
 - Press any other button to switch to the normal radio channel screen.

Chapter 10

Using the Electronic Programme Guide (EPG) (for DTV only)

EPG display format

The Electronic Programme Guide (EPG) shows the table of scheduled digital terrestrial TV programmes and detailed information about individual programmes. It also allows you to easily select and tune to a desired programme.

The EPG screen consists of the Programme Information, Channel List, and General Programme List. This section describes information to be displayed on the schedule and information windows.

Note

- For digital TV programmes that do not provide EPG information, you cannot view the corresponding EPG information.

- If the current time has not been correctly set, there may be TV programmes whose EPG information is not displayed.

General programme list

You can select "All Ch" or "Favourites" for the Programme List. Press **TOOLS** on the remote control unit then select "Channel Mode".

All Ch: Lists all channels registered in the Channel List for the broadcast network you are watching.

Favourites: Lists all channels registered in the Favourites List for the broadcast network you are watching. If not registered in the Favourites List, the channel you are watching also appears in the list.

Programme List screen

Channel	9:30 Today	10:00	10:30	11:00
026				
027	*****		*****	
028	*****	*****		*****
029				
030	*****	*****		*****
001	*****		*****	
002				
003	*****		*****	
004	*****	*****		*****

- Time schedule
- Current date and time
- Channel mode
- Channel list
- Highlights the currently selected channel.
- Programme title
- Indicates more programme information is available.
- Scroll bar: appears when the schedule table can be scrolled forward or backward.

Programme information

While watching programme information on the EPG screen, select the desired programme and press **TOOLS** to display the Programme Information screen.

1 Press TOOLS.

The TOOLS Menu appears on screen.

2 Select "Programme Information" (↑/↓ then ENTER).

Note

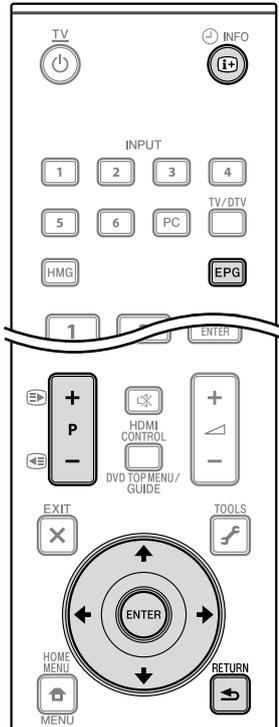
- Pressing **IF** while a programme currently on-air or programme not yet started is highlighted also causes the Programme Information screen to appear.

***	101	Wed 24. Jan	23:30-23:55
XXXXXXXXXXXXXXXXXXXX			
Genre : Movie/Drama			
Dolby Digital PG SD ★			

- Station name
- Channel number
- Programme schedule
- Programme title
- Programme genre
- Appears when there is another programme information before or after the selected programme.

Using the EPG

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



(for PDP-LX609A/PDP-LX509A)

1 Press EPG or select "EPG" from the HOME MENU.

The EPG screen appears.

The EPG screen updates automatically if the EPG data is acquired successfully. If not, "No Channels" appears in the programme information space.

2 Select a desired TV programme (↑/↓, ←/→).

Press **P+/P-** to skip to the next or previous channel list page.

You can also press and hold **↑/↓** to skip to the next or previous list page.

Information about the selected programme appears in the information window.

To watch a programme currently on air, select the programme (then **ENTER**).

You can check information about programmes scheduled up to one week ahead, depending on conditions.

Depending on conditions, it may take some time to acquire EPG data.

3 To view more information (not currently displayed) about the selected programme, press **INFO**.

Programme Information appears in the schedule window.

If the screen contains further information, "<" or ">" is displayed. Press the **←** or **→** button to view the entire information.

To quit the display of detailed information, press **INFO** again (or **RETURN**).

4 To quit the Programme Guide, press EPG again.



Note

- The general programme list does not show finished programmes.
- 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 63.

Using other useful EPG functions

Below are some useful functions that guide you through the EPG screen and save your time.

EPG Jump

1 Press **TOOLS** when the EPG screen (Programme List, Programme Information and Search Result) is displayed.

The **TOOLS** Menu appears on screen.

2 Select "JUMP(6Hour)", "JUMP(2Hour)" or "JUMP(Day)" (↑/↓).

3 Select the desired option (←/→).

If you select "JUMP(6Hour)" or "JUMP(2Hour)", select "+6Hour" or "-6Hour", or "+2Hour" or "-2Hour".



Note

- Refer to the **TOOLS** Menu on page 53.

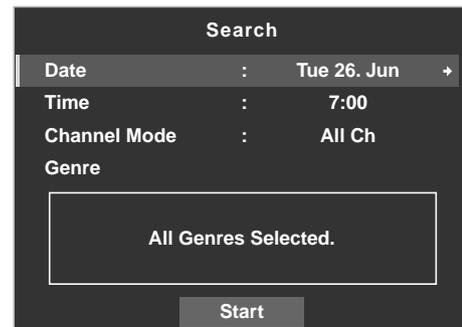
EPG Search

1 Press **TOOLS** when the EPG screen (Programme List, Programme Information and Search Result) is displayed.

The **TOOLS** Menu appears on screen.

2 Select "Search" (↑/↓ then **ENTER**).

3 Select "Date" (↑/↓).



4 Select the day (within one week) to search (←/→).

5 Select "Time" (↑/↓).

6 Select the time of the day (0:00 to 23:00) to search (←/→).

7 Select "Channel Mode" (↑/↓).

8 Select whether to search "All Ch" or "Favourites" (←/→).

9 Select "Genre" (↑/↓ then **ENTER**).

10 Select the genre(s) to search (↑/↓, ←/→ then **ENTER**).

Pressing **ENTER** again will delete the selected genre from the search list.

11 Select "OK" (↑/↓, ←/→ then **ENTER**).

An EPG search with your customised settings starts.

Pressing **ENTER** while "Start" is selected on the Search screen causes the Search Result to appear on screen.

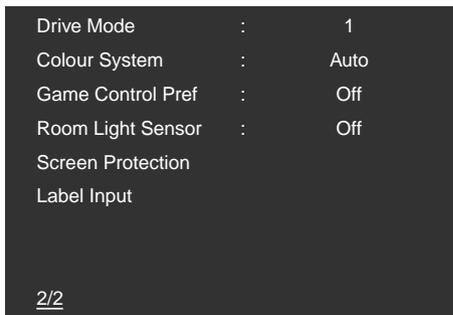
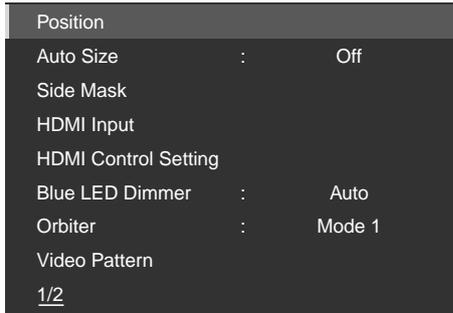
"No programme found." appears if no programmes are available.

Chapter 11

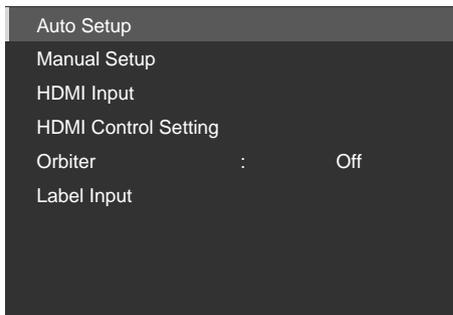
Useful adjustment settings

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 bottom left corner on the screen.



(For AV source)



(For PC source)

Switching the vertical drive mode (AV source only)

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

- 1 Press **HOME MENU**.
- 2 Select **"Setup"** (**↑/↓** then **ENTER**).
- 3 Select **"Option"** (**↑/↓** then **ENTER**).
- 4 Select **"Drive Mode"** (**↑/↓** then **ENTER**).
- 5 Select the desired parameter (**↑/↓** then **ENTER**).

Drive Mode

Controls the driving frequency for output signals

Selections	1	Standard mode as well balanced setting for general sources
	2	Suitable setting for pictures with scrolling text
	3	Setting for smoother reproduction of movies, etc.

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



Note

- This setting can be made for each input source separately.
- 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)

This setting adjusts the horizontal and vertical positions of images on the flat screen TV.

- 1 Repeat steps 1 to 3 provided for *Switching the vertical drive mode (AV source only)*.
- 2 Select **"Position"** (**↑/↓** then **ENTER**).
- 3 Select **"H/V Position Adjust"** (**↑/↓** then **ENTER**).
- 4 Adjust the vertical position (**↑/↓**) or the horizontal position (**←/→**).
- 5 Press **HOME MENU** to exit the menu.



Note

- 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**.
- Adjustments are stored separately according to input source.
- Depending on the displayed video, the image position may not change even after adjustment.
- When "Dot by Dot" is selected for the screen mode, the "Position" menu is dimmed.

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 Repeat steps 1 to 3 provided for *Switching the vertical drive mode (AV source only)*.
- 2 Select **"Auto Setup"** (**↑/↓** then **ENTER**).
A message screen appears and Auto Setup starts.
- 3 Press **HOME MENU** to exit the menu.



Note

- When Auto Setup is finished, "Setup complete." appears.
- Even when "Setup complete." 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 flat screen TV 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.

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 optimise the position and clock of images when necessary.

- 1 Repeat steps 1 to 3 provided for *Switching the vertical drive mode (AV source only)*.
- 2 Select "Manual Setup" (↑/↓ then ENTER).
- 3 Select the item to be adjusted (↑/↓ then ENTER).
- 4 Perform adjustment (↑/↓ and ←/→).
With "Clock" or "Phase" selected, you can perform adjustment in the parameter using ←/→.
- 5 Press HOME MENU to exit the menu.

Note

- 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.
- 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.

Colour system setting

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

- 1 Repeat steps 1 to 3 provided for *Switching the vertical drive mode (AV source only)*.
- 2 Select "Colour System" (↑/↓ then ENTER).
- 3 Select a video signal system (↑/↓ then ENTER).
You can select "Auto", "PAL", "SECAM", "NTSC", or "4.43NTSC".
With "Auto" selected, input signals are automatically identified.
- 4 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 colour system setting for each of "INPUT 1", "INPUT 2" and "INPUT 3".

Selecting a game mode

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

- 1 Repeat steps 1 to 3 provided for *Switching the vertical drive mode (AV source only)*.
- 2 Select "Game Control Pref" (↑/↓ then ENTER).
- 3 Select "On" or "Off" (↑/↓ then ENTER).

Item	Description
On	Establishes a preference for operability
Off (default)	Establishes a preference for image quality

- 4 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 **AS** to switch among the screen size options selectable for the type of video signals currently received.

Each time you press **AS**, 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
Auto	Adds side masks or displays the image in full screen when High Definition pictures containing side masks are detected. See <i>Detecting side masks</i> on page 42.
4:3	For standard 4:3 pictures. A side mask appears on each side.
FULL 14:9	For 14:9 squeeze pictures. A thin side mask appears on each side.
CINEMA 14:9	For 14:9 letterbox pictures. A thin side mask appears on each side, and you may also see bars on the top and bottom on some programmes.
WIDE	Pictures progressively stretch toward each side
WIDE 1	Pictures progressively stretch toward each side
WIDE 2	Pictures evenly stretch toward each side
FULL	For 16:9 squeeze pictures
Dot by Dot	Matches input signal to the same number of screen pixels (selectable for 1080i or 1080p signals only)
ZOOM	For 16:9 letterbox pictures. Bars may appear on the top and bottom on some programmes.
CINEMA	For 14:9 letterbox pictures. Bars may appear on the top and bottom on some programmes.

PC source

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

Note

- Pressing **TOOLS** also causes the "Screen Size" menu to appear.
- While receiving High Definition video signals, pressing **AS** switches among "Auto", "FULL", "Dot by Dot", "ZOOM", "4:3", "WIDE 1" and "WIDE 2".
- While receiving Standard Definition video signals, pressing **AS** switches among "FULL", "ZOOM", "CINEMA", "4:3", "FULL 14:9", "CINEMA 14:9" and "WIDE".
- 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* on page 42).

Selecting a screen size automatically

The flat screen TV automatically selects an appropriate screen size when the received video signals contain WSS (wide screen signalling) information or when video signals are received from the connected HDMI equipment (see page 48). To activate this function, use the following procedure.

- 1 Repeat steps 1 to 3 provided for *Switching the vertical drive mode (AV source only)*.
- 2 Select "Auto Size" (↑/↓ then ENTER).
- 3 Select "Natural" or "Wide-Zoom" (↑/↓ then ENTER).

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

- 4 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 flat screen TV automatically detects these side masks to provide grey 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 Repeat steps 1 to 3 provided for *Switching the vertical drive mode (AV source only)*.
- 2 Select "Side Mask" (↑/↓ then ENTER).
- 3 Select "Detection" (↑/↓).
- 4 Select "Mode 1" or "Mode 2" (←/→).

Item	Description
Off	Deactivates the Side Mask detection
Mode 1 (default)	Activates the Side Mask detection to detect only black side masks
Mode 2	Activates the Side Mask detection to detect both black and other illustrated side masks

- 5 Press HOME MENU to exit the menu.

Important

- The "Mode 1" or "Mode 2" setting prevents uneven wear on 4:3 content and side masks and can reduce the possibility of image retention.

Note

- You cannot set the Side Mask detection to "Mode 1", "Mode 2" 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 InfoBanner when this function is on.
- Set the Side Mask detection function to "Mode 1" or "Mode 2" 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.

Selecting a wide mode

The HD Wide Mode adjusts the side masks that appear in a 4:3 image. Select from "Mode 1" or "Mode 2" when "Wide-Zoom" is selected in "Auto Size".

- 1 Repeat steps 1 to 3 provided for *Switching the vertical drive mode (AV source only)*.
- 2 Select "Side Mask" (↑/↓ then ENTER).
- 3 Select "HD Wide Mode" (↑/↓).
- 4 Select "Mode 1" or "Mode 2" (←/→).
If you select "Mode 1", Side Mask Detection is automatically set to "WIDE 1" when side masks are detected with "Wide-Zoom" for Auto Size setting.
If you select "Mode 2", Side Mask Detection is automatically set to "WIDE 2" when side masks are detected with "Wide-Zoom" for Auto Size setting.
- 5 Press HOME MENU to exit the menu.

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

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

- 1 Repeat steps 1 to 3 provided for *Switching the vertical drive mode (AV source only)*.
- 2 Select "Side Mask" (↑/↓ then ENTER).
- 3 Select "Brightness Sync." (↑/↓).
- 4 Select the desired parameter (←/→).

Item	Description
Fixed (default)	Always sets the same brightness for the grey side masks
Auto	Adjusts the brightness of the grey 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.
- 5 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 Repeat steps 1 to 3 provided for *Switching the vertical drive mode (AV source only)*.
- 2 Select "Room Light Sensor" (↑/↓ then ENTER).
- 3 Select "On" or "Off" (↑/↓ then ENTER).

Item	Description
On	Activates the Room Light Sensor function
Off (default)	Deactivates the Room Light Sensor function

- 4 Press HOME MENU to exit the menu.



Note

- When you have selected "OPTIMUM" on the "AV Selection" menu, the Room Light Sensor function will stay "On" even if you select "Off" in step 3.
- This function is not available when PC signals are received.
- As this function automatically optimises 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 Repeat steps 1 to 3 provided for *Switching the vertical drive mode (AV source only)*.
- 2 Select "Blue LED Dimmer" (↑/↓ then ENTER).
- 3 Select "Auto", "High", "Mid" or "Low" (↑/↓ then ENTER).
- 4 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 Repeat steps 1 to 3 provided for *Switching the vertical drive mode (AV source only)*.
- 2 Select "Orbiter" (↑/↓ then ENTER).
- 3 Select "Mode 1" or "Mode 2" (↑/↓ then ENTER).

(AV source)

Item	Description
Off	Disables the Orbiter
Mode 1 (default)	Enables the display protection function for any screen mode other than "Dot by Dot"
Mode 2	Enables the display protection function for all available screen modes

(PC source)

Item	Description
Off (default)	Disables the Orbiter
Mode 1	Enables the Orbiter
Mode 2	Smooths text/characters display

- 4 Press HOME MENU to exit the menu.
To cancel this function, select "Off" in step 3.



Note

- For the Dot by Dot mode, see *Selecting a screen size manually* on page 41.

Video Pattern

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

- 1 Repeat steps 1 to 3 provided for *Switching the vertical drive mode (AV source only)*.
- 2 Select "Video Pattern" (↑/↓ then ENTER).
A confirmation screen appears.
- 3 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 TV ⏻ on the remote control unit, **STANDBY/ON** and Power On (⏻) on the flat screen TV. If any of the above buttons is pressed, a message appears on screen (the Video Pattern function is on).
- To cancel the Video Pattern screen, press TV ⏻ on the remote control unit, press **STANDBY/ON** or turn Power On (⏻) off on the flat screen TV.

- The Video Pattern timer has priority over the sleep timer. When the Video Pattern timer is on, the sleep timer becomes ineffective.

Screen Protection

This function establishes multiple settings for a longer display life. To select this option, follow the procedure below.

- 1 Repeat steps 1 to 3 provided for *Switching the vertical drive mode (AV source only)*.
- 2 Select "Screen Protection" (↑/↓ then ENTER).
The following settings are automatically entered:
 - Auto Size: Wide-Zoom
 - Side Mask - Detection: Mode 1
 - Orbiter: Mode 1
 - Energy Save: Mode 1
 - AV Selection: OPTIMUM (when "DYNAMIC" is selected for "AV Selection")
- 3 Select "Yes" or "No" (←/→ then ENTER).
- 4 Press HOME MENU to exit the menu.

