SONY

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-40S30xx KDL-40D26xx KDL-40T30xx KDL-32D27xx KDL-32T28xx KDL-40D27xx KDL-40T28xx KDL-32S30xx KDL-32D26xx KDL-32T30xx



For useful information about Sony products http://www.sony-europe.com/myproduct

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, a 10 AMP fuse approved by ASTA or BSI to BS 1362 (i.e., marked with ((a)) or ((C))) must be used. When an alternative type of plug is used it should be fitted with a 10 AMP FUSE (KDL-32D27xx, KDL-32T28xx, KDL-32S30xx, KDL-32D26xx, KDL-32T30xx), 13 AMP FUSE (KDL-40D27xx, KDL-40T28xx, KDL-40S30xx, KDL-40D26xx, KDL-40T30xx) otherwise the circuit should be protected by a 10 AMP FUSE (KDL-32D27xx, KDL-32T28xx, KDL-32S30xx, KDL-32D26xx, KDL-32T30xx), 13 AMP FUSE (KDL-40D27xx, KDL-40T28xx, KDL-40OS30xx, KDL-40D26xx, KDL-40T30xx) 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.

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 (DCB) 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 a service 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 all providers.
- For more information about DVB-C functionality please see our cable support site:

http://support.sony-europe.com/tv/DVBC.

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.
- Manufactured under license from Dolby Laboratories.
 "Dolby" and the double-D symbol D are trademarks of Dolby Laboratories.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.







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The illustrations used in this manual are of the KDL-32D2710 unless otherwise state.

The "xx" that appears on the model name, corresponds to two numeric digits related to colour variation.

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CVB : for digital channels only

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Start-up Guide

1: Checking the accessories

Mains lead (1) (only for KDL-40S30xx, KDL-40D27xx, KDL-40D26xx, KDL-40T28xx, KDL40T30xx)

Coaxial cable* (1) (only for KDL-40S30xx, KDL-40D27xx, KDL-40D26xx, KDL-40T28xx, KDL40T30xx)

Remote RM-ED009 (1)

Size AA batteries (R6 type) (2)

Support belt (1) and screws (2)

To insert batteries into the remote

Push and lift the cover to open.



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- · 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 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/ VCR

Connecting an aerial/cable

Terrestrial signal or cable



Connecting an aerial/cable and VCR



3: Preventing the TV from toppling over



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For models with swivel stand (KDL-32T30xx, KDL-40T30xx) do not tense the support belt.

4: Connecting the cables



5: Bundling the cables



6: Selecting the language and country/region





- 1 Connect the TV to your mains socket (220-240V AC, 50Hz).
- 2 Press () on the TV (top side). When you switch 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 ⊕.

Auto Start Up	
Language Country	English Nederlands Français Italiano Deutsch EXATYVIKĞ Español Português Polski
Select: 1 Select:	

Continued

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



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

7: Auto-tuning the TV

1 Before you start auto-tuning the TV, insert a pre-recorded tape into the VCR connected to the TV (page 4) 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.

2 Press ⊕.



3 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 Cable connection" (page 6).

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/cable connection and then press 🕀 to start auto-tuning again.

4 When the Programme Sorting menu appears on the screen, follow the steps of "Programme Sorting" (page 26).

If you do not change the order in which the analogue channels are stored on the TV, go to step 5.

5 Press MENU to exit.

The TV has now tuned in all the available channels.

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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 5.

To tune the TV for Cable connection

- 1 press ⊕.
- 2 Press ☆/☆ to select "Quick Scan" or "Full Scan", then press ⊕.

"Quick Scan" : channels are tuned according to the cable operator information within the broadcast signal.

Recommended setting for "Frequency", "Network ID" and "Symbol Rate" is "Auto".

This option is recommended for fast tuning when supported by your cable operator.

If the "Quick Scan" does not tune, please use the "Full Scan" method below.

"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 support web site: http://support.sony-europe.com/TV/DVBC

3 Press ⇔/⇔/∜ to select "Start".

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

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

Detaching the Table-Top Stand from the TV

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Do not remove the Table-Top Stand for any reason other than to wall-mount the TV.



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

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.
- When lifting or moving the TV set, hold it firmly from the bottom. Do not put stress on the LCD panel.
- 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.

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 wallmount bracket in order to provide adequate air-circulation.

