

LCD Digital Colour TV



Operating Instructions

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

KDL-46D3550/46D3500
KDL-40D3550/40D3500

BRAVIA



For useful information about Sony products

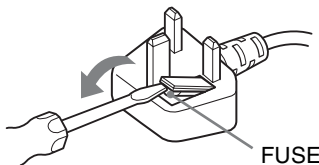
<http://www.sony-europe.com/myproduct/>

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 CUSTOMERS IN THE UNITED KINGDOM

A moulded plug complying with BS1363 is fitted to this equipment for your safety and convenience.
Should the fuse in the plug supplied need to be replaced with the same rating of fuse approved by ASTA or BSI to BS 1362 (i.e., marked with  or ) must be used.
When an alternative type of plug is used it should be fitted with the same rating of fuse, otherwise the circuit should be protected by a 13 AMP FUSE at the distribution board.
If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. Never use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest Sony service station.



How to replace the fuse

Open the fuse compartment with a blade screwdriver, and replace the fuse.

Disposal of the TV set



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

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic

equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

The manufacturer of this product is Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan. The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

Notice for Digital TV function

- Any functions related to Digital TV () will only work in countries or areas where DVB-T (MPEG2) digital terrestrial signals are broadcast or where you have access to a compatible DVB-C (MPEG2) cable service. Please confirm with your local dealer if you can receive a DVB-T signal where you live or ask your cable provider if their DVB-C cable service is suitable for integrated operation with this TV.
- The cable provider may charge an additional fee for such services and you may be required to agree to their terms and conditions of business.
- Although this TV set follows DVB-T and DVB-C specifications, compatibility with future DVB-T digital terrestrial and DVB-C digital cable broadcasts cannot be guaranteed.
- Some Digital TV functions may not be available in some countries/regions and DVB-C cable may not operate correctly with some providers.

For a list of compatible cable providers, refer to the support web site:

<http://support.sony-europe.com/TV/DVBC/>

Trademark information

-  is a registered trademark of the DVB Project
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.



The illustrations used in this manual are of the KDL-40D3500 unless otherwise stated.

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DVB : for digital channels only

Start-up Guide

1: Checking the accessories

Mains lead (Type BF)* (1)

Coaxial cable (1)

Support belt (1) and screws (2)

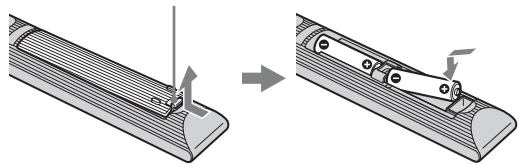
Remote RM-ED009 (1)

Size AA batteries (R6 type) (2)

* Do not remove the ferrite cores.

To insert batteries into the remote

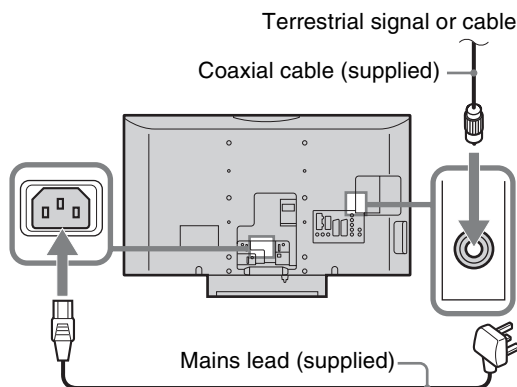
Push and lift the cover to open.



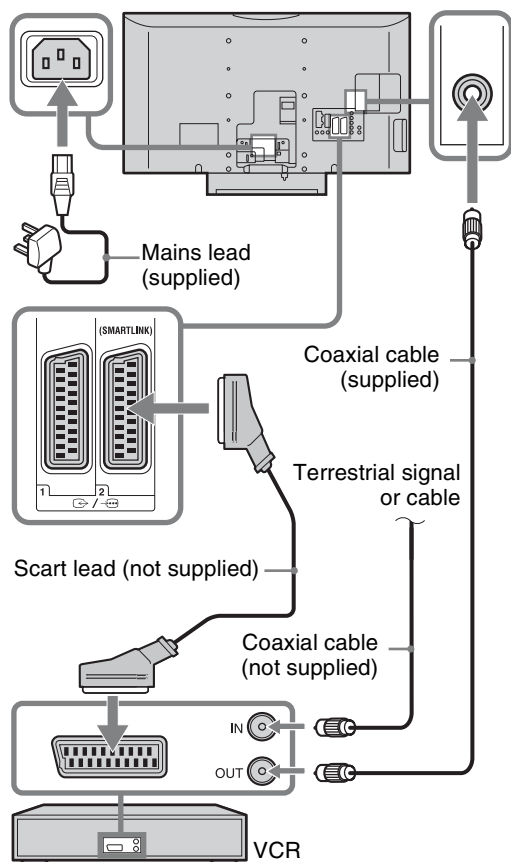
- Observe the correct polarity when inserting batteries.
- Do not use different types of batteries together or mix old and new batteries.
- Dispose of batteries in an environmentally friendly way. Certain regions may regulate the disposal of batteries. Please consult your local authority.
- Handle the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

2: Connecting an aerial/cable/VCR

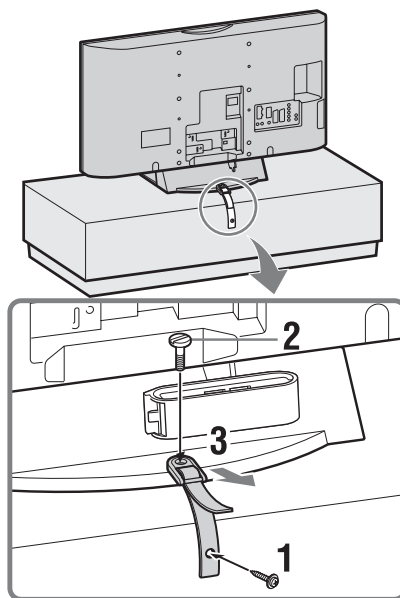
Connecting an aerial/cable



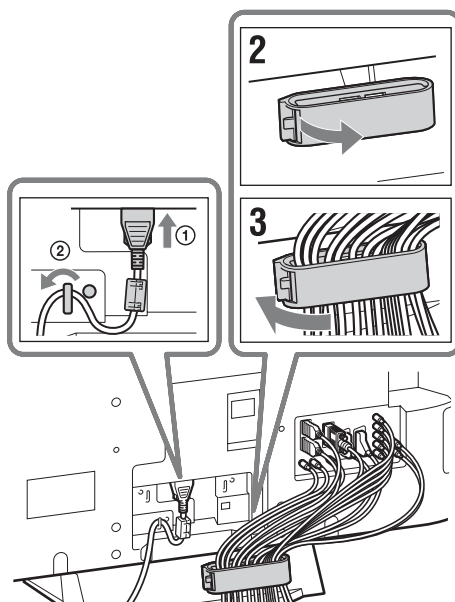
Connecting an aerial/cable and VCR



3: Preventing the TV from toppling over

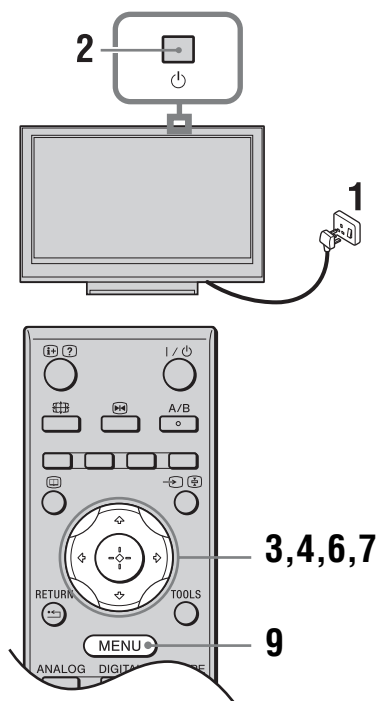


4: Bundling the cables



The hook of the cable holder can be opened from either sides depending on attaching position.

5: Performing the initial setup

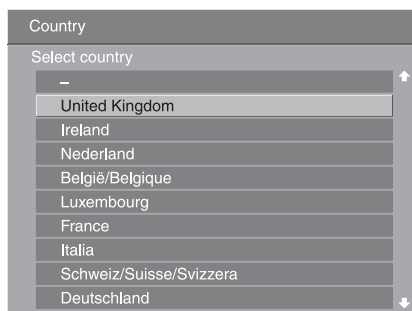


Selecting the language and country/region

- 1 Connect the TV to your mains socket (220-240 V AC, 50 Hz).
- 2 Press on the top edge of the TV.
When you turn on the TV for the first time, the Language menu appears on the screen.
- 3 Press to select the language displayed on the menu screens, then press .



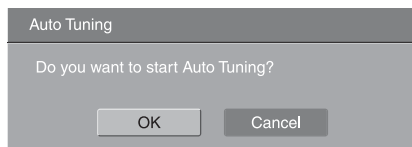
- 4 Press to select the country/region in which you will operate the TV, then press .



If the country/region which you want to use on the TV does not appear in the list, select “-” instead of a country/region.

Auto tuning the TV

- 5 Before you start auto tuning the TV, insert a pre-recorded tape into the VCR connected to the TV (page 5) and start play back.
The video channel will be located and stored on the TV during auto tuning.
If no VCR is connected to the TV, skip this step.
- 6 Press to select “OK”, then press .



- 7 Press to select “Antenna” or “Cable”, then press .

If you select “Cable”, the screen for selecting the scan type appears. See “To tune the TV for digital cable connection” on page 7.