Label Input

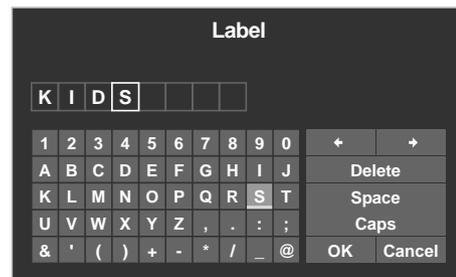
You can enter the broadcast name in each channel using the on-screen software keyboard. For entry, follow the procedure below.

- 1 Repeat steps 1 to 3 provided for *Switching the vertical drive mode (AV source only)*.
- 2 Select "Label Input" (↑/↓ then ENTER).
- 3 Select an input (↑/↓ then ENTER).

The software keyboard appears.

For entry, highlight the desired key, then press **ENTER**. Up to eight characters can be entered for each label.

Refer to step 7 for *Labelling TV channels* on page 27.



Sleep Timer

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

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



Note

- Pressing **TOOLS** also causes the "Sleep" menu to appear.
- Five minutes before the selected time elapses, the remaining time appears every minute.
- When the sleep timer has been set, "Remain --min" appears at the top of the menu.

Using a password

The flat screen TV provides the Channel Lock function for preventing children from watching inappropriate programmes. You need to enter a password when watching programmes 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", "Analogue TV Setup", "Installation", "Channel management" or "Password" functions from the HOME MENU. This is to prevent unauthorised changes to the settings.

Entering a password

You will need to enter the password after selecting a channel blocked with the Channel Lock function, and before you can use some of the menu functions.

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



Note

- If you fail to enter the correct password 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.

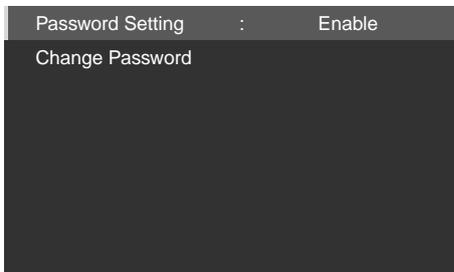
Changing the password

Use the following procedure to change the password.

- 1 Press HOME MENU.
- 2 Select "Setup" (↑/↓ then ENTER).
- 3 Select "System Setup" (↑/↓ then ENTER).
- 4 Select "Password" (↑/↓ then ENTER).

The password entry screen appears. Enter the current four-digit password using buttons 0 to 9.

- 5 Select "Change Password" (↑/↓ then ENTER).



- 6 Enter a four-digit password to be newly set, using buttons 0 to 9.

- 7 Enter the same password that you have entered in step 6.

If a different password is entered, the operation goes back to step 6 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.

- 8 Press HOME MENU again to exit the menu.

Note

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

Disabling the password function

Use the following procedure if you want to deactivate the protection function that prompts password entry. The factory default is "Enable".

- 1 Repeat steps 1 to 4 provided for *Changing the password*.

- 2 Select "Password Setting" (↑/↓ then ENTER).

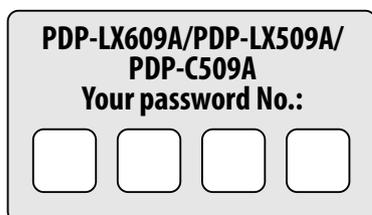
- 3 Select "Disable" (↑/↓ then ENTER).

- 4 Press HOME MENU to exit the menu.

Note

- The above procedure will reset the password to the factory default (1 2 3 4).
- After disabling the password function, you cannot change the following settings:
 - Channel Lock (see *Setting Channel Lock* on page 26)
 - Parental Control (see *Using the Parental Control* on page 36)
- After disabling the password function, you cannot change or reset the password.
- When you enable the password function again after disabling it, the factory default password (1 2 3 4) is restored.

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



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".

Chapter 12

Using with other equipment

You can connect many types of external equipment to your flat screen TV, like a DVD player, set-top box, VCR, game console, personal computer 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 (page 13) or **INPUT** on the flat screen TV.

 **Caution**

- To protect all equipment, always unplug the flat screen TV from the power outlet before connecting to a DVD player, set-top box, VCR, game console, personal computer, camcorder or other external equipment.

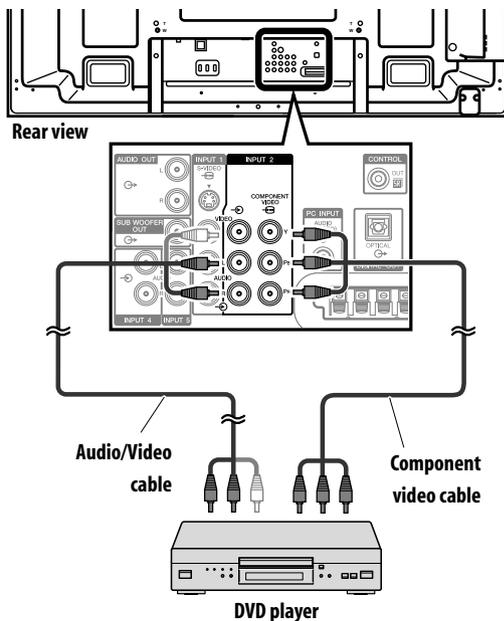
 **Note**

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

Connecting a DVD player

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

Use either 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

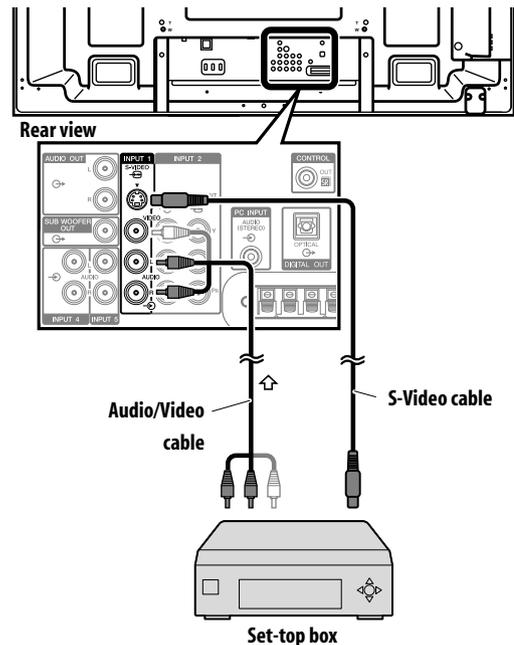
To watch a DVD, press **INPUT 2** on the remote control unit or press **INPUT** on the flat screen TV to select "INPUT 2".

 **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 type.

Connecting a set-top box

Use the **INPUT 1** terminals when connecting a set-top box and other audiovisual equipment.



Displaying broadcasts via a set-top box

To watch a set-top box image, press **INPUT 1** on the remote control unit or press **INPUT** on the flat screen TV to select "INPUT 1".

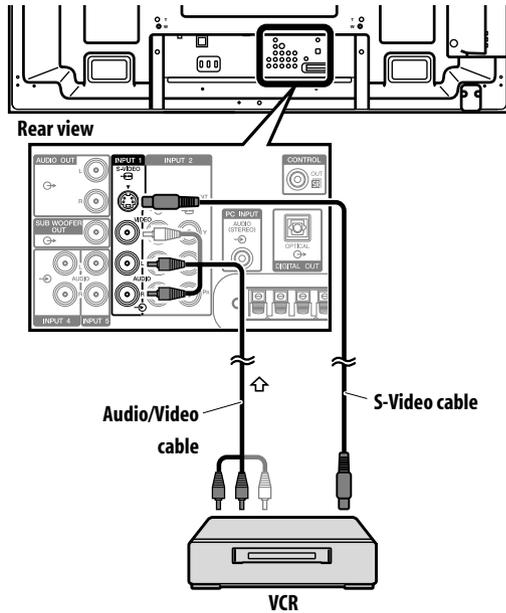
 **Note**

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

Connecting a VCR

Use the INPUT 1 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

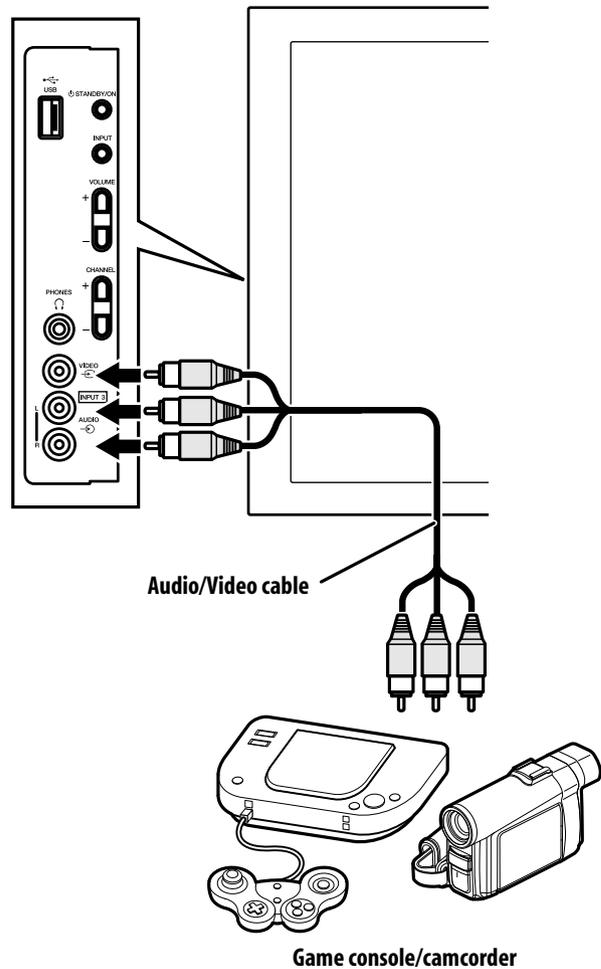
To watch a VCR image, press **INPUT 1** on the remote control unit or press **INPUT** on the flat screen TV to select "INPUT 1".

Note

- Signal priority for the INPUT 1 terminals is (1) S-Video, (2) Video.
- Connect external equipment to only terminals that are to be actually used.
- Refer to your VCR operation manual for the signal type.

Connecting a game console or camcorder

Use the INPUT 3 terminals to connect a game console, camcorder and other audiovisual equipment.



Displaying an image from the game console or camcorder

To watch an image coming from the game console or camcorder, press **INPUT 3** on the remote control unit or press **INPUT** on the flat screen TV to select "INPUT 3".

Note

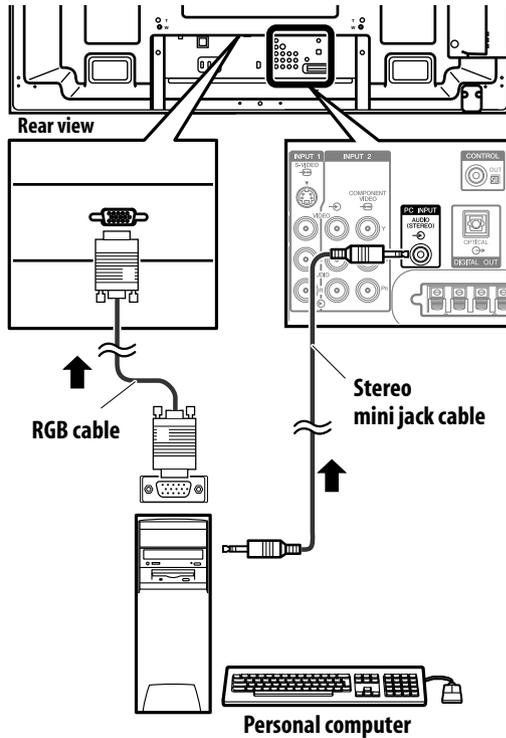
- Connect external equipment to only terminals that are to be actually used.

Connecting a personal computer

Use the PC terminals to connect a personal computer.

Note

- The PC input terminals are DDC2B-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 flat screen TV 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 40.

Note

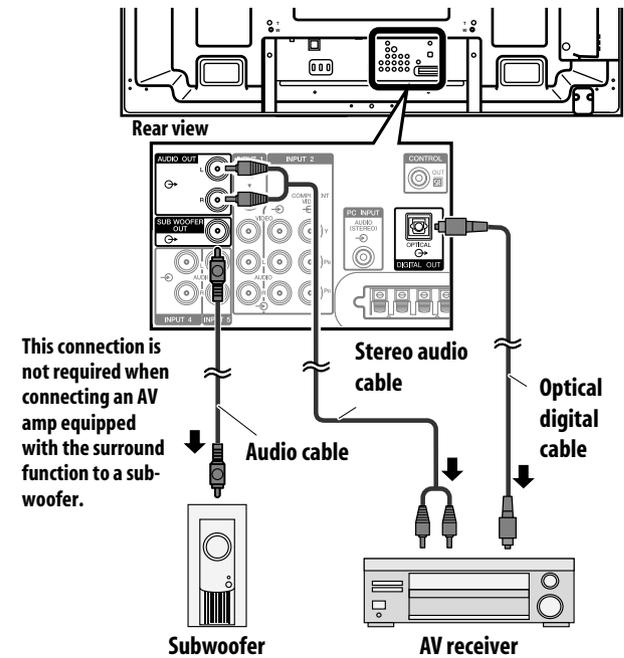
- The PC terminals cannot be used for audiovisual equipment.

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 such audio equipment as an amplifier/AV receiver or subwoofer to the flat screen TV.



Selecting a digital audio format

Audio signals synchronised with currently displayed images are output to the AUDIO OUT terminals. However, audio accompanying the images are output to the SUB WOOFER OUT terminal.

When using the digital audio output terminal (optical), select settings according to your AV receiver.

- 1 Press **HOME MENU**.
- 2 Select **"Setup"** (↑/↓ then **ENTER**).
- 3 Select **"System Setup"** (↑/↓ then **ENTER**).
- 4 Select **"Digital Audio Output"** (↑/↓ then **ENTER**).
Select "Dolby Digital" (default) or "PCM".
- 5 Press **HOME MENU** again to exit the menu.

Note

- For details, refer to the operation manual for the audio equipment to be connected.
- When signals are input from the HDMI terminals, no signals are output if they are copy guarded.
- While in DTV mode, no signals are output if they are copy guarded.

Using the HDMI Input

The INPUT 4, INPUT 5 and INPUT 6 terminals are HDMI terminals to which digital video and audio signals can be input. To use the HDMI terminal, activate the terminal and specify the types of video and audio signals to be received from the connected equipment. For the types of these signals, see the operation manual that came with the connected equipment.

Before starting the menu, press **INPUT 4**, **INPUT 5** or **INPUT 6** on the remote control unit or press **INPUT** on the flat screen TV to select "INPUT 4", "INPUT 5" or "INPUT 6".

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 flat screen TV supports the HDMI Control functions. By connecting devices that support the HDMI Control functions to the flat screen TV, you can control the connected device(s) from the flat screen TV or remote control unit of the flat screen TV. See *Using the HDMI Control* on Chapter 13.

Deep Colour supported

Deep Colour means the colour depth that describes the number of bits used to represent the colour of a single pixel in a bitmapped image. Besides the conventional RGB/YCbCr16 bit/20 bit/24 bit signals, the flat screen TV also supports RGB/YCbCr30 bit/36 bit signals. This enables finer, minute colour reproduction when a device that supports Deep Colour signals is connected to the flat screen TV. When Deep Colour signals are received, the colour depth appears on the InfoBanner (see page 35).

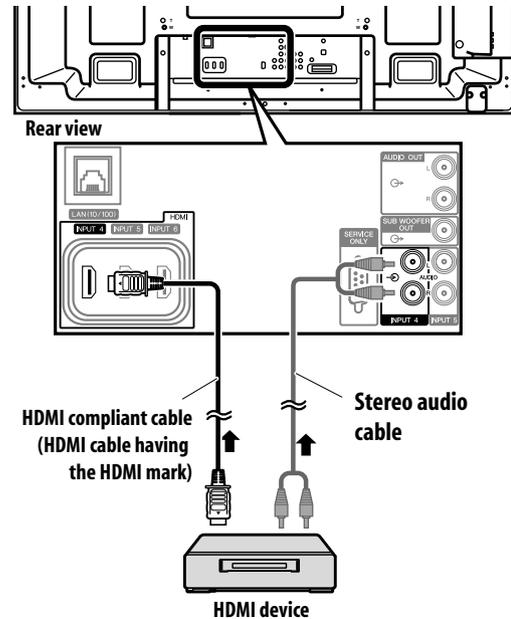
Note

- 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 flat screen TV may not display properly. If that is the case, consult with your PC manufacturer.

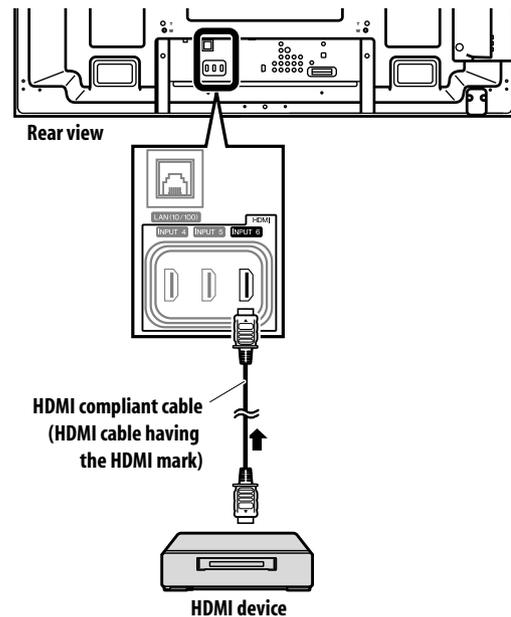
- PC picture and/or sound may not be displayed or heard properly depending on the PC used.