Installed on the wall



Leave at least this space around the set.





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.

Installed with stand

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 (only for KDL-40S30xx, KDL-40D27xx, KDL-40D26xx, KDL-40T28xx, KDL-40T30xx).

- 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 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, near flammable objects (candles, etc).

Environment:

Places that are hot, humid, or excessively dusty; where insects may enter; where it might be exposed to mechanical vibration; unstable locations; near water, rain, moisture or smoke.

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 contains 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

6



- **1** I/\bigcirc TV standby
 - Turns the TV on and off from standby mode.
- A/B Dual Sound (page 22)
- Oloured buttons (page 12, 13, 15)
- ④ ∋/) Input select / Text hold
 - In TV mode: Selects the input source from equipment connected to the TV sockets (page 17).
 - In Text mode (page 12): Holds the current page.
- **5** ☆/�/☆/⇔/⊕

6 TOOLS (page 12, 18)

Enables you to access various viewing options and change/make adjustments according to the source and screen format.

MENU (page 19)

③ 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 videos are automatically set.

Number buttons 0

- · In TV mode: Selects channels. For channel numbers 10 and above, enter the second and third digit quickly.
- In Text mode: Enters the three digit page number to select the page.

🛈 🔾 – Previous channel

Returns to the previous channel watched (for more than five seconds).

- In TV mode: Selects the next (+) or previous (-) channel.
- In Text mode (page 12): Selects the next (a) or previous (a) page.

• Mute the sound

- 🚯 🖂 +/- Volume
- 12 = Text (page 12)
- DIGITAL Digital mode (page 11)
- ANALOG Analogue mode (page 11)

Returns to the previous screen of any displayed menu.

- 13 m EPG (Digital Electronic Programme Guide) (page 13)

Freezes the TV picture.

④ ⊕/? – 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 Text mode (page 12): Reveals hidden information (e.g. answers to a quiz). Ϋ́
- 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.

Overview of the TV buttons and indicators



1 MENU (page 19)

② → / → – Input select / OK

- In TV mode: Selects the input source from equipment connected to the TV sockets (page 17).
- 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 (●).

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

6 🕛 – Power

Turns the TV on or off.

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

🗿 🖾 🕘 – Picture Off / Timer indicator

- Lights up in green when the picture is switched off (page 24).
- Lights up in orange when the timer is set (page 25).

🖸 🕛 – Standby indicator

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

I 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 13).
- Lights up in red during the timer recording.

Remote control sensor

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

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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

Watching TV





1 Press ⁽¹⁾ on the TV (top side) to switch on the TV.

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

2 Press DIGITAL to switch to digital mode or 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 within two seconds.

To select a digital channel using the Digital Electronic Programme Guide (EPG), see page 13.

In digital mode

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

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

Additional operations

То	Do this
Turn on the TV from Standby mode without sound	Press ⁿ X. Press — +/- to set the volume level.
Adjust the volume	Press → + (increase)/ - (decrease).
Access the Programme index table (in analogue mode only)	Press \oplus . To select an analogue channel, press Φ/Φ , then press \oplus .

Watching TV

Continued

To access Text

Press \blacksquare . Each time you press \blacksquare , 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 PROG +/-.

To hold a page, press - > / P.

To reveal hidden information, press (→ /?).

Å.

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.

Picture Freeze

Freezes the TV picture (e.g. to make a note of a telephone number or recipe).

- **1** Press 🖼 on the remote control.
- 2 Press ☆/☆/☆/☆ to adjust the position of the window.
- **3** Press \bowtie to remove the window.
- Ϋ́

Not available for - AV3, - AV4, - AV5, - AV7 and PC input.

To change the screen format manually to suit the broadcast

Press \bigoplus 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.

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- HD signal source pictures can only be displayed in "Wide" mode .
- 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 mode. In such a case, you can select "V-Size" using the "Screen" menu and adjust vertical size to make it visible.

Ϋ́

- When "Auto Format" is set to "On", the TV will automatically select the best mode to suit the broadcast (page 24).
- "You can adjust the position of the picture when selecting "Smart" (50Hz), "14:9" or "Zoom". Press 令/や to move up or down (e.g. to read subtitles).