The TV starts searching for all available digital channels, followed by all available analogue channels. This may take some time, so do not press any buttons on the TV or remote while proceeding.

If a message appears for you to confirm the aerial connection

No digital or analogue channels were found. Check all the aerial connections and press to start auto tuning again.

- 8 When the Programme Sorting menu appears on the screen, follow the steps of “Programme Sorting” on page 33.

If you do not wish to change the order in which the analogue channels are stored on the TV, go to next step.

9 Press MENU to exit.

The TV has now tuned in all the available channels.



When a digital broadcast channel cannot be received, or when selecting a region in which there are no digital broadcasts in step 4 (page 6), the time must be set after performing step 9.

To tune the TV for digital cable connection

1 Press $\uparrow/\downarrow$ to select “Scan Type”, then press $\oplus$.

2 Press $\uparrow/\downarrow$ to select “Quick Scan” or “Full Scan”, then press $\oplus$.

“Quick Scan”: Channels are tuned according to the cable provider’s information within the broadcast signal. The recommended setting for “Frequency”, “Network ID” and “Symbol Rate” is “Auto” unless your cable provider has supplied actual values to use. “Quick Scan” is recommended for fast tuning when this is supported by your cable provider.

“Full Scan”: All available channels are tuned and stored. This procedure may take some time. This option is recommended when “Quick Scan” is not supported by your cable provider.

For further information about supported cable providers, refer to the support web site:

<http://support.sony-europe.com/TV/DVBC/>

3 Press $\leftarrow/\rightarrow/\uparrow/\downarrow$ to select “Start”, then press $\oplus$.

The TV starts searching for channels. Do not press any buttons on the TV or remote.

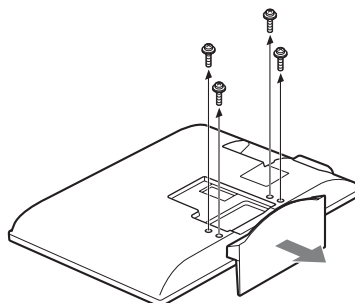


Some cable providers do not support “Quick Scan”. If no channels are detected using “Quick Scan”, perform “Full Scan”.

Detaching the stand from the TV



Do not remove the stand for any reason other than to wall-mount the TV or to attach the optional TV stand.



Safety information

Installation/Set-up

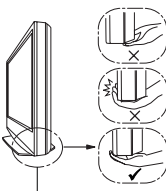
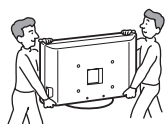
Install and use the TV set in accordance with the instructions below in order to avoid any risk of fire, electrical shock or damage and/or injuries.

Installation

- The TV set should be installed near an easily accessible mains socket.
- Place the TV set on a stable, level surface.
- Only qualified service personnel should carry out wall installations.
- For safety reasons, it is strongly recommended that you use Sony accessories, including:
 - Wall-mount bracket SU-WL500
 - TV stand SU-FL300M

Transporting

- Before transporting the TV set, disconnect all cables.
- Two or three people are needed to transport a large TV set.
- When transporting the TV set by hand, hold it as shown on the right. Do not put stress on the LCD panel.
- When lifting or moving the TV set, hold it firmly from the bottom.
- When transporting the TV set, do not subject it to jolts or excessive vibration.
- When transporting the TV set for repairs or when moving, pack it using the original carton and packing material.

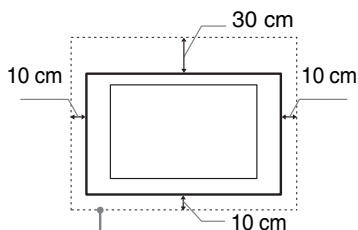


Be sure to hold the bottom of the panel, not the front part.

Ventilation

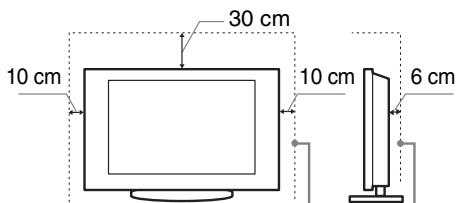
- Never cover the ventilation holes or insert anything in the cabinet.
- Leave space around the TV set as shown below.
- It is strongly recommended that you use a Sony wall-mount bracket in order to provide adequate air-circulation.

Installed on the wall



Leave at least this space around the set.

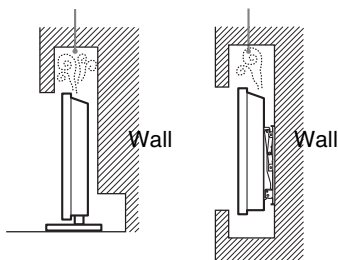
Installed with stand



Leave at least this space around the set.

- To ensure proper ventilation and prevent the collection of dirt or dust:
 - Do not lay the TV set flat, install upside down, backwards, or sideways.
 - Do not place the TV set on a shelf, rug, bed or in a closet.
 - Do not cover the TV set with a cloth, such as curtains, or items such as newspapers, etc.
 - Do not install the TV set as shown below.

Air circulation is blocked.



Mains lead

Handle the mains lead and socket as follows in order to avoid any risk of fire, electrical shock or damage and/or injuries:

- Connect the TV set using a three-wire grounding type mains plug to a mains socket with a protective earthing connection.
- Use only Sony mains leads, not those of other brands.
- Insert the plug fully into the mains socket.
- Operate the TV set on a 220-240 V AC supply only.
- When wiring cables, be sure to unplug the mains lead for your safety and take care not to catch your feet on the cables.
- Disconnect the mains lead from the mains socket before working on or moving the TV set.
- Keep the mains lead away from heat sources.
- Unplug the mains plug and clean it regularly. If the plug is covered with dust and it picks up moisture, its insulation may deteriorate, which could result in a fire.

Notes

- Do not use the supplied mains lead on any other equipment.
- Do not pinch, bend, or twist the mains lead excessively. The core conductors may be exposed or broken.
- Do not modify the mains lead.
- Do not put anything heavy on the mains lead.
- Do not pull on the mains lead itself when disconnecting the mains lead.
- Do not connect too many appliances to the same mains socket.
- Do not use a poor fitting mains socket.

Prohibited Usage

Do not install/use the TV set in locations, environments or situations such as those listed below, or the TV set may malfunction and cause a fire, electrical shock, damage and/or injuries.

Location:

Outdoors (in direct sunlight), at the seashore, on a ship or other vessel, inside a vehicle, in medical institutions, unstable locations, near water, rain, moisture or smoke.

Environment:

Places that are hot, humid, or excessively dusty; where insects may enter; where it might be exposed to mechanical vibration, near flammable objects (candles, etc). The TV set shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the TV.

Situation:

Do not use when your hands are wet, with the cabinet removed, or with attachments not recommended by the manufacturer. Disconnect the TV set from mains socket and aerial during lightning storms.

Broken pieces:

- Do not throw anything at the TV set. The screen glass may break by the impact and cause serious injury.
- If the surface of the TV set cracks, do not touch it until you have unplugged the mains lead. Otherwise electric shock may result.

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.
- As the TV set is not disconnected from the mains when the TV set is just turned off, pull the plug from the mains to disconnect the TV set completely.
- However, some TV sets may have features that require the TV set to be left in standby to work correctly.

For children

- Do not allow children to climb on the TV set.
- Keep small accessories out of the reach of children, so that they are not mistakenly swallowed.

If the following problems occur...

Turn off the TV set and unplug the mains lead immediately if any of the following problems occur. Ask your dealer or Sony service centre to have it checked by qualified service personnel.

When:

- Mains lead is damaged.
- Poor fitting of mains socket.
- TV set is damaged by being dropped, hit or having something thrown at it.
- Any liquid or solid object falls through openings in the cabinet.

Precautions

Viewing the TV

- View the TV in moderate light, as viewing the TV in poor light or during long period of time, strains your eyes.
- When using headphones, adjust the volume so as to avoid excessive levels, as hearing damage may result.

LCD Screen

- Although the LCD screen is made with high-precision technology and 99.99% or more of the pixels are effective, black dots may appear or bright points of light (red, blue, or green) may appear constantly on the LCD screen. This is a structural property of the LCD screen and is not a malfunction.
- Do not push or scratch the front filter, or place objects on top of this TV set. The image may be uneven or the LCD screen may be damaged.
- If this TV set is used in a cold place, a smear may occur in the picture or the picture may become dark. This does not indicate a failure. These phenomena disappear as the temperature rises.
- Ghosting may occur when still pictures are displayed continuously. It may disappear after a few moments.
- The screen and cabinet get warm when this TV set is in use. This is not a malfunction.
- The LCD screen contains a small amount of liquid crystal and mercury. The fluorescent tubes used in this TV set also contain mercury. Follow your local ordinances and regulations for disposal.

Handling and cleaning the screen surface/cabinet of the TV set

Be sure to unplug the mains lead connected to the TV set from mains socket before cleaning.

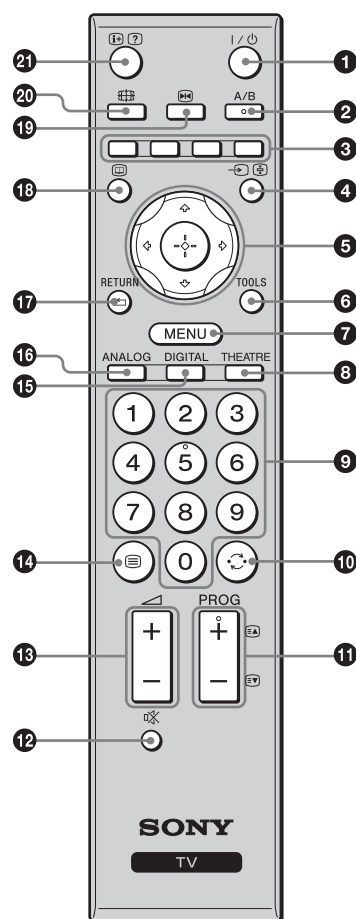
To avoid material degradation or screen coating degradation, observe the following precautions.