Connecting HDMI equipment

When using the INPUT 4 HDMI terminal:



When using the INPUT 6 HDMI terminal:



Specifying the type of input signals

- 1 Press HOME MENU.
- 2 Select "Setup" (↑/↓ then ENTER).
- 3 Select "Option" (↑/↓ then ENTER).
- 4 Select "HDMI Input" (↑/↓ then ENTER).
- 5 Select "Signal Type" (↑/↓ then ENTER).
- 6 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

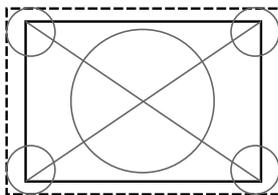
- 7 Press HOME MENU again to exit the menu.

Caution

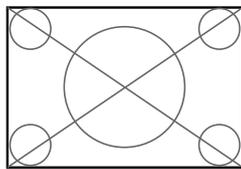
- Make sure to select "PC" when a PC is connected to the HDMI input terminal.

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)

Specifying the type of digital video signals

- 1 Repeat steps 1 to 4 provided for *Specifying the type of input signals*.
- 2 Select "Video" (↑/↓ then ENTER).
- 3 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
Colour-1	Digital Component Video signals (4:2:2) locked
Colour-2	Digital Component Video signals (4:4:4) locked
Colour-3	Digital RGB signals (16 to 235) locked
Colour-4	Digital RGB signals (0 to 255) locked

- 4 Press HOME MENU to exit the menu.

Note

- If you select a parameter other than "Auto", make such a setting that results in natural colour.
- If no image appears, specify another digital video signal type.
- For the digital video signal types to be specified, check the operation manual that came with the connected equipment.

Specifying the type of audio signals

When you use the INPUT 4 or INPUT 5 HDMI terminal, select the terminal for the desired input source, then perform the following procedure to specify the type of audio signals.

- 1 Repeat steps 1 to 4 provided for *Specifying the type of input 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
Analogue	Accepts analogue audio signals

- 4 Press HOME MENU to exit the menu.

Note

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

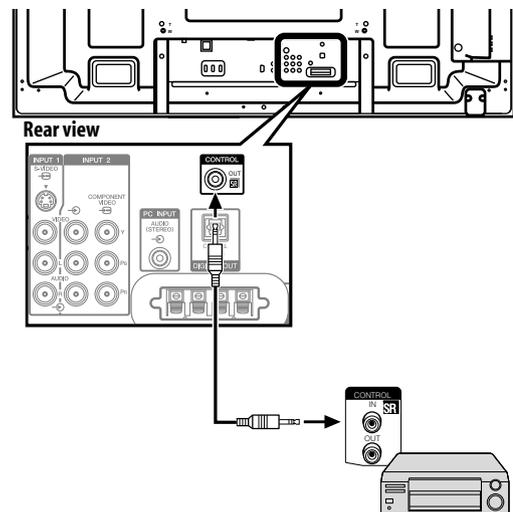
Connecting control cords

Connect control cords between the flat screen TV and other Pioneer equipment having the SR logo. You can then operate the connected equipment by sending commands from its remote control unit to the remote control sensor on the flat screen TV.

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 sensors on the flat screen TV 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.



Operate the Home Media Gallery (PDP-LX609A/PDP-LX509A only)

With Home Media Gallery, you can enjoy digital content such as movies, music, and photo files on your high-end flat screen TV. Play content from files stored on one or more media servers connected by a home or local area network (LAN) or those stored on a USB flash drive. After connecting via a broadband router or an Ethernet hub to a media server with network software, navigate through the digital content visible on the Home Media Gallery. The flat screen TV supports Mass Storage Class and PTP devices through USB interface and DLNA-compatible devices through the network.

DLNA CERTIFIED™ Audio/Video/Image Player

This unit complies with the DLNA Networked Device Interoperability Guidelines - expanded: October 2006 (v1.5).

When a PC running DLNA server software or other DLNA-compatible device is connected to this player, some setting changes of software or other devices may be required. Please refer to the operating instructions for the software or device for more information.

Supported file formats

The following sections show supported file formats that can be played back or displayed on the flat screen TV. These formats are applicable to network sources. Most are also applicable to USB sources. However, media server content protected by digital rights management such as WMDRM10 (Windows Media Digital Rights Management 10), may not play on the panel.

Supported video formats

- Windows Media Video 9 (WMV9): MP@ML
- Windows Media Video 9 (WMV9) Advanced Profile (VC-1): AP@L1, MP@ML
- MPEG-2 PS: MP@ML
- MPEG-2 TS: MP@ML
- MPEG-1
- MPEG-4 Part2 (SP/ASP): SP@L3, ASP@L5
- MPEG-4 Part10 (H.264/AVC): Main Profile 3.0

Supported audio formats

- Windows Media Audio 9 (WMA9): Sampling rates; 44.1 kHz or 48 kHz
- MPEG-1 Audio Layer 3 (MP3): Sampling rates; 32 kHz, 44.1 kHz or 48 kHz
- Linear PCM (WAV): Sampling rates; 44.1 kHz or 48 kHz
- MPEG-4 AAC: Sampling rates; 16 kHz, 32 kHz, 44.1 kHz or 48 kHz
- HE-AAC: Sampling rates; 16 kHz, 32 kHz, 44.1 kHz or 48 kHz

Supported image formats

- JPEG: Resolution; up to 3680 x 2760 pixels
- PNG: Resolution; up to 3680 x 2760 pixels
- GIF: Resolution; up to 3680 x 2760 pixels
- TIFF: Resolution; up to 1600 x 1200 pixels
- BMP: Resolution; up to 3072 x 2304 pixels

Supported file extensions

This product supports the playback of files with the following extensions.

- Video: .wmv, .asf, .mpg, .mpeg, .mpe, .m2p, .m4v, .mp4v, .mp4, .mov
- Audio: .wma, .mp3, .wav, .m4a, .aac
- Image: .jpg, .jpeg, .png, .gif, .bmp, .tif, .tiff

Note

- Even the supported format files that are listed above may or may not play properly or completely, depending on the media server, USB device, bit rate stream and other content characteristics, as well as other factors.

Even when files have a supported file extension, some files may not play or display properly, depending on the content or media server type.

Some formats may not be supported nor displayed on the Home Media Gallery as formats that individual media servers support vary. Refer to the media server manufacturer's or other relevant websites for supported formats. Although a particular format is supported, not all content functions may operate properly. If the content fails to appear properly, contact the content producer for assistance. In addition, some supported file formats may fail to play properly when imported from an unknown USB device.

Note

- You cannot use the Home Media Gallery until dimmed elements on the menu screen turn white.
- Some Home Media Gallery functions, such as trick play during Fast Forward and Rewind, Time Search and Search, may not work depending on the media server's capability and functionality.
- Home Media Gallery complies with the DLNA Networked Device Interoperability Guidelines - expanded: October 2006 (v1.5). If your media server supports different DLNA version(s), some Home Media Gallery function(s) and content format(s) may not be supported.
- Pioneer is not responsible for any malfunction of the Home Media Gallery features due to communication error/malfunctions associated with your network connection and/or your PC, or other connected equipment. Contact your PC manufacturer or Internet service provider.
- Content may not play or display properly, depending on the conditions of use or media server in use.
- The Home Media Gallery functions as a WMDRM10-ND (Microsoft Windows Media DRM for networked devices). Content can only be navigated from the media servers that support WMDRM10-ND. Content may not play, depending on the DRM protection level.
- This system may not display content from incompatible memory cards.
- On rare occasions while using Home Media Gallery, a discharge of static electricity may force the menu to close. If the menu closes unexpectedly, turn the panel off, turn it back on then repeat the steps from the beginning to open the Home Media Gallery menu again.

Network connections

To connect to a network, set up the Home Media Gallery through the Home Media Gallery menu. Press the **HMG** button on the remote control to cause the menu to appear. To use the Home Media Gallery, connect to a home network (LAN) via an Ethernet hub or cable directly to a media server.

Usable media servers

A media server contains digital content such as movies, music, and photo files. PCs that have pre-installed media server software and recorders with a media server function are considered the media server. There are some media servers that you can choose from; for example, Windows Media Connect, Windows Media Player that has a media sharing function, and DLNA compliant servers.

- Windows Media Connect 2.0
Windows Media Connect runs on a 32-bit PC with Windows XP Service Pack 2 (SP2) installed.
When it is already installed, you can enjoy Home Media Gallery using your PC.
- Windows Media Player 11 for Windows XP
Windows Media Player 11 features Media Sharing that runs on a 32-bit PC with Windows XP Service Pack 2 (SP2) installed.
If Windows Media Connect 2.0 is not installed in your PC, you can download Windows Media Player 11 from Microsoft's website.
- Windows Media Player 11 for Windows Vista
Windows Media Player 11 is featured in 32-bit Windows Vista PCs.

When selecting the most suitable media server, please visit Microsoft's website for system requirements, known issues, installation procedures, and other updated information.

- DLNA CERTIFIED™ digital media servers
The server is a DLNA-certified digital media server such as PC software, PCs and other devices installed with DLNA-certified software. When a PC running DLNA server software or other DLNA-compatible device is connected to this player, some setting changes of the software or device may be required. Refer to the device(s) operating instructions for more information.

Connect via an Ethernet hub

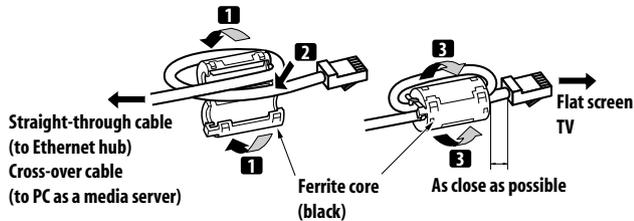
If already operating one or more media servers on a home or local area network (LAN), connect the flat screen TV to the Ethernet (LAN) hub using a standard ("straight-through") Ethernet (LAN) cable. See the diagram below.

Attaching the ferrite core to the Ethernet (LAN) cable

Regarding the Ethernet (LAN) cable, attach the supplied ferrite core once, and then fasten the catch. If you do not do this, the flat screen TV will not conform to mandatory C-Tick regulation.

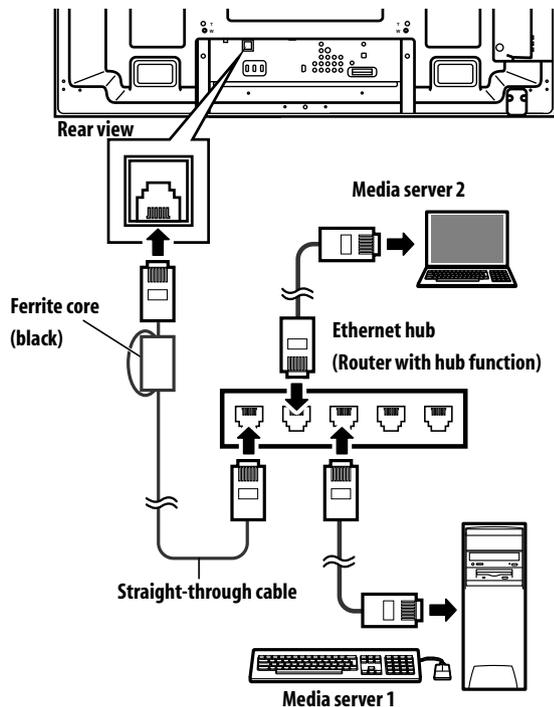
Caution

- Use the black ferrite core and install it as close to the flat screen TV as possible.



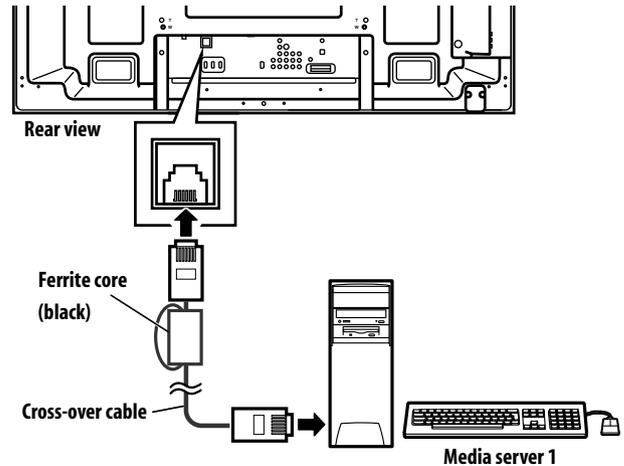
Note

- Although the Home Media Gallery supports 10BASE-T, it is better to use 100BASE-TX for improved display quality and speed.



Connect directly to a media server

To run a PC as a media server, connect the flat screen TV directly to the PC using a twisted ("cross-over") Ethernet (LAN) cable. See the diagram below.



Confirm the IP Address

After making the network connection, follow the instructions below to confirm the IP Address before accessing the network. (The setup is effective for Auto only. To perform the procedure, DHCP on your server or router must be valid. See *HMG Setup* on page 60.)

- Press **HMG** on the remote control.
The Home Media Gallery menu appears on screen.
- Select **"HMG Setup"**.
Use the arrow buttons to highlight an option.
- Press **ENTER**.
- Select **"Network Setup"**.
- Select **"Auto DHCP"**.
The screen turns from "Select" mode to "Input" mode.
- Select **"Yes"**.
- Press **RETURN**.

The HMG Setup screen returns.
The IP Address is assigned.

The Home Media Gallery supports Auto IP and DHCP (Dynamic Host Configuration Protocol). If the system failed to assign the IP Address or if you want to obtain different addresses, select "No" then enter IP Address and Subnet mask. See *Network Setup* or *HMG Setup* to enter an address manually.

For information on DHCP, refer to network device's operating instructions.

You may need to contact your service provider or network administrator when manually entering an IP Address.

Some media servers block or are programmed to block access to client servers. When connecting the flat screen TV, check the media server for client server access rights.

Connect a USB device

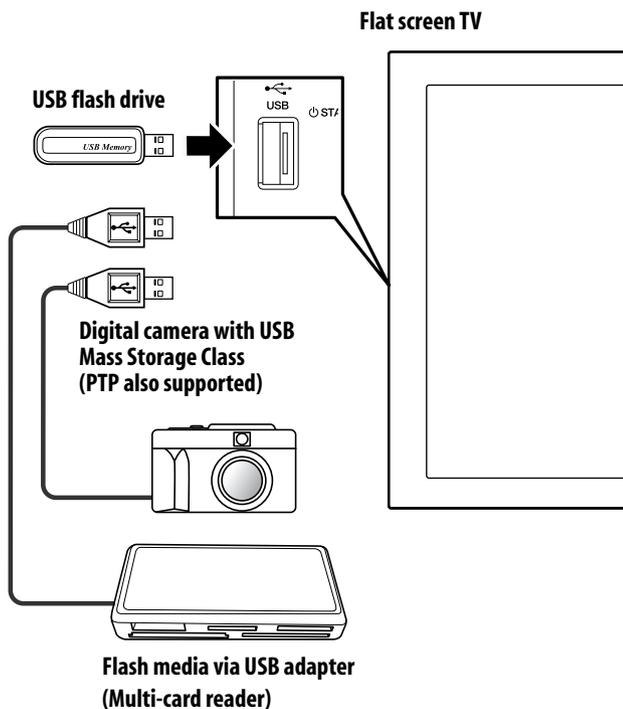
You can also enjoy content stored on memory cards by connecting a USB device to the flat screen TV. The root directory or Device List screen appears as soon as a USB flash drive or a multi-card reader is connected to the USB port. Another option is to connect your digital camera directly to the flat screen TV using a commercially available USB connector cable.

If for any reason, the Folder/Content List or Device List fails to appear, follow the steps below.

- Press **HMG**.
The Home Media Gallery menu appears on screen.
- Select **"USB"**.
Use the arrow buttons to highlight an option.
- Press **ENTER** to confirm the selection.
- Select the desired device.
The USB Device screen must be displayed.
- Press **ENTER** to navigate to a folder or play a file/content.
To return to the previous screen, press **RETURN**.
To exit, press **EXIT** or **HMG**.

Note

- The flat screen TV displays the USB Device screen or root directory immediately after inserting a USB device. In this case, start from step 5.
- When a multi-card reader is inserted, the USB Device screen is displayed. In this case, start from step 4.



Note

- Do not use any USB devices other than those specified. Using other devices can cause a malfunction.

Readable data format

This system reads FAT16, FAT32 or NTFS.

Readable data files

Movie, music, and photo files play with the exception of Digital Rights Management (WMDRM10) protected files.

Your flat screen TV supports a single USB device at a time. Also, the panel does not support USB hubs.

This system may not be able to display modified or edited content from a PC or other equipment.

Your flat screen TV supports the USB Mass Storage Class and PTP devices.

Some digital cameras may require a setup procedure for Mass Storage Class data transfer. The setup is done on the camera. See the operating instructions supplied with the digital camera. Depending on the type of your memory card or camera, some images may fail to display.

Remove a USB device

To remove a USB device, exit the Home Media Gallery first then disconnect the device.

Be sure to exit the Home Media Gallery screen before removing the USB device. If you remove the USB device while the Home Media 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 action may cause data inside the memory to be damaged.

Pioneer is not liable for any loss or damage to the data inside the USB flash drive.

Run the Home Media Gallery

1 Press HMG.

The Home Media Gallery menu appears on screen.

2 Select "Media Navigator", "USB", "HMG Playlist" or "HMG Setup".

Use the arrow buttons to highlight an option then press **ENTER**.

To return to the previous screen, press **RETURN**.

To exit Home Media Gallery, press **EXIT** or **HMG**.



Use the Media Navigator

By selecting Media Navigator, the previously selected server menu automatically appears on the screen. When only one server is found, the system automatically connects the server. You can also use the TOOLS Menu to switch to another server or manually select a server from the Server List. The screen automatically changes to the Server List if there are no previous servers.

