

SXRD Projection TV



Operating Instructions

- ⚠ Before operating the TV, please read the “Safety information” section of this manual.
Retain this manual for future reference.

KDS-60R2000

SXRD
Silicon X-tal Reflective Display

BRAVIA 

WARNING

- To prevent the risk of electric shock, if the AC power cord or plug is damaged, do not insert the plug into the AC power outlet. This plug cannot be used and should be destroyed.
- To prevent the risk of fire or electric shock, do not expose the TV set to rain or moisture.
- Dangerously high voltages are present inside the TV set. Do not open the cabinet. Refer servicing to qualified personnel only.

Introduction

Thank you for choosing this Sony product.
Before operating the TV, please read this manual thoroughly and retain it for future reference.

Notice for Digital TV function

- Any functions related to Digital TV (with **DVB** logo) will only work in areas where DVB-T (MPEG2) digital terrestrial signals are broadcasted. Please confirm with your local dealer if you can receive a DVB-T signal where you live.
- Although this TV set follows DVB-T specifications, compatibility with future DVB-T digital terrestrial broadcasts cannot be guaranteed.
- Some Digital TV functions may not be available in some areas.

Trademark information

- **DVB** is a registered trademark of the DVB Project
- Manufactured under license from BBE Sound, Inc. Licensed by BBE Sound, Inc. under one or more of the following US patents: 5510752, 5736897. BBE and BBE symbol are registered trademarks of BBE Sound, Inc.
- “Dolby”, “Pro Logic”, and the double-D symbol are trademarks of Dolby Laboratories.
- Manufactured under license from Dolby Laboratories.
- TruSurround technology is used as a virtualizer for Virtual Dolby Surround.
- TruSurround, SRS and (●) symbol are trademarks of SRS Labs, Inc.
TruSurround technology is incorporated under license from SRS Labs, Inc.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.



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DVB : for digital channels only

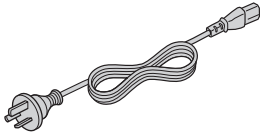
Start-up Guide

1: Checking the accessories

Remote RM-GD001 (1)

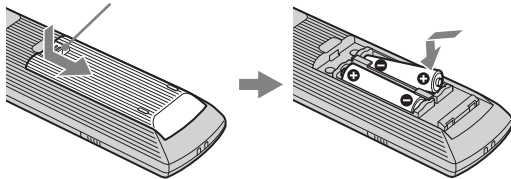
Size AA batteries (R6 type) (2)

AC power cord (1)



To insert batteries into the remote

Push and slide to open.



Notes

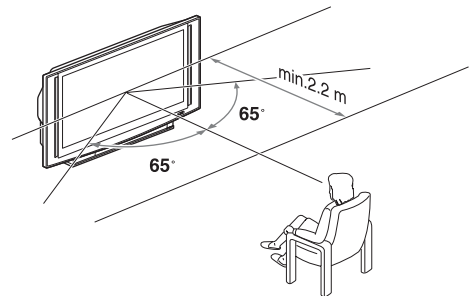
- Observe the correct polarity when inserting batteries.
- Do not use different types of batteries together or mix old and new batteries.
- Dispose of batteries in an environmentally friendly way. Certain regions may regulate disposal of the battery. Please consult your local authority.
- Handle the remote control with care. Do not drop or step on it, or spill liquid of any kind onto it.
- Do not place the remote control in a location near a heat source, or in a place subject to direct sunlight, or in a damp room.

2: Installing the TV

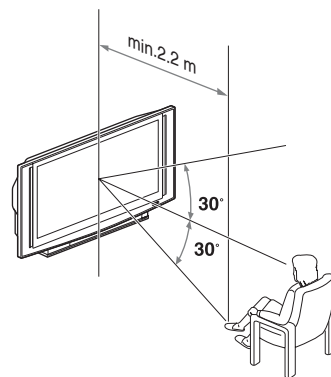
Recommended viewing area

Your viewing position may affect the picture quality. For the best picture quality, install your TV minimum of 2.2 m from your viewing area as shown below.

Horizontal Viewing Area

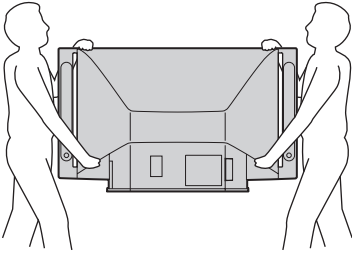


Vertical Viewing Area



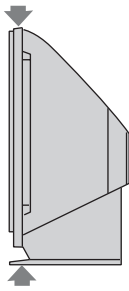
Carrying your TV

Carrying the TV requires at least two people. When moving the TV, place one hand in the hole on the lower portion of the TV while supporting the top with the other hand, as shown in the illustration below.



Notes

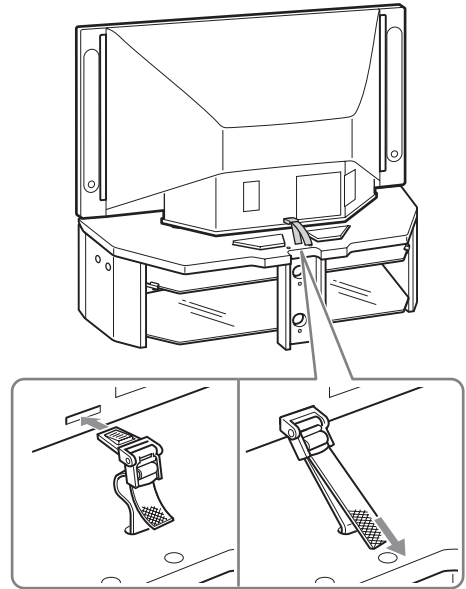
- Do not hold by the pedestal or the front panel of the TV. Doing so may cause these parts to break off.



Do not grasp the pedestal or the front panel of the TV.

- To ensure the safety of children and the TV, keep children away from the TV during installation. Climbing on or pushing the TV or its stand may cause it to fall and damage the TV.
- When installing your TV against a wall, keep your TV at least 10 cm away from the wall to provide proper ventilation.

Preventing the TV from toppling over



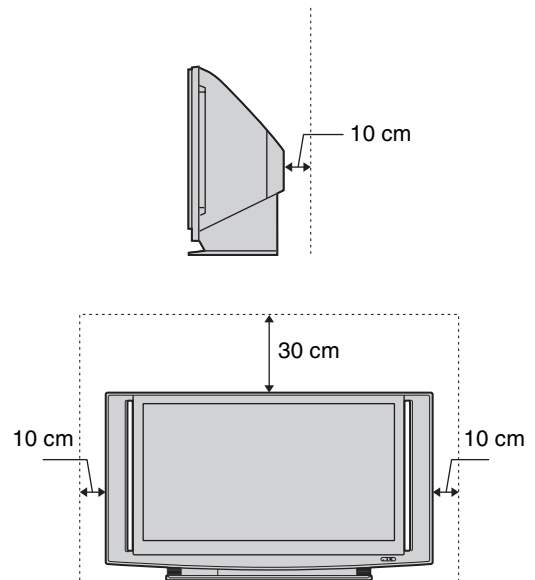
Note

When using the SU-GW12 stand (not supplied) for your TV, you must use the support belt.

Installing the TV against a wall

Keep the TV at least 10 cm away from the wall to provide proper ventilation. Blocking the ventilation opening of the cooling fan may damage the TV.

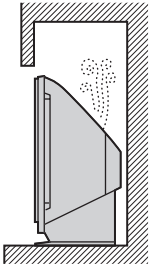
Allow this much space



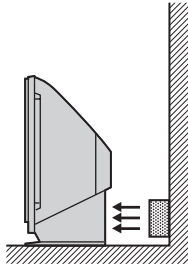
Continued

Never install the TV as follows

Air circulation is blocked

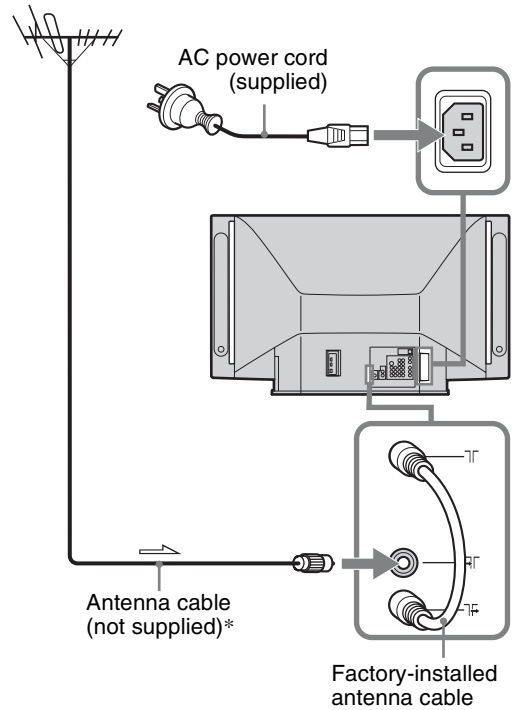


Warm air is blown to ventilation openings



3: Connecting an antenna/VCR

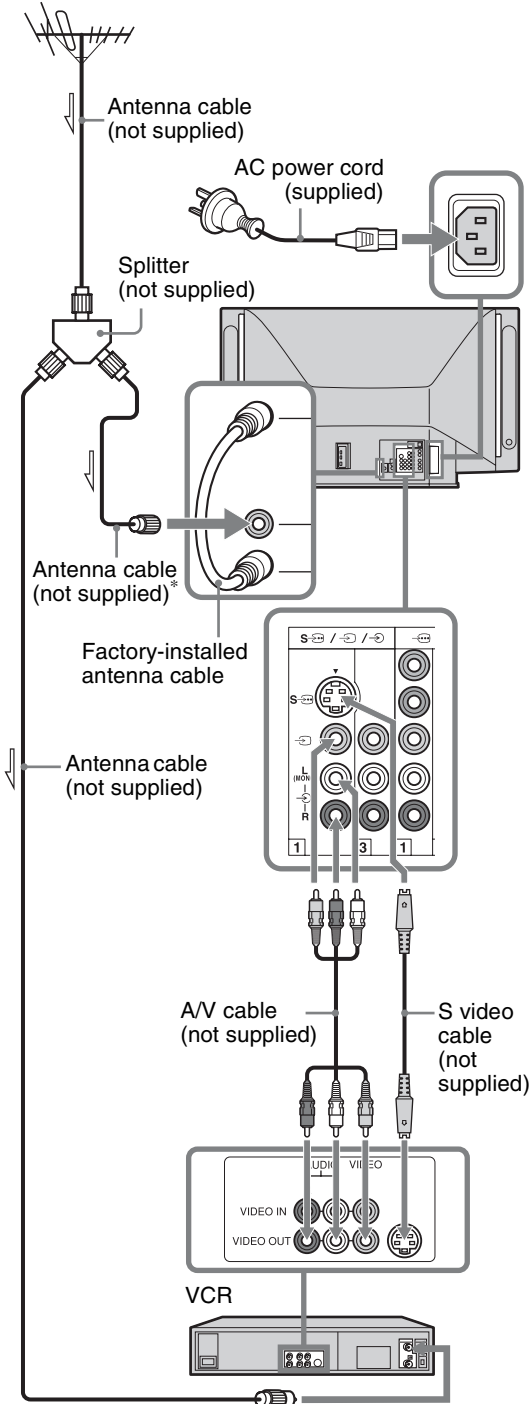
Connecting an antenna only



* When connecting an antenna cable, an adaptor (not supplied) may be required.

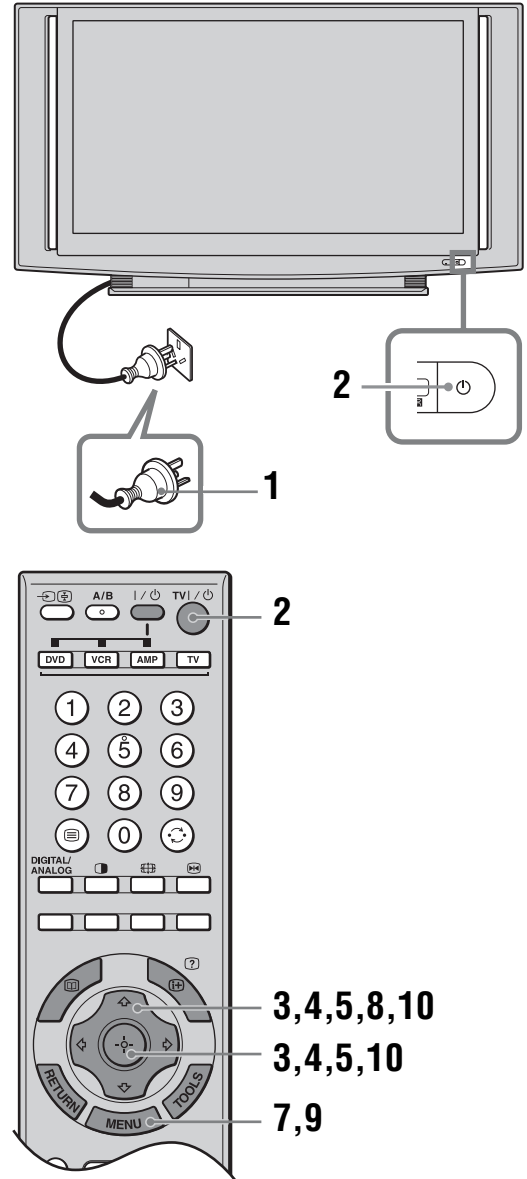
Connecting an antenna and VCR

We recommend that you use a splitter to connect the antenna to the TV and to the VCR etc. This should ensure that signal loss is reduced as much as possible.