- To remove dust from the screen surface/cabinet, wipe gently with a soft cloth. If dust is persistent, wipe with a soft cloth slightly moistened with a diluted mild detergent solution.
- Never use any type of abrasive pad, alkaline/acid cleaner, scouring powder, or volatile solvent, such as alcohol, benzene, thinner or insecticide. Using such materials or maintaining prolonged contact with rubber or vinyl materials may result in damage to the screen surface and cabinet material.
- When adjusting the angle of the TV set, move it slowly so as to prevent the TV set from moving or slipping off from its table stand.

Optional Equipment

Keep optional components or any equipment emitting electromagnetic radiation away from the TV set. Otherwise picture distortion and/or noisy sound may occur.

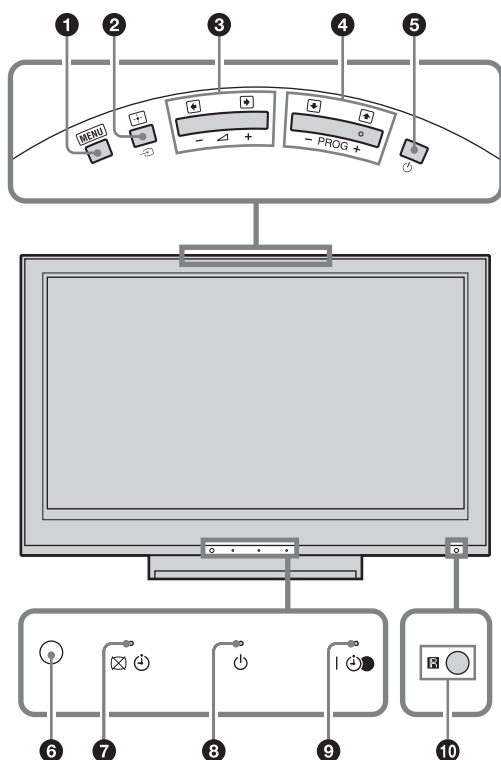
Overview of the remote



- The number 5, PROG + and A/B buttons have tactile dots. Use the tactile dots as references when operating the TV.
- If you turn the TV off, Theatre Mode is also turned off.

- 1 I / – TV standby**
Turns the TV on and off from standby mode.
- 2 A/B – Dual Sound (page 26)**
- 3 Coloured buttons (page 14, 15, 17)**
- 4 / – Input select / Text hold**
 - In TV mode (page 20): Selects the input source from equipment connected to the TV sockets.
 - In Analogue Text mode (page 14): Holds the current page.
- 5 / / / / (page 13, 22)**
- 6 TOOLS (page 14, 20)**
Enables you to access various viewing options and change/make adjustments according to the source and screen format.
- 7 MENU (page 22)**
- 8 THEATRE**
You can set Theatre Mode on or off. When Theatre Mode is set to on, the optimum audio output (if the TV is connected with an audio system using an HDMI cable) and picture quality for film-based contents are automatically set.
- 9 Number buttons**
 - In TV mode: Selects channels. For channel numbers 10 and above, enter the second and third digit quickly.
 - In Analogue Text mode: Enters the three digit page number to select the page.
- 10 – Previous channel**
Returns to the previous channel watched (for more than five seconds).
- 11 PROG +/- / / (page 13)**
 - In TV mode (page 13): Selects the next (+) or previous (-) channel.
 - In Analogue Text mode (page 14): Selects the next () or previous () page.
- 12 – Mute (page 13, 20)**
- 13 +/- – Volume (page 20)**
- 14 – Text (page 13)**
- 15 DIGITAL – Digital mode (page 13)**
- 16 ANALOG – Analogue mode (page 13)**
- 17 RETURN / (page 13)**
Returns to the previous screen of any displayed menu.
- 18 – EPG (Digital Electronic Programme Guide) (page 15)**
- 19 – Picture freeze (page 13)**
Freezes the TV picture.
- 20 – Screen mode (page 14)**
- 21 / – Info / Text reveal**
 - In digital mode: Displays brief details of the programme currently being watched.
 - In analogue mode: Displays information such as current channel number and screen format.
 - In Analogue Text mode (page 14): Reveals hidden information (e.g. answers to a quiz).

Overview of the TV buttons and indicators



1 MENU (page 22)

2 ↵ / + – Input select / OK

- In TV mode (page 20): Selects the input source from equipment connected to the TV sockets.
- In TV menu: Selects the menu or option, and confirms the setting.

3 ▲ +/- / ▸ / ◀

- In TV mode: Increases (+) or decreases (-) the volume.
- In TV menu: Moves through the options right (▸) or left (◀).

4 PROG +/- / ⬆ / ⬇

- In TV mode: Selects the next (+) or previous (-) channel.
- In TV menu: Moves through the options up (⬆) or down (⬇).

5 ⏻ – Power

Turns the TV on or off.



To disconnect the TV completely, pull the plug from the mains.

6 Light sensor (page 31)

7 ☒ ⏻ – Picture Off / Timer indicator

- Lights up in green when the picture is switched off (page 30).
- Lights up in orange when the timer is set (page 30).

8 ⏻ – Standby indicator

Lights up in red when the TV is in standby mode.

9 I ⏻ – Power / Timer REC programme indicator

- Lights up in green when the TV is turned on.
- Lights up in orange when the timer recording is set (page 15).
- Lights up in red during the timer recording.

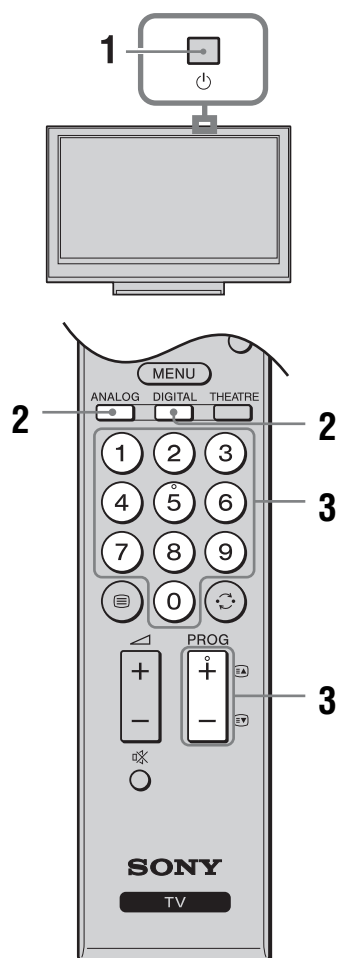
10 Remote control sensor

- Receives IR signals from the remote.
- Do not put anything over the sensor, as its function may be affected.



Make sure that the TV is completely turned off before unplugging the mains lead. Unplugging the mains lead while the TV is turned on may cause the indicator to remain lit or may cause the TV to malfunction.

Watching TV



- 1 Press on the top edge of the TV to turn on the TV.

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

- 2 Press DIGITAL to switch to digital mode, or press ANALOG to switch to analogue mode.

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 and third digits quickly.

To select a digital channel using the Digital Electronic Programme Guide (EPG), see page 15.

In digital mode

An information banner appears briefly. The following icons may be indicated on the banner.

- : Interactive service is available (Digital Text)
- : Radio service
- : Scrambled/Subscription service
- : Multiple audio languages available
- : Subtitles available
- : Subtitles available for the hearing impaired
- : Recommended minimum age for current programme (from 4 to 18 years)
- : Parental Lock
- (in red): Current programme is being recorded

Additional operations

To	Press
Freeze the picture (Picture freeze)	. Press once to remove the small screen, then press again to return to normal TV mode. This function is not available for a PC input source.
Access the Programme index table (in analogue mode only)	. To select an analogue channel, press , then press .
Access the Digital Favourites (in digital mode only)	. For details, see page 17.
Mute the sound	. Press again to restore.
Turn on the TV without sound from standby mode	.

To access Digital Text

Many broadcasters provide a Digital Text service. Digital Text offers graphically rich contents, compared to Analogue Text.

Select a digital channel which provides Digital Text, then press .

When a broadcaster provides a dedicated Digital Text channel, select this channel to access Digital Text.

To navigate through Digital Text, follow the instructions on the screen.

Continued

To exit Digital Text, press RETURN.
To move around, press $\uparrow/\downarrow/\leftarrow/\rightarrow$.
To select items, press $\oplus$ and the number buttons.
To access shortcuts, press the coloured buttons.

To access Analogue Text

In analogue mode, press ⏏ . Each time you press ⏏ , the display changes cyclically as follows:
Text $\rightarrow$ Text over the TV picture (mix mode) $\rightarrow$ No Text (exit the Text service)
To select a page, press the number buttons or $\text{⏏}/\text{⏏}$.
To hold a page, press $\text{⏏}/\text{⏏}$.
To reveal hidden information, press $\text{⏏}/\text{⏏}$.

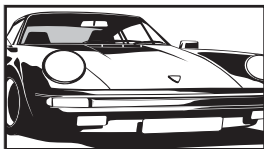


When four coloured items appear at the bottom of the Text page, Fastext is available. Fastext allows you to access pages quickly and easily. Press the corresponding coloured button to access the page.