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 20.
Sound Effect	See page 22.
Speaker	See page 23.
Audio Language (in digital mode only)	See page 30.
Subtitle Setting (in digital mode only)	See page 30.
Sleep Timer	See page 25.
Power Saving	See page 24.
System Information (in digital mode only)	Displays the system information screen.

Checking the Digital Electronic Programme Guide (EPG) DV3*

		16:00	16:30	17:00
	Lazy T Pini		Basil Brush	Blue Pet
	International	Bowls	Ready Stead	iy Co Th
	i Pira Pl	. Disney's T	Harry Hill's	. The Paul.
	Countdown	Deal		Richard &
	Death In Sma	II Doses		
	The Ri Tris	ha		Sally Jessy
	This is BBC T	HREE		
	No Event Info	rmation		
	This is BBC F			
	Undercove	Luton Airp	Entertainm.	. Live At FL
	Children of	Secret Agent		Gunpowd
	ER	Carry	On Up The K	hyber
Previous Ne:	×t	30 min viev	v Ca	tegory

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

Digital Electronic Programme Guide (EPG)

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

То	Do this
Watch a programme	Press $4/\sqrt[n]{} \ll 1$ to select the programme, then press \oplus .
Turn off the EPG	Press 🔟.
Sort the programme information by category – Category list	 Press the blue button. 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	 Press ☆/☆/☆/☆ to select the future programme you want to record, then press ⊕/②. Press ☆/☆ to select "Timer REC". Press ⊕ to set the TV and your VCR timers. A red ③ symbol appears by that programme's information. The ④ indicator on the TV front panel lights up in orange. ℃ To record the programme you are currently watching, press ⊕/③.
Set a programme to be displayed automatically on the screen when it starts – Reminder	 Press ☆/☆/☆/☆ to select the future programme you want to display, then press ⊕/? Press ☆/☆ to select "Reminder", then press ⊕. A ② symbol appears by that programme's information. The ③ 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.

То	Do this
Set the time and date of a programme you want to record – Manual timer REC	 Press ☆/☆/☆/☆ to select the future programme you want to record, then press ⊕/? Press ☆/☆ to select "Manual timer REC", then press ⊕. Press ☆/☆ to select the date, then press ¢. Set the start and stop time in the same way as in step 3. Press ☆/☆ to select the programme, then press ⊕. 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.
	To record the programme you are currently watching, press \textcircled{P} .
Cancel a recording/reminder – Timer list	1 Press ⊕/⑦.
– Timer list	2 Press Φ/Φ to select "Timer list", then press \oplus .
	3 Press ☆/☆ to select the programme you want to cancel, then press ⊕.
	4 Press $2/\sqrt[n]$ to select "Cancel Timer", then press \oplus . A display appears to confirm that you want to cancel the programme.
	5 Press $4/4$ to select "Yes", then press \oplus to confirm.

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• 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 may 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 30.

Using the Digital Favourite list DV3*



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.
- **3** Perform the desired operation as shown in the following table or displayed on the screen.

То	Do this
Create your Favourite list for the first	1 Press ⊕ to select "Yes".
time	2 Press yellow key to select favourite list.
	3 Press $\hat{\Omega}/\hat{\nabla}$ to select the channel you want to add, then press \oplus .
	Channels that are stored in the Favourite list are indicated by a \P symbol.
Watch a channel	1 Press yellow key to navigate through favourite lists.
	2 Press Φ/Φ to select the channel, then press \oplus .
Turn off the Favourite list	Press RETURN.
Add or remove channels in the currently	1 Press the blue button.
edited Favourite list	2 Press the yellow button to choose the 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	1 Press the blue button.
Favourite list	2 Press the yellow button to select the favourite list you want to edit.
	3 Press the blue button.
	4 Press $4/4$ to select "Yes", then press \oplus to confirm.

Connecting optional equipment

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



Continued

Viewing pictures from connected equipment

Switch 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

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

Press - (f) repeatedly until the desired input source (see below) appears on the screen.

Symbol on the screen	Description
-∋ AV1/⊡ AV1	To see the equipment connected to J .
-> AV2/ AV2	To see the equipment connected to K. SmartLink is a direct link between the TV and a VCR/DVD recorder.
- 💬 AV3	To see the equipment connected to I .
- AV4	HDMI IN 4*. To see the equipment connected to E .
AV5	HDMI IN 5*. To see the equipment connected to I . If the equipment has a DVI socket, connect the DVI socket to the HDMI IN socket through a DVI-HDMI adaptor interface (not supplied), and connect the equipment's audio out sockets to the audio in HDMI IN sockets.
- 💬 AV7	HDMI IN 7*.
* Ø	To see the equipment connected to C .