* When connecting an antenna cable, an adaptor (not supplied) may be required.

4: Auto-tuning the TV



1 Connect the TV to your AC power outlet (220-240 V AC, 50 Hz).

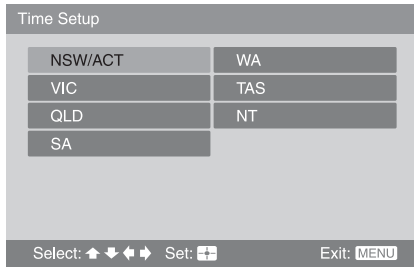
2 Press on the TV (front).

When you switch on the TV for the first time, the Time Setup menu appears on the screen.

When the TV is in standby mode (the (standby) indicator on the TV (front) is red), press TV on the remote to switch on the TV.

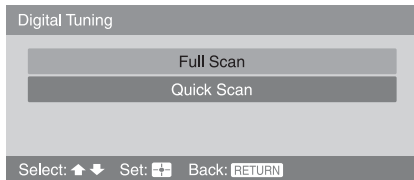
Continued

- 3** Press $\uparrow/\downarrow/\leftarrow/\rightarrow$ to select the state/region in which you will operate the TV, then press \oplus .



This option allows you to set the time zone in which you will operate the TV. This will ensure that the time displayed on the i-Plate (page 18) is correct.

- 4** Press \uparrow/\downarrow to select "Full Scan" or "Quick Scan" to preset channels, then press \oplus .



"Full Scan": All available channels are tuned and stored. This procedure may take some time.
"Quick Scan": All expected channels in your area are tuned and stored. You will need to select your nearest city to help speed up this procedure.

- 5** Press \leftarrow/\rightarrow to select "OK", then press \oplus .

A display appears showing a tuning progress bar and the channels tuned and stored.
The TV starts searching for all available digital channels, followed by all available analog channels. This may take some time, please be patient and do not press any buttons on the TV or remote.

If a message appears for you to confirm the antenna connection

No digital or analog channels were found. Check the antenna connection and press \leftarrow/\rightarrow to select "Yes", then press \oplus to start auto-tuning again.

- 6** When the Program Sorting menu appears on the screen, follow the steps of "Program Sorting" (page 32).

If you do not change the order in which the analog channels are stored on the TV, go to step 7.

- 7** Press MENU to display the Clock Set menu.

When digital channels have been stored, set "Time Adjustment" to "Auto" then go to step 9.
If no digital channels have been stored, set "Time Adjustment" to "Manual" then go to next step.

- 8** Press $\uparrow/\downarrow/\leftarrow/\rightarrow$ to set the day and time (hour and minute), then press \oplus .

- 9** Press MENU to exit.

The TV has now tuned in all the available channels.

- 10** Press \leftarrow/\rightarrow to select the desired setting in "Display this menu next time?" dialog, then press \oplus to exit.

Tip

If "Yes" is selected and the TV is switched off by pressing \mathcal{O} on the TV, or is disconnected from the AC power outlet, the auto startup procedure restarts the next time the TV is switched on.

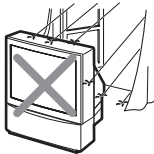
Safety information

To prevent fire or shock hazard, do not expose the TV to rain or moisture.

Dangerously high voltages are present inside the TV. Do not open the cabinet. Refer servicing to qualified personnel only.

For general safety

- Do not expose the TV to rain or moisture.



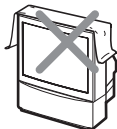
- Do not open the rear cover.



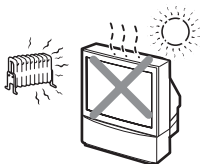
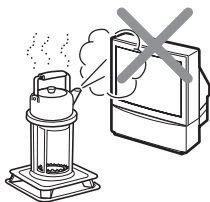
- This set should be operated only from the type of power source indicated on the serial/model plate. If you are not sure of the type of electrical power supplied to your home, consult your dealer or local power company.

For safe installation

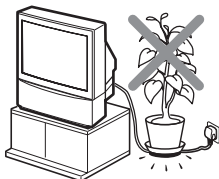
- Never cover the slots and openings with a cloth or other materials.



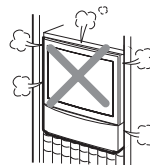
- Do not block the ventilation openings.
- Do not use power-line operated sets near water — for example, near a bathtub, washbowl, kitchen sink, swimming pool, etc.
- Do not install the TV in hot, humid or excessively dusty places.



- Do not allow anything to rest on or roll over the power cord, and do not place the set where the power cord is subject to wear or abuse.
- Do not install the TV where it may be exposed to mechanical vibrations.

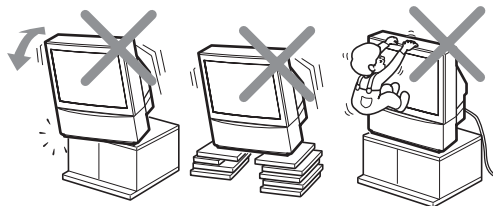


- Use the TV at temperatures between 5°C and 35°C.
- If the TV is transported directly from a cold to a warm location, or if the room temperature has changed suddenly, the picture may be blurred or show poor color. This is because moisture has condensed on the mirror or lenses inside. If this happens, let the moisture evaporate before using the TV.



- Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

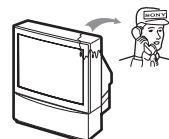
- Do not place the set on an unstable cart, stand, table or shelf. The set may fall, causing serious injury to a child or an adult and serious damage to the set. Use only a stand recommended by the manufacturer for the specific model of TV. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



- When the set exhibits a distinct change in performance, it indicates a need for service.
- The TV should be installed near an easily accessible power outlet.

For safe operations

- Do not operate the TV on anything but 220-240 V AC, 50 Hz.
- Do not operate the TV if any liquid or solid object falls in it — have it checked immediately.

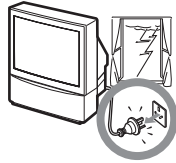


- Never push objects of any kind into the set through the cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the set.
- Leave enough space between the TV or furniture and an outlet so that you can plug in/out easily.

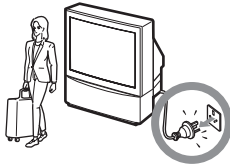


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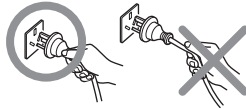
- Unplug the AC power cord during lightning storm.



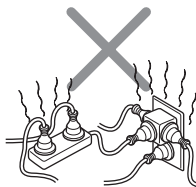
- Do not keep the TV plugged in if you are not going to use it for several days. Even if your TV is turned off, it is still connected to AC power when plugged into an outlet.



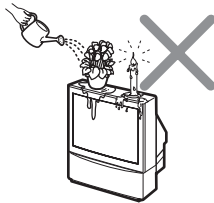
- Do not pull the power cord to disconnect the TV. Pull it out by the plug.



- Do not plug in too many appliances to the same power jack. Do not damage the power cord.



- Do not place any objects on the TV. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.



- To prevent fire, keep inflammable objects or naked lights (e.g. candles) away from the TV.
- If a snapping or popping sound from a TV set is continuous or frequent while the TV is operating, unplug the TV and consult your dealer or service technician. It is normal for some TV sets to make occasional snapping or popping sounds, particularly when being turned on or off.
- Give careful consideration to the environment when disposing of batteries.
- Do not unplug or switch off the AC power outlet directly when the TV is on.
- Always switch off by pressing “⏻” on the remote or the TV first to ensure proper lamp cooling process.

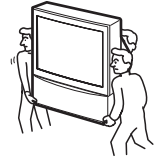
When not in use

- If you will not be using the TV set for several days, the TV set should be disconnected from the mains for environmental and safety reasons.
- The TV set is not disconnected from the mains when the TV set is switched off.
- To disconnect the TV set completely, pull the plug from the outlet. However, some TV sets may have features which need the TV set to be left in standby to work correctly. The instructions in this manual will inform you if this applies.

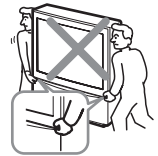
Carry the TV in the specified manner

If you carry the TV in a manner other than the specified manner and without the specified number of persons, it may drop and a serious injury may be caused. Be sure to follow the instructions mentioned below.

- Carry the TV with the specified number of persons (page 5).



- Do not carry the TV holding the speaker grill.
- Hold the TV tightly when carrying it.
- Before carrying the TV, disconnect any accessories or cables.
- Do not carry the TV holding the screen edges.



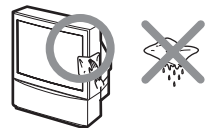
Caution

Do not use the TV at altitudes higher than 3,000 m, as doing so might cause malfunctions.

Cleaning

Clean the rear cover area of the TV regularly. Dust in rear cover area may cause a problem with the cooling system of the TV.

- To remove hard contamination, use a cloth moistened with a solution of mild detergent and water. Do not use a spray cleaning solution directly to the TV. It should only be used to moisten the cleaning cloth.
- Clean the cabinet of the TV with a dry soft cloth. To remove dust from the screen, wipe it gently with a soft cloth. Stubborn stains may be removed with a cloth slightly dampened with a solution of mild soap and warm water. Never use strong solvents such as thinner or benzene for cleaning. If picture brightness decreases over time, it may be necessary to clean the inside of the TV. Consult qualified service personnel.
- Unplug the AC power cord when cleaning this unit. If not, it may result in electric shock.
- Do not rub, touch, or tap the surface of the screen with sharp or abrasive items, like a ball point pen or a screw driver. This type of contact may result in a scratched screen.



About the TV

- Although the TV is made with high-precision technology, black dots may appear or bright points of light (red, blue, or green) may appear constantly on the screen. This is a structural property of the panel and is not a malfunction.
- When High contrast non-moving images such as station logos and channel numbers are displayed for a long period of time, there may be some image retention on the screen. This is only a temporary condition. Turning off the power for a while or letting the TV run on another channel will eliminate the retained image.
- If direct sunlight or other strong illumination shines on the screen, part of the screen may appear white due to reflections from behind the screen. This is a structural property of the TV.
Do not expose the screen to direct illumination or sunlight.

AC power outlet

The TV set with a three-wire grounding type AC power plug must be connected to an AC power outlet with a protective earthing connection.

Projection lamp

- Your TV uses a projection lamp as its light source. It is time to replace the lamp with a new one (not supplied) when:
 - the message, “Projection lamp is nearing end of life. Please replace the lamp.” appeared on the screen,
 - the lamp indicator on the front blinks in red,
 - screen images become dark,
 - no image appears on the display after prolonged use.
- In rare instances, the bulb may pop inside the lamp unit, but the lamp unit is designed to contain all of broken glass pieces inside the lamp unit. (See “Replacing the lamp” on page 42.)
- When the lamp eventually burns out, you may hear a noticeable pop sound. This is normal and is inherent in this type of lamp.
- The projection lamp contains mercury and should be disposed of properly. Consult your local authorities regarding safe disposal. If the lamp is broken during use, a small amount of mercury may be released. In this situation, move away from the product and ventilate the area. In case of accidental contact or inhalation, or if you feel unwell, consult a physician promptly.

Cooling fan

This TV uses a cooling fan. You may hear some fan noise (depending on the placement of the TV), which may be more noticeable during the night, or when ambient noise is particularly low.

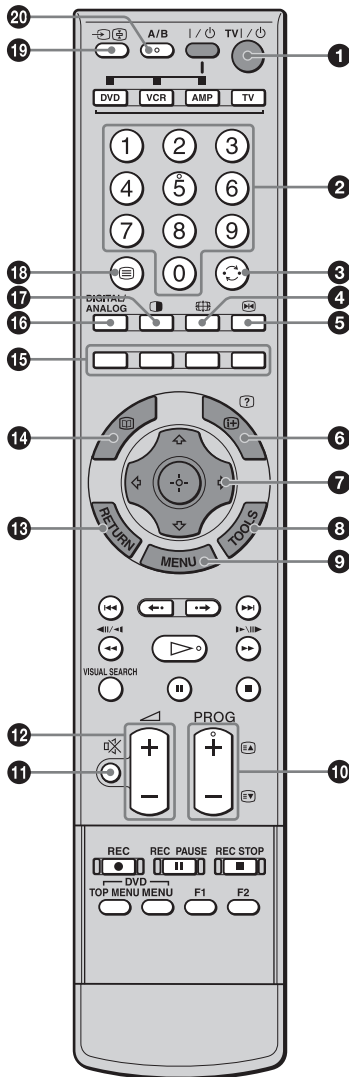
Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)



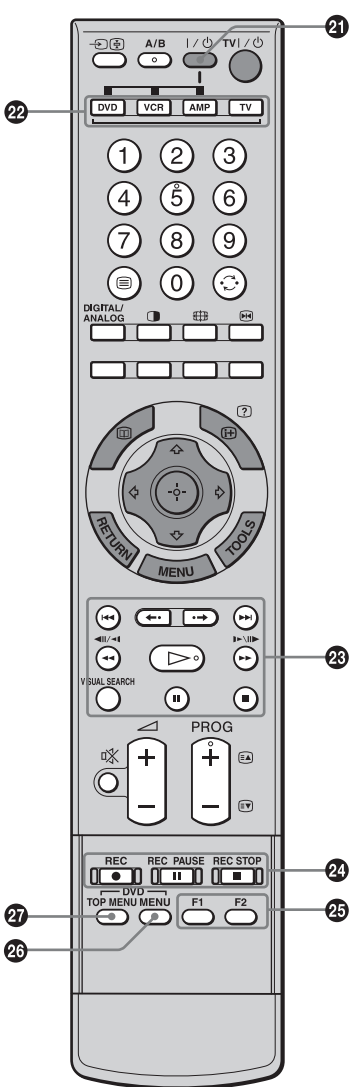
This symbol is on the remote control.