To change the screen format manually to suit the broadcast

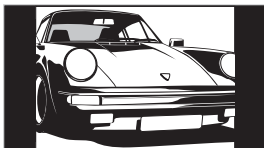
Press ⏏ repeatedly to select the desired screen format.

Smart*



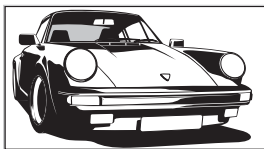
Displays conventional 4:3 broadcasts with an imitation wide screen effect. The 4:3 picture is stretched to fill the screen.

4:3



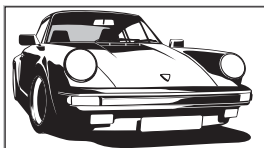
Displays conventional 4:3 broadcasts (e.g. non-wide screen TV) in the correct proportions.

Wide



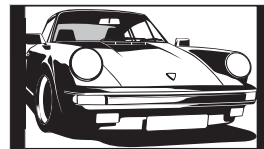
Displays wide screen (16:9) broadcasts in the correct proportions.

Zoom*



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

14:9*



Displays 14:9 broadcasts in the correct proportions. As a result, black border areas are visible on the screen.

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



- You cannot select “4:3” or “14:9” for HD signal source pictures.
- You cannot use this function while the digital banner is displayed.
- Some characters and/or letters at the top and the bottom of the picture may not be visible in “Smart”. In such a case, you can select “Vertical Size” using the “Screen” menu and adjust vertical size to make it visible.
- When “Auto Format” is set to “On”, the TV will automatically select the best mode to suit the broadcast (page 27).
- You can adjust the position of the picture when selecting “Smart” (50Hz), “Zoom” or “14:9”. Press $\uparrow/\downarrow$ to move up or down (e.g. to read subtitles) (except 720p and 1080i).
- Select “Smart” or “Zoom” to adjust for 720p or 1080i source pictures with edge portions cut off.

Using the Tools menu

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

Options	Description
Close	Closes the Tools menu.
Picture Mode	See page 23.
Sound Mode	See page 25.
Speaker	See page 29.
Audio Language (in digital mode only)	See page 37.
Subtitle Setting (in digital mode only)	See page 37.
⏏ Volume	Adjusts the volume of the headphones.
Sleep Timer	See page 30.
Power Saving	See page 30.
Auto Clock Set (in analogue mode only)	Allows you to switch to digital mode and obtain the time.
System Information (in digital mode only)	Displays the system information screen.

Checking the Digital Electronic Programme Guide (EPG) DV3*



Digital Electronic Programme Guide (EPG)

* This function may not be available in some countries/regions.

- 1 In digital mode, press .
- 2 Perform the desired operation as shown in the following table or displayed on the screen.

To	Do this
Watch a programme	Press  /  to select the programme, then press  .
Turn off the EPG	Press  .
Sort the programme information by category – Category list	1 Press the blue button. 2 Press /// to select a category, then press . The categories available include: “All Categories”: Contains all available channels. Category name (e.g. “News”): Contains all channels corresponding to the selected category.
Set a programme to be recorded – Timer REC	1 Press /// to select the programme you want to record, then press . 2 Press / to select “Timer REC”. 3 Press  to set the TV and your VCR timers. A red  symbol appears by that programme’s information. The  indicator on the TV front panel lights up in orange.  The above procedure can be used even if the programme to be recorded has already started.
Set a programme to be displayed automatically on the screen when it starts – Reminder	1 Press /// to select the future programme you want to display, then press . 2 Press / to select “Reminder”, then press . A  symbol appears by that programme’s information. The  indicator on the TV front panel lights up in orange.  If you switch the TV to standby mode, it will automatically turn itself on when the programme is about to start.

Continued

To	Do this
Set the time and date of a programme you want to record – Manual timer REC	1 Press ⏻/?. 2 Press ⬆/⬇ to select “Manual timer REC”, then press ⊕. 3 Press ⬆/⬇ to select the date, then press ⬅. 4 Set the start and stop time in the same way as in step 3. 5 Press ⬆/⬇ to select the programme, then press ⊕. 6 Press ⊕ to set the TV and your VCR timers. The ⌚ indicator on the TV front panel lights up in orange.
Cancel a recording/reminder – Timer list	1 Press ⏻/?. 2 Press ⬆/⬇ to select “Timer list”, then press ⊕. 3 Press ⬆/⬇ to select the programme you want to cancel, then press ⊕. 4 Press ⬆/⬇ to select “Cancel Timer”, then press ⊕. A display appears to confirm that you want to cancel the programme. 5 Press ⬅/➡ to select “Yes”, then press ⊕ to confirm.



- You can set VCR timer recording on the TV only for SmartLink compatible VCRs. If your VCR is not SmartLink compatible, a message will be displayed to remind you to set your VCR timer.
- Once a recording has begun, you can switch the TV to standby mode, but do not turn off the TV completely or the recording will be cancelled.
- If an age restriction for programmes has been selected, a message asking for a PIN code will appear on the screen. For details, see “Parental Lock” on page 37.

Using the Digital Favourite list



Digital Favourite list

* This function may not be available in some countries/regions.

The Favourite feature allows you to specify up to four lists of your favourite programmes.

- 1 Press MENU.
- 2 Press  to select "Digital Favourites", then press .
- 3 Perform the desired operation as shown in the following table or displayed on the screen.

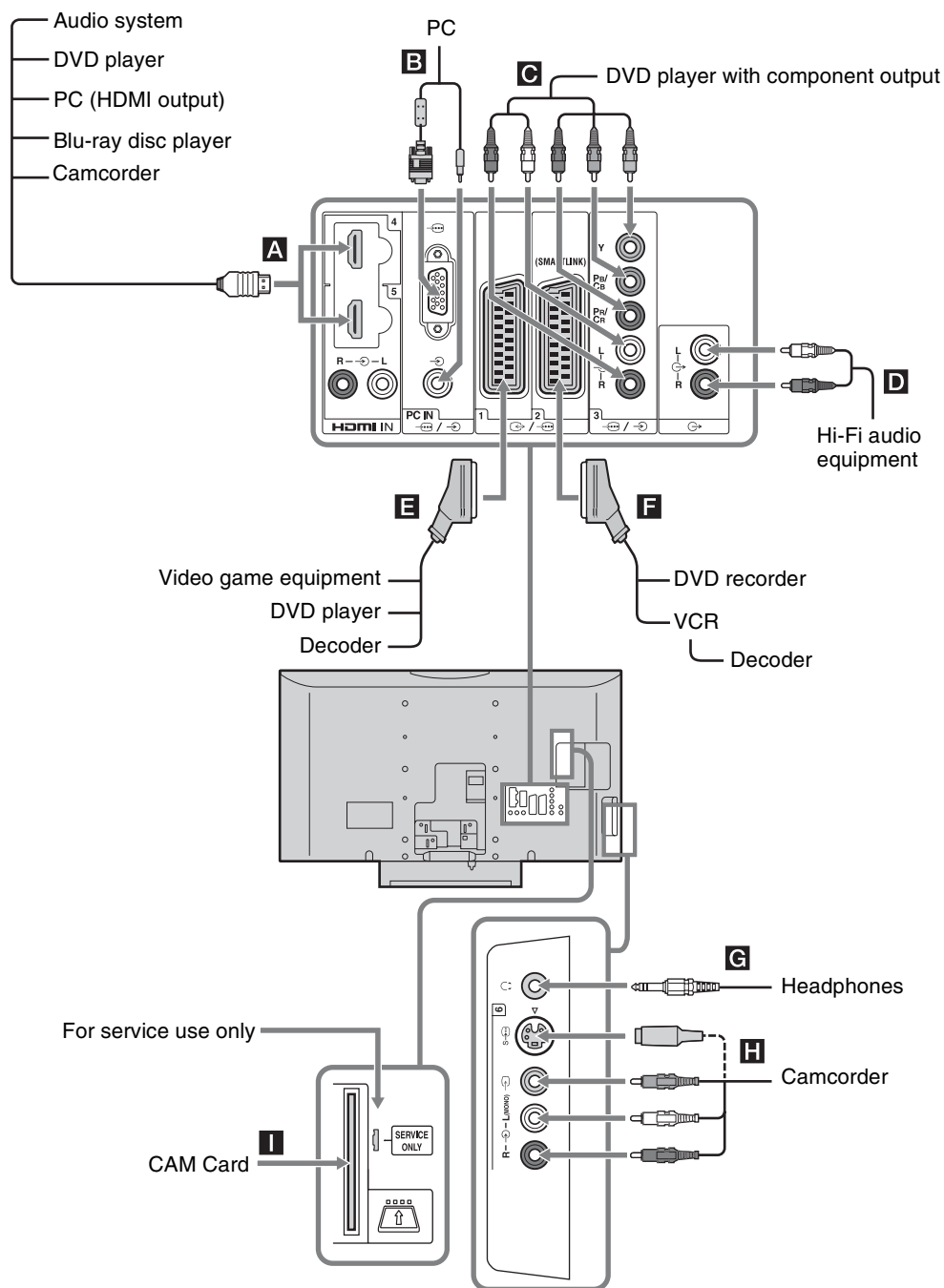


Up to 999 channels can be stored in the Favourite list.