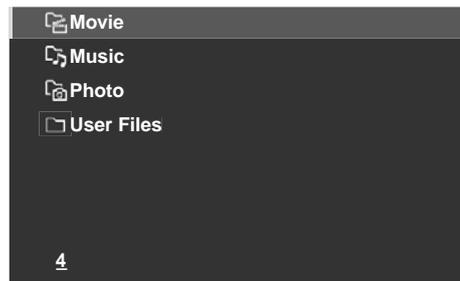
1 Press HMG.

The Home Media Gallery menu appears on screen.

2 Select "Media Navigator".

Use the arrow buttons to highlight an option then press **ENTER**.

The Server List screen appears depending on the setting. Select a desired server from the Server List. The file/folder configuration may vary depending on the server selected.



(Sample screen)

3 Select the desired folder to navigate or file/content to play.

4 Press ENTER to display a subsequent screen.

A subsequent screen appears.

To return to the previous screen, press **RETURN**.

To exit Home Media Gallery, press **EXIT** or **HMG**.

Note

- The Media Navigator launch depends on the option selected in "Auto Connection" (page 60). The screen displays after selecting a server from the server list.

Navigate through a USB device's files and folders

Like navigating through media servers, select the specific file from a device on the USB Device screen to start an appropriate player. For details, follow the steps below.

1 Press HMG.

The Home Media Gallery menu appears on screen.

2 Select "USB".

Use the arrow buttons to highlight an option then press **ENTER**.

The USB Device screen appears. Select the device. When using a single directory device (USB flash drive), the USB Device screen does not appear.



(Sample screen)

3 Select the desired folder to navigate or file/content to play.

4 Press ENTER to display a subsequent screen.

A subsequent screen appears.

To return to the previous screen, press RETURN.

To exit Home Media Gallery, press EXIT or HMG.



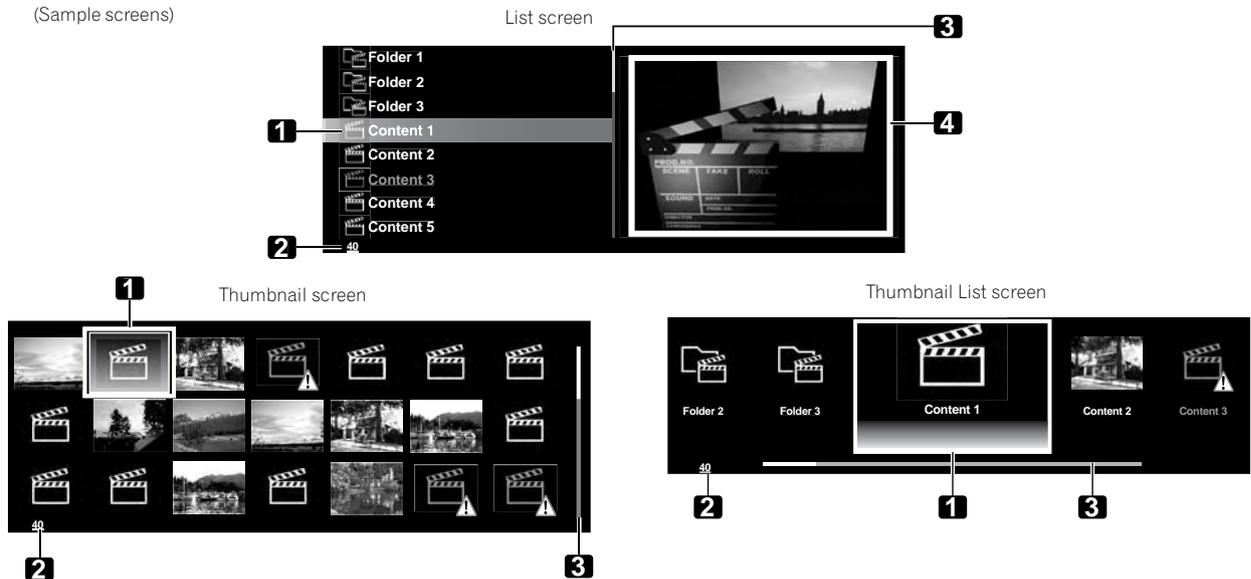
Note

- The USB Device screen appears when using a multi-card reader or multiple flash drive devices. In this case, select the device containing the desired content.

Screen components

Screen display options are: List, Thumbnail or Thumbnail List. Press TOOLS then select "Change View" from the TOOLS Menu to choose from the screen display options. The options are available for Movie, Music and Photo menus.

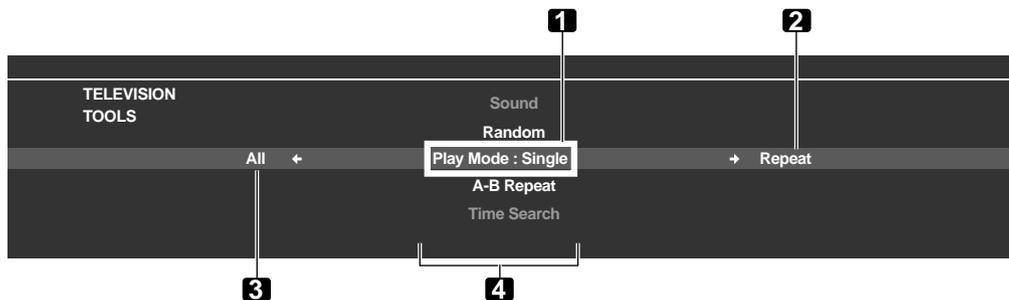
(Sample screens)



- 1 Item being selected
- 2 Number of total items
- 3 Scroll bar (displayed when one or more pages follow)
- 4 Icon or thumbnail of the selected item (if obtained)

TOOLS Menu

To change the current menu to another option, the on-screen TOOLS Menu provides short-cuts to the available selections even while watching a programme. To display the menu, press TOOLS on the remote control. The menus shown in this section differ, depending upon the menu (see page 56).



- 1 Selected menus (highlighted in the centre of the menu bar)
- 2 Submenu (when available)
- 3 Submenu (when available)
- 4 Available menus

HMG Playlist

Each category (Movie, Music, and Photo) has five different Playlists which can register up to 100 files each. The HMG Playlist can contain sound and image files selected in "Media Navigator". To edit a Playlist, use the TOOLS Menu.

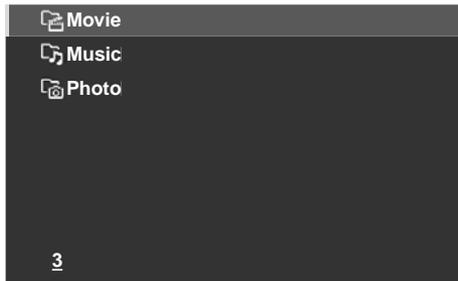
1 Press HMG.

The Home Media Gallery menu appears on screen.

2 Select "HMG Playlist".

Use the arrow buttons to highlight an option then press **ENTER**.

3 Select a category from "Movie", "Music", or "Photo".



4 Select a desired list from Playlist 1 through Playlist 5.

5 Select the desired content.

This menu can appear as a List, Thumbnail or Thumbnail List screen. Press **TOOLS** then select "Change View" from the **TOOLS** Menu.

6 Press ENTER to play the content.

To return to the previous screen, press **RETURN**.

To exit Home Media Gallery, press **EXIT** or **HMG**.

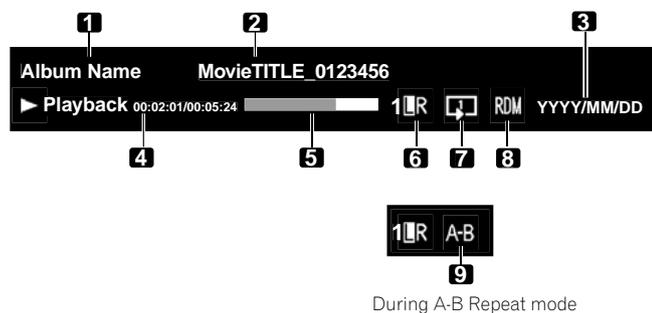
Show your movie files on the flat screen TV

When you select movie content from the server menu on the Media Navigator screen or from USB device screen, the Movie Player automatically launches. Select a category, folder, or device to access the submenu containing the required file or content.

The Movie Player screen appears when you select a movie file from the HMG Playlist, just like selecting a file in the server.

Screen components

The following information automatically appears on screen for a few seconds when Movie Player launches or playback status changes (controlled by the remote, for example). Pressing the **INFO** button or selecting Information on the **TOOLS** Menu also causes the information to appear.



(Content information)

- 1 Album name
- 2 Content title
- 3 Date

(Player status)

- 4 Playback status (status icon, status information, current time/total time)
- 5 Progress bar
- 6 Sound mode
- 7 Play mode
- 8 Random mode
- 9 A-B Repeat mode

Movie Player key guide

Mode	Key(s) used	Function
Playback	ENTER	Plays back the content
Stop	RETURN	Stops the Movie Player and returns to the previous screen (List/Thumbnail/Thumbnail List)
PAUSE	ENTER	Pauses the playback
Fast Forward	→	Fast forward while playback. Each press changes the Fast Forward speed. To discontinue Fast Forward, press ENTER . Normal playback mode returns.
Fast Reverse	←	Fast reverse while playback. Each press changes the Fast Reverse speed. To discontinue Fast Reverse, press ENTER . Normal playback mode returns.
Slow Forward	ENTER + → (while playback)	Slow forward when in PAUSE. Each press changes the slow speed. To discontinue Slow Forward, press ENTER . Normal playback mode returns. Note: This function may not be supported, depending on the content.
Forward (15 sec.)	↑	Skips 15 seconds forward and plays back or pauses while in PAUSE
Reverse (15 sec.)	↓	Skips 15 seconds backward and plays back or pauses while in PAUSE
Time Search	TOOLS	See <i>Use the TOOLS Menu</i> on page 56
Add to HMG Playlist	TOOLS	See <i>Use the TOOLS Menu</i> on page 56
A-B Repeat Mode	TOOLS	See <i>Use the TOOLS Menu</i> on page 56
Random	TOOLS	See <i>Use the TOOLS Menu</i> on page 56
Play Mode	TOOLS	See <i>Use the TOOLS Menu</i> on page 56
Audio	TOOLS	See <i>Use the TOOLS Menu</i> on page 56
Picture	TOOLS	See <i>Use the TOOLS Menu</i> on page 56
Sound	TOOLS	See <i>Use the TOOLS Menu</i> on page 56
Information	TOOLS	See <i>Use the TOOLS Menu</i> on page 56

Note

- Some functions may not be supported depending on the server type or version used.
- During playback, an error may arise in time-related information, depending on the content or server software.
- Some functions may not be supported, depending on the content.

Through the USB interface, you can play the content obtained by a digital video camera that supports H.264/AVC format. Follow the steps below.

1 Insert the USB flash drive containing the content in a card reader to connect to the flat screen TV.

The USB device's Folder/Contents List appears on screen.

Refer to the operation manual that came with the individual device for connections and setting.

2 Select a Folder/Contents List.

Use the arrow buttons to highlight an option then press **ENTER**.

3 Select the desired content.

Note

- Some content may not be played back or you may experience a delay between audio and video, depending on the file.
- Not all files (including edited files) may be supported with the Movie Player.
- Stored content may not appear in the "Shortcut" folder depending on the saved position in the memory device.
- Also, content may not play properly, depending on the USB card reader used.

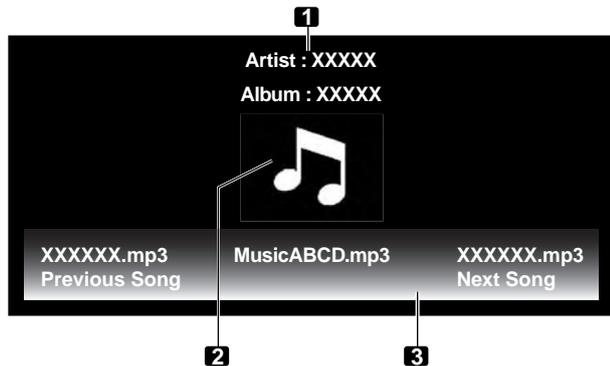
Using with other equipment

Play your music files on the flat screen TV

When selecting music content from the server menu (on the Media Navigator screen or from the USB Device screen), the Music Player automatically launches. Select a category, folder, or device to access the submenu containing the required file or content. The Music Player screen appears when you select a music file from HMG Playlist, just like selecting a file in the server.

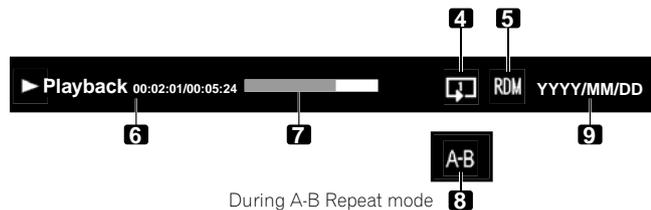
After playing music content once, the Music Player continues to play the content as BGM unless you stop the playback, exit the Home Media Gallery or start playing content other than photo content.

Screen components



- 1 Artist/album information
- 2 Music Player thumbnail icon/jacket image
- 3 Player list

The following information and playback status appear on the Music Player screen.



- 4 Play mode
- 5 Random mode
- 6 Playback status (status icon, status information, current time/total time)
- 7 Progress bar
- 8 A-B Repeat mode
- 9 Date

Music Player key guide

Mode	Key(s) used	Function
Playback	ENTER	Plays back the selected content
Stop	↓	Stops the playback
PAUSE	ENTER	Pauses the playback
Fast Forward	→	Press and hold → to start Fast Forward. When in Fast Forward, press → to change the playback speed. To discontinue Fast Forward, press ENTER . Normal playback mode returns.
Fast Reverse	←	Press and hold ← to start Fast Reverse. When in Fast Reverse, press ← to change the playback speed. To discontinue Fast Reverse, press ENTER . Normal playback mode returns.
Next	→	Selects the next content
Previous	←	Selects the previous content
Time Search	TOOLS	See <i>Use the TOOLS Menu</i> on page 56
Add to HMG Playlist	TOOLS	See <i>Use the TOOLS Menu</i> on page 56
Random	TOOLS	See <i>Use the TOOLS Menu</i> on page 56
A-B Repeat	TOOLS	See <i>Use the TOOLS Menu</i> on page 56
Play Mode	TOOLS	See <i>Use the TOOLS Menu</i> on page 56
Sound	TOOLS	See <i>Use the TOOLS Menu</i> on page 56



Note

- Files may not play back properly, depending on the content.
- Some functions may not be supported, depending on the server type or version used.
- Playback continues even pressing **RETURN** to move from the Player screen to the previously selected screen.

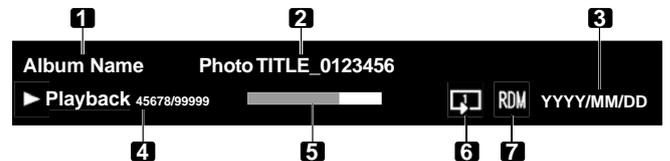
Show your photo file on the flat screen TV

When you select photo content from the server menu on the Media Navigator screen or from the USB device screen, the Photo Player automatically launches. The selected content is displayed in full screen by pressing **ENTER**. Select a category, folder or device to access the submenu containing the required file or content.

Selecting a photo file from the HMG Playlist causes the Photo Player screen to appear, just like selecting a file in the server.

Screen components

The following information automatically appears on screen for a few seconds when Photo Player launches or playback status changes (controlled by the remote, for example). Pressing the **ⓘ** button or selecting Information on the **TOOLS** Menu also causes the information to appear.



(Content information)

- 1 Album name
- 2 Content title
- 3 Date

(Player status)

- 4 Playback status (status icon, status information, current number/total number)
- 5 Progress bar
- 6 Play mode
- 7 Random mode

Photo Player key guide

Mode	Key(s) used	Function
Playback	ENTER	Starts displaying a photo or playing a slideshow
Stop	RETURN	Stops the Player and returns to the previous screen (List/Thumbnail/Thumbnail List)
PAUSE	ENTER	Pauses the slideshow
Move File Forward	→	Displays the next image content
Move File Backward	←	Displays the previous image content
Rotate (clockwise)	TOOLS	Rotates the image 90° clockwise. Each press toggles the rotation angle by 90° between 90°, 180°, 270° and 0°. (See <i>Use the TOOLS Menu</i>)
Change BGM	↑, ↓	Switches BGM content while playing BGM
Zoom	TOOLS	See <i>Use the TOOLS Menu</i>
Add to HMG Playlist	TOOLS	See <i>Use the TOOLS Menu</i>
Random	TOOLS	See <i>Use the TOOLS Menu</i>
Play Mode	TOOLS	See <i>Use the TOOLS Menu</i>
Slide Show	TOOLS	See <i>Use the TOOLS Menu</i>
Music Player	TOOLS	See <i>Use the TOOLS Menu</i>
Picture	TOOLS	See <i>Use the TOOLS Menu</i>
Sound	TOOLS	See <i>Use the TOOLS Menu</i>
Information	TOOLS	See <i>Use the TOOLS Menu</i>

Note

- Some functions may not be supported, depending on the server type or version used.
- Even with the supported format, files may not be played properly depending on the content.

Use the TOOLS Menu

Pressing **TOOLS** on the remote control causes the TOOLS Menu to appear. Select various play and display modes from the menu. The selectable menu items differ, depending on the currently selected menu.

For details on TOOLS Menu screen components, refer to *TOOLS Menu* on page 53.

Update Server List

Use this function to update the currently selected Server List on screen. This option is available on the Server List screen (connected/not connected).

1 Press **TOOLS** while showing the Server List.

The TOOLS Menu appears on screen.

2 Select "Update Server List" from the TOOLS Menu.

Use the arrow buttons to highlight an option then press **ENTER**.

Information on the connected server is updated.

To exit the menu, press **RETURN**.

Delete Server

You can delete the server(s) that are unavailable to select on the Server List screen from the list. This option is available on the Server List screen (server not connected).