Overview of the remote



- 1 TV I/⏻ – TV standby**
Switches off the TV temporarily and on from standby mode.
- 2 Number buttons**
 - In TV mode: Selects channels. For channel numbers 10 and above, enter the second, third or fourth digit quickly.
 - In Text mode: Enters the three digit page number to select the page.
- 3 ↻ – Previous channel**
Returns to the previous channel watched (for more than five seconds).
- 4 🌐 – Wide Mode (page 17)**
- 5 ⏸ – Picture freeze (page 17)**
Freezes the TV picture.
- 6 ⓘ/? – Info / Text reveal**
 - In digital mode (page 18): Displays details of the current or next program.
 - In analog mode: Displays information such as current channel number and screen format.
 - In Text mode (page 16): Reveals hidden information (e.g. answers to a quiz).
- 7 ⏪/⏩/⏮/⏭/⏯ (page 16, 21)**
- 8 TOOLS (page 17, 20)**
Enables you to access various viewing options and change/make adjustments according to the source and screen format.
- 9 MENU (page 21)**
- 10 PROG +/-/⏮/⏭ (page 16)**
 - In TV mode: Selects the next (+) or previous (-) channel.
 - In Text mode: Selects the next (⏮) or previous (⏭) page.
- 11 🚫 – Mute (page 16)**
- 12 🔊 +/- – Volume**
- 13 RETURN**
Returns to the previous screen of any displayed menu.
- 14 📺**
This button does not work with this model.
- 15 Colored buttons (page 17)**
- 16 DIGITAL/ANALOG (page 16)**
- 17 🖼️ – Twin Picture (page 18)**
Displays two pictures simultaneously.
- 18 ☰ – Text (page 16)**
- 19 →/⏮ – Input select / Text hold**
 - In TV mode (page 20): Selects the input source from equipment connected to the TV jacks.
 - In Text mode (page 16): Holds the current page.
- 20 A/B – Dual Sound**
Enables you to select for dual sound (page 26) and select the audio type (Dolby Digital or MPEG Audio) in Digital mode.



21 I/⏻

Switches on or off the optional equipment selected from the function buttons.

22 Function buttons

Enables you to operate the corresponding equipment. For details, see “Programming the remote” on page 41.

23 DVD/VCR operating buttons

- ◀◀ : Replays the current program from the previous chapter mark (if any).
- ▶▶ : Advances forward to the next chapter mark (if any).
- ◀• : Replays the current program for a set period of time.
- ▶ : Advances forward a set period of time.
- ◀◀◀ : Plays a program in fast reverse mode.
- ▶▶▶ : Plays a program in fast forward mode.
- ▷ : Plays a program at a normal speed.
- ⏸ : Pauses playback.
- : Stops the playback.
- VISUAL SEARCH : Only for Sony DVD recorders with the visual search function. For details, see the operating instructions supplied with the DVD recorder.

24 DVD/VCR record buttons

- REC: Starts recording.
 - ⏸ REC PAUSE: Pauses the recording.
 - REC STOP: Stops the recording.
- ⏸ REC PAUSE and ■ REC STOP are available only on DVD recorders.

25 F1/F2

- Selects a disc when using a DVD changer.
 - Selects a function when using a combination unit (e.g. a DVD/VCR).
- For details, see the operating instructions supplied with the DVD changer or combination unit.

26 DVD MENU

Displays the DVD disc menu.

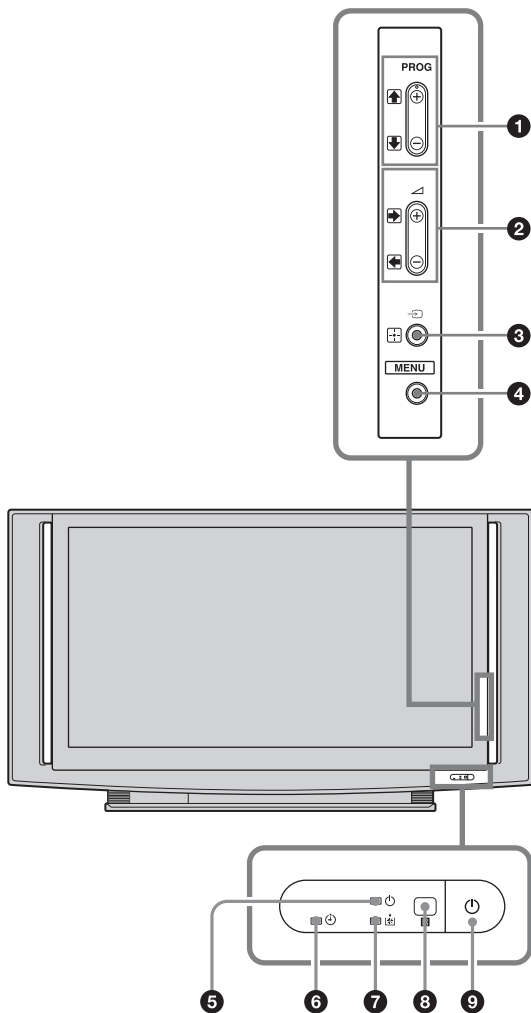
27 DVD TOP MENU

Displays the top menu of the DVD disc.

Tip

The number 5, ▷, PROG + and A/B buttons have tactile dots. Use the tactile dots as references when operating the TV.

Overview of the TV buttons and indicators



- 1** **PROG** +/-/↑/↓
 - In TV mode: Selects the next (+) or previous (-) channel.
 - In TV menu: Moves through the options up (↑) or down (↓).
- 2** **+/-/→/←**
 - In TV mode: Increases (+) or decreases (-) the volume.
 - In TV menu: Moves through the options right (→) or left (←).
- 3** **→/+ – Input select/OK**
 - In TV mode (page 20): Selects the input source from equipment connected to the TV jacks.
 - In TV menu: Selects the menu or option, and confirms the setting.
- 4** **MENU** (page 21)
- 5** **⏻ – On/standby indicator**

Flashes in green when the light source is preparing to turn on. Lights up in green when the TV is switched on.

Lights up in red when the TV is in standby mode. If the lamp cover or the lamp itself is not securely attached, the red indicator will continue to flash in intervals of three blinks at a time (page 43).
- 6** **⌚ – Timer indicator**

Lights up in orange when the timer is set (page 29).
- 7** **💡 – Lamp indicator**

Flashes in red when the lamp for the light source has burned out.
- 8** **Remote control sensor**
- 9** **⏻ – Power**

Switches the TV on or off.

Note

Make sure that the TV is completely switched off before unplugging the AC power cord. Unplugging the AC power cord while the TV is turned on may cause the indicator to remain lit or may cause the TV to malfunction.

Projection lamp

Your TV uses a projection lamp as its light source. As with any lamp, it has lifespan and needs to be replaced when the lamp indicator flashes or the screen becomes darker.

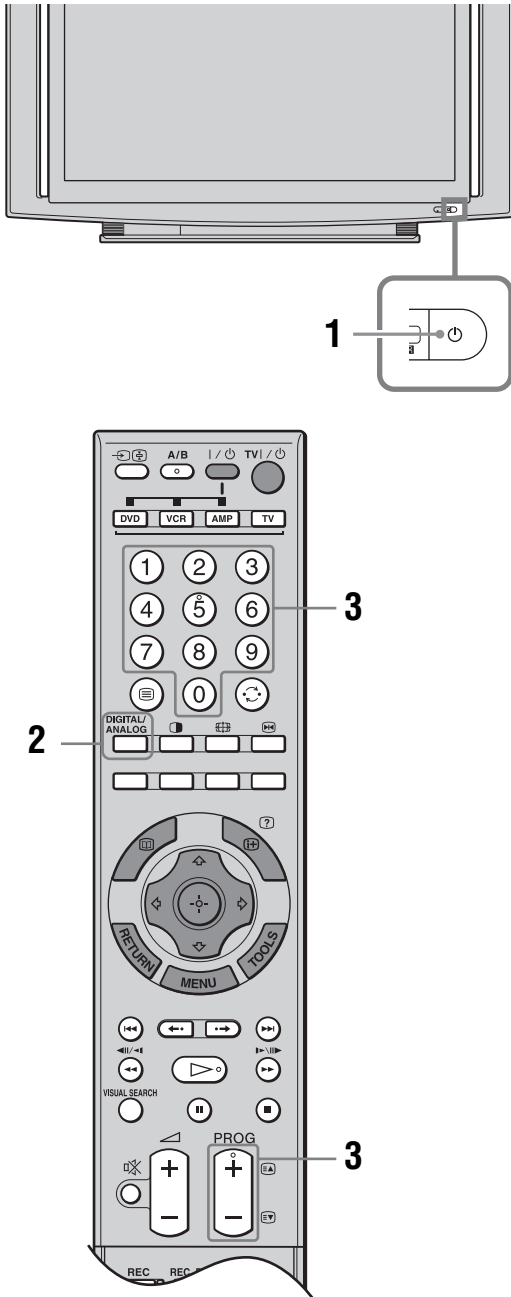
Notes

- After switching on your TV, it may take a while (1 minute or less) before the picture appears.
When the projection lamp wears out, the screen goes dark.
- Replace the lamp with a new Sony XL-5100 replacement lamp (not supplied). How to replace the lamp, see page 42.

Warning

The light emitted from the lamp is quite bright when your TV is in use. To avoid eye discomfort or injury, do not look into the light housing when the power is on.

Watching TV



- 1** Press on the TV (front) to switch on the TV.
When the TV is in standby mode (the (on/standby) indicator on the TV (front) is red), press TV on the remote to switch on the TV.

- 2** Press DIGITAL/ANALOG to switch between digital and analog modes.
The channels available vary depending on the mode.
- 3** Press the number buttons or PROG +/- to select a TV channel.
To select channel numbers 10 and above using the number buttons, enter the second, third or fourth digits quickly.
In digital mode, an information banner appears briefly. The following icons may be indicated on the banner.

In normal TV mode

- SD: SD (or HD: HD)
- RADIO: Radio service
- PG: Parental rating
- Multi audio program
- Text service

In Twin Picture mode (page 18)

- Radio service
- Parental Lock

Additional operations

To	Do this
Switch off the TV temporarily (standby mode)	Press TV .
Switch off the TV	Press on the TV (front).
Switch on the TV without sound from standby mode	Press . Press +/- to adjust the volume.
Adjust the volume	Press + (increase)/ - (decrease).
Mute the sound	Press . Press again to restore.

To access Text

- Press . Each time you press , the display changes cyclically as follows:
Text and TV picture → Text → No Text (exit the Text service)
To select a page, press the number buttons or /.
To hold a page, press /.
To reveal hidden information, press /?.
To jump a page (in analog mode only), press and , then press (for three digit pages).

Tips


- Ensure that the TV is receiving a good signal, or some text errors may occur.
- When four colored items appear at the bottom of the Text page, Fastext is available (in analog mode only). Fastext allows you to access pages quickly and easily. Press the corresponding colored button to access the page.

To freeze the picture – Picture freeze


You can freeze the current picture to make a note of a telephone number or recipe.

1 Press .

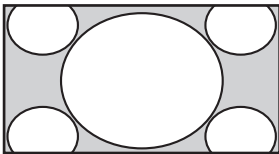
The frozen picture is displayed on the right of the screen. You can watch moving picture on the left.

2 Press  again to return to normal TV mode.

To change the screen format manually – Wide Mode

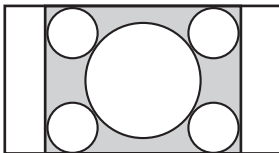
Press  repeatedly to select Wide Zoom, Normal, Full or Zoom.

Wide Zoom*



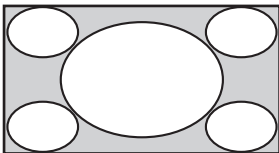
Enlarges the center portion of the picture. The left and right edges of the picture are stretched to fill the 16:9 screen.

Normal



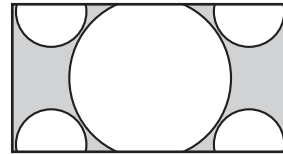
Displays the 4:3 picture in its original size. Side bars are shown to fill the 16:9 screen.

Full



Stretches the 4:3 picture horizontally, to fill the 16:9 screen.

Zoom*



Displays cinemascopic (letter box format) broadcasts in the correct proportions.

* Parts of the top and bottom of the picture may be cut off.