To	Do this
Create your Favourite list for the first time	1 Press  to select "Yes". 2 Press the yellow button to select the Favourite list. 3 Press  to select the channel you want to add, then press . Channels that are stored in the Favourite list are indicated by a  symbol.
Watch a channel	1 Press the yellow button to navigate through your Favourite lists. 2 Press  while selecting a channel.
Turn off the Favourite list	Press RETURN.
Add or remove channels in the currently edited Favourite list	1 Press the blue button. 2 Press the yellow button to select the Favourite list you want to edit. 3 Press  to select the channel you want to add or remove, then press .
Remove all channels from the current Favourite list	1 Press the blue button. 2 Press the yellow button to select the Favourite list you want to edit. 3 Press the blue button. 4 Press  to select "Yes", then press  to confirm.

Connecting optional equipment

You can connect a wide range of optional equipment to your TV.



Sockets	Input symbol on screen	Description
A HDMI IN 4 or 5	 AV4 or  AV5	Connect to the HDMI IN 4 or 5 socket if the equipment has a HDMI socket. The digital video and audio signals are input from the equipment. In addition, when HDMI control compatible equipment is connected, communication with the connected equipment is supported. Refer to page 30 to set up this communication. If the equipment has a DVI socket, connect the DVI socket to the HDMI IN 5 socket through a DVI - HDMI adaptor interface (not supplied), and connect the equipment's audio out sockets to the audio in the HDMI IN 5 sockets.  - The HDMI sockets only support the following video inputs: 480i, 480p, 576i, 576p, 720p, 1080i, 1080p and 1080/24p. - Be sure to use only an HDMI cable that bears the HDMI logo.
B PC 	PC	Connect to the PC  socket. It is recommended to use a PC cable with ferrites.
C  /  3	 AV3	Connect to the component video sockets and the audio sockets  /  3.
D 		Connect to the audio output  sockets to listen to the sound from the TV on Hi-Fi audio equipment.
E  /  1	 AV1 or  AV1	Connect to the scart  /  1 socket. When you connect the decoder, the scrambled signal from the TV tuner is output to the decoder, then the unscrambled signal is output from the decoder.
F  /  2	 AV2 or  AV2	Connect to the scart  /  2 socket. SmartLink is a direct link between the TV and a VCR/DVD recorder.
G Headphones		Connect to the  socket to listen to sound from the TV on headphones.
H S  6 or  6, and  6	S  AV6 or  AV6	Connect to the S video S  6 socket or the composite video  6 socket, and the audio  6 sockets. To avoid picture noise, do not connect the camcorder to the video  6 socket and the S video S  6 socket at the same time. If you connect mono equipment, connect to the  6 L socket.
I  CAM (Conditional Access Module)		To use pay TV services. For details, refer to the instruction manual supplied with your CAM. To use the CAM, remove the “dummy” card from the CAM slot. Turn off the TV when inserting your CAM into the CAM slot. When you do not use the CAM, we recommend that the “dummy” card be inserted and kept in the CAM slot.  CAM is not supported in some countries/regions. Check with your authorized dealer.

Viewing pictures from the connected equipment

Turn on the connected equipment, then perform one of the following operation.

For equipment connected to the scart sockets using a fully-wired 21-pin scart lead (page 18)

Start playback on the connected equipment.
The picture from the connected equipment appears on the screen.

For an auto-tuned VCR (page 6)

In analogue mode, press PROG +/-, or the number buttons, to select the video channel.

For other connected equipment (page 18)

Press  to display the connected equipment list. Press  to select the desired input source, then press . (The highlighted item is selected if 2 seconds pass without any operation after pressing .)
When the input source is set to “Skip” in the “AV Preset” menu under the “AV Set-up” menu (page 29), that input does not appear in the list.

Additional operations

To	Do this
Return to normal TV mode	Press DIGITAL or ANALOG.
Access the Input signal index table (except TV mode)	Press  to access the Input signal index table. To select an input source, press  , then press  .
Change the volume of the connected HDMI control compatible audio system	Press  +/-.
Mute the sound of the connected HDMI control compatible audio system	Press  . Press again to restore.

Using the Tools menu

Press TOOLS to display the following options when viewing pictures from connected equipment.

Options	Description
Close	Closes the Tools menu.
Picture Mode (except PC input mode)	See page 23.
Display Mode (in PC input mode only)	See page 23.
Sound Mode	See page 25.
Speaker	See page 29.
PAP (except PC input mode)	See page 20.
PIP (in PC input mode only)	See page 21.
Auto Adjustment (in PC input mode only)	See page 32.
Horizontal Shift (in PC input mode only)	See page 32.
Vertical Shift (in PC input mode only)	See page 32.
 Volume	Adjusts the volume of the headphones.
Sleep Timer (except PC input mode)	See page 30.
Power Saving	See page 30.
Auto Clock Set	Allows you to switch to digital mode and obtain the time.

To view two pictures simultaneously – PAP (Picture and Picture)

You can view two pictures (external input and TV programme) on the screen simultaneously. Connect the optional equipment (page 18), and make sure that images from the equipment appear on the screen (page 20).



- This function is not available for a PC input source.
- You cannot change the size of the pictures.
- You cannot display analog TV video in the TV programme picture while displaying AV1, AV2 or AV6 video in the external input picture.

- 1 Press TOOLS to display the Tools menu.
- 2 Press  to select “PAP”, then press .
The picture from connected equipment is displayed on the left and the TV programme is displayed on the right.

- 3 Press number buttons or PROG +/- to select the TV channel.

To return to single picture mode

Press ⊕ or RETURN.



The picture framed in green is audible. You can switch the audible picture by pressing ⇄/⇄.

To view two pictures simultaneously – PIP (Picture in Picture)

You can view two pictures (PC input and TV programme) on the screen simultaneously. Connect a PC (page 18), and make sure that images from a PC appear on the screen.



- You cannot display resolutions higher than WXGA (1280 × 768 pixels).
- “Power Management” is not available in PIP mode (page 32).

- 1 Press TOOLS to display the Tools menu.

- 2 Press ⇄/⇄ to select “PIP”, then press ⊕.

The picture from the connected PC is displayed with full size and the TV programme is displayed on the right corner.

You can use ⇄/⇄/⇄/⇄ to move the TV programme screen position.

- 3 Press number buttons or PROG +/- to select the TV channel.

To return to single picture mode

Press RETURN.



You can switch the audible picture by selecting “Audio Swap” from the Tools menu.

Using HDMI control

The HDMI control function allows equipment to control each other using HDMI CEC (Consumer Electronics Control) specified by HDMI.

You can perform interlocked control operations between Sony HDMI control compatible equipment such as a TV, DVD recorder with hard disk and audio system by connecting the equipment with HDMI cables.

Be sure to correctly connect and set the compatible equipment to use the HDMI control function.

To connect the HDMI control compatible equipment

Connect the compatible equipment and the TV with an HDMI cable. When connecting an audio system, be sure to also connect the audio out sockets of the TV to the audio system using a suitable cable. For details, see page 18.

To make the HDMI control settings

HDMI control must be set on both the TV side and the connected equipment side. See “HDMI Set-up” on page 30 for the TV side settings. See the operating instructions of the connected equipment for setting details.

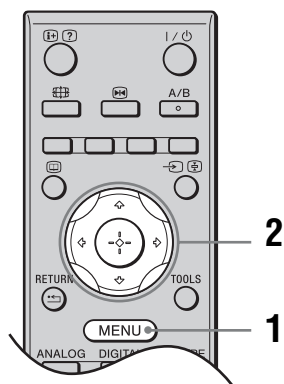
HDMI control functions

- Turns the connected equipment off interlocked with the TV.
- Turns the TV on interlocked with the connected equipment and automatically switches the input to the equipment when the equipment starts to play.
- If you turn on a connected audio system while the TV is on, the input switches to the audio from the audio system.
- Adjusts the volume and mutes the sound of a connected audio system.

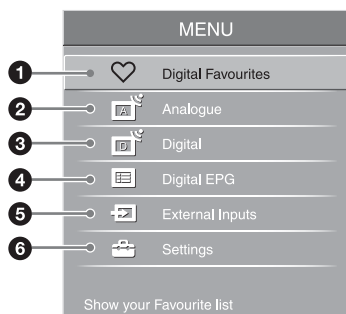
Using MENU Functions

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.
 - 2 Press / to select an option, then press .
- To exit the menu, press MENU.



- 1 **Digital Favourites***
Displays the Favourite list (page 17).
- 2 **Analogue**
Returns to the last viewed analogue channel.
- 3 **Digital***
Returns to the last viewed digital channel.
- 4 **Digital EPG***
Displays the Digital Electronic Programme Guide (EPG) (page 15).

5 External Inputs

Selects equipment connected to your TV.

- To watch the desired external input, select the input source, then press .
- To assign a label to an external input, select “Edit AV Labels”, then see page 29.
- To see a list of the connected HDMI control compatible equipment, select “HDMI Device Selection”.

6 Settings

Displays the “Settings” menu where most of the advanced settings and adjustments are performed.

- 1 Press / to select a menu icon, then press .
- 2 Press / / / to select an option or adjust a setting, then press .

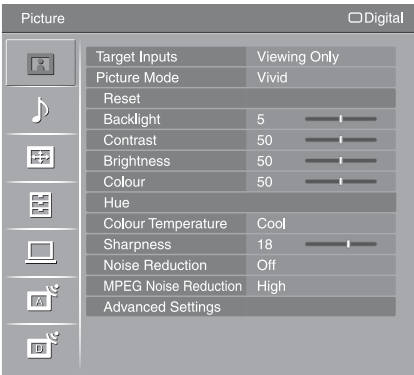
For details about settings, see page 23 to 38.



The options you can adjust vary depending on the situation. Unavailable options are greyed out or not displayed.

* This function may not be available in some countries/regions.