1 Press **TOOLS** while the cursor is on the unconnected server on the Server List screen.

The TOOLS Menu appears on screen.

2 Select "Delete Server" from the TOOLS Menu.

A "Delete Server" screen appears.

3 Select "Yes" then press **ENTER**.

Deleting the server completes.

To cancel before it finishes, select "No."

USB Device

Follow the directions below to open the USB Device screen. This option is available on the Folder/Contents List (USB) screen.

1 Press **TOOLS**.

The TOOLS Menu appears on screen.

2 Select "USB Device" from the TOOLS Menu.

The "USB Device" screen appears, showing currently connected USB devices.

Favourites Entry

Registering the Home Media Gallery in Favourites on the TOOLS Menu causes the Home Media Gallery top screen to be quickly accessed while watching TV or other programmes. This option is available on Home Media Gallery screen.

1 Press **TOOLS**.

The TOOLS Menu appears on screen.

2 Select "Favourites Entry" and "On", then press **ENTER**.

Registration completes.

To remove the "Home Media Gallery" from Favourites, select "Off".

Detailed Display

Select this option to display the detailed information on the currently selected content. This option is available on the Media Navigator, Playlist List (Movie/Music/Photo), Folder/Contents List screens.

1 Press **TOOLS**.

The TOOLS Menu appears on screen.

2 Select "Detailed Display" from the TOOLS Menu.

Detailed information appears.

Pressing **RETURN** causes the information to disappear. The previous screen returns.

Sort

You can sort the items contained in the Folder/Contents List. This option is available on the Media Navigator and Folder/Contents List screens. This function is unavailable for folders or content on a USB device.

1 Press **HMG**.

The Home Media Gallery menu appears on screen.

2 Select the desired folder and/or content in the Media Navigator.

Use the arrow buttons to highlight an option then press **ENTER**.

3 Press **TOOLS** then select "Sort" from the TOOLS Menu.

A "Sort" dialogue screen appears.



4 Select "Title", "Track Number", "Genre", "Artist" or "Date" for "Condition".

5 Select "Bottom-Up" or "Top-Down" for "Order".

6 Select "Start" on the "Sort" dialogue screen.

The sorting starts based on your selection and sort results are displayed.

While sorting continues, you can select content to play. To return to the sort screen, press **RETURN** during playback.

To cancel the sort mode, press **RETURN**.

Note

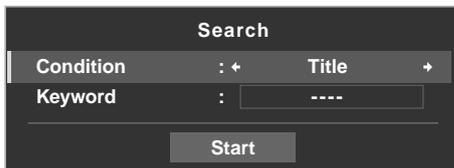
- The "Select a sorting order." screen can be displayed while navigating through the music categories.

- Sort may not be available, depending on the server used.
- Available submenus for Condition vary, depending on the server used.

Search

The flat screen TV's built-in Search function provides a convenient way to find items held in a Folder/Contents List on a media server. This function is unavailable for folders or content on a USB device. Simply enter a word to search for and the results appear on screen. To begin a Search, follow the directions below. This option is available on the Media Navigator and Folder/Contents List screens.

- 1 Press HMG.**
The Home Media Gallery menu appears on screen.
- 2 Select the desired folder and/or content in the Media Navigator.**
Use the arrow buttons to highlight an option then press **ENTER**.
- 3 Press TOOLS.**
The TOOLS Menu appears on screen.
- 4 Select "Search" from the TOOLS Menu.**
A "Search" dialogue screen appears.



- 5 Select "Title", "Genre" or "Artist" for "Condition", or enter a "Keyword".**
Pressing **ENTER** on the Keyword menu causes the software keyboard to appear on the screen.
- 6 Enter the word on the software keyboard.**
Refer to *Labelling TV channels* on page 27 for details on operation.
- 7 Select "OK" on the software keyboard to bring up the Search dialogue screen and hide the keyboard.**
To cancel the key word entry, select "Cancel".
- 8 Select "Start" on the "Search" dialogue screen.**
The searching starts based on the word entered with results appearing on screen. While searching continues, you can select content to play. To return to the search screen, press **RETURN** during playback.
To cancel the search mode, press **RETURN**.

Note

- Search may not be available, depending on the server used.
- Available submenus for Condition vary, depending on the server used.

Slide Show

Select the desired photo file to display a still picture then press **ENTER** to start a slideshow. After a slideshow launches, pressing **ENTER** toggles between PLAY and PAUSE. This option is available on the Media Navigator, Folder/Contents List, and Photo Player. You can set the Photo Player to play a slideshow with BGM and various visual effects. To begin a slideshow, follow the directions below.

- 1 Press HMG.**
The Home Media Gallery menu appears on screen.
- 2 Select "Media Navigator" or "USB" from the menu.**
Use the arrow buttons to highlight an option then press **ENTER**.
- 3 Select a folder containing photo content.**
Use the arrow buttons to highlight a folder then press **ENTER**.
The Thumbnail screen appears (Thumbnail List or List screen appears, depending on the setting).
- 4 Select the desired photo file.**
The selected photo content appears in full screen.
- 5 Press TOOLS.**
The TOOLS Menu appears on screen.
- 6 Select a slideshow option.**
A "Slide Show" dialogue screen appears.
- 7 Select "Off", "Random", "Black Out", "Cross Sweep", "Horizontal Blinds", "Boxed In/Out", "Panoramic" or "Scenic" for "Effect".**
- 8 Select "Off" or "On" for "Monochrome".**

- 9 Select "3Seconds", "5Seconds", "10Seconds", "15Seconds", "30Seconds" or "60Seconds" for "Interval".**



- 10 Select "Off" or "On" for "Random".**
For details, refer to "Random" on page 60.
- 11 Select the desired option for "Play Mode".**
Select "Single", "Repeat", "Repeat All" or "All". For details, refer to "Play Mode" on page 58.
- 12 Select "BGM".**
Select music content from Playlist 1 through 5 or the USB device.
- 13 Select "Start".**
The slideshow starts and photo images in the folder automatically appear one by one.
To display the next image content manually, press **→**.
To display the previous image content manually, press **←**.
- 14 Press ENTER to stop the slideshow.**
The Photo Player goes into PAUSE.
- 15 Press ENTER again to resume the slideshow.**
To cancel the slideshow and stop the Photo Player, press **RETURN** during playback. The previous screen returns.

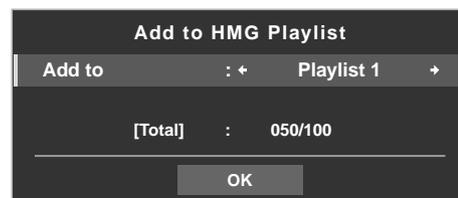
Note

- After setting the Interval time, it may take longer than the preset time as the Interval time means the time up until the Home Media Gallery starts obtaining the next image. Key operations may not work while obtaining the next image.

Add to HMG Playlist

The Home Media Gallery function provides "HMG Playlist" - a self-contained play list that allows you to bookmark favourite movie, music, and photo files from the network. You can register, edit, and sort up to 100 files in each Playlist List. This option is available on the Media Navigator, Folder/Contents List, Movie Player, Music Player and Photo Player screens.

- 1 While navigating or playing, select the file to be added to HMG Playlist.**
- 2 Press TOOLS.**
The TOOLS Menu appears on screen.
- 3 Select "Add to HMG Playlist" from the TOOLS Menu.**
An "Add to HMG Playlist" dialogue screen appears.
- 4 Select a Playlist.**
Press **←/→** to select from Playlist 1 to Playlist 5.



- 5 Select "OK".**
To select other Playlist(s), repeat steps 2 to 5.
The file is added to the selected Playlist. The number in Total changes as you add a content file to the playlist.
To cancel the operation, press **RETURN**.

Select Server

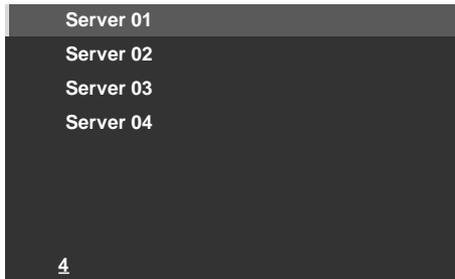
When one or more servers are connected within the network, you can switch between servers. This option is available on the Media Navigator and Folder/Contents List screens.

1 Press TOOLS.

The TOOLS Menu appears on screen.

2 Select "Select Server".

The Server List is displayed.



(Sample screen)

3 Select the desired server.

The screen changes to Media Navigator on the selected server.

Note

- The Home Media Gallery can memorise previously connected servers. When the Media Navigator is launched, available servers are automatically located and connected.
- If a previously connected server cannot be found or if the server is in sleep mode, the server name is dimmed.
- In some cases, you may be able to start a media server if it supports "Wake On LAN". Select the server and press **ENTER** to transmit a "Wake On LAN" command to the selected server.
- When having "Wake On LAN" turns the server's power on, the server must be ready with the necessary settings already completed.

Play Mode

This option is available on the Movie Player, Music Player and Photo Player screens. Choose a playback mode (Repeat, Single, etc.) when playing multiple content files.

1 While playing content, press TOOLS.

The TOOLS Menu appears on screen.

2 Select "Play Mode" from the TOOLS Menu.

Select "Single", "Repeat", "Repeat All" or "All".

"Single": Plays the selected content only once

"Repeat": Repeatedly plays the selected content

"Repeat All": Repeatedly plays all selected folder content in order (when playing back the last content ends, it returns to the first content to play again)

"All": Plays all selected folder content in order only once

Change Name

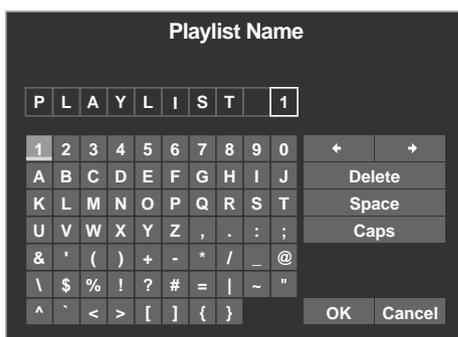
You can change the name of Playlist 1 through Playlist 5 in HMG Playlist. To edit, follow the directions below. This option is available on the Playlist List (Movie/Music/Photo) screen.

1 Press TOOLS while five Playlists in the HMG Playlist are on screen.

The TOOLS Menu appears on screen.

2 Select "Change Name" from the TOOLS Menu.

The software keyboard appears.



3 Enter the new name.

Refer to *Labelling TV channels* on page 27 for details on operation.

4 Select "OK" after the new name is entered on the software keyboard.

The software keyboard disappears and newly named Playlist displays.

Selecting Cancel causes the entry to stop and cancels the entered name.

Change View

Select this option to switch the list screen between List, Thumbnail and Thumbnail List. This option is available on the Playlist List (Movie/Music/Photo) and Folder/Contents List screens.

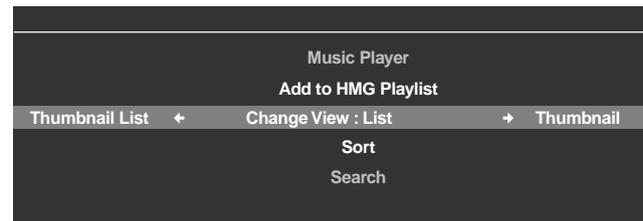
1 Press TOOLS.

The TOOLS Menu appears on screen.

2 Select "Change View" from the TOOLS Menu.

Select the screen option from List, Thumbnail or Thumbnail List.

TOOLS Menu



List screen



Thumbnail screen



Thumbnail List screen



(Sample screens)

Using with other equipment

Time Search

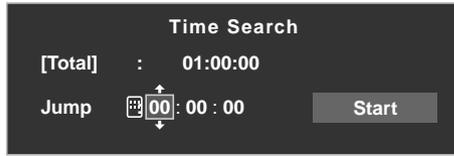
The Time Search function allows the content to start playing at the preset time. This option is available on the Movie Player and Music Player screens.

1 While playing content, press TOOLS.

The TOOLS Menu appears on screen.

2 Select "Time Search" from the TOOLS Menu.

A "Time Search" dialogue screen appears.



3 Enter the time (Hour, Minute and/or Second) to jump.

Enter Hour and Minute for movie content or Minute and Second for music content.

Use \uparrow/\downarrow or buttons **0** to **9** (if a numeric key icon appears).

Press \leftarrow/\rightarrow to select Hour and Minute (movie content) or Minute and Second (music content).

4 Select "Start" then press ENTER.

The movie (music) begins playing from the time you set. To cancel the Time Search, press **RETURN**.



Note

- This function may not be supported, depending on the content or server software.
- An error may arise in time-related information, depending on the content or server software.

Picture

Select this option to adjust picture quality. This option is available on the Movie Player and Photo Player screens.

1 Press TOOLS.

The TOOLS Menu appears on screen.

2 Select "Picture" from the TOOLS Menu.

A picture adjustment screen appears. For adjustment items, see *Basic picture adjustments* on page 28.

3 Press RETURN to close the adjustment screen.

Normal playback screen returns.

Sound

Select this option to adjust sound quality. This option is available on the Movie Player, Music Player and Photo Player screens.

1 Press TOOLS.

The TOOLS Menu appears on screen.

2 Select "Sound" from the TOOLS Menu.

A sound adjustment screen appears. For adjustment items, see *Sound adjustments* on page 32.

3 Press RETURN to close the adjustment screen.

Normal playback screen returns.

Information

Select this option to display the status information on the content currently played. This option is available on the Movie Player and Photo Player screens.

1 Press TOOLS.

The TOOLS Menu appears on screen.

2 Select "Information" from the TOOLS Menu.

An information (such as playback status) screen appears. Pressing [i] also causes the information screen to appear.

The screen will automatically disappear after a certain amount of time.

Audio

Use this option to switch an audio source if the currently played content has multiple audio sources (multi-language content, for example). This option is available on the Movie Player screen.

1 Press TOOLS.

The TOOLS Menu appears on screen.

2 Select "Audio" from the TOOLS Menu.

Pressing \leftarrow/\rightarrow causes L, R or L+R to be selected. If the content has multiple audio sources, you can select L, R or L+R for each source.

After entering the setting, press **RETURN**.

Music Player

If you want to change BGM on any screen other than the music content playback screen, use this option to jump to the music content playback screen. This option is only available when music is played on any screen other than Movie Player and Music Player. This option is available on the Media Navigator, Folder/Contents List, USB, HMG Playlist, Playlist List, and Photo Player screens.

1 Press TOOLS.

The TOOLS Menu appears on screen.

2 Select "Music Player" from the TOOLS Menu.

The Music Player screen appears.

After entering the setting, press **RETURN**. The previous screen returns.

Move

You can change the listing order in the HMG Playlist. This option is available on the Contents List (Playlist) screen.

1 Move the cursor to the content to be moved in the HMG Playlist.

2 Press TOOLS.

The TOOLS Menu appears on screen.

3 Select "Move" from the TOOLS Menu.

4 Press \uparrow/\downarrow to move the content up or down then ENTER.

Editing completes and "Move" finishes.

Delete from HMG Playlist

You can delete content from the HMG Playlist. This option is available on the Contents List (Playlist) screen.

1 Move the cursor to the content to be deleted from the HMG Playlist.

2 Press TOOLS.

The TOOLS Menu appears on screen.

3 Select "Delete from HMG Playlist" on the TOOLS Menu.

A "Delete from HMG Playlist" dialogue screen appears.

4 Select "Yes" to remove the content item.

The dialogue screen disappears and the selected content is deleted from the HMG Playlist.

To cancel, select "No".

A-B Repeat Mode

The A-B Repeat function is available only during normal playback on the Movie Player or Music Player. To set Repeat, follow the instructions below.

1 While playing content, press TOOLS.

The TOOLS Menu appears on screen.

2 Select "A-B Repeat" from the TOOLS Menu.

3 Press ENTER where you want Repeat to start.

4 Press ENTER again where you want Repeat to end.

The Player status appears on the screen and the A-B Repeat mode icon changes.

The selected part of the content is repeatedly played back.

To return to normal mode, press **TOOLS** again and select "Off" while in the A-B Repeat mode.



Note

- If the screen display doesn't match the player status, a malfunction may have occurred. Stop playback, then try the operation again.

Random

Use this option to switch the order in the content list and play the content at random. This option is available on the Movie Player, Music Player and Photo Player screens.

1 While playing content, press TOOLS.

The TOOLS Menu appears on screen.

2 Select "Random" from the TOOLS Menu.

3 Select "On".

Random Repeat playback starts.

To cancel the random mode, press **TOOLS** again and select "Off".

 **Note**

- Random Repeat is only available for content in Repeat Mode (except when "Single" is selected).

Rotate

Use this option to rotate an image by 90°. This option is available on the Photo Player screen.

1 While photo content appears, press TOOLS.

The TOOLS Menu appears on screen.

2 Select "Rotate" from the TOOLS Menu.

Each press of the **ENTER** button causes the displayed image to rotate by one quarter clockwise. It toggles between 90°, 180°, 270° and 0°.

 **Note**

- The selected rotation angle is only effective for the image being displayed.
- The default setting (0°) returns when you move and display content on a different screen.

Zoom

Use this option to enlarge the photo content displayed. This option is available on the Photo Player screen.

1 While photo content appears, press TOOLS.

The TOOLS Menu appears on screen.

2 Select "Zoom" from the TOOLS Menu.

3 Press ←/→ to select "On" or "Off" then ENTER.

Selecting "On" causes the enlarged photo content to always appear.

Displayed image differs depending on the content: If the content's aspect ratio is longer than 16:9, it appears fully stretched horizontally to both sides with images cropped at the top and bottom. If the content's aspect ratio is wider than 16:9, it appears fully stretched vertically to top and bottom with images cropped on the right and left sides.

A "zoom" icon appears on screen.