Tips

- This feature is not available in digital mode.
- Alternatively, you can set “Auto Wide” to “On”. The TV will automatically select the best mode to suit the input from an external equipment (page 27).
- In Zoom, you can adjust the picture position (e.g. to read subtitles) using the Vertical Shift option selected from Tools menu (see below).
- “Full 1”, “Full 2” and “Normal” are available for “Wide Mode” when PC input is selected (page 37).

To use the Tools menu

Press TOOLS to display the following options when viewing a TV program.

Options	Description
Close	Closes the Tools menu.
Twin Picture (or Single Picture)	See page 18.
Picture Mode	See page 22.
Sound Mode	See page 25.
Favorite List (in digital mode only)	See page 19.
PIP Program List (in digital mode only)	See page 18.
Power Saving	See page 29.
Vertical Shift (in analog mode only)	See page 28.
Vertical Size (in analog mode only)	See page 28.
Sleep Timer	See page 29.

To view two pictures simultaneously – Twin Picture

You can view two TV program pictures (in analog, digital or external input mode) on the screen simultaneously.

Notes


- Two pictures having the same (analog or digital) format, cannot be seen side-by-side in Twin Picture mode.
- This function is not available for a PC input source.
- To change the size of the pictures, press and hold \leftarrow/\rightarrow .

1 Press .

The audible picture is framed in green.

2 Press number buttons or PROG +/- to select the channel for an audible picture. Press \uparrow/\downarrow for an inaudible picture.

To return to normal TV mode

Press  or RETURN.

Tips

- You can switch the audible picture by pressing \leftarrow/\rightarrow .
- You can also return to normal TV mode by selecting “Single Picture” from the Tools menu, or by pressing \oplus .
- Pictures input through the HDMI and component jacks are displayed on the left screen.
- You can also use the Twin Picture feature by selecting “Twin Picture” from the Tools menu.

To view two pictures simultaneously – PIP (Picture in Picture) (in digital mode only)

This feature allows you to view a different sub-channel in a window and also access multiview services (when available from broadcaster, e.g. different camera angles).

1 Press TOOLS to display the Tools menu.

2 Press \uparrow/\downarrow to select “PIP Program List”, then press \oplus .

3 Press \uparrow/\downarrow to select the required channel/multiview service, then press \oplus .

To return to normal TV mode

Select “PIP Program List” from the Tools menu. Then, select “Close PIP”.

Note

Depending on the broadcast signal, the image displayed on the PIP sub screen may be smaller than its frame size.

i-Plate display

For a single picture in digital mode, this feature gives you information on the current channel and also the current and next programs.



1 Press \oplus to display the i-Plate.

This shows the date, time, whether the channel has text service, whether multi (MPEG and Dolby Digital) audio program available and whether the picture is available in high definition or standard definition (HD or SD is displayed).


2 Press \oplus to display information on the following program.


3 Press \oplus again (or MENU) to turn off the i-Plate display and return to normal operation.

The following icons may be displayed on the i-Plate display according to the program.

 :SD (or  :HD)

 : Parental rating

 : Multi audio program

 : Text service

Tip

The code coming after MPEG determines the language type. For detail, refer to “i-Plate Display Language Code” on page 45.

Using the Favorite List DV3*




Favorite List























The Favorite feature allows you to select programs from a list you specify. To display the Favorite List, see “Navigating through menus” (page 21).

* This function may not be available in some areas.

To	Do this
Create your Favorite List	Follow the steps of “Favorite Preset” (page 35) in Digital Setup menu.
Watch a Favorite channel	<ol style="list-style-type: none">1 Press MENU to display the menu (page 21).2 Press \uparrow/\downarrow to select “Digital Favorites List”, then press \oplus.3 Press \leftarrow/\rightarrow to select “Favorite List 1” or “Favorite List 2”.4 Press \uparrow/\downarrow to select your favorite channel.5 Press \oplus to exit the Favorite List and display the selected channel. <p>Tip Once you select a channel within your Favorite List of channels, pressing PROG +/- will select only channels from your Favorite List. To select a channel that has not been programmed as a Favorite List channel, use the Program List feature or the number buttons.</p>
Turn off the Favorite list	Press MENU.

Viewing pictures from connected equipment

Switch on the connected equipment, then press  repeatedly until the correct input symbol (see below) appears on the screen. For details of connecting the other equipment, see page 38.

On screen display	Labels of input jacks
 Video 1 or  Video 1	1  or  , and  L (MONO), R
 Video 2 or  Video 2	2  or (Y, Pb/Cb, Pr/Cr), and  L (MONO), R*
 Video 3	3  and  L (MONO), R
 HD/DVD 1	1 Y, Pb/Cb, Pr/Cr and  L, R
 HD/DVD 2	2 Y, Pb/Cb, Pr/Cr and  L, R
 HDMI 1	1 HDMI IN
 HDMI 2	2 HDMI IN 2 HDMI IN and 2 HDMI IN  L, R
 PC	PC IN  RGB and PC IN  L, R

* Located on the front of the TV

To return to normal TV mode

Press DIGITAL/ANALOG.

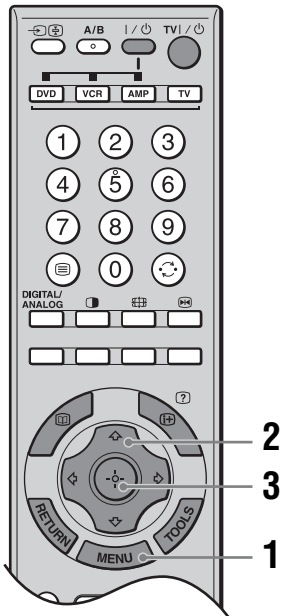
To use the Tools menu

Press TOOLS to display the following options when viewing pictures from connected equipment other than a PC.

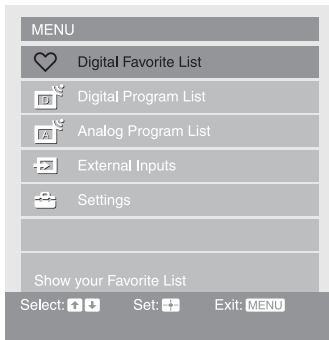
Options	Description
Close	Closes the Tools menu.
Twin Picture (or Single Picture)	See page 18.
Picture Mode	See page 22.
Sound Mode	See page 25.
Power Saving	See page 29.
Vertical Shift	See page 28.
Vertical Size	See page 28.
Sleep Timer	See page 29.

Navigating through menus

“MENU” allows you to enjoy various convenient features of this TV. You can easily select channels or inputs sources and change the settings for your TV.



1 Press MENU to display the menu.



Icon	Description
	Digital Favorite List* Displays the Favorite List. For details about settings, see page 19.
	Digital Program List* Displays available digital TV channels.

Icon	Description
	Analog Program List Displays available analog TV channels. <ul style="list-style-type: none"> To assign a label to a channel, see page 32.
	External Inputs Selects equipment connected to your TV. <ul style="list-style-type: none"> To watch the desired external input, select the input source, then press (+). To assign a label to an external input, select “Edit Video Labels”, then see page 31.
	Settings Displays the Settings menu where most of the advanced settings and adjustments are performed. For details about settings, see page 22 to 35. Note The options you can adjust vary depending on the situation. Unavailable options are grayed out or not displayed.

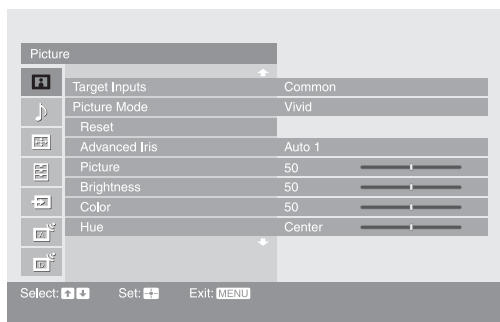
* This function may not be available in some areas.

2 Press to select an option.

3 Press to confirm a selected option.

To exit the menu, press MENU.

Picture menu



You can select the options listed below on the Picture menu.

- 1 Press \uparrow/\downarrow to select “Settings” on MENU, then press \oplus .
- 2 Press \uparrow/\downarrow to select a menu icon, then press \oplus .
- 3 Press $\uparrow/\downarrow/\leftarrow/\rightarrow$ to select an option.

Target Inputs

For the input currently being viewed, select whether to use the common setting or to set each item separately.

“Common”: Applies common settings whose adjustments are shared with other inputs in which “Target Inputs” is set to “Common”.

Current input name (e.g. Video 1): Allows you to set each option separately for the current input.

Tip

Set each input to “Common” if you require the same settings to apply to each input.

Picture Mode

Selects the picture mode.

“Vivid”: For enhanced picture contrast and sharpness.

“Standard”: For standard picture. Recommended for home entertainment.

“Custom”: Allows you to store your preferred settings.

Reset

Resets all the “Picture” settings except “Target Inputs” and “Picture Mode” to the factory settings.

Tip

“Advanced Settings” (page 24) is also not reset. Select “Reset” in “Advanced Settings” to reset items in “Advanced Settings”.

Advanced Iris

By selecting the iris option, you can obtain the best brightness and contrast suited for your TV viewing.

“Auto 1”*: Recommended option for viewing programs that have larger variation in brightness from scene to scene.

“Auto 2”*: Recommended option for viewing programs that have less variation in brightness from scene to scene.

“Max”: With this option, the screen has maximum level of brightness. It is suitable for TV viewing in a brightly lit room.

“High”: With this option, the screen becomes bright. It is suitable for TV viewing in a brightly lit room.

“Medium”: With this option, the brightness is about the standard level.

“Low”: With this option, the screen brightness dims and increases in contrast. It is suitable for TV viewing in a room with low lighting.

“Min”: With this option, the screen is dimmed but contrast is at a maximum. It is suitable for TV viewing in a room with low lighting.

* Automatically detects the brightness of the screen. These options are best suited for programs such as movies that often change between bright scenes and low light setting scenes.

Note

This function is not available in twin picture or picture freeze mode.

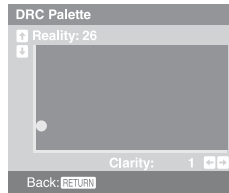
Picture	Increases or decreases picture contrast.
Brightness	Brightens or darkens the picture.
Color	Increases or decreases color intensity.
Hue	Increases or decreases the green tones and red tones. Tip “Hue” can only be adjusted for an NTSC color signal (e.g. U.S.A. video tapes).
Color Temperature	Adjusts the whiteness of the picture. “Cool”: Gives the white colors a blue tint. “Neutral”: Gives the white colors a neutral tint. “Warm 1”/“Warm 2”: Gives the white colors a red tint. “Warm 2” gives a redder tint than “Warm 1”. Tip “Warm 1” and “Warm 2” can only be selected when you set “Picture Mode” to “Custom”.
Sharpness	Sharpens or softens the picture.
Noise Reduction	Reduces the picture noise (snowy picture). “Auto”: Automatically reduces the picture noise. “High”/“Medium”/“Low”: Modifies the effect of the noise reduction. “Off”: Turns off the Noise Reduction feature. “BNR”: Reduces the block picture noise. This is effective for digital channels, or a connected DVD player/digital receiver with MPEG playback. Tips <ul style="list-style-type: none"> • “Auto” is not available when watching component, HDMI or digital RF inputs. • “Noise Reduction” is not available when using Freeze or Twin Picture features.
DRC Mode	Creates a high-resolution for high density source (i.e. DVD player, digital receiver). “Mode 1”: Recommended mode “Mode 2”: Only available when input signal format is 1080i. Mode 2 is suitable setting if original signal content is based on standard definition signal. “Off”: Turns off the DRC Mode. Tip “DRC Mode” is not available when “Game Mode” is set to “On” or when using Freeze or Twin Picture features; also not available when watching PC or 1080p sources.

Continued

DRC Palette

Customizes the level of detail (“Reality”) and smoothness (“Clarity”) for each input signal. For example, you can create a custom setting for your cable input’s picture, and create another for your DVD player’s picture.

The DRC palette appears.



Press $\uparrow/\downarrow/\leftarrow/\rightarrow$ to adjust the position of the marker (●).

As you move the ● higher along the “Reality” axis, the picture becomes more detailed. As you move the ● to the right along the “Clarity” axis, the picture becomes smoother.

Tip

“DRC Palette” is not available when “Game Mode” is set to “On”, “DRC Mode” is set to “Off” or when using Freeze or Twin Picture features; also not available when watching PC or 1080p sources.

Advanced Settings

Customizes the Picture function in more detail. When you set “Picture Mode” to “Custom”, you can set/change these settings.

“Reset”: Resets all the advanced settings to the factory settings.

“Black Corrector”: Enhances black areas of the picture for stronger contrast.

“Gamma”: Adjusts the balance between bright and dark areas of the picture.

“Clear White”: Emphasizes white colors.

“Live Color”: Makes colors more vivid.

“White Balance”: Adjusts the color temperature color by color.

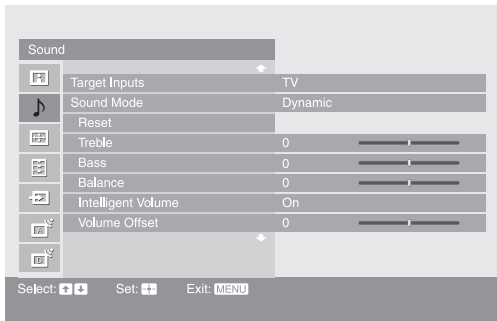
“Detail Enhancer”: Enhances the details of the picture.