• Be sure to use only an HDMI cable that bears the HDMI logo.

• When HDMI control compatible equipment is connected, communication with the connected equipment is supported. Refer to page 18 to set up this communication.

• When connecting an audio system with HDMI socket, be sure to also connect to the HiFi socket.

Symbol on the screen	Description		
S-200 AV6 or -20 AV6	To see the equipment connected to \blacksquare $\dddot{\psi}$ To avoid picture noise, do not connect the camcorder to the video socket $-\textcircled{e}$ 6 and the S video socket S- \textcircled{e} 6 at the same time. If you connect mono equipment, connect to the L socket -e 6.		
- PC	To see the equipment connected to G č It is recommended to use a PC cable with ferrites.		

To connect	Do this			
Headphones A	Connect to the \bigcap socket to listen to sound from the TV on headphones.			
Conditional Access Module (CAM)	To use Pay Per View services. For details, refer to the instruction manual supplied with your CAM. To use the CAM, remove the rubber cover from the CAM slot. Switch off the TV when inserting your CAM into the CAM slot. When you do not use the CAM, we recommend that you replace the cover on the CAM slot.			
Hi-Fi audio Connect to the audio output so				

H1-F1 audio	Connect to the audio output sockets
equipment H	G+ to listen to the sound from the TV on Hi-Fi audio equipment.

Additional operations

То	Do this
Return to normal TV mode	Press DIGITAL or ANALOG.
Access the Input signal index table (except analog 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 ¤X. 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 20.
Display Mode (in PC input mode only)	See page 20.
Sound Effect	See page 22.
Speaker	See page 23.
PIP (in PC input mode only)	See page 18.
H Centre (in PC input mode only)	See page 25.
V Lines (in PC input mode only)	See page 25.
Sleep Timer (except PC input mode)	See page 25.
Power Saving	See page 24.

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 16), and make sure that images from a PC appear on the screen.

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You cannot display resolutions higher than WXGA (1280 \times 768 pixels).

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 $\frac{1}{\sqrt{2}}$ 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.

Ϋ́

 $\dot{Y}\text{ou}$ can switch the audible picture by selecting "PC Sound/ TV Sound" 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, in addition to the HDMI cable, be sure to also connect the audio output socket \bigcirc - of the TV and the audio system. For details, see page 16.

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 (page 27) 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 ☆/录 to select an option, then press ⊕.

To exit the menu, press MENU.

	MENU
\heartsuit	Digital Favourites
A	Analogue
D	Digital
	Digital EPG
-2	External Inputs
-	Settings
Select: 1	Enter: 🖶 Exit: MENU

1 Digital Favourites*

Displays the Favourite list. For details about settings, see page 15.



Returns to the last viewed analogue channel.

O Digital*

Returns to the last viewed digital channel.

Digital EPG*

Displays the Digital Electronic Programme Guide (EPG). For details about settings, see page 13.

6 External Inputs

Selects equipment connected to your TV.

• To watch the desired external input, select the input source, then press \oplus .

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 20 to 30. \not

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 Adjustment menu

	Picture Adjustm	nent				
R	Picture Mode			Cinema		
	Backlight			5		
Ď	Contrast			Max		
J*	Brightness			50		
111	Colour			50		
	Hue			0		
	Sharpness			15		
	Colour Tone			Warm		
	Noise Reduction	on		Auto		
	Advanced Sett	ings				
	Reset					
	Back: 🗲	Select: 🕈 🛡	Enter:	æ	Exit: MENU	

You can select the options listed below on the Picture menu. To select options in "Settings", see "Navigating through menus" (page 19).