4 While in Zoom mode, use the arrow buttons to scroll the content.

Press **↑** or **↓** if the content's aspect ratio is longer than 16:9, **←** or **→** if the content's aspect ratio is wider than 16:9.

Pressing **RETURN** or **ENTER** causes the Zoom mode to cancel and return to the normal screen.

 **Note**

- The Zoom function is disabled when the content is a 16:9 picture.

HMG Setup

Use the HMG Setup option for Network Setup, Auto Connection Setup and Default Settings.

Network Setup		
Auto Connection	:	On
Default Settings		

1 Press HMG.

The Home Media Gallery menu appears on screen.

2 Select "HMG Setup" from the menu.

Use the arrow buttons to highlight an option then press **ENTER**.

3 Select "Network Setup", "Auto Connection", and "Default Settings".

Network Setup

Select whether to acquire the IP Address automatically or manually or, when acquiring manually, set the IP Address and Subnet mask.

Automatic:

To perform the procedure, DHCP on your server or router must be valid.

1 Select "Auto DHCP".

2 Select "Yes".

To exit Home Media Gallery, press **EXIT** or **HMG**.

Manual:

Before setting up, check your media server for IP Address and Subnet mask information.

1 Select "Auto DHCP".

2 Select "No".

3 Select the setup item's box.

Use **↑** or **↓** to highlight an entry item (IP Address or Subnet mask) then press **ENTER**.

No need to enter "Default Gateway" and "DNS Server".

4 Enter the figures using buttons 0 to 9.

Subnet mask (such as 255.255.255.0): Enter the same figures as you checked.

IP Address (such as 192.168.201.***): Enter the same figures as used in the media server (PC, etc.) you use. For ***, enter three-digit figures (0 – 254) that have not been used for network connections yet.

Use **←** or **→** to highlight other entry area.

5 Press ENTER on the setup item's box after the entry is complete.

Repeat steps 3 to 4 to complete the necessary setup.

To exit Home Media Gallery, press **EXIT** or **HMG**.

Auto Connection

Set Auto Connection to "ON" or "OFF" whether to automatically connect to the last accessed server. For selection, follow the steps below.

1 Select "Auto Connection".

Use **←** or **→** to change the setting.

Selecting "ON" causes the display to access the last server. If the server is in Standby, WOL ("Wake On LAN") is activated to turn the last accessed server "On". Selecting "OFF" causes a server list to appear on screen.

"Wake on LAN (WOL)" functions to turn the last accessed server's power on if the server is WOL-compliant and is in Standby or sleep mode, then display the Media Navigator screen. During the WOL is activated, a dialogue screen appears. If the server is not WOL-compliant or the WOL function fails, a dialogue appears on the Server List screen.

To exit Home Media Gallery, press **EXIT** or **HMG**.

Using with other equipment

Reset to default

To reset options entered within the Home Media Gallery function to default, follow the steps below.

1 Press HMG.

The Home Media Gallery menu appears on screen.

2 Select "HMG Setup".

Use the arrow buttons to highlight an option then press **ENTER**.

3 Select "Default Settings".

4 Select "Yes".

The setup finishes and the Home Media Gallery screen returns.

To exit Home Media Gallery, press **EXIT** or **HMG**.

Other useful functions

Screen saver

During navigation, the screen saver launches automatically if no activity is sensed within five minutes. However, when a movie or slideshow is playing, the panel stops the screen saver from appearing.

Pressing any button cancels the screen saver.

Dismissing the screen saver does not interfere when connecting a USB device.



Note

- Pressing **⏏** to display the Player status or key guide before screen saver is activated may cause image retention.



Important

- Do not display the Player status and key guide for an extended period of time while playing a movie or slideshow to avoid possible image retention.

Dialogue screen message

No.	Message	Problem
001	Content cannot be played. (001)	No details are available for the error
100	A communication error occurred. (100)	No further details are available for the error
101	No response from server. (101)	Timeout period reaches due to delayed server response
102	Disconnected from the network. (102)	Cables are disconnected
103	Response from server indicating that it is impossible to reply. (103)	Invalid response from the server
300	Content cannot be played. (300)	A file that is not supported is selected
301	This format is not supported. (301)	A file that is not supported is selected
500	Failed to authenticate. (500)	Failed to obtain DRM authorisation
501	Failed to authenticate. (501)	Failed to obtain DRM authorisation
502	Failed to authenticate. Check for failure of router, hub, other network devices. (502)	Failed to obtain DRM authorisation
503	Failed to authenticate content. The copyright notice of this file might be invalid. (503)	Failed to obtain DRM authorisation
504	Failed to authenticate. (504)	Failed to obtain DRM authorisation
505	Failed to authenticate. Check for failure of router, hub, other network devices. (505)	Failed to obtain DRM authorisation

No.	Message	Problem
506	Failed to authenticate. The max count of access devices depends on server. (506)	Failed to obtain DRM authorisation
507	Failed to authenticate. The licence of this file might be invalid. Receive the licence from a server. (507)	Failed to obtain DRM authorisation
508	Failed to authenticate. (508)	Authorisation error other than above



Important

- Displaying pictures in the Home Media Gallery for an extended period may cause an after-image.

Glossary

Default Gateway

Default gateway is a node on a computer network that serves as an access point to another network. A default gateway (such as a computer and router) is used to forward all traffic that is not addressed to a station within the local subnet.

DHCP (Dynamic Host Configuration Protocol) Server

Provides a mechanism to allocate IP addresses to client hosts. In most cases, a broadband router serves as a DHCP server in a home network.

DLNA (Digital Living Network Alliance)

The DLNA authorised logo makes it easy for consumers to recognise products that meet the new standard for home network PCs and other digital devices, as set down in the DLNA Guidelines for interoperability. This allows music, video, etc. to be enjoyed from various devices over a home network. This unit is compatible with music, photo and video content, and is based on the DLNA Home Networked Device Interoperability Guidelines - expanded: October 2006 (v1.5). This unit can be used to playback music, photos and video stored on a DLNA-compatible server connected through a LAN cable.

Digital Living Network Alliance (DLNA) is dedicated to the simplified sharing of digital content, such as digital music, photos and video among networked consumer electronics (CE) and PCs. By establishing a platform of interoperability based on open industry standards, DLNA delivers technical design guidelines that companies can use to develop digital home products that share content through wired or wireless networks in the home.

DNS (Domain Name Service) Server

DNS Server is a server that determines the name of network-computer within the Internet. The server functions to exchange IP address to the hostname, hostname to the IP address.

Ethernet

A frame-based computer networking technology for local area networks (LANs). The flat screen TV supports 100BASE-TX.

IP (Internet Protocol) Address

A unique number that devices use in order to identify and communicate with each other on a network utilising the Internet Protocol standard, such as "192.168.1.xxx". No duplicate numbers are allowed within the network.

LAN Cable

A cable that has an eight-pin modular plug on each end and is different from a telephone plug which has four pins. A straight cable is used when connecting the flat screen TV to a home network via a hub. A cross-over cable is used when connecting directly to a PC. Use category 5 (CAT-5) LAN cables.

MAC (Media Access Control) Address

An address attached to the port of any network device with an IP address. The MAC address is expressed as "00:e0:36:01:23:xx" and cannot be changed.

Mass Storage Class devices

The standard provides an interface to a variety of storage devices, such as USB flash drive and digital cameras.

PTP (Picture Transfer Protocol)

A protocol that allows the transfer of images and manipulation of digital cameras through USB connection. Most recent digital cameras and other devices support PTP allowing the transfer of images through direct connections.

Subnet mask

Used to determine the network when IP addresses are broken into several parts. It is expressed as "255.255.255.0". In most cases, the Subnet mask is automatically assigned by the DHCP server.

UPnP (Universal Plug and Play)

Architecture for pervasive peer-to-peer network connectivity of devices of all form factors. It is designed to bring easy-to-use, flexible, standardsbased connectivity to ad-hoc or unmanaged networks whether in the home, in a small business, public spaces, or attached to the Internet.

USB (Universal Serial Bus)

USB provides a serial bus standard for connecting devices, usually to computers such as PCs. The flat screen TV supports the Mass Storage Class and PTP (Picture Transfer Protocol) devices.

Windows Media Connect

Microsoft Windows Media Connect is a new technology to distribute music, photos and video stored on a PC with Windows XP installed to a stereo system of TV. Using this technology you can playback files stored on the PC from various devices wherever you like in your home.

Windows Media DRM

Windows Media DRM is copyright protection technology developed by Microsoft Corporation. It enables content providers to distribute over the Internet music, video and other digital media content in a protected, encrypted file format.

Windows Media Player

A free digital media player application provided by Microsoft that is used for playback audio, video and images on PCs.

Windows Media Player 11

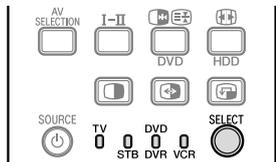
The functionality of Windows Media Connect has been integrated into this version of Windows Media Player. After installing Windows Media Player 11 Windows Media Connect will not function. See Microsoft's website for details.

Using with other equipment

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, HDD/DVD 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

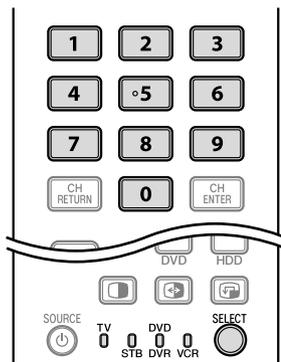
1 Press SELECT on the remote control unit to select the STB, DVD/DVR, or VCR mode depending on the equipment.

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.
- 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

- You may not be able to control some equipment in the tables partially or entirely with the supplied remote control unit.

STB	
000	PIONEER 1 (factory default)
001	PIONEER 2
002	AONVISION 1
003	CANAL SATELLITE
004	CHANGHONG
005	COSHIP
006	DORACO
007	HILLS
008	HUMAX
009	PBI
010	PACE 1
011	PACE 2
012	QUALI-TV
013	SKY DIGITAL
014	STAR HUB
015	ZINWELL 1
016	ZINWELL 2
017	ZINWELL 3
018	AONVISION 2
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

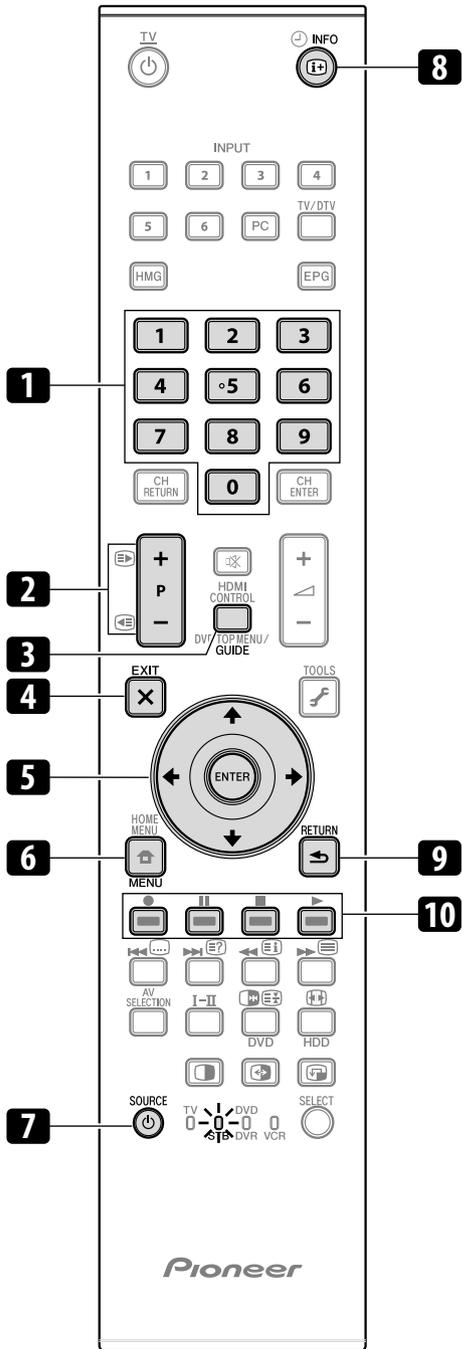
300	PIONEER
301	LG
302	PANASONIC
303	SAMSUNG
304	SONY
305	TOSHIBA

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
527	PHILIPS 2

VCR

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

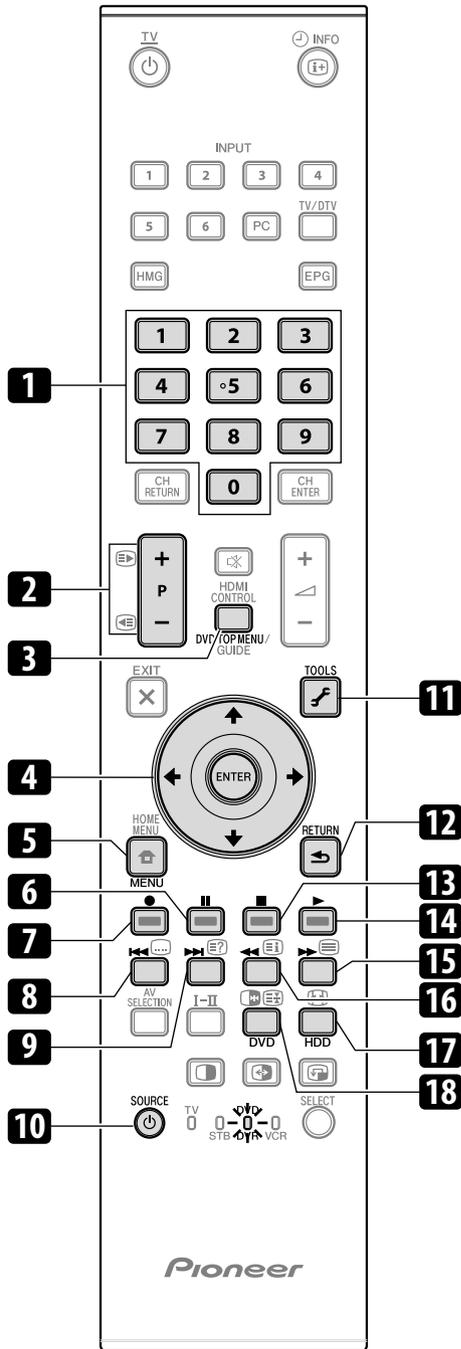


(for PDP-LX609A/PDP-LX509A)

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 GUIDE**
Press to display the broadcasting guide screen.
- 4 EXIT**
Press to exit the broadcasting menu screen or the broadcasting guide screen.
- 5 ENTER**
Press to activate the selected function.
↑/↓/←/→
Press to select items on the broadcasting menu screen or the broadcasting guide screen.
- 6 MENU**
Press to display the broadcasting menu screen.
- 7 SOURCE** 
Turns the set-top box on and off.
- 8 INFO**
Press to display information on the current broadcasting.
- 9 RETURN**
When the broadcasting menu screen is in display, press to restore the immediately previous screen.
- 10 Colour (RED/GREEN/YELLOW/BLUE)**
This operation is available only for specific brands.



(for PDP-LX609A/PDP-LX509A)

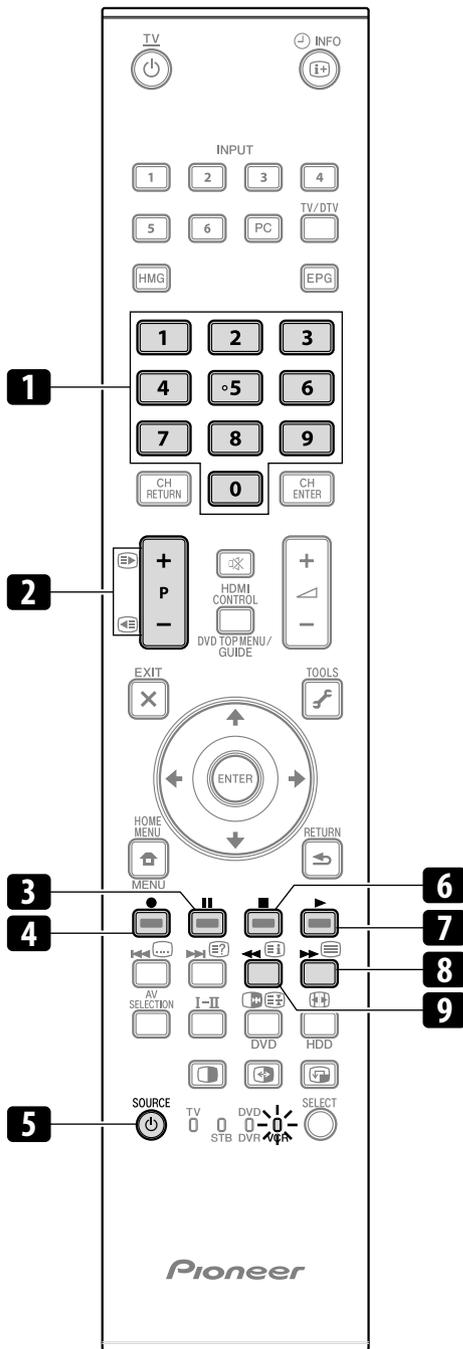
DVD/DVR control buttons

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- (HDD/DVD recorder (DVR) only)**
Press to change the channel of the tuner built in the HDD/DVD recorder (DVR).
- 3 DVD TOP MENU**
When this button is pressed, the DVD top menu will appear.
- 4 ENTER**
Press to activate the selected function.
↑/↓/←/→
Press to select items on the DVD MENU screen.
- 5 MENU**
Press to display the DVD menu.
- 6 || (PAUSE/STILL)**
Sets pauses and still pictures.
- 7 ● (REC) (HDD/DVD recorder (DVR) only)**
Starts recording.
- 8 ◀◀ (CHAPTER SEARCH)**
Each time you press, you move back to the start of the previous chapter.
- 9 ▶▶ (CHAPTER SEARCH)**
Each time you press, you move ahead to the start of the next chapter.
- 10 SOURCE**
Turns on and off the power of the DVD player or HDD/DVD recorder (DVR).
- 11 TOOLS (Pioneer BD player only)**
Press to display the TOOLS Menu.
- 12 RETURN**
When the DVD menu is in display, press to restore the immediately previous screen.
- 13 ■ (STOP)**
Press to stop playback or recording. With some DVD players or HDD/DVD 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 (HDD/DVD recorder (DVR) only)**
Press to select the hard disk (HDD) for playback or recording.
- 18 DVD (HDD/DVD recorder (DVR) only)**
Press to select the DVD for playback or recording.
- 7, 13 REC STOP (HDD/DVD recorder (DVR) only)**
Press ● and ■ at the same time to stop recording. This operation is available for only Pioneer and Sony HDD/DVD recorders (DVRs).