“Edge Enhancer”: Enhances the outline of the picture.

Tip

“Detail Enhancer” is not available when using Freeze or Twin Picture features.

Sound menu



You can select the options listed below on the Sound menu. To select options in “Settings”, refer to “Picture menu” (page 22).

Target Inputs

For the input currently being viewed, select whether to use the common setting or to set each item separately.

“Common”: Applies common settings whose adjustments are shared with other inputs in which “Target Inputs” is set to “Common”.

Current input name (e.g. Video 1): Allows you to set each option separately for the current input.

Tip

Set each input to “Common” if you require the same settings to apply to each input.

Sound Mode

Selects the sound mode.

“Dynamic”: Enhances treble and bass.

“Standard”: For standard sound. Recommended for home entertainment.

“Custom”: Flat response. Also allows you to store your preferred settings.

Reset

Resets all the “Sound” settings except “Target Inputs”, “Sound Mode” and “Dual Sound” to the factory settings.

Treble

Adjusts higher-pitched sounds.

Bass

Adjusts lower-pitched sounds.

Balance

Emphasizes left or right speaker balance.

Intelligent Volume

Keeps a constant volume level even when volume level gaps occur (e.g. adverts tend to be louder than programs).

Volume Offset

Adjusts the volume level of the current input relative to other inputs, when “Target Inputs” is set to the current input name (e.g. Video 1).

Surround

Selects the surround mode.

“Dolby Virtual”: Uses the TV speakers to simulate the surround effect produced by a multi channel system.

“Simulated Stereo”: Adds a surround-like effect to mono programs.

“Off”: For normal stereo or mono reception.

Continued

BBE

Gives sound more impact by compensating for phase effects in speakers using the “BBE High Definition Sound System” when “Sound Mode” is set to “Custom”. To reproduce sounds with impact, select “High” (more impact) or “Low” (less impact). Otherwise select “Off”.

Dual Sound

Selects the sound from the speaker for a stereo or bilingual broadcast. The selection varies, depending on the Broadcasting.

Broadcasting	Selection
NICAM stereo	Stereo (stereo sound) Mono (regular sound)
NICAM bilingual	Main (main sound) Sub (sub sound) Mono (regular sound)
NICAM monaural	Main (main sound) Mono (regular sound)
A2 (German) stereo	Stereo (stereo sound) Mono (regular sound)
A2 (German) bilingual	Main (main sound) Sub (sub sound)

Notes

- If the signal is very weak, the sound becomes monaural automatically.
- If the stereo sound is noisy when receiving a NICAM program, select “Mono”. The sound becomes monaural, but the noise is reduced.
- The Dual Sound setting is memorized for each program position.
- You cannot receive a stereo broadcast signal when “Mono” is selected for the program position.
- You cannot receive stereo or dual sound when “Low” or “High” is selected in “Audio Filter” (page 33).

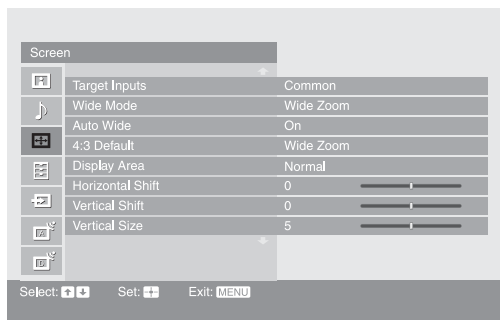
Tips

- If you select other equipment connected to the TV, set “Dual Sound” to “Stereo”, “Main” or “Sub”.
 - This option is not available in digital mode.
-

Tip

Sound menu options other than “Dual Sound” cannot be used for headphones and audio output jacks.

Screen menu



You can select the options listed below on the Screen menu. To select options in “Settings”, refer to “Picture menu” (page 22).

Target Inputs

For the input currently being viewed, select whether to use the common setting or to set each item separately.

“Common”: Applies common settings whose adjustments are shared with other inputs in which “Target Inputs” is set to “Common”.

Current input name (e.g. Video 1): Allows you to set each option separately for the current input.

Tip

Set each input to “Common” if you require the same settings to apply to each input.

Wide Mode

For details about “Wide Mode”, see “To change the screen format manually – Wide Mode” (page 17).

Tip

This option is not available in digital mode.

Auto Wide

Automatically changes “Wide Mode” according to the input signal from external equipment. To keep your setting, select “Off”.

Tip

Even if “Auto Wide” is set to “On” or “Off”, you can always modify the format of the screen by pressing \square repeatedly.

4:3 Default

Selects the default screen format for use with 4:3 sources from external input.

“Wide Zoom”: Enlarges the 4:3 picture to fill the 16:9 screen, keeping the original image as much as possible.

“Normal”: Displays conventional 4:3 sources in the correct proportions.

“Off”: Keeps the current “Wide Mode” setting when the channel or input is changed.

Tip

This option is available only if “Auto Wide” is set to “On”.

Display Area

Adjusts the screen area displaying the picture.

“Normal”: Displays the picture in the original size.

“-1”/“-2”: Enlarges the picture to hide the edge of the picture.

Horizontal Shift

Adjusts the horizontal position of the picture.

Continued

Vertical Shift

Adjusts the vertical position of the picture when “Wide Mode” is set to “Zoom”.

Tip

This option is not available in digital mode.

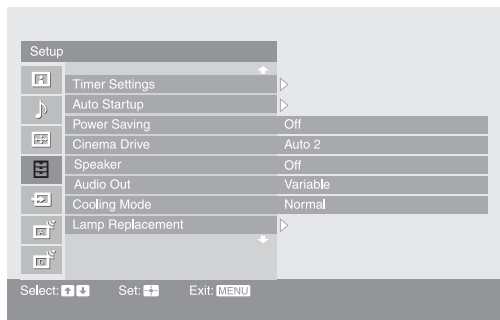
Vertical Size

Adjusts the vertical size of the picture when “Wide Mode” is set to “Wide Zoom”.

Tip

This option is not available in digital mode.

Setup menu



You can select the options listed below on the Setup menu. To select options in “Settings”, refer to “Picture menu” (page 22).

Timer Settings

Sets the timer to switch on/off the TV.

Sleep Timer

Sets a period of time after which the TV automatically switches itself into standby mode.

When the Sleep Timer is activated, the ⌚ (Timer) indicator on the TV (front) lights up in orange.

Tips

- If you switch off the TV and switch it on again, “Sleep Timer” is reset to “Off”.
- “TV will soon turn off by Sleep Timer” appears on the screen one minute before the TV switches to standby mode.

On Timer

Sets the timer to switch on the TV from standby mode.

“Day”: Selects the day on which you want to activate the On Timer.

“Time”: Sets the time to switch on the TV.

“Duration”: Selects the time period after which the TV automatically switches to standby mode again.

“Volume Setup”: Sets the volume for when the timer switches on the TV.

When the On Timer is activated, the ⌚ (Timer) indicator on the TV (front) lights up in orange.

Clock Set

Sets the clock using the following menu selections in “Time Adjustment”.

“Auto”: The clock is set automatically when a digitally broadcast time signal is received.

“Manual”: Sets the clock manually when digital channels have not been stored, or when you cannot receive the time correctly. Set the “Day” and “Time”.

Auto Startup

Starts the “first time operation menu” to tune in available digital and analog channels and set the time. Usually, you do not need to do this operation because channels already tuned when the TV was first installed (page 7). However, this option allows you to repeat the process (e.g. to retune the TV after moving house, or to search for new channels that have been launched by broadcasters).

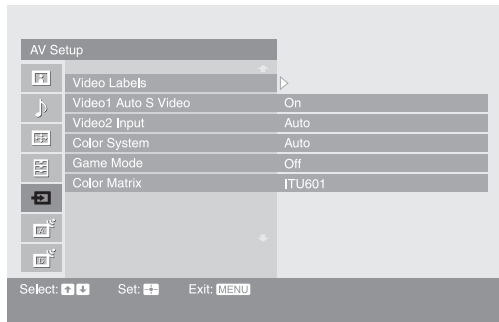
Power Saving

Selects the power saving mode to reduce the power consumption of the TV.

Continued

Cinema Drive	<p>Provides smoother picture movement when playing DVD or VCR images taken on film, reducing picture blur and graininess.</p> <p>“Auto 1”: For a stable picture with minimal noise. Set to “Auto 2” if the screen is partially degraded.</p> <p>“Auto 2”: Use this setting for standard use.</p> <p>“Off”: Turns off the “Cinema Drive” feature.</p> <p>Notes</p> <ul style="list-style-type: none"> • Even if “Auto 1” or “Auto 2” is selected, “Cinema Drive” will be automatically turned off and a moving image will not be played smoothly if the image contains irregular signals or too much noise. • “Cinema Drive” is not available when using Freeze or Twin Picture features, or when watching PC, 480p, 576p, 720p, 1080i or 1080p sources.
Speaker	<p>Switches on/off the TV’s internal speakers.</p> <p>“On”: The TV speakers are turned on in order to listen to the TV’s sound through the TV speakers.</p> <p>“Off”: The TV speakers are turned off in order to listen to the TV’s sound only through your external audio equipment connected to the audio output jacks.</p>
Audio Out	<p>“Variable”: The audio output from your audio system can be controlled by the TV’s remote.</p> <p>“Fixed”: The audio output of the TV is fixed. Use your audio receiver’s volume control to adjust the volume (and other audio settings) through your audio system.</p>
Cooling Mode	<p>Select “High” to use the TV at an altitude of 1,500 m or higher, or to use the TV in certain circumstances where there is a considerable rise in temperature inside the TV. Select “Normal” to use the TV at normal altitudes.</p>
Lamp Replacement	<p>When the lamp nears the end of its life, a message appears every time you switch on the TV. After you replace the lamp, select this option and follow the on-screen procedure.</p> <p>Notes</p> <ul style="list-style-type: none"> • Select this option after you replace the lamp. • Depending on environmental and other conditions, such as frequency of use, some lamps may burn out before the lamp replacement message appears on the screen. • Until you set the Lamp Replacement option, a message announcing that the lamp is at the end of its life will appear every time you switch on the TV.
Display Position	<p>Adjust the horizontal/vertical position of the picture including menu displays and messages, etc. on the TV screen.</p>
Product Information	<p>Displays your TV’s product information.</p>
All Reset	<p>Resets all settings to the factory settings and then displays the Auto Startup screen.</p> <p>Note</p> <p>All settings, including Digital Favorite list, auto tuned channels, etc. will be reset. There may be cases in which resetting takes a long time.</p>

AV Setup menu



You can select the options listed below on the AV Setup menu. To select options in “Settings”, refer to “Picture menu” (page 22).

Video Labels

Assigns a name to any equipment connected to the front and rear jacks. The name will be displayed briefly on the screen when the equipment is selected. You can skip input signals from connected equipment that you do not want displayed on the screen.

- 1 Press \uparrow/\downarrow to select the desired input source, then press \oplus .
- 2 Press \uparrow/\downarrow to select the desired option below, then press \oplus .

Equipment labels: Uses one of the preset labels to assign a name to connected equipment.

“Edit”: Creates your own label. Follow steps 2 to 4 of “Program Labels” (page 32).

“Skip”: Skips an unnecessary input source.

Video1 Auto S Video

Selects the input signal from S video jack S- \rightarrow 1 when S- \rightarrow 1/ \rightarrow 1 jacks are both connected.

“On”: Switches automatically between the S video jack and the composite video jacks on the rear of the TV depending on the cable connection.

“Off”: Activates the composite video jacks on the rear of the TV.

Video2 Input

“Auto”: Switches automatically between the component video jacks and the composite video jacks on the front of the TV depending on the cable connection.

“Component”: Activates the component video jacks on the front of the TV.

“Composite”: Activates the composite video jacks on the front of the TV.

Tip

When multiple cables are connected and “Auto” is selected, “Component”, “Composite” will be activated in that order.

Color System

Selects the color system (“Auto”, “PAL”, “SECAM”, “NTSC3.58” or “NTSC4.43”) according to the input signal from the input source.

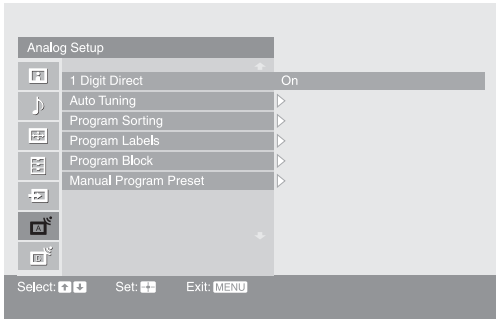
Game Mode

Depending on the game software, reaction times may slow during fast-moving scenes, etc. Select “On” to improve the reaction times.

Color Matrix

Usually used in the factory setting (Video1/2 (Composite and S video input signal)/ 3 is set to “ITU601”, and Video 2 (Component input signal)/HD/DVD 1/2/HDMI 1/ 2 is set to “Auto”). If the tone of the picture from the input source is unnatural, select either “ITU601” or “ITU709”, which normalizes the tone.

Analog Setup menu



You can select the options listed below on the Analog Setup menu. To select options in “Settings”, refer to “Picture menu” (page 22).