Picture ModeSelects the picture mode except for PC input source. "Vivid": For enhanced picture contrast and sharpness. "Standard": For standard picture. Recommended for home entertaint "Cinema": For viewing film-based content. Most suitable for viewing like environment. This picture setting was developed in collaboration			
Display Mode (only in PC mode)	Pictures Entertainment to faithfully reproduce movies as intended by their creators.Selects the display mode for PC input source."Video": For video images."Text": For text, charts or tables.		
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. ¨ "Hue" can only be adjusted for an NTSC colour signal (e.g., U.S.A. video tapes).		
Sharpness	Sharpens or softens the picture.		
Colour Tone	Adjusts the whiteness of the picture. "Cool": Gives the white colours a blue tint. "Neutral": Gives the white colours a neutral tint. "Warm": Gives the white colours a red tint. "Warm": Gives the white colours a red tint. "Warm": Col		

Noise Reduction	Reduces the picture noise (snowy picture) in a weak broadcast signal. "Auto": Automatically reduces the picture noise (in analogue mode only). "High/Mid/Low": Modifies the effect of the noise reduction. "Off": Turns off the "Noise Reduction" feature. "Gf": Turns off the "Noise Reduction" feature. "Gf": Auto" is not available for - AV3, - AV4, - AV5, - AV7 and PC mode.	
Advanced Settings	 Customizes the Picture function in more detail. When you set "Picture Mode" to "Cinema" or "Standard", you can set/change these settings. "Colour Space": Changes the colour reproduction gamut. "Wide" reproduces the vivid colour and "Standard" reproduces the standard colour. "Live Colour": Makes colours more vivid. "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. 	
Reset	Resets all picture settings except "Picture Mode" and "Display Mode" (only in PC mode) to the factory settings.	

Brightness", "Colour", "Sharpness" and "Advanced Settings" are not available when "Picture Mode" is set to "Vivid" or when "Display Mode" is set to "text".

Continued

Sound Adjustment menu

	Sound Adjustm	ent			
R	Sound Effect			Standard	
	Treble			50	
Þ	Bass			50	
J'	Balance			0	
222	Reset				
	Dual Sound			Mono	
	Auto Volume			On	
	Speaker			TV Speaker	•
	Back: 🗲	Select: 🕈 🖶	Enter:	Ð	Exit: MENU

You can select the options listed below on the Sound menu. To select options in "Settings", see "Navigating through menus" (page 19).

Sound Effect	 Selects the sound mode. "Standard": Enhances clarity, detail, and sound presence by using "BBE High definition Sound System." "Dynamic": Intensifies clarity and sound presence for better intelligibility and musical realism by using the "BBE High definition Sound System." "BBE ViVA": BBE ViVA Sound provides musically accurate natural 3D image with Hi-Fi sound. The clarity of the sound is improved by BBE while the width depth and height of sound image are expanded by BBE's proprietary 3D sound process. BBE ViVA Sound is compatible with all TV programs including news, music, dramas, movies, sports and electronic games. "Dolby Virtual": Uses the TV speakers to simulate the surround effect produced by a multi channel system. "Off": Flat response. Also allows you to store your preferred settings.
	If you set "Auto Volume" to "On", "Dolby Virtual" changes to "Standard".If headphones are connected, "Sound Effect" changes to "Off".
Treble	Adjusts higher-pitched sounds.
Bass	Adjusts lower-pitched sounds.
Balance	Emphasizes left or right speaker balance.
Reset	Resets all the sound settings to the factory settings.
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".
Auto Volume	Keeps a constant volume level even when volume level gaps occur (e.g., adverts tend to be louder than programmes).

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.

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"Sound Effect", "Treble", "Bass", "Balance" and "Auto Volume" are not available when "Speaker" is set to "Audio System".

Continued

Features menu

	Features				
R	Screen				
	Power Saving			Standard	
♪	AV2 Output			TV	
	RGB Centre			0	
222	PC Adjustment				
	Timer				
÷					
	Back: 🗲	Select: 🕈 🖶	Enter:	æ	Exit: MENU

You can select the options listed below on the Features menu. To select options in "Settings", see "Navigating through menus" (page 19).

Screen	 Changes the screen format. "Auto Format": Automatically changes the screen format according to the broadcast signal. "Screen Format": For details about the screen format, see page 12 "V-Size": Adjust the vertical size of the picture when "Screen Format" is set to "Smart". "V Even if you have selected "On" or "Off" in "Auto Format", you can always modify the format of the screen by pressing ∰ repeatedly. "Auto Format" is available for PAL and SECAM signals only.
Power Saving	Selects the power saving mode to reduce the power consumption of the TV. "Standard": Default settings. "Reduce": Reduces the power consumption of the TV. "Picture Off": Switches off the picture. You can listen to the sound with the picture off.
AV2 Output	Sets a signal to be output through the socket labelled TV. If you connect a VCR to the →/ 2 socket, you can then record from the equipment connected to other sockets of the TV. "TV": Outputs a broadcast. "Auto": Outputs whatever is being viewed on the screen. Not available for AV3, AV4, AV5, AV7 and PC.
RGB Centre	Adjusts the horizontal picture position so that the picture is in the middle of the screen. $\ddot{\mathbf{v}}$ This option is only available if an RGB source has been connected to the Scarts connectors $\mathbf{v} + 1/\mathbf{v} + 2/\mathbf{v} + 2$ on the rear of the TV.