Note

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



(for PDP-LX609A/PDP-LX509A)

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 playback.
- 7 ▶ (PLAY)**
Starts playback.
- 8 ▶▶ (FF)**
Fast-forward the tape and allows picture search.
- 9 ◀◀ (REW)**
Rewinds the tape and allows picture search.

Chapter 13

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 flat screen TV.

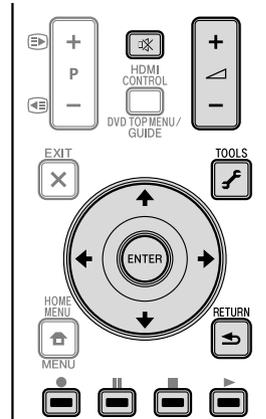
The HDMI Control functions include playback of content using on-screen control panel on the flat screen TV, recording of a TV programme while watching, timer recording using a programme list on the connected recorder, and confirmation of timer recording registered in the recorder. For details, see the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

 **Note**

- The KURO LINK function name used on the web and in catalogues is referred to as HDMI Control in the operating instructions and on the product.
- Maximum number of devices that can be connected and controlled using the remote control unit of the flat screen TV is as follows: recorder x 2, player x 2 or AV system x 1.
- Not all device operations may be available for HDMI Control functions.

HDMI Control functions

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



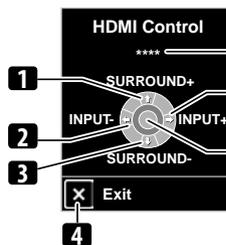
- Press \triangle +/- or \square to adjust volume for the AV system.
- Press \uparrow , \downarrow , \leftarrow , \rightarrow , **ENTER**, **RETURN** (\rightarrow) colour (**RED**, **GREEN**, **YELLOW**, **BLUE**) or **TOOLS** buttons to use such functions as the disc navigator and electronic programme guide (EPG) 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 flat screen TV.
- You cannot use two or more HDMI terminals at the rear of the flat screen TV at the same time except "Power Off" and "Display Language Setup" functions.

On-screen control panel

For an AV system



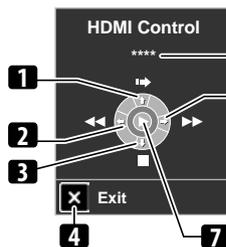
- 1 Switches the surround mode in order
- 2 Switches the input source in reverse order
- 3 Switches the surround mode in reverse order
- 4 Closes the control panel to return to the HDMI Control menu
- 5 Displays the model number of the connected device
- 6 Switches the input source in order
- 7 Void

Press \uparrow or \downarrow on the remote control unit of the flat screen TV to switch the surround mode in order or in reverse order, \leftarrow or \rightarrow to switch the input source in order or in reverse order. Pressing **HDMI CONTROL** closes the control panel to return to the HDMI Control menu.

 **Note**

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

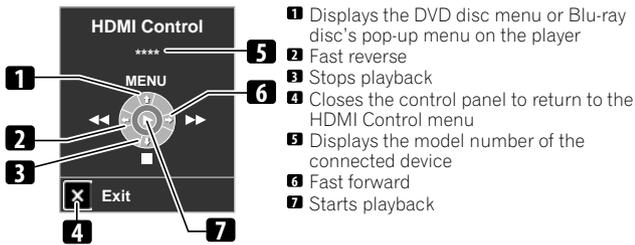
For a recorder



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

Press \leftarrow or \rightarrow on the remote control unit of the flat screen TV to select fast reverse or fast forward mode, \uparrow to skip commercials or \downarrow to stop playback. Pressing **ENTER** starts playback and **HDMI CONTROL** closes the control panel 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 control panel to return to the HDMI Control menu
- 5 Displays the model number of the connected device
- 6 Fast forward
- 7 Starts playback

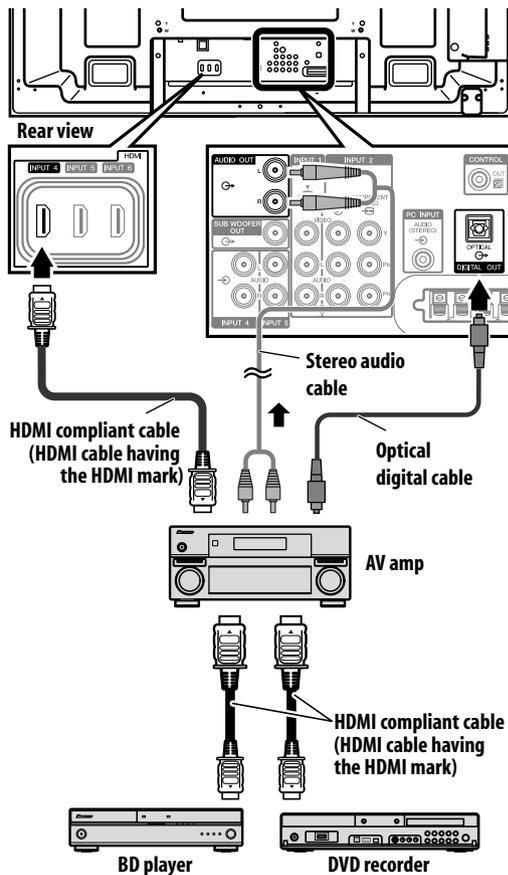
Press ← or → on the remote control unit of the flat screen TV to select fast reverse or fast forward mode, ↑ to display the DVD disc menu or Blu-ray disc's pop-up menu on the player or ↓ to stop playback. Pressing **ENTER** starts playback and **HDMI CONTROL** closes the control panel to return to the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

Making the HDMI Control connections

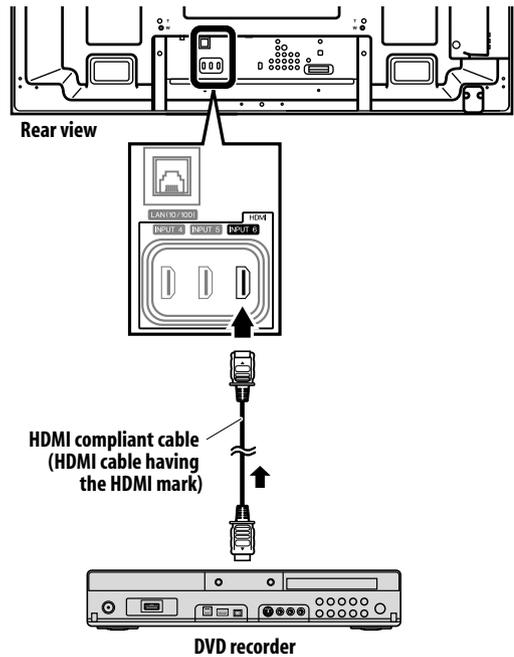
When you make changes in connections between the flat screen TV and the device(s) that supports the HDMI Control functions or settings for the "HDMI Control Setting", perform the following procedure:

- 1 Turn on the flat screen TV 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 flat screen TV, then turn the power back on to the flat screen TV.

Connecting an AV amp/DVD recorder/BD player

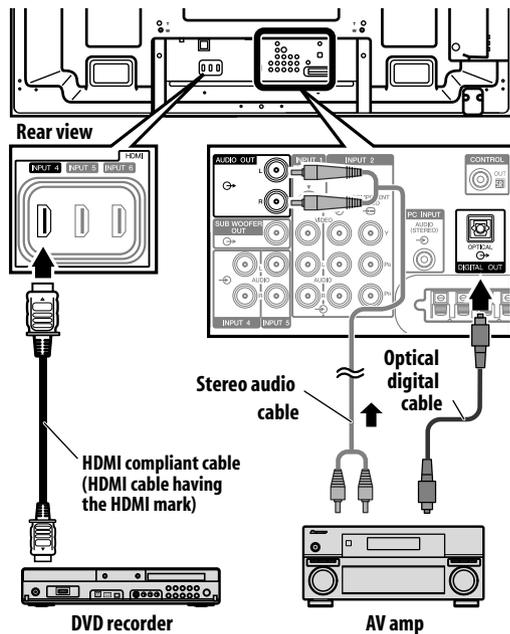


Connecting a DVD recorder



Note

- Maximum number of devices that can be connected and controlled using the remote control unit of the flat screen TV is as follows: recorder x 2, player x 2 or AV system x 1.
- When connecting an AV system, be sure to place and connect it between the flat screen TV and recorder or player.
- Do not connect an AV system that does not support the HDMI Control functions between the flat screen TV 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 flat screen TV, connect the AV system to the DIGITAL OUT terminal and the AUDIO OUT terminal on the flat screen TV using an optical digital cable and a stereo audio cable, and the recorder/player to the HDMI terminal using an HDMI compliant cable (see the illustration on the next page). Please note that signals input from the HDMI terminals will not be output from the DIGITAL OUT terminal.
- The HDMI Control functions may not operate properly if you do not use an HDMI cable that supports the HDMI 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 flat screen TV is turned On to help make the recording smoother.
- When the image from a BD/DVD player or DVD recorder connected through an HDMI Control supported AV system is switched to display on sub screen in the 2-screen or picture-in-picture mode, the sub screen turns black without displaying any image.
- For more information on the devices that support the HDMI Control functions, check the Pioneer Web site (see back cover).

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 "Setup" (↑/↓ then ENTER).
- 3 Select "Option" (↑/↓ then ENTER).
- 4 Select "HDMI Control Setting" (↑/↓ then ENTER).

Input Setting	:	Off
Power Off Control	:	Off
Power-On Ready	:	Off
Hold Sound Status	:	Off
		Power On Test
		Power Off Test

- 5 Select "Input Setting" (↑/↓ then ENTER).
- 6 Select "INPUT 4", "INPUT 5" or "INPUT 6" (↑/↓ 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.
- 7 Press HOME MENU again to exit the menu.

Note

- If you have selected "Off" in step 6, 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 flat screen TV is turned Off. (factory default is "On")

- 1 Repeat steps 1 to 4 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 flat screen TV.

Selecting the Power-On Ready

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

- 1 Repeat steps 1 to 4 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 sound continues from the connected Pioneer AV system when the flat screen TV turns On. (factory default is "Off")

- 1 Repeat steps 1 to 4 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.

Note

- To have the sound continue when the flat screen TV turns On, confirm that the "Switch to TV Sound" option appears on the HDMI Control menu before turning the flat screen TV Off (see page 71).

Power On/Off Test

You can confirm if the Power On/Off control function is effective between the flat screen TV and the connected device.

- 1 Repeat steps 1 to 4 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.

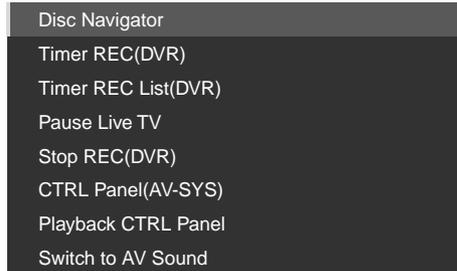
Using the HDMI Control menus

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.

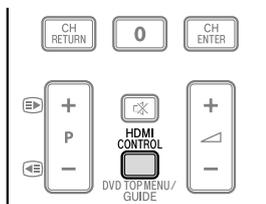


HDMI Control menu

Item	Description
Disc Navigator	Displays a title list of the connected recorder or player
Timer REC (DVR)	Displays an electronic programme guide (EPG) of the connected recorder
Timer REC List (DVR)	Displays a timer recording list of the connected recorder
Pause Live TV	Starts recording of the current TV channel when a recorder is connected, but with playback paused, effectively pausing the broadcast
Stop REC (DVR)	Stops recording for the connected recorder
CTRL Panel (AV-SYS)	Displays the control panel for the connected AV system on the flat screen TV
Playback CTRL Panel	Displays the control panel for the connected recorder or player on the flat screen TV
Switch to AV Sound (Switch to TV Sound)	Switches between the flat screen TV 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 programme 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 flat screen TV.



Chapter 14

Using Teletext

Using the Teletext functions

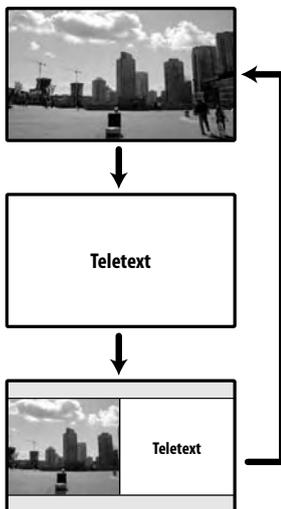
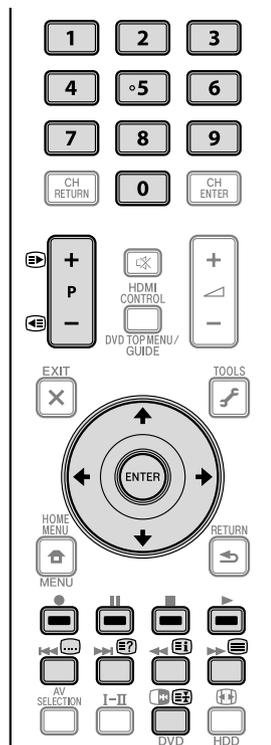
What is Teletext?

Teletext broadcasts pages of information and entertainment to specially equipped television sets. Your flat screen TV receives Teletext signals broadcast by TV networks, and decodes them into graphical format for viewing. News, weather and sports information, stock exchange prices and programme 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 Teletext basics for analogue TV or external input sources

Turning on and off Teletext

- 1 Select a TV channel or external input source providing a Teletext programme.
- 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 programme 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.

Colour (RED/GREEN/YELLOW/BLUE):

You can select a group or block of pages displayed in the coloured brackets at the bottom of the screen by pressing the corresponding colour (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.

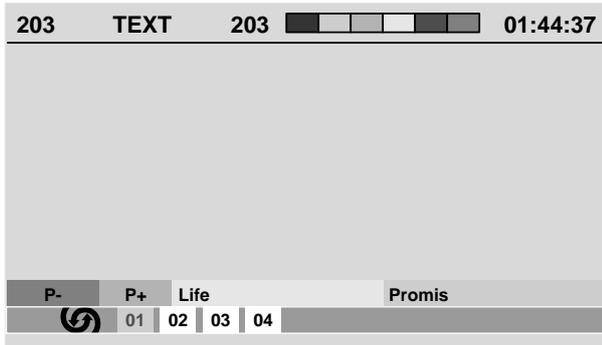


Note

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

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 / .

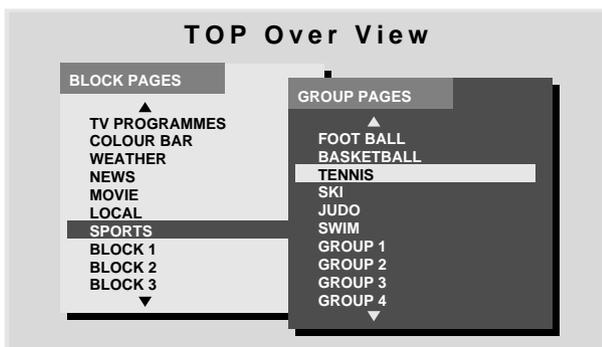
You can then manually change subpages by pressing / .

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.

Operating Teletext basics for DTV

Note

- When the current DTV programme contains Teletext information, you can display it on the screen by pressing . In this case, the "TTX" is displayed in the InfoBanner (see page 35).

Turning Teletext on and off

- Select a digital TV channel providing a Teletext programme.
- Press to display the Teletext.
- Press again to turn the display off.

Selecting and operating Teletext pages

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

Colour (RED/GREEN/YELLOW/BLUE):

You can select a group or block of pages displayed in the coloured brackets at the bottom of the screen by pressing the corresponding colour (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.

.

Returns to the Index page.