Picture menu



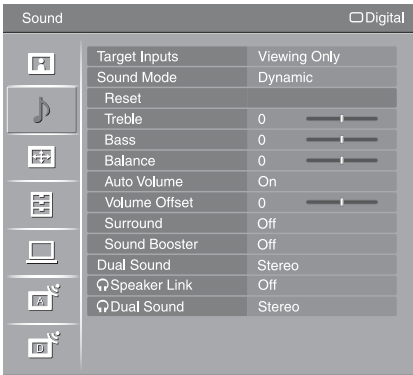
You can select the options listed below on the “Picture” menu. To select options in “Settings”, refer to “Navigating through menus” (page 22).

Target Inputs	Selects whether to apply settings made in the “Picture” menu to all inputs, or only to the input currently being watched. “All”: Applies settings to all inputs. “Viewing Only”: Applies settings only to the current input.
Picture Mode	Selects the picture mode except for PC input source. The options for “Picture Mode” may differ depending on the “Video/Photo” setting (page 28). “Vivid”: For enhanced picture contrast and sharpness. “Standard”: For standard picture. Recommended for home entertainment. “Cinema”: For viewing film-based content. Most suitable for viewing in a theatre-like environment. This picture setting was developed in collaboration with Sony Pictures Entertainment to faithfully reproduce movies as intended by their creators. “Photo”: Sets the optimum picture quality for photographs.
Display Mode	Selects the display mode for PC input source. “Video”: For video images. “Text”: For text, charts or tables.
Reset	Resets all the “Picture” settings except “Target Inputs”, “Picture Mode” and “Display Mode” to the factory settings.
Backlight	Adjusts the brightness of the backlight.
Contrast	Increases or decreases picture contrast.
Brightness	Brightens or darkens the picture.
Colour	Increases or decreases colour intensity.
Hue	Increases or decreases the green tones and red tones.  “Hue” can only be adjusted for an NTSC colour signal (e.g. U.S.A. video tapes).

Continued

Colour Temperature	Adjusts the whiteness of the picture. “Cool”: Gives the white colours a blue tint. “Neutral”: Gives the white colours a neutral tint. “Warm 1”/“Warm 2”: Gives the white colours a red tint. “Warm 2” gives a redder tint than “Warm 1”.  “Warm 1” and “Warm 2” are not available when “Picture Mode” is set to “Vivid”.
Sharpness	Sharpens or softens the picture.
Noise Reduction	Reduces the picture noise (snowy picture) in a weak broadcast signal. “Auto”: Automatically reduces the picture noise (in analogue mode only). “High”/“Medium”/“Low”: Modifies the effect of the noise reduction. “Off”: Turns off the “Noise Reduction” feature.
MPEG Noise Reduction	Reduces the picture noise in MPEG-compressed video.
Advanced Settings	Customizes the Picture function in more detail. When you set “Picture Mode” to “Cinema”, “Photo” or “Standard”, 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. “Adv. Contrast Enhancer”: Automatically adjusts “Backlight” and “Contrast” to the most suitable settings judging from the brightness of the screen. This setting is especially effective for dark images scenes. It will increase the contrast distinction of the darker picture scenes. “Gamma”: Adjusts the balance between bright and dark areas of the picture. “Clear White”: Emphasizes white colours. “Live Colour”: Makes colours more vivid. “Colour Space”: Changes the colour reproduction gamut. “Wide” reproduces the vivid colour and “Standard” reproduces the standard colour.

Sound menu



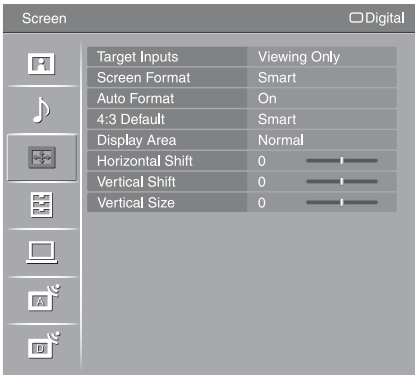
You can select the options listed below on the “Sound” menu. To select options in “Settings”, refer to “Navigating through menus” (page 22).

Target Inputs	Selects whether to apply settings made in the “Sound” menu to all inputs, or only to the input currently being watched. “All”: Applies settings to all inputs. “Viewing Only”: Applies settings only to the current input.
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”, “Dual Sound”, “Speaker Link” and “Dual Sound” to the factory settings.
Treble	Adjusts higher-pitched sounds.
Bass	Adjusts lower-pitched sounds.
Balance	Emphasizes left or right speaker balance.
Auto Volume	Keeps a constant volume level even when volume level gaps occur (e.g. adverts tend to be louder than programmes).
Volume Offset	Adjusts the volume level of the current input relative to other inputs, when “Target Inputs” is set to “Viewing Only”.
Surround	“S-FORCE Front Surround”: Available for normal stereo broadcast and 5.1ch digital broadcast surround audio, and the audio input from connected equipment. “Off”: Converts and reproduces 5.1ch and other digital broadcast surround audio as normal stereo audio (2ch). Reproduces the original audio of other broadcasts as is.
Sound Booster	Gives sound more impact by compensating for phase effects in speakers.

Continued

Dual Sound	Selects the sound from the speaker for a stereo or bilingual broadcast. “Stereo”/“Mono”: For a stereo broadcast. “A”/“B”/“Mono”: For a bilingual broadcast, select “A” for sound channel 1, “B” for sound channel 2, or “Mono” for a mono channel, if available.  If you select other equipment connected to the TV, set “Dual Sound” to “Stereo”, “A” or “B”. However, when the external equipment connected to the HDMI socket is selected, this is fixed to “Stereo”.
 Speaker Link	Switches the TV’s internal speakers on/off when headphones are connected. “On”: Sound is output only from headphones. “Off”: Sound is output from both the TV and headphones.
 Dual Sound	Selects the sound from the headphone for a stereo or bilingual broadcast, which depends on the “Dual Sound” selection.

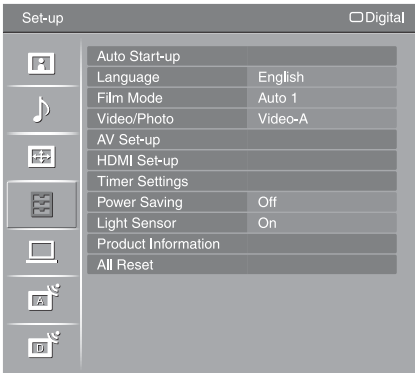
Screen menu



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

Target Inputs	Selects whether to apply settings made in the “Screen” menu to all inputs, or only to the input currently being watched. “All”: Applies settings to all inputs. “Viewing Only”: Applies settings only to the current input.
Screen Format	For details about the screen format, see “To change the screen format manually to suit the broadcast” on page 14.
Auto Format	Automatically changes the screen format according to the broadcast signal. To keep your setting, select “Off”.  Even if “Auto Format” is set to “On” or “Off”, you can always modify the format of the screen by pressing  repeatedly.
4:3 Default	Selects the default screen format for use with 4:3 broadcasts. “Smart”: Displays conventional 4:3 broadcasts with an imitation wide screen effect. “4:3”: Displays conventional 4:3 broadcasts in the correct proportions. “Off”: Keeps the current “Screen Format” setting when the channel or input is changed.
Display Area	Adjusts the screen area for displaying the picture. “Full Pixel”: Displays the picture for 1080i or 1080p (except for component input) sources in the original size when parts of the picture are cut off. “Normal”: Displays the recommended picture area. “-1”/“-2”: Enlarges the picture to hide the edge of the picture.  “Full Pixel” is available only when “Screen Format” is set to “Wide”.
Horizontal Shift	Adjusts the horizontal position of the picture.
Vertical Shift	Adjusts the vertical position of the picture when “Screen Format” is set to “Smart” (50 Hz), “Zoom” or “14:9”.
Vertical Size	Adjusts the vertical size of the picture when “Screen Format” is set to “Smart”, “Zoom” or “14:9”.

Set-up menu



You can select the options listed below on the “Set-up” menu. To select options in “Settings”, refer to “Navigating through menus” (page 22).

Auto Start-up

Starts the initial set-up to select the language and country/region, and tune in all available digital and analogue channels.

Usually, you do not need to do this operation because the language and country/region will have been selected and channels already tuned when the TV was first installed (page 6).

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).

Language

Selects the language in which the menus are displayed.

Film Mode

Provides smoother picture movement when playing DVD or VCR images taken on film, reducing picture blur and graininess.

“Auto 1”: Provides smoother picture movement than the original film-based content. Use this setting for standard use.

“Auto 2”: Provides the original film-based content as is.

“Off”: Turns off the “Film Mode” feature.



If the image contains irregular signals or too much noise, “Film Mode” will be automatically turned off even if “Auto 1” or “Auto 2” is selected.

Video/Photo

Provides suitable image quality by selecting the option depending on the input source (video or photograph data).

“Video-A”: Sets suitable image quality, depending on the input source, video data or photograph data when directly connecting Sony HDMI output-capable equipment that supports “Video-A” mode.

“Video”: Produces suitable image quality for moving pictures.

“Photo”: Produces suitable image quality for still images.



- The setting is fixed to “Video” when Video-A mode is not supported on the connected equipment, even if “Video-A” is selected.
- “Video/Photo” is available only for HDMI and component input sources (1080p and 1080i).

AV Set-up

AV Preset

Assigns a name to any equipment connected to the side and rear sockets. 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 / to select the desired input source, then press .

2 Press / to select the desired option below, then press .

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 “Programme Labels” (page 33).

“Skip”: Skips an unnecessary input source.

Auto S Video

Selects the input signal from S video sockets 6 when /6 sockets are both connected.