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PC Adjustment	Customizes the TV screen as a PC monitor.
	 ☆ ☆ This option is only available if you are in PC Mode. **Phase*: Adjust the screen when a part of a displayed text or image is not clear. **Pitch*: Enlarges or shrinkes the screen size horizontally. **H Centre*: Moves the screen to the left or to the right. **V Lines*: Corrects the picture lines while viewing an RGB input signal from the PC → connector. **Power saving*: Turns to standby mode if no PC signal is received. **Reset*: Resets to the factory settings.
Timer	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 the Sleep Timer is activated, the $$ (Timer) indicator on the TV (front) lights up in orange.
	Ŷ
	 If you switch off the TV and switch it on again, "Sleep Timer" is reset to "Off". "Sleep timer will end soon. Power will be turned off" appears on the screen one minute before the TV switches to standby mode.
	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.
	Timer
	Sets the timer to turn on/off the TV. "Timer Mode": Selects the desired period. "On Time": Sets the time to turn on the TV.

"Off Time": Sets the time to turn off the TV.

Set-up menu



You can select the options listed below on the Set-up menu. To select options in "Settings", see "Navigating through menus" (page 19).

Auto Start-Up	Starts the "first time operation menu" 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.			
Auto Tuning	Tunes in all the available analogue channels. Usually you do not need to do this operation because the channels are 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).			
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 ⊕. 			
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 an input source that is not connected to any equipment. 1 Press ☆/☆ to select the desired input source, then press ⊕ . 2 Press ☆/☆ to select the desired option below, then press ⊕ . AV1 (or AV2/ AV3/ AV4/AV5/AV6/AV7/ PC), VIDEO, DVD, CABLE, GAME, CAM, SAT: Uses one of the preset labels to assign a name to connected equipment. "Edit": Creates your own label. 1 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. 2 Repeat the procedure in step 1 until the name is completed. 3 Select "OK", then press ⊕. "Skip": Skips an input source that is not connected to any equipment when you press \$/\$ to select the input source. 			

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": This 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 on and 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 can be connected, and up to 5 equipment 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 equipments.				
Sound Offset	Sets an independent volume level to each equipment connected to the TV.				
Manual Programme Preset	 Sets an independent volume level to each equipment connected to the TV. Before selecting "Label"/"AFT"/"Audio Filter"/"LNA"/"Skip"/"Decoder", press				

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".

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You cannot receive stereo or dual sound when "Low" or "High" is selected. "Audio Filter" is not available when "System" is set to "L".

LNA

Improves the picture quality in case of very weak broadcast signal (noisy picture).

Skip

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

Decoder

Views and records the scrambled channel selected when using a decoder connected directly to scart connector $\textcircled{}{}^{+}/-\textcircled{}{}^{-}$ 1, or to scart connector $\textcircled{}^{+}/-\textcircled{}{}^{-}$ 2 via a VCR.

Depending on the country/region selected for "Country" (page 5), this option may not be available.

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 19).

Þ

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-tunning 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 Φ/Φ 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 \Leftrightarrow to select "Yes", then press \oplus **To change the order of the digital channels**

Press \Rightarrow , then press 4/2 to select the new position for the channel and press \Rightarrow .

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 ∂/∂ to tune the channel.
- **2** When the available channels are found, press Φ/Φ to select the channel you want to store, then press \oplus .
- 3 Press ☆/☆ to select the programme number where you want to store the new channel, then press ⊕.

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.

This option is only available when "Audio Description" is set to "On".

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 after 20 seconds without pressing any button.

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 ☆/☆ to select the age restriction or "None" (for unrestricted watching), then press ⊕.
- 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.

Å.

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.