Note

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

Chapter 15

Additional information

Troubleshooting

Problem	Possible solution
GENERAL	
<ul style="list-style-type: none"> • No power. • The system cannot be switched on. 	<ul style="list-style-type: none"> • Is the power cord disconnected? (See page 17.) • Has Power On (⏻) on the flat screen TV been turned on? (See page 19.) • Check if you pressed buttons 0 to 9 or TV ⏻ on the remote control unit. (See page 19.) • If the indicator on the system lights up red, press 0 to 9 or TV ⏻ on the remote control unit or STANDBY/ON on the flat screen TV.
<ul style="list-style-type: none"> • Power is suddenly turned off. 	<ul style="list-style-type: none"> • The system's internal temperature has increased. Remove any objects blocking vent or clean. (See page 14.) • Check the power control setting. (See page 33.) • Check the sleep timer setting. (See page 43.)
<ul style="list-style-type: none"> • System cannot be operated. 	<ul style="list-style-type: none"> • 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 to two minutes.
<ul style="list-style-type: none"> • Remote control unit does not operate. 	<ul style="list-style-type: none"> • Is the TV indicator on the remote control unit lighted? Press SELECT on the remote control unit to select the TV mode. • Operate the remote control unit while pointing it toward the remote control sensor on the flat screen TV. (See page 18.) • Are the batteries inserted with polarity (+, -) aligned? (See page 17.) • Are the batteries worn out? Replace with new batteries. (See page 17.) • Are you using it under strong or fluorescent lighting? • Is a fluorescent light illuminated to remote control sensor? • Check if any obstacles exist between the remote control unit and the remote control sensor.
<ul style="list-style-type: none"> • Panel sounds/noises. 	<ul style="list-style-type: none"> • Panel generated sounds—for example, fan motor noise, electrical circuit humming, glass panel buzzing—are normal operation of a phosphor-based matrix display. • When you change the Energy Save mode, you may notice a change in the panel sound. This is normal.
PICTURE/SOUND	
<ul style="list-style-type: none"> • Screen appears dark. 	<ul style="list-style-type: none"> • Check if any obstacles exist in front of the Room Light Sensor. (See pages 11 and 42.)
<ul style="list-style-type: none"> • No image and audio is presented. 	<ul style="list-style-type: none"> • Check if the input source for video or PC has been unintentionally selected although you want to watch a TV channel. (See page 19.) • Check if you have selected a channel blocked with Channel Lock. (See page 26.) • Enter a password to temporarily cancel Channel Lock. (See page 44.) • Check the cable connection with the antenna. (See page 16.) • Check the cable connection with the other equipment. (See pages 45 to 49.)
<ul style="list-style-type: none"> • No picture. 	<ul style="list-style-type: none"> • Is connection to other components correct? (See pages 45 to 49.) • Is a non-compatible PC signal being input? (See page 47.)
<ul style="list-style-type: none"> • Sound is reversed between the right and left. • Sound is output from only a single speaker. 	<ul style="list-style-type: none"> • Check if the speaker cable connections have been reversed between the right and left or if the speaker cable from either speaker has been disconnected. (See page 12.) • Has the balance been correctly adjusted? (See page 32.)
<ul style="list-style-type: none"> • Audio is output but no image is presented. 	<ul style="list-style-type: none"> • Check if you have selected "Picture Off". With this option selected, the screen is deactivated: only sound is output. To restore the screen display, press any button other than  + /  - or . (See page 34.)
<ul style="list-style-type: none"> • Images are presented but no audio is output. 	<ul style="list-style-type: none"> • Check if you have selected the minimum volume. (See page 21.) • Check that no headphones are connected. • Check that the sound is not muted. (See page 21.) • When using "INPUT 3" as the input source, check that the audio terminal is also properly connected. (See page 46.) • When using PC as the input source, check that the audio terminal is also properly connected. (See page 47.)
<ul style="list-style-type: none"> • Picture is cut off. 	<ul style="list-style-type: none"> • Is the image position correct? (See pages 40 and 41.) • Has the correct screen size been selected? (See page 41.)
<ul style="list-style-type: none"> • Strange colour, light colour, dark or colour misalignment. 	<ul style="list-style-type: none"> • Adjust the picture tone. (See pages 28 to 31.) • Is the room too bright? The picture may look dark in a room that is too bright. • Check the colour system setting. (See page 41.)
<ul style="list-style-type: none"> • After-image lag. 	<ul style="list-style-type: none"> • 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. • 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. • You can display the "Video Pattern" screen that helps eliminate after-image when it occurs. (See page 43.) • It is also recommended to select "Screen Protection". (See page 43.)
<ul style="list-style-type: none"> • Brightness and colour tone on both sides differ from those in the centre in 4:3 mode. 	<ul style="list-style-type: none"> • 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 displays. • We recommend that you enjoy watching images in a full screen mode as much as possible. (See page 41.) • We recommend you select "Auto" for "Brightness Sync." in the Side Mask setting. This adjusts the brightness of the grey side masks according to the brightness of the main image. (See page 42.) • It is also recommended to select "Screen Protection". (See page 43.)

Problem	Possible solution
HDMI Control	
<ul style="list-style-type: none"> • HDMI Control functions do not operate. 	<ul style="list-style-type: none"> • Check if the connections are properly made between the flat screen TV and the device that supports the HDMI Control functions. (See page 69.) • The HDMI Control functions may not operate properly if you do not use an HDMI cable that supports the HDMI Specification. • Check if you have entered the settings properly for "HDMI Control Setting". (See page 70.) • 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.
<ul style="list-style-type: none"> • No image and audio is presented. 	<ul style="list-style-type: none"> • Check if the connections are properly made between the flat screen TV and the device that supports the HDMI Control functions. (See page 69.) • Check if you have entered the settings properly for "HDMI Control Setting". (See page 70.)
<ul style="list-style-type: none"> • No picture. 	<ul style="list-style-type: none"> • Check if the connections are properly made between the flat screen TV and the device that supports the HDMI Control functions. (See page 69.) • Check if you have entered the settings properly for "HDMI Control Setting". (See page 70.) • When the image from a BD/DVD player or DVD recorder connected through an HDMI Control supported AV system is switched to display on sub screen in the 2-screen or picture-in-picture mode, the sub screen turns black without displaying any image.
<ul style="list-style-type: none"> • No sound. 	<ul style="list-style-type: none"> • Check if the connections are properly made between the flat screen TV and the device that supports the HDMI Control functions. (See page 69.) • Check if you have entered the settings properly for "HDMI Control Setting". (See page 70.)
<ul style="list-style-type: none"> • An error message "The device cannot be operated. Please check the connection." appears. 	<ul style="list-style-type: none"> • Check if the connections are properly made between the flat screen TV and the device that supports the HDMI Control functions. (See page 69.) • Check if you have entered the settings properly for "HDMI Control Setting". (See page 70.)
Home Media Gallery/NETWORK	
<ul style="list-style-type: none"> • No servers are found. • No previously connected server(s) found (items in <i>Select Servers</i> are dimmed). • "Failed to acquire a list." appears on the Server List screen. 	<ul style="list-style-type: none"> • Confirm that the PC is On and not in Standby or Sleep (nothing is chosen in "Select Servers"). When the PC has started with the "Wake On LAN" (WOL), check if the PC complies with WOL or if the WOL setup has been properly done on the device manager for BIOS or Windows. • Check the physical connections (hub, router, and cable quality). It is strongly recommended to use 100BASE-TX for playback quality and display speed. • Check the logical connections (IP Address setup, DHCP, etc.). Confirm the IP Address is correct if acquired by Auto IP and Firewall setup. Also check if the IP Address is properly acquired with DHCP on the Network Setup screen that follows the HMG Setup menu. • Using two or more application servers on a single PC may cause unstable operation. For proper operation, it is strongly recommended that one application server is used on a single PC. • Check the PC if its media server is running. Restart if necessary. Check if one or more servers are On (this may cause malfunction). • Check if the PC is operating properly. Reboot the PC after confirming its specifications and setup. • Check the media server setup. If a client is registered manually the setup procedure may have to be run again. An option "Not Allowed" may have been selected for connections. • Check if UPnP (Universal Plug and Play) is enabled on your router. If it is not, enable it. Refer to your router's instruction manual for procedures. • Wait for a short period then select "Update Server List" from the TOOLS Menu. • Check for radio interference when connected using a wireless LAN. Radio interference may cause the connection to fail. • If the above does not solve the problem, try turning TV  off on the remote control unit then turn Power On () on on the flat screen TV.
<ul style="list-style-type: none"> • An available server is selected but cannot be navigated. 	<ul style="list-style-type: none"> • Check if the server is correctly set up for file sharing, if the target folder has been deleted, or if one or more folders have been corrupted on the server. • Check if there are too many files in each folder.
<ul style="list-style-type: none"> • A server is arbitrarily selected. 	<ul style="list-style-type: none"> • This arbitrary selection happens when the server you used before had been set to display the Media Navigator menu screen (if you reset it, other servers connected are also reset). • When "ON" is selected for "Auto Connection" on the HMG Setup menu, the server is automatically accessed if only one server is connected. Use the TOOLS Menu to select the proper server.
<ul style="list-style-type: none"> • File/folder configuration differs from one server to another (strange configuration). 	<ul style="list-style-type: none"> • The Media Navigator displays the server contents as classified by the server. • If no information (such as ID3 tag) is contained in the file, files cannot be classified on the server.
<ul style="list-style-type: none"> • A communication error message appears. 	<ul style="list-style-type: none"> • Refer to the possible solutions provided for "No servers are found". • If the above does not solve the problem, try turning TV  off on the remote control unit then turn Power On () on on the flat screen TV.

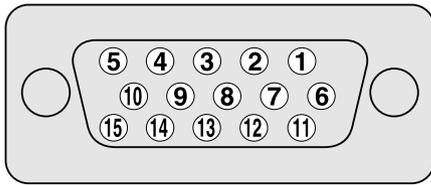
Problem	Possible solution
Home Media Gallery/PLAYBACK	
<ul style="list-style-type: none"> • Image or sound is interrupted or distorted (Block noise appears). 	<ul style="list-style-type: none"> • Check the physical connections (hub, router, cable quality). It is strongly recommended to use 100BASE-TX for playback quality and display speed. • Check if the PC is operating properly. Reboot the PC after confirming its specifications and setup. • Verify that the file complies with the supported format, bit rate or profile. Also check the file for damage. • When connected by a wireless LAN, check if the bit rate is sufficient. • Some files that comply with the supported format may not be played back or displayed. • Check if the DRM content was purchased for use with another PC. With the flat screen TV you cannot play DRM content if it has been transferred from the PC on which it was purchased to another PC. You can only play DRM content purchased for the PC in use at the time of purchase. It is recommended to obtain a new licence or use the PC for which the content was purchased. • Check if content on the same server is played with multiple client devices (players).
<ul style="list-style-type: none"> • Cannot play or display. 	<ul style="list-style-type: none"> • Check the physical connections (hub, router and cable quality). It is strongly recommended to use 100BASE-TX for playback quality and display speed. • Check if the PC is operating properly. Reboot the PC after confirming its specifications and setup. • Verify that the file complies with the supported format, bit rate or profile. Also check the file for damage. • Check if the leasing contract for the server has expired. • When connected by a wireless LAN, check if the bit rate is sufficient. • Some files that comply with the supported format may not be played back or displayed. • It takes time to capture and display a large-sized image. If this is the case, no operation may be performed. • Check if the DRM content was purchased for use with another PC. With the flat screen TV you cannot play DRM content if it has been transferred from the PC on which it was purchased to another PC. You can only play DRM content purchased for the PC in use at the time of purchase. It is recommended to obtain a new licence or use the PC for which the content was purchased. • Check if content on the same server is played with multiple client devices (players).
Home Media Gallery/USB	
<ul style="list-style-type: none"> • USB devices are not properly recognised. 	<ul style="list-style-type: none"> • Check if the device is Mass Storage Class compliant, if it is connected properly, nothing is damaged (power unit, mode such as Mass Storage mode and media format, etc.), if it contains the supported files, and if the speed of the device is sufficient (poor device speed may result in interrupted or delayed display of images due to a bit-rate problem). When using a digital camera that is not Mass Storage Class compliant, insert the Flash Memory card into the multi-card reader. • Confirm that the device is correctly inserted or removed. • No USB hub is supported. When you connect a home network, connect directly to the device's USB port.
<ul style="list-style-type: none"> • Image or sound is interrupted or distorted (Block noise appears). 	<ul style="list-style-type: none"> • Verify that the file complies with the supported format, bit rate or profile. Also check the file for damage. • Some files that comply with the supported format may not play back or display properly. • Check if the device is Mass Storage Class compliant, if it is connected properly, nothing is damaged (power unit, mode such as Mass Storage mode and media format, etc.), if it contains the supported files, and if the speed of the device is sufficient (poor device speed may result in interrupted or delayed display of images due to a bit-rate problem). When using a digital camera that is not Mass Storage Class compliant, insert the Flash Memory card into the multi-card reader.
<ul style="list-style-type: none"> • An external device connected to the USB port does not operate. 	<ul style="list-style-type: none"> • Check if the device is connectable to the flat screen TV. • Re-insert the USB cable. • For connection, use a USB cable shorter than 5 m. • Check if the USB cable is properly connected. • First turn the power off and then turn it on again to check if the external device works correctly. • Check if the external device works correctly after the USB device was restarted. • Check if the digital still camera is in the viewing mode. • Refer to the instruction manual for the digital still camera.
<ul style="list-style-type: none"> • Photo data stored in a digital still camera cannot be read through USB interface. 	<ul style="list-style-type: none"> • Check if the device is connectable to the flat screen TV. • Check if the digital still camera is turned on. • Check if the digital still camera is in the viewing mode.
Home Media Gallery/Slide Show	
<ul style="list-style-type: none"> • Slideshow (photo content) doesn't start. 	<ul style="list-style-type: none"> • Check if the player is placed into the pause, rotation or zoom mode. If that is the case, press ENTER to start the slideshow.
<ul style="list-style-type: none"> • Next picture does not appear in the slideshow. 	<ul style="list-style-type: none"> • The time needed to display a picture may be longer than the time set to display in Slide Show settings. Reduce the picture size using a PC and try again. • Slide Show only displays the supported files. If there is only one supported file, that file will remain on the display and not display any other files.
OTHER	
<ul style="list-style-type: none"> • Power ON indicator or STANDBY indicator is quickly flashing. 	<ul style="list-style-type: none"> • Internal protective circuits may have been activated. First turn Power On (⏻) off on the flat screen TV, wait one minute or more, then switch the power on again by turning Power On (⏻) on. If the indicator is still flashing, unplug the flat screen TV's power cord from the power outlet. Wait one to two minutes then plug in the flat screen TV again. If this does not solve the problem, contact a Pioneer Service Center. These are listed on your warranty card for each country. Alternatively, check the Pioneer Web site (see back cover) for contact details.

Additional information

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

Code	Message	Check
SD04	Powering off. Internal temperature is too high. Check temperature around the display.	Check if the ambient temperature of the flat screen TV is high.
SD05	Internal protection circuits turning power OFF. Possible short in the speaker cable.	Check the speaker cable connections between the flat screen TV and the speakers.
SD11	Powering off. Internal temperature is too high. Check temperature around TV.	Check if the ambient temperature of the flat screen TV is high.

Signal names for 15-pin mini D-sub connector



Pin No.	Signal name	Pin No.	Signal name
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)		

Specifications

Item		60" flat screen TV, model: PDP-LX609A	50" flat screen TV, model: PDP-LX509A/PDP-C509A
Number of pixels		1920 x 1080 pixels	
Audio amplifier		18 W + 18 W (1 kHz, 10 %, 6 Ω)	18 W + 18 W (1 kHz, 10 %, 6 Ω)
Sound Effect		SRS FOCUS/SRS/SRS TruBass/SRS Definition	
Power Requirements		240 V AC, 50 Hz, 499 W (0.4 W Standby)	240 V AC, 50 Hz, 414 W (0.3 W Standby)
Weight		50.8 kg (112.0 lbs)	33.8 kg (74.6 lbs)
Colour System		PAL/SECAM/3.58NTSC/4.43NTSC/PAL60	
TV Function (Analogue)	Receiving System	PAL: B	
	Tuner	VHF/UHF	AU0 ch to AU69 ch
		CATV	S2 ch to S44 ch
	Auto Channel Preset	99 ch, Auto Preset	
Audio multiplex	A2		
TV Function (Digital)	Receiving System	DVB-T (2K/8K COFDM)	
	Tuner	VHF/UHF	VHF Band (177.5 MHz to 226.5 MHz) and UHF Band (529.5 MHz to 816.5 MHz)
		Auto Channel Preset	999 ch, Auto Preset, Auto Label
	STEREO	MPEG layer I/II, Dolby Digital	
Terminals	Rear	INPUT 1	S-VIDEO in, VIDEO in, AUDIO in
		INPUT 2	COMPONENT VIDEO in, VIDEO in, AUDIO in
		INPUT 4	HDMI in ^{*1} , AUDIO in
		INPUT 5	HDMI in ^{*1} , AUDIO in
		INPUT 6	HDMI in ^{*1}
		CONTROL OUT	1
		SPEAKERS	6 Ω to 16 Ω
		Antenna	75 Ω Din Type for VHF/UHF in
		PC INPUT	Analogue RGB in, AUDIO in
		AUDIO OUT	AUDIO out (Fixed)
	SUB WOOFER OUT	Variable	
	DIGITAL OUT	Digital audio output (Optical)	
	LAN 10/100	1 (PDP-LX609A/PDP-LX509A only)	
	Side	INPUT 3	VIDEO in, AUDIO in
		USB	USB in ^{*2}
		PHONES	16 Ω to 32 Ω recommended

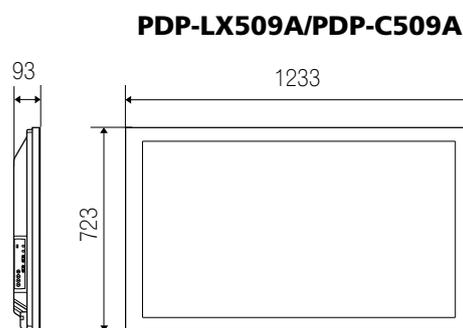
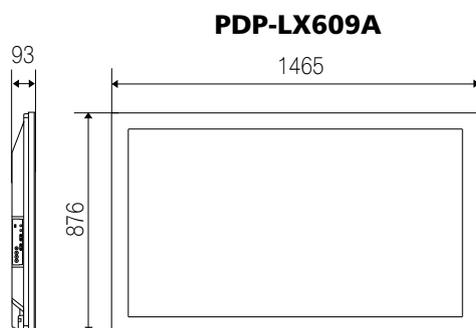
^{*1} This conforms to HDMI 1.3 (Deep Colour) and HDCP1.1. HDMI (High-Definition Multimedia Interface) is a digital interface that handles both video and audio using a single cable. HDCP (High-bandwidth Digital Content Protection) is a technology used to protect copyrighted digital contents that use the Digital Visual Interface (DVI).

^{*2} This conforms to USB 1.1 and 2.0 specifications.

Design and specifications are subject to change without notice.

Dimensions

Unit: mm



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