AV2 Output

Sets a signal to be output through the socket labelled 2 on the rear of the TV. If you connect a VCR or other recording equipment to the /2 socket, you can then record from the equipment connected to other sockets of the TV.

“TV”: Outputs a broadcast.

“AV1”: Outputs signals from equipment connected to the /1 socket.

“AV6”: Outputs signals from equipment connected to the /6 socket.

“Auto”: Outputs whatever is being viewed on the screen (except signals from the 3, HDMI IN 4, HDMI IN 5 and PC / sockets).

Speaker

Turns on/off the TV’s internal speakers.

“TV Speaker”: The TV speakers are turned on in order to listen to the TV’s sound through the TV speakers.

“Audio System”: 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 sockets. When connected with an HDMI control compatible equipment, you can turn the connected equipment on interlocked with the TV. This setting must be made after connecting the equipment.

Audio Out

“Variable”: The audio output from your audio system can be controlled by the TV’s remote.

“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.

Colour System

Selects the colour system (“Auto”, “PAL”, “SECAM”, “NTSC3.58”, “NTSC4.43” or “PAL60”) according to the input signal from the input source.

Continued

HDMI Set-up

This is used to set the HDMI control compatible equipment connected to the HDMI sockets. Note that the interlock setting must also be made on the connected HDMI control compatible equipment side.

HDMI Control

Sets whether to interlock the HDMI control compatible equipment and the TV. When set to “On”, the following menu items can be performed.

Auto Devices Off

When this is set to “On”, the HDMI control compatible equipment turn off interlocked with the TV.

Auto TV On

When this is set to “On”, the TV turns on interlocked with the HDMI control compatible equipment.

Device List Update

Creates or updates the “HDMI Device List”. Up to 11 HDMI control compatible equipment items can be connected, and up to 5 equipment items can be connected to a single socket. Be sure to update the “HDMI Device List” when you change the HDMI control compatible equipment connections or settings.

HDMI Device List

Displays the connected HDMI control compatible equipment.



You cannot use “HDMI Set-up” when an HDMI control compatible audio system is interlocked with the TV.

Timer Settings

Sets the timer to turn on/off the TV.

Sleep Timer

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

When “Sleep Timer” is activated, the ⏰ (Timer) indicator on the TV front panel lights up in orange.



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

On Timer

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

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

“**Time**”: Sets the time to turn on the TV.

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

“**Volume Set-up**”: Sets the volume for when the timer turns on the TV.

Clock Set

Allows you to adjust the clock manually. When the TV is receiving digital channels, the clock cannot be adjusted manually since it is set to the time code of the broadcasted signal.

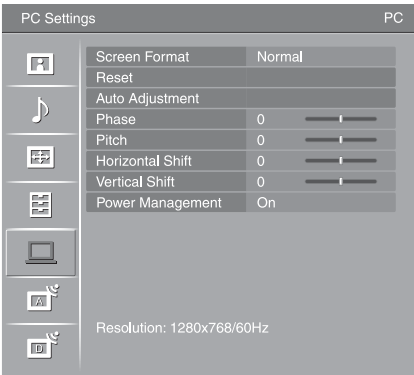
Power Saving

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

When “Picture Off” is selected, the picture is switched off and the ⏻ (Picture Off) indicator on the TV front panel lights up in green. The sound remains unchanged.

Light Sensor	“On”: Automatically optimizes the picture settings according to the ambient light in the room. “Off”: Turns off the “Light Sensor” feature.  Be sure not to put anything over the sensor, as its function may be affected. See page 12 for further information on the sensor.
Product Information	Displays your TV’s product information.
All Reset	Resets all settings to the factory settings and then displays the “Auto Start-up” screen.  • Be sure not to turn the TV off during this period (it takes about 30 seconds) or press any buttons. • All settings, including Digital Favourite list, country/region, language, auto tuned channels, etc. will be reset.

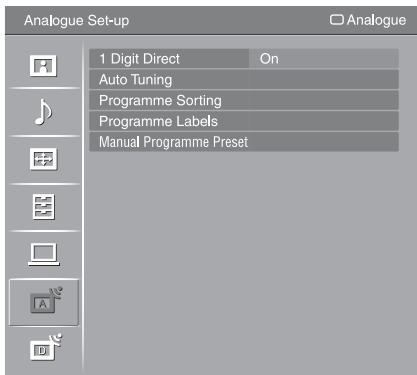
PC Settings menu



You can select the options listed below on the “PC Settings” menu. To select options in “Settings”, refer to “Navigating through menus” (page 22).

Screen Format	Selects a screen format for displaying input from your PC. “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.
Reset	Resets the PC settings except “Screen Format” and “Power Management” to the factory settings.
Auto Adjustment	Automatically adjusts the display position and phase of the picture when the TV receives an input signal from the connected PC.  “Auto Adjustment” may not work well with certain input signals. In such cases, manually adjust “Phase”, “Horizontal Shift” and “Vertical Shift”.
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.
Power Management	Switches the TV to standby mode if no signal is received for 30 seconds.

Analogue Set-up menu



You can select the options listed below on the “Analogue Set-up” menu. To select options in “Settings”, refer to “Navigating through menus” (page 22).

1 Digit Direct

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



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 analogue channels.

This option allows you to retune the TV after moving house, or to search for new channels that have been launched by broadcasters.

Programme Sorting

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

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

Programme 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. (Names for channels are usually taken automatically from Analogue Text (if available).)

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

If you input a wrong character

Press / to select the wrong character. Then, press / to select the correct character.

To delete all the characters

Select “Reset”, then press .

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

Continued

Manual Programme Preset

Before selecting “Label”/“AFT”/“LNA”/“Audio Filter”/“Skip”/“Decoder”, press PROG +/- to select the programme number with the channel. You cannot select a programme number that is set to “Skip” (page 35).

Programme/System/Channel

Presets programme channels manually.

- 1 Press $\uparrow/\downarrow$ to select “Programme”, then press $\oplus$.
- 2 Press $\uparrow/\downarrow$ to select the programme number you want to manually tune (if tuning a VCR, select channel 00), then press RETURN.
- 3 Press $\uparrow/\downarrow$ to select “System”, then press $\oplus$.
- 4 Press $\uparrow/\downarrow$ to select one of the following TV broadcast systems, then press RETURN.
 - B/G:** For western European countries/regions
 - I:** For the United Kingdom
 - D/K:** For eastern European countries/regions
 - L:** For France
- 5 Press $\uparrow/\downarrow$ to select “Channel”, then press $\oplus$.
- 6 Press $\uparrow/\downarrow$ to select “S” (for cable channels) or “C” (for terrestrial channels), then press $\Rightarrow$.



“S” is not available when “United Kingdom” is selected for “Country” (page 6).

- 7 Tune the channels as follows:

If you do not know the channel number (frequency)

Press $\uparrow/\downarrow$ to search for the next available channel. When a channel has been found, the search will stop. To continue searching, press $\uparrow/\downarrow$.

If you know the channel number (frequency)

Press the number buttons to enter the channel number of the broadcast you want or your VCR channel number.

- 8 Press $\oplus$ to jump to “Confirm”, then press $\oplus$.
- 9 Press $\downarrow$ to select “OK”, then press $\oplus$.

Repeat the procedure above to preset other channels manually.

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 “Programme Labels” (page 33).

AFT

Allows you to fine-tune the selected programme 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.

LNA

Improves the picture quality for individual channels in the case of very weak broadcast signals (noisy picture).

If you cannot see any improvement in the picture quality even if you set to “On”, set this option to “Off” (factory setting).

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 programmes.

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



You cannot receive stereo or dual sound when “Low” or “High” is selected.

Skip

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

Decoder

Shows and records the scrambled channel selected when using a decoder connected directly to scart connector  1, or to scart connector  2 via a VCR.

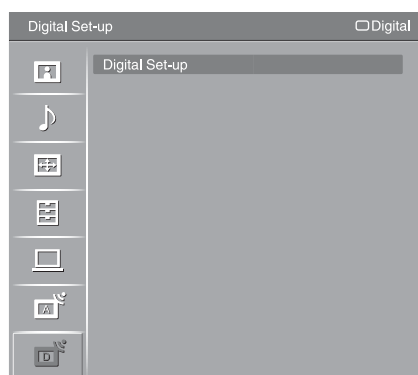


This option is not available when “United Kingdom” is selected for “Country” (page 6).

Confirm

Saves changes made to the “Manual Programme Preset” settings.

Digital Set-up menu DV3



You can select the options listed below on the “Digital Set-up” menu. To select options in “Settings”, refer to “Navigating through menus” (page 22).



Some functions may not be available in some countries/regions.

Digital Tuning

Digital Auto Tuning

Tunes in the available digital channels.

This option allows you to retune the TV after moving house, or to search for new channels that have been launched by broadcasters. For details, see “Auto tuning the TV” on page 6.

Programme List Edit

Removes any unwanted digital channels stored on the TV, and changes the order of the digital channels stored on the TV.

- 1 Press $\uparrow/\downarrow$ to select the channel you want to remove or move to a new position.

Press the number buttons to enter the known three-digit programme number of the broadcast you want.

- 2 Remove or change the order of the digital channels as follows:

To remove the digital channel

Press $\oplus$. After a confirmation message appears, press $\leftarrow$ to select “Yes”, then press $\oplus$.

To change the order of the digital channels

Press $\rightleftarrows$, then press $\uparrow/\downarrow$ to select the new position for the channel and press $\leftarrow$.

- 3 Press RETURN.