1 Digit Direct

When “1 Digit Direct” is set to “On”, you can select a channel using one preset number button (0 - 9) on the remote.

Note

When “1 Digit Direct” is set to “On”, you cannot select channel numbers 10 and above entering two digits using the remote.

Auto Tuning

Tunes in all the available analog channels.

Usually you do not need to do this operation because the channels are already tuned when the TV was first installed (page 7). However, this option allows you to repeat the process (e.g. to retune the TV after moving house, or to search for new channels that have been launched by broadcasters).

Program Sorting

Changes the order in which the channels are stored on the TV.

- 1 Press \uparrow/\downarrow to select the channel you want to move to a new position, then press \oplus .
- 2 Press \uparrow/\downarrow to select the new position for your channel, then press \oplus .

Program Labels

Assigns a channel name of your choice up to five letters or numbers. The name will be displayed briefly on the screen when the channel is selected.

- 1 Press \uparrow/\downarrow to select the channel you want to name, then press \oplus .
- 2 Press \uparrow/\downarrow to select the desired letter or number (“_” for a blank space), then press \rightarrow .

If you input a wrong character

Press \leftarrow/\rightarrow to select the wrong character. Then, press \uparrow/\downarrow to select the correct character.

To delete all the characters

Select “Reset”, then press \oplus .

- 3 Repeat the procedure in step 2 until the name is complete.
- 4 Select “OK”, then press \oplus .

Program Block

Blocks an individual channel from being watched.

- 1 Press \uparrow/\downarrow to select the channel you want to block, then press \oplus .
- 2 Press \uparrow/\downarrow to select “Block”, then press \oplus .
To watch the channel, select “Allow”.

Manual Program Preset

Before selecting “Label”/“AFT”/“Audio Filter”/“Skip”/“Color System”, press PROG +/- to select the program number with the channel. You cannot select a program number that is set to skip.

Program/TV System

Presets program channels manually.

- 1 Press \uparrow/\downarrow to select “Program”, then press \oplus .
- 2 Press \uparrow/\downarrow to select the program number you want to manually tune (if tuning a VCR, select channel 00), then press \oplus .
- 3 Press \uparrow/\downarrow to select “TV System”, then press \oplus .
- 4 Press \uparrow/\downarrow to select the best received TV broadcast systems, then press \oplus .
- 5 Press \uparrow/\downarrow to select “VHF Low”, “VHF High” or “UHF”, then press \oplus .
- 6 Press \leftarrow/\rightarrow until the desired channel’s broadcast appears on the TV screen, then press \oplus .

Label

Assigns a name of your choice, up to five letters or numbers, to the selected channel. This name will be displayed briefly on the screen when the channel is selected. To input characters, follow steps 2 to 4 of “Program Labels” (page 32).

AFT

Allows you to fine-tune the selected program number manually if you feel that a slight tuning adjustment will improve the picture quality. You can adjust the fine tuning over a range of -15 to +15. When “On” is selected, the fine tuning is performed automatically.

Audio Filter

Improves the sound for individual channels in the case of distortion in mono broadcasts. Sometimes a non-standard broadcast signal can cause sound distortion or intermittent sound muting when watching mono programs.

If you do not experience any sound distortion, we recommend that you leave this option set to the factory setting “Off”.

Note

You cannot receive stereo or dual sound when “Low” or “High” is selected. Normally noise can be reduced with “Low”. If you still feel the sound is noisy, set the filter to “High”.

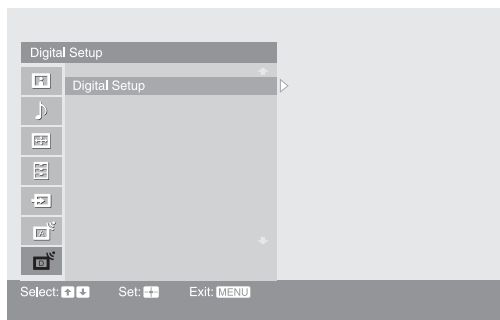
Skip

Skips unused channels when you press PROG +/- to select channels. (You can still select a skipped channel using the number buttons.)

Color System

Selects the color system (“Auto”, “PAL”, “SECAM”, “NTSC3.58”, or “NTSC4.43”) according to the channel.

Digital Setup menu DV3



You can select the options listed below on the Digital Setup menu. To select options in “Settings”, refer to “Picture menu” (page 22).

Note

Some functions may not be available in some areas.

Digital Settings

Displays the “Digital Settings” menu.

Audio Setup

This option enables you to enjoy audio in various environments.

“Audio Output Control”: Sets the priority for digital audio output (optical) (when “Dolby Digital” and “MPEG” audio are available).

“MPEG Audio Adjustment”: Adjusts MPEG audio Control level to Dolby Digital audio level.

Time Setup

Sets the time zone in which you are using the TV. For details, refer to “4: Auto-tuning the TV” on page 7.

Digital Tuning

Displays the “Digital Tuning” menu.

Full Scan

Tunes in all the available digital channels.

Usually you do not need to do this operation because the channels were already tuned when the TV was first installed (page 7). However, this option allows you to repeat the process (e.g. to retune the TV after moving house, or to search for new channels that have been launched by broadcasters). For details, refer to “4: Auto-tuning the TV” on page 7.

Quick Scan

Tunes in all the expected digital channels in your area.

Usually you do not need to do this operation because the channels were already tuned when the TV was first installed (page 7). However, this option allows you to repeat the process (e.g. to retune the TV after moving house, or to search for new channels that have been launched by broadcasters). For details, refer to “4: Auto-tuning the TV” on page 7.

Manual Scan

This option allows channels to be manually tuned and stored. Due to the technical nature of the settings, it is recommended that only experienced service personnel use this option.

Favorite Preset

Presets Favorite List 1 and Favorite List 2.

- 1 Press \uparrow/\downarrow to select “Favorite List 1” or “Favorite List 2”, then press \oplus .
- 2 Press \uparrow/\downarrow to select the desired allocation number, then press \oplus .
- 3 Press \uparrow/\downarrow to select the channel you want to allocate, then press \oplus .

To overwrite a new channel selection (over one that has been pre-allocated), follow step 3 to select the newly desired channel, then press \oplus .

To delete a pre-allocated channel, follow step 2 (to select the desired channel), then select “Delete” in step 3.

Parental Control

Sets a parental guidance level. Programs that exceed the set level can only be watched after entering the correct password. The password is initially set to “0000”. If you want to change the password, follow “To change the password” (see below).

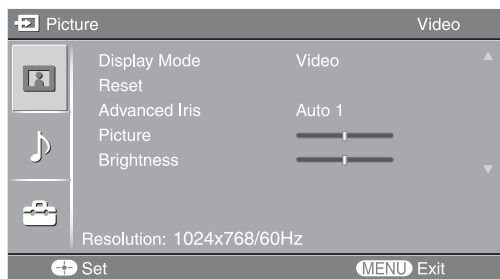
- 1 Press the number buttons to enter your password.
- 2 Press \uparrow/\downarrow to select “Parental Rating”, then press \oplus .
- 3 Press \uparrow/\downarrow to select the level you want to set (refer to the table below), then press \oplus .

Level	Function
Block All	All programs need a password to view.
Block G and above	To lock “General” and above programs.
Block PG and above	To lock “Parental Guidance” and above programs.
Block M and above	To lock “Mature” and above programs.
Block MA and above	To lock “Mature Adult” and above programs.
Block AV and above	To lock “Adult/Violence” and above programs.
Block R and above	To lock “Restricted” and above programs.
No Block (default setting)	No programs need a password to view.

To change the password

Select “Change Password” in step 2 above, then press \oplus . Enter the new password using the number buttons. Enter the new password again.

PC Settings menu



You can select the options listed below on the PC Settings menu when the TV is connected to a PC.

- 1 Press repeatedly until PC appears on the screen.
- 2 Press MENU to display the PC settings menu.

Note

When you connect a PC to your TV for the first time, you may need to adjust the screen display. In such cases, perform “Auto Adjustment” or adjust the “Phase”, “Pitch”, “Horizontal Shift”, or “Vertical Shift” in “Others” (page 37).

Picture

Display Mode

Selects the display mode.
 “Video”: Select to view video images.
 “Text”: Select to view text, charts or tables.

Reset

Resets all the “Picture” settings except “Display Mode” to the factory settings.

Advanced Iris

By selecting the iris option, you can obtain the best brightness and contrast suited for your TV viewing.

“Auto 1”*: Recommended option for viewing programs that have larger variation in brightness from scene to scene.

“Auto 2”*: Recommended option for viewing programs that have less variation in brightness from scene to scene.

“Max”: With this option, the screen has maximum level of brightness. It is suitable for TV viewing in a brightly lit room.

“High”: With this option, the screen becomes bright. It is suitable for TV viewing in a brightly lit room.

“Medium”: With this option, the brightness is about the standard level.

“Low”: With this option, the screen brightness dims and increases in contrast. It is suitable for TV viewing in a room with low lighting.

“Min”: With this option, the screen is dimmed but contrast is at a maximum. It is suitable for TV viewing in a room with low lighting.

* Automatically detects the brightness of the screen. These options are best suited for programs such as movies that often change between bright scenes and low light setting scenes.

Note

You cannot select “Auto 1” or “Auto 2” when “Display Mode” is set to “Text”.

Picture

Increases or decreases picture contrast.

Brightness

Brightens or darkens the picture.

Color Temperature

Adjusts the whiteness of the picture.

“Cool”: Gives the white colors a blue tint.

“Neutral”: Gives the white colors a neutral tint.

“Warm 1”/“Warm 2”: Gives the white colors a red tint. “Warm 2” gives a redder tint than “Warm 1”.

Sound**Sound Mode**

Selects the sound mode.

“Dynamic”: Enhances treble and bass.

“Standard”: For standard sound. Recommended for home entertainment.

“Custom”: Provides a flat response. Sound quality as customised on the connected PC is maintained in the TV sound.

Others**Auto Adjustment**

Automatically adjusts the display position, phase and pitch of the picture when the TV receives an input signal from a connected PC.

Tip

Auto Adjustment may not work well with some input signals. In such cases, manually adjust “Phase”, “Pitch”, “Horizontal Shift” and “Vertical Shift”.

Reset

Resets all the “Others” settings to the factory settings.

Phase

Adjusts the phase when the screen flickers.

Pitch

Adjusts the pitch when the picture has unwanted vertical stripes.

Horizontal Shift

Adjusts the horizontal position of the picture.

Vertical Shift

Adjusts the vertical position of the picture.

Wide Mode

Selects the screen format for signals with a 60 Hz vertical frequency.

“Normal”: Displays the picture in its original size.

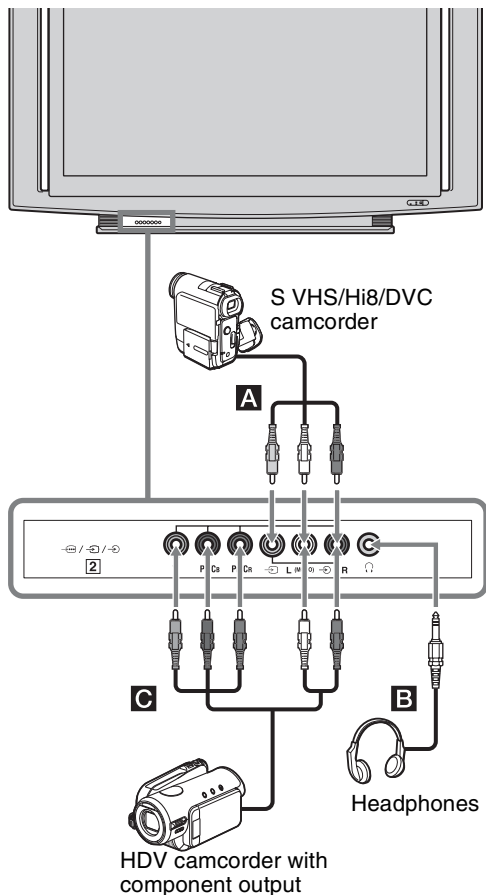
“Full 1”: Enlarges the picture to fill the display area, keeping its original horizontal-to-vertical aspect ratio.

“Full 2 ”: Enlarges the picture to fill the display area.

Connecting optional equipment

You can connect a wide range of optional equipment to your TV. Connecting cables are not supplied.