Digital Manual Tuning

Tunes the digital channels manually. This feature is available when “Digital Auto Tuning” is set to “Antenna”.

- 1 Press the number button to select the channel number you want to manually tune, then press $\uparrow/\downarrow$ to tune the channel.
- 2 When the available channels are found, press $\uparrow/\downarrow$ to select the channel you want to store, then press $\oplus$.
- 3 Press $\uparrow/\downarrow$ to select the programme number where you want to store the new channel, then press $\oplus$.

Repeat the above procedure to manually tune other channels.

Digital Set-up

Subtitle Set-up

“Subtitle Setting”: When “For Hard Of Hearing” is selected, some visual aids may also be displayed with the subtitles (if TV channels broadcast such information).

“Subtitle Language”: Selects which language subtitles are displayed in.

Audio Set-up

“Audio Type”: Switches to broadcast for the hearing impaired when “For Hard Of Hearing” is selected.

“Audio Language”: Selects the language used for a programme. Some digital channels may broadcast several audio languages for a programme.

“Audio Description”: Provides audio description (narration) of visual information, if TV channels broadcast such information.

“Mixing Level”: Adjusts the TV main audio and Audio Description output levels.

Banner Mode

“Basic”: Displays programme information with a digital banner.

“Full”: Displays programme information with a digital banner, and displays detailed programme information below that banner.

Radio Display

The screen wallpaper is displayed when listening to a radio broadcast. You can select the screen wallpaper colour, or display a random colour. To cancel the screen wallpaper display temporarily, press any button.

Parental Lock

Sets an age restriction for programmes. Any programme that exceeds the age restriction can only be watched after a PIN Code is entered correctly.

1 Press the number buttons to enter your existing PIN code.

If you have not previously set a PIN, a PIN code entry screen appears. Follow the instructions of “PIN Code” below.

2 Press $\uparrow/\downarrow$ to select the age restriction or “None” (for unrestricted watching), then press $\oplus$.

3 Press RETURN.

PIN Code

To set your PIN for the first time

1 Press the number buttons to enter the new PIN code.

2 Press RETURN.

To change your PIN

1 Press the number buttons to enter your existing PIN code.

2 Press the number buttons to enter the new PIN code.

3 Press RETURN.



PIN code 9999 is always accepted.

Technical Set-up

“Auto Service Update”: Enables the TV to detect and store new digital services as they become available.

“Software Download”: Enables the TV to automatically receive software updates free through your existing aerial/cable (when issued). It is recommended that this option be set to “On” at all times. If you do not want your software to be updated, set this option to “Off”.

“System Information”: Displays the current software version and the signal level.

“Time Zone”: Allows you to manually select the time zone you are in, if it is not the same as the default time zone setting for your country/region.

Continued

“Auto DST”: Sets whether or not to automatically switch between summer time and winter time.

- “Off”: The time is displayed according to the time difference set by “Time Zone”.
- “On”: Automatically switches between summer time and winter time according to the calendar.

CA Module Set-up

Allows you to access a pay TV service once you obtain a Conditional Access Module (CAM) and a view card. See page 18 for the location of the  (PCMCIA) socket.

Specifications

Model name		KDL-40D3550/40D3500	KDL-46D3550/46D3500
System			
Panel System		LCD (Liquid Crystal Display) Panel	
TV System		Analogue: Depending on your country/region selection: B/G/H, D/K, L, I Digital: DVB-T/DVB-C	
Colour/Video System		Analogue: PAL, SECAM, NTSC 3.58, 4.43 (only Video In) Digital: MPEG-2 MP@ML	
Channel Coverage		Analogue: VHF: E2–E12/UHF: E21–E69/CATV: S1–S20/HYPER: S21–S41 D/K: R1–R12, R21–R69/L: F2–F10, B–Q, F21–F69/I: UHF B21–B69 Digital: VHF/UHF	
Sound Output		10 W + 10 W	
Input/Output jacks			
Aerial/Cable		75 ohm external terminal for VHF/UHF	
 1		21-pin scart connector (CENELEC standard) including audio/video input, RGB input, and TV audio/video output.	
 2 (SmartLink)		21-pin scart connector (CENELEC standard) including audio/video input, RGB input, selectable audio/video output, and SmartLink interface.	
 3		Supported formats: 1080p, 1080i, 720p, 576p, 576i, 480p, 480i Y: 1 Vp-p, 75 ohms, 0.3V negative sync/Pb/Cb: 0.7 Vp-p, 75 ohms/ Pr/Cr: 0.7 Vp-p, 75 ohms	
 3		Audio input (phono jacks): 500 mVrms, Impedance: 47 kilohms	
HDMI IN 4, 5		Video: 1080/24p, 1080p, 1080i, 720p, 576p, 576i, 480p, 480i Audio: Two channel linear PCM 32, 44.1 and 48 kHz, 16, 20 and 24 bits Analogue audio input (phono jacks): 500 mVrms, Impedance: 47 kilohms (HDMI IN 5 only)	
 6		S video input (4-pin mini DIN)	
 6		Video input (phono jack)	
 6		Audio input (phono jacks)	
 6		Audio output (phono jacks)	
PC 		PC Input (D-sub 15-pin) (see page 40) G: 0.7 Vp-p, 75 ohms, non Sync on Green/B: 0.7 Vp-p, 75 ohms/ R: 0.7 Vp-p, 75 ohms/HD: 1-5 Vp-p/VD: 1-5 Vp-p  PC audio input (minijack)	
		Headphones jack	
		CAM (Conditional Access Module) slot	
Power and others			
Power Requirements		220–240 V AC, 50 Hz	
Screen Size		40 inches (Approx. 101.6 cm measured diagonally)	46 inches (Approx. 116.8 cm measured diagonally)
Display Resolution		1,920 dots (horizontal) × 1,080 lines (vertical)	
Power Consumption		193 W	238 W
Standby Power Consumption*		0.3 W	
Dimensions (w × h × d)	(with stand)	Approx. 981 × 692 × 265 mm	Approx. 1,114 × 778 × 306 mm
	(without stand)	Approx. 981 × 643 × 110 mm	Approx. 1,114 × 730 × 115 mm
Mass	(with stand)	Approx. 24.0 kg	Approx. 30.5 kg
	(without stand)	Approx. 20.5 kg	Approx. 26.5 kg
Supplied Accessories		Refer to “1: Checking the accessories” on page 4.	
Optional Accessories		Wall-Mount Bracket SU-WL500	
		TV stand SU-FL300M	

* Specified standby power is reached after the TV finishes necessary internal processes.

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	70	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
WXGA	1280	768	47.4	60	VESA
	1280	768	47.8	60	VESA
	1360	768	47.7	60	VESA

- This TV's PC input does not support Sync on Green or Composite Sync.
- This TV's PC input does not support interlaced signals.
- For the best picture quality, it is recommended to use the signals (boldfaced) 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.

Troubleshooting

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

When it is flashing

The self-diagnosis function is activated.

- 1 Count how many  (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 top edge of the TV to turn it off, disconnect the mains lead, and inform your dealer or Sony service centre 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

No picture (screen is dark) and no sound

- Check the aerial/cable connection.
- Connect the TV to the mains, and press  on the top edge of the TV.
- If the  (standby) indicator lights up in red, press .

No picture or no menu information from equipment connected to the scart connector

- Press  to display the connected equipment list, then select the desired input.
- Check the connection between the optional equipment and the TV.

Double images or ghosting

- Check the aerial/cable connection.
- Check the aerial location and direction.

Only snow and noise appear on the screen

- Check if the aerial is broken or bent.
- Check if the aerial 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)

- 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 aerial/cable is connected using the supplied coaxial cable.
- Keep the aerial/cable TV cable away from other connecting cables.

Picture or sound noise when viewing a TV channel

- Adjust “AFT” (Automatic Fine Tuning) to obtain better picture reception (page 34).

Some tiny black points and/or bright points appear on the screen

- 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.

The picture contours are disrupted

- Select “Auto 1” or “Auto 2” in “Film Mode” (page 28).

No colour on programmes

- Select “Reset” (page 23).

No colour or irregular colour when viewing a signal from the 3 sockets

- Check the connection of the  3 sockets and check if each sockets are firmly seated in their respective sockets.

Sound

No sound, but good picture

- Press  +/- or  (Mute).
- Check if the “Speaker” is set to “TV Speaker” (page 29).

Channels

The desired channel cannot be selected

- Switch between digital and analogue mode and select the desired digital/analogue channel.

Some channels are blank

- Scrambled/Subscription only channel. Subscribe to the pay TV service.
- Channel is used only for data (no picture or sound).
- Contact the broadcaster for transmission details.

Digital channels are not displayed

- Contact a local installer to find out if digital transmissions are provided in your area.
- Upgrade to a higher gain aerial.

General

The TV turns off automatically (the TV enters standby mode)

- Check if the “Sleep Timer” is activated, or confirm the “Duration” setting of “On Timer” (page 30).
- If no signal is received and no operation is performed in the TV mode for 10 minutes, the TV automatically switches to standby mode.

The TV turns on automatically

- Check if the “On Timer” is activated (page 30).

Some input sources cannot be selected

- Select “AV Preset” and cancel “Skip” of the input source (page 29).

The remote does not function

- Replace the batteries.

The “Store Display Mode: On” message appears on the screen

- Select “All Reset” in the “Set-up” menu (page 31).

Continued

HDMI equipment does not appear on “HDMI Device List”

- Check that your equipment is HDMI control compatible equipment.

Not all channels are tuned

- Check support web site for cable provide information.
<http://support.sony-europe.com/TV/DVBC/>

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<http://www.sony.net/>

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