Connecting to the TV (front)

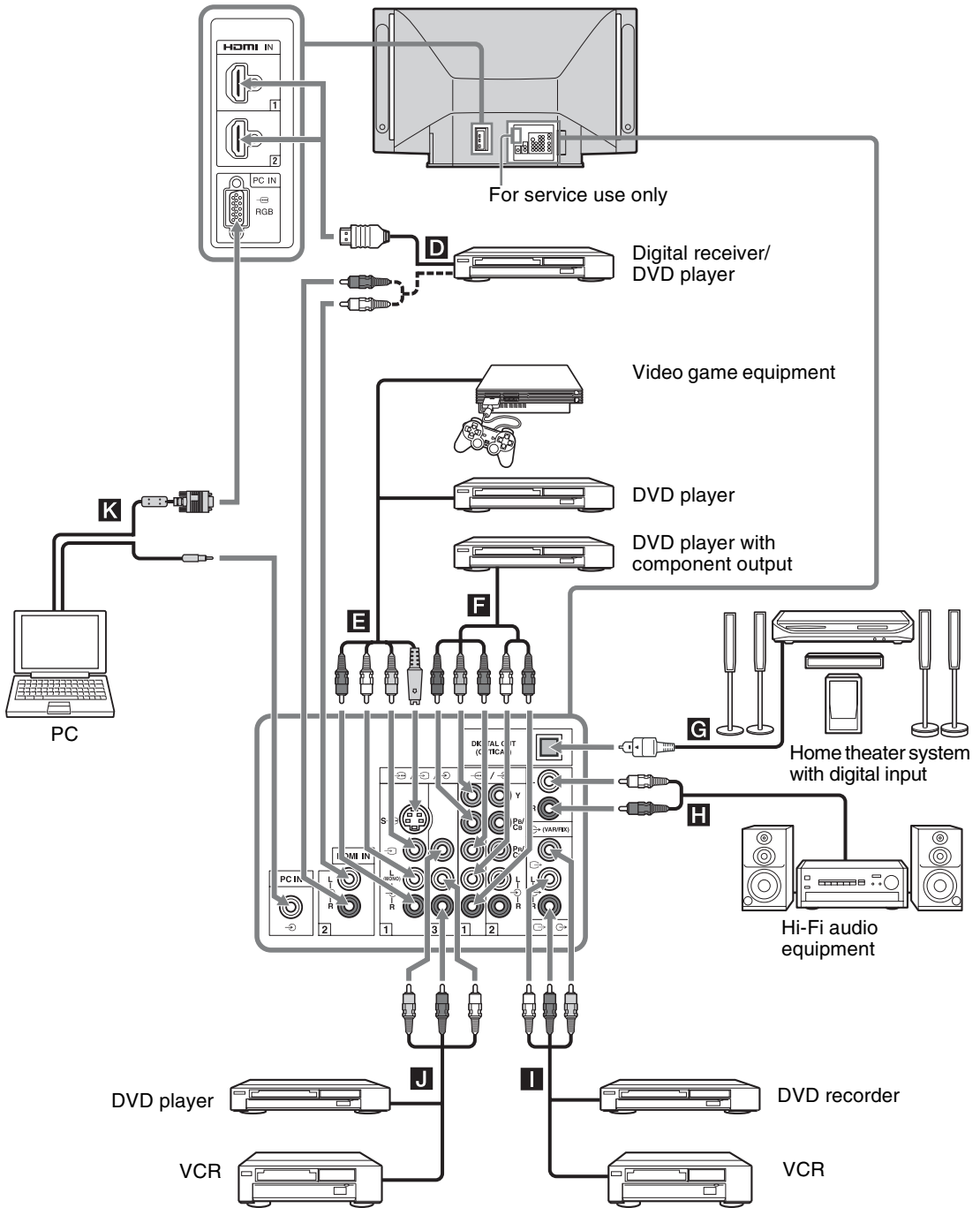


To connect	Do this
S VHS/Hi8/DVC camcorder A	Connect to the composite video jack → 2, and the audio jacks → 2. If you connect mono equipment, connect to the L jack → 2.
Headphones B	Connect to the Ⓜ jack to listen to sound from the TV on headphones.
HDV camcorder with component output C	Connect to the component video Y, Pb/Cb, Pr/Cr jacks → 2 and audio L (MONO), R jacks → 2.

Tip










You can select the front jack input signals by setting “Video2 Input” in the “AV Setup” menu (page 31).



Connecting to the TV (rear)



Using Optional Equipment

Continued

To connect	Do this
Digital receiver or DVD player D	<p>Connect to the HDMI IN 1 or 2 jack if the equipment has an HDMI jack. The digital video and audio signals are input from the equipment. If the equipment has a DVI jack, connect the DVI jack to the HDMI IN 2 jack through a DVI - HDMI adaptor interface (not supplied), and connect the equipment's audio out jacks to the audio in the HDMI IN 2 jacks.</p> <p>Notes</p> <ul style="list-style-type: none"> The HDMI jacks only support the following video inputs: 480i, 480p, 576i, 576p, 720p, 1080i and 1080p. To connect a PC, use the PC IN jacks. Be sure to use only an HDMI cable that bears the HDMI logo.
Video game equipment, DVD player or VCR E U	<p>Connect to the S video jack  1 or the video jack  1 or 3, and the audio jacks  1 or 3. To avoid picture noise, do not connect the camcorder to the video jack  1 and the S video jack  1 at the same time. If you connect mono equipment, connect to the L (MONO) jack  1 or 3.</p>
DVD player with component output F	<p>Connect to the component jacks and the audio jacks  /  1 or 2.</p>
Home theater system with digital input G	<p>Connect to the DIGITAL OUT (OPTICAL) jack using the Optical audio cable.</p> <p>Note The DIGITAL OUT (OPTICAL) jack only supports digital terrestrial signals.</p>
Hi-Fi audio equipment H	<p>Connect to the audio output jacks  to listen to the sound from the TV on Hi-Fi audio equipment. To turn off the sound of the TV speakers, set "Speaker" to "Off" (page 30).</p>

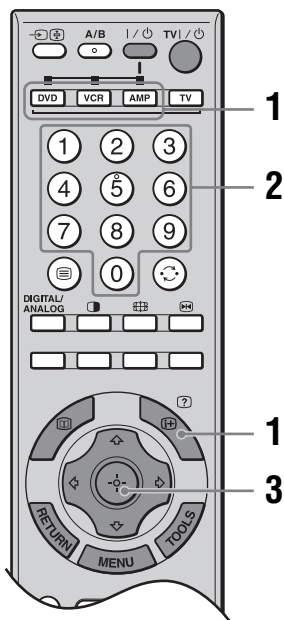
To connect	Do this
DVD recorder or VCR I	<p>Connect to the video output jack  to record the image from the TV. Connect to the audio output jacks  to record the sound from the TV on the DVD recorder or VCR.</p> <p>Note The images of digital broadcasting recorded on this TV appear enlarged when they are played on a 4:3 screen size TV that cannot be adjusted to other aspect modes.</p>
PC K	<p>Connect to the PC IN jacks. It is recommended to use a PC cable with ferrites.</p>

Programming the remote

If you have Sony VCRs/DVDs and Sony DVD Home Theater Systems/Amplifiers, do the following procedure to program the remote so that you can operate them using this remote.

Note

Before you start, look up the three-digit code for your equipment from the "Equipment's codes" on page 41.



- 1 Press and hold the DVD, VCR or AMP function button you want to program on the remote, then press **[+]**, keeping the function button pressed down.

The selected function button (DVD, VCR or AMP) will flash.

- 2 Press the number buttons to enter the three-digit code while the button is lit. If code is not entered within 10 seconds, you must perform the step 1 again.

- 3 Press **[+]**.

When the programming is correct, the selected function button will flash twice, and when not, it will flash five times.

- 4 Switch on your equipment and check that the following main functions work.

[>] (playback), **[■]** (stop), **[◀◀]** (rewind), **[▶▶]** (fast forward), channel selection for both VCR and DVDs, TOP MENU/MENU and **[↕]**/**[↔]**/**[↔]**/**[↔]** only for DVDs.

If your equipment is not working, or some of the functions do not work

Enter the correct code or try the next code listed.

To return to normal TV operation


Press the TV function button.

Equipment's codes

Equipment	Code
VCR	001*, 002, 003, 004
DVD	101*, 151, 201, 202, 203
Amplifier	301, 302, 303, 304, 401*, 402, 403, 451

* Factory setting

Replacing the lamp

The Projection lamp, like all lamps, will eventually lose brightness and functionality which affects the overall performance of your TV. How long the Lamp maintains its brightness will vary depending upon your usage and environmental conditions. To maintain the quality of your viewing experience, Sony recommends that you replace the Lamp (1) when the screen becomes dark or the color looks unusual; (2) when  on the front of the TV flashes; (3) after approximately 8,000 hours of use; or (4) when the lamp replacement message appears on the TV screen.

WARNING

Electric appliances can cause fire or high temperature, resulting in injury or death. Be sure to follow the instructions below.

- Use a Sony XL-5100 replacement lamp (not supplied) for replacement. Use of any other lamp may damage the TV.
- Do not remove the lamp for any purpose other than replacement. Doing so may cause injury or fire.
- Do not put flammable materials and metal objects inside the lamp receptacle of the TV after removing the lamp. Doing so may cause fire or electrical shock. Do not touch the lamp receptacle once the lamp has been removed.
- When the lamp eventually burns out, you may hear a noticeable “pop” sound. This is normal and it is inherent to this type of lamp.
- In rare instances, the bulb may pop inside the lamp unit, but the lamp unit is designed to contain all of the broken glass pieces inside the lamp unit.
- This TV's lamp contains mercury and should be disposed of properly. Consult your local authorities regarding safe disposal. The material contained in this lamp are similar to those of a fluorescent lamp, so you should dispose of it in the same way.

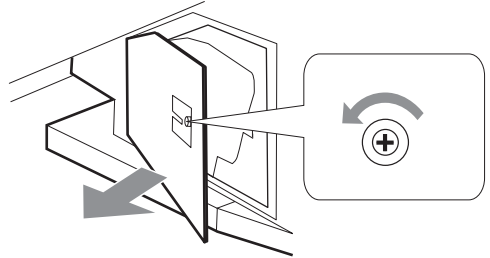
- 1** Switch off the TV. Wait several minutes, then unplug the power cord.
(The cooling fan will continue to operate for about two minutes after switching the TV off.)
- 2** Wait at least 30 minutes after unplugging the power cord to allow the lamp to cool down before replacing it. To avoid being burned, do not touch the lamp receptacle once the lamp has been removed.
- 3** Take the new lamp out of its package. Do not touch the glass portion of the new lamp.

Notes

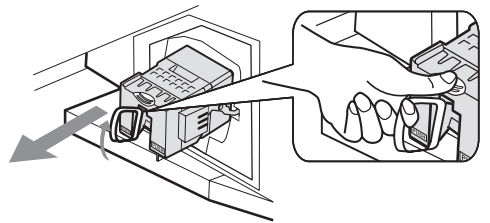
- Do not shake the lamp. Vibration can damage the lamp or shorten its life.

- Avoid touching the front glass of a new lamp or the glass of the lamp receptacle. This may reduce picture quality or lamp life.

- 4** Turn the screw with a screwdriver counterclockwise and remove the outside lamp cover.



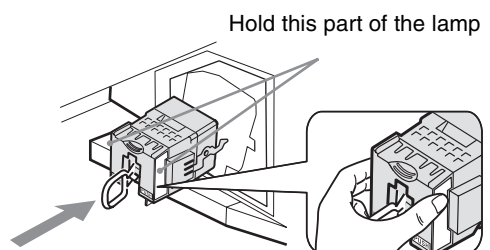
- 5** Pull out the lamp.
Place your index finger through the hoop of the lamp handle and pull it upwards, while placing your thumb on the dent on the top. Then pull the lamp out.



Notes

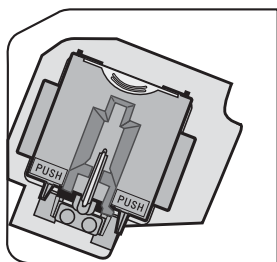
- The lamp is very hot after use. Never touch the glass portion of the lamp or the non-designated surrounding parts (shown in gray).
- After the used lamp has cooled, place it into the empty box of the replacement lamp. Never put the used lamp into a plastic bag.

- 6** Place the lamp halfway in. Follow the gutter in the housing to mount the new lamp securely.



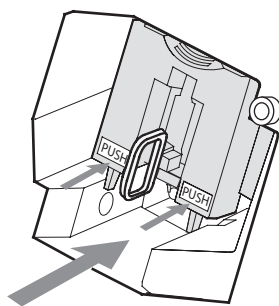
Note


The lamp housing is tilted.

**Notes**

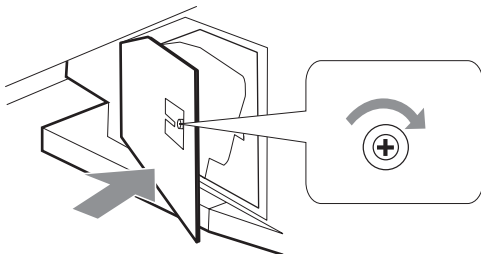
- Consult your Sony dealer for a Sony XL-5100 replacement lamp.
- Take great care when replacing the lamp or plugging in/unplugging the connecting cords. Rough handling may cause the TV to fall, damaging the TV, the TV stand and the floor.

- 7** Slide it in slowly by pressing the PUSH part of the front corners of the lamp until it stops with a firm clicking sound to lock.

**Notes**

- To ensure the lamp is securely installed, press the area marked PUSH before closing the lamp cover.
- If the lamp is not securely reattached, the self-diagnostic function may be triggered and  flashes in red three times (page 14).

- 8** Place the outside lamp cover back in its place. Turn the screw with a screwdriver clockwise and secure the cover.



- 9** Turn on the TV and set the Lamp Replacement option in the Setup menu (page 30).

Specifications

Display Unit

Power Requirements:

220–240 V AC, 50 Hz

Projection System:

3 SXRD Panel, 1 lens projection system

SXRD Panel:

Size 0.61 inch SXRD panel

Resolution 1920 × 1080 pixels

Projection Lenses:

High performance, large-diameter hybrid lens F2.5

Lamp:

Ultra high pressure lamp, 120 W, XL-5100

Screen Size:

60 inches

Power Consumption:

230 W

Standby Power Consumption:

0.5 W

Dimensions (w × h × d):

Approx. 1,674 × 1,009 × 514 mm

Weight:

Approx. 52 kg

TV System

Analog: B/G, I, D/K, M

Digital: DVB-T

Color/Video System

Analog: PAL, SECAM, NTSC 3.58, PAL60/NTSC 4.43
(only Video In)

Digital: MP@HL and MP@ML

Antenna

75 ohm external terminal

Channel Coverage

Analog: B/G

VHF: E2 to E12 / UHF: E21 to E69 /

CATV: S01 to S03, S1 to S41

VHF: 0 to 12, 5A, 9A / UHF: 28 to 69 /

CATV: S01 to S03, S1 to S41(Australia only)

VHF: 1 to 11 / UHF: 21 to 69 /

CATV: S01 to S03, S1 to S44 (New Zealand only)

I

UHF: B21 to B69 / CATV: S01 to S03, S1 to S41

D/K

VHF: C1 to C12, R1 to R12 /

UHF: C13 to C57, R21 to R60 /

CATV: S01 to S03, S1 to S41, Z1 to Z39

M

VHF: A2 to A13 / UHF: A14 to A79 /

CATV: A-8 to A-2, A to W+4, W+6 to W+84

Digital: VHF/UHF

Terminals

 1, 2

Supported formats: 1080i, 720p, 576p, 576i, 480p, 480i


Y: 1 V_{p-p}, 75 ohms, 0.3V negative sync

P_B/C_B: 0.7 V_{p-p}, 75 ohms


P_R/C_R: 0.7 V_{p-p}, 75 ohms

 1

S video input (4-pin mini DIN)

 1, 2, 3

Video input (phono jack)

 1, 2, 3

Audio input (phono jacks)

500 mVrms

Impedance: 47 kilohms

HDMI IN 1, 2

Video: 1080p, 1080i, 720p, 576p, 576i, 480p, 480i


Audio: Two channel linear PCM

32, 44.1 and 48 kHz, 16, 20 and 24 bits


Analog audio (phono jacks):

500 mVrms, Impedance 47 kilohms

(HDMI IN 2 only)

 Video output (phono jack)

DIGITAL OUT (OPTICAL)

 Audio output (phono jacks)

PC IN  RGB

PC Input (D-sub 15-pin) (see page 45)

G: 0.7 V_{p-p}, 75 ohms, non Sync on Green

B: 0.7 V_{p-p}, 75 ohms


R: 0.7 V_{p-p}, 75 ohms

HD: 1-5 V_{p-p}

VD: 1-5 V_{p-p}

PC IN 

PC audio input (mini jack)

 Headphones jack

Sound Output

15 W + 15 W

Supplied Accessories

Refer to “1: Checking the accessories” on page 4.

Optional Accessories

- TV stand SU-GW12
- Lamp XL-5100

Design and specifications are subject to change without notice.

PC Input Signal Reference Chart

Signals	Horizontal (Pixel)	Vertical (Line)	Horizontal frequency (kHz)	Vertical frequency (Hz)	Standard
VGA	640	480	31.5	60	VGA
	640	480	37.5	75	VESA
	720	400	31.5	79	VGA-T
SVGA	800	600	37.9	60	VESA Guidelines
	800	600	46.9	75	VESA
XGA	1024	768	48.4	60	VESA Guidelines
	1024	768	56.5	70	VESA
	1024	768	60	75	VESA
	1280	720	44.7	60	VESA CVT
WXGA	1280	768	47.4	60	VESA
	1280	768	47.8	60	VESA
	1280	768	60.3	75	VESA
	1360	768	47.7	60	VESA
SXGA	1280	1024	64	60	VESA
	1280	1024	80	75	VESA
HDTV	1920	1080	67.5	60	EIA

- This TV's PC input does not support Sync on Green or Composite Sync.
- The PC input signal displays on-screen in a smaller size than the actual TV screen size and does not support interlaced signals.
- For the best picture quality, it is recommended to use the boldfaced signals in the above chart with a 60 Hz vertical frequency from a personal computer. In plug and play, signals with a 60 Hz vertical frequency will be selected automatically.

i-Plate Display Language Code



Code	Language	Code	Language	Code	Language	Code	Language
Af	Afrikaans	El	Greek	Ita	Italian	Spa	Spanish
Afr	Afrikaans	Ell	Greek	Jpn	Japanese	Tam	Tamil
Ar	Arabic	En	English	Kan	Kannada	Tel	Telugu
Ara	Arabic	Eng	English	Kor	Korean	Zho	Chinese
Aus	Australian	Fr	French	Mal	Malayalam	U1	Unknown 1
Ben	Bengali	Fra	French	Nl	Dutch	U2	Unknown 2
Bn	Bengali	Fre	French	Nld	Dutch		
Chi	Chinese	Gem	German	Pan	Panjabi		
De	German	Ger	German	Por	Portuguese		
Deu	German	Gre	Greek	Raj	Rajasthani		
Dut	Dutch	Hi	Hindi	Rus	Russian		
Egy	Egyptian	Hin	Hindi	San	Sanskrit		

Troubleshooting

Check whether the  (on/standby) indicator is flashing in red.

When it is flashing









The self-diagnosis function is activated. (When the indicator flashes two or three times, see page 48.)

- 1 Count how many  (on/standby) indicator flashes between each two second break.
For example, the indicator flashes three times, then there is a two second break, followed by another three flashes, etc.
- 2 Press  on the TV (front) to switch it off, disconnect the AC power cord, and inform your dealer or Sony service center of how the indicator flashes (number of flashes).

When it is not flashing

- 1 Check the items in the tables below.
- 2 If the problem still persists, have your TV serviced by qualified service personnel.

Picture

Problem	Cause/Remedy
No picture (screen is dark) and no sound	<ul style="list-style-type: none"> • Check the antenna connection. • Connect the TV to the AC power outlet, and press  on the TV (front). • If the  (on/standby) indicator lights up in red, press TV .
No picture or no menu information from equipment connected to the video input jack	<ul style="list-style-type: none"> • Check that the optional equipment is on and press / repeatedly until the correct input symbol is displayed on the screen. • Check the connection between the optional equipment and the TV.
Double images or ghosting	<ul style="list-style-type: none"> • Check antenna/cable connections. • Check the antenna location and direction.
Only snow and noise appear on the screen	<ul style="list-style-type: none"> • Check if the antenna is broken or bent. • Check if the antenna has reached the end of its serviceable life (three to five years in normal use, one to two years at the seaside).
Distorted picture (dotted lines or stripes)	<ul style="list-style-type: none"> • Keep the TV away from electrical noise sources such as cars, motorcycles, hair-dryers or optical equipment. • When installing optional equipment, leave some space between the optional equipment and the TV. • Make sure that the antenna is connected using the antenna cable. • Keep the antenna cable away from other connecting cables.
Picture noise when viewing a TV channel	<ul style="list-style-type: none"> • Select “Manual Program Preset” in the “Analog Setup” menu and adjust “AFT” (Automatic Fine Tuning) to obtain better picture reception (page 33).
Some tiny black points and/or bright points appear on the screen	<ul style="list-style-type: none"> • The picture of a display unit is composed of pixels. Tiny black points and/or bright points (pixels) on the screen do not indicate a malfunction.
No color on programs	<ul style="list-style-type: none"> • Select “Reset” in the “Picture” menu to return to the factory settings (page 22).
No color or irregular color when viewing a signal from the Y, Pb/Cb, Pr/Cr jacks  1 or 2	<ul style="list-style-type: none"> • Check the connection of the Y, Pb/Cb, Pr/Cr jacks  1 or 2. • Make sure that the Y, Pb/Cb, Pr/Cr jacks  1 or 2 are firmly seated in their respective jacks.

Problem	Cause/Remedy
Picture flashes initially when changing to HDMI mode or when switching on the TV in HDMI mode	<ul style="list-style-type: none"> This is probably caused by the authentication process between HDMI equipment and the TV. It does not indicate a malfunction.
A white oval image appears on the screen	<ul style="list-style-type: none"> This is due to strong light reflecting off both the TV screen and reflections coming from behind the screens. Position your TV away from strong ambient light or sunlight, or lower any ambient lights.

Sound

Problem	Cause/Remedy
No sound, but good picture	<ul style="list-style-type: none"> Press \triangle +/- or M (Mute). Check that "Speaker" is set to "On" in the "Setup" menu (page 30).
Noisy sound	<ul style="list-style-type: none"> See "Picture noise" causes/remedies on page 46.




Channels

Problem	Cause/Remedy
The desired channel cannot be selected	<ul style="list-style-type: none"> Switch between digital and analog mode and select the desired digital/analog channel.
Some channels are blank	<ul style="list-style-type: none"> Scrambled/Subscription only channel. Subscribe to the Pay Per View service. Channel is used only for data (no picture or sound). Contact the broadcaster for transmission details. Check that the "Program Block" is set to "Allow" in the "Analog Setup" menu (page 32).
Digital channels are not displayed	<ul style="list-style-type: none"> Contact a local installer to find out if digital transmissions are provided in your area. Upgrade to a higher gain antenna.
Some channels cannot be selected	<ul style="list-style-type: none"> Once you select a channel within your Favorite List of channels, pressing PROG +/- will select only channels from your Favorite List. To select a channel that has not been programmed as a Favorite List channel, use the Program List feature or the number buttons.

General

Problem	Cause/Remedy
The TV turns off automatically (the TV enters standby mode)	<ul style="list-style-type: none"> Check if the "Sleep Timer" is activated, or confirm the "Duration" setting of "On Timer" (page 29). If the inside of the TV grows warm while Cooling Mode is set to "High", the TV automatically switches to standby mode. (When Cooling Mode is set to "Normal" under the same conditions, the mode switches to "High", the cooling fan starts, and a loud whirring noise may be heard.)

Continued

Problem	Cause/Remedy
The TV turns on automatically	<ul style="list-style-type: none"> • Check if the “On Timer” is activated (page 29).
Some input sources cannot be selected	<ul style="list-style-type: none"> • Select “Video Labels” in the “AV Setup” menu and cancel “Skip” of the input source (page 31).
Uneven color uniformity appears on the screen when the TV is powered on	<ul style="list-style-type: none"> • After turning on the TV, you may notice a slight color (tint) variation in certain areas of the picture. This will last only a few minutes each time you turn on the TV. This is a normal temperature characteristic of the components and not a malfunction.
The remote does not function	<ul style="list-style-type: none"> • Check that the remote is set correctly for the equipment you are using. • Check whether the equipment you want to use corresponds to the function button being pressed (page 13). • If the remote does not operate the equipment even when the remote has been set correctly to the equipment, enter the necessary code as explained in “Programming the remote” (page 41). • Replace the batteries.
The recorded images appear enlarged when they are played on a 4:3 screen size TV	<ul style="list-style-type: none"> • The images of digital broadcasting recorded on this TV appear enlarged when they are played on a 4:3 screen size TV that cannot be adjusted to other aspect modes.
 indicator flashes in red	<ul style="list-style-type: none"> • After waiting several minutes, try switching the TV on by pressing  on the remote or  on the TV. • Replace the lamp (page 42).
The TV does not switch on	<ul style="list-style-type: none"> • The TV cools down its projection lamp after being switched off. It takes up to two minutes for the picture to come back after the TV is switched on again. Wait for a while until the picture returns. • If the high temperature warning message appears, switch off the TV and wait until the TV’s projection lamp cools down (approximately 5 minutes). If the remote control still does not work, make sure to dust the ventilation slots on the rear of the TV and the cooling fan to provide adequate ventilation around the TV.
Cannot play shooting games	<ul style="list-style-type: none"> • Some shooting games that involve pointing a light beam at the TV screen with an electronic gun or rifle cannot be used with your TV. For details, see the instruction manual supplied with the video game software.
On/standby indicator flashes in intervals of some blinks at a time	<ul style="list-style-type: none"> • Three blinks: The lamp cover or the lamp itself is not securely attached. • Two blinks: If there is a considerable rise in temperature inside the TV such as when any ventilation openings are blocked. • Other: Consult your dealer or service.
A slight creaking noise occurs from the bottom part of the TV	<ul style="list-style-type: none"> • Advanced Iris applies a mechanical iris system. When Advanced Iris is turned On/Off, a natural creaking noise occurs due to the basic structure of the optical unit. The creaking sound is an inherent nature of this system and is not a defect.
High temperature warning message appears	<ul style="list-style-type: none"> • This message will appear when there is a rise in temperature inside the TV. Make sure to remove dust from the ventilation slots on the rear and both sides of the TV. In addition, make sure that there are no obstacles in front of the ventilation slots. If no blockage is found, you may need to set Cooling Mode to “High”, otherwise the TV will turn off. With Cooling Mode set to “High”, if the message reappears and the TV turns off again, the TV may need servicing. Call your local Sony service center.
Forgotten Parental Control password	<ul style="list-style-type: none"> • Select “All Reset” in the “Setup” menu (page 30).

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HDMI

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