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

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

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 16 for the location of the 🖾 (PCMCIA) socket.

Additional Information

Specifications

Display Unit

Power Requirements: 220-240 V AC, 50 Hz Screen Size: KDL-40xxxxx: 40 inches KDL-32xxxxx: 32 inches Display Resolution: 1,366 dots (horizontal) × 768 lines (vertical) Power Consumption: KDL-40xxxxx: 170 W or less KDL-32xxxxx: 150 W or less Standby Power Consumption*: 0,6 W or less * Specified standby power is reached after the TV finishes necessary internal processes. Dimensions ($w \times h \times d$): KDL-40xxxxx: Approx: 981 x 696 x 265 mm (with stand) Approx: 981 x 643 x 110 mm (without stand) KDL-32xxxxx: Approx: 790 x 581 x 214 mm (with stand) Approx: 790 x 530 x 100 mm (without stand) Mass: KDL-40xxxxx: Approx: 24,0 kg (with stand) Approx: 20,5 kg (without stand) KDL-40T30xx: Approx: 23,5 kg (with stand) Approx: 20,5 kg (without stand) KDL-32xxxxx: Approx: 16,0 kg (with stand) Approx: 14,0 kg (without stand) 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

Aerial

```
75 ohm external terminal for VHF/UHF
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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/UH	F

Terminals

(→)/→○ 1

21-jin 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: 1080i, 720p, 576p, 576i, 480p, 480i Y: 1 Vp-p, 75 ohms, 0.3V negative sync P_B/C_B: 0.7 Vp-p, 75 ohms P_R/C_R: 0.7 Vp-p, 75 ohms

-Đ3

Audio input (phono jacks) 500 mVrms Impedance: 47 kilo ohms HDMI IN 4, 5, 7

- Video: 1080i, 720p, 576p, 576i, 480p, 480i
- Audio: Two channel linear PCM
- 32, 44.1 and 48 kHz, 16, 20 and 24 bits PC (see table)

Analogue audio (phono jacks):

- 500 mVrms, Impedance 47 kilohms (HDMI IN 5 only)
- S-506 S video input (4-pin mini DIN)
- 6 Video input (phono jack)
- -56 Audio input (phono jacks)
- C- Audio output (Left/Right) (phono jacks)
- PC PC Input (15 Dsub) (see page 16) G: 0.7 Vp-p, 75 ohms, non Sync on Green B: 0.7 Vp-p, 75 ohms, non Sync on Green R: 0.7 Vp-p, 75 ohms, non Sync on Green HD: 1-5 Vp-p VD: 1-5 Vp-p - PC audio input (minijack)

∩ Headphones jack

CAM (Conditional Access Module) slot

Continued

Sound Output

10 W + 10 W (RMS)

Optional Accessories

Wall-Mount Bracket SU-WL500.

Design and specifications are subject to change without notice.

PC Input Signal Reference Chart for PC 🛶

Signals	Horizontal (Pixel)	Vertical (Line)	Horizontal frequency (kHz)	Vertical frequency (Hz)	Standard
VGA	640	480	31.5	60	VGA
SVGA	800	600	37.9	60	VESA Guidelines
XGA	1024	768	48.4	60	VESA Guidelines
WXGA	1280	768	47.4	60	VESA
	1280	768	47.8	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.

• This TV's PC input supports signals in the above chart with a 60 Hz vertical frequency. For other signals, you will see the message "NO SYNC".

PC Input Signal Reference Chart for HDMI IN 4, 5,7

Signals	Horizontal (Pixel)	Vertical (Line)	Horizontal frequency (kHz)	Vertical frequency (Hz)	Standard
VGA	640	480	31.5	60	VGA
SVGA	800	600	37.9	60	VESA Guidelines
XGA	1024	768	48.4	60	VESA Guidelines
WXGA	1280	768	47.4	60	VESA
WXGA	1280	768	47.8	60	VESA
WXGA	1360	768	47.7	60	VESA

Troubleshooting

Check whether the $\mathop{\scriptstyle (\!\!\!\!\)}^{\scriptstyle (}$ (standby) indicator is flashing in red.

When it is flashing

The self-diagnosis function is activated.

- Count how many (b) (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 (b) on the top edge of the TV.
- If the \bigcirc (standby) indicator lights up in red, press $\checkmark \bigcirc$.

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

- Press D/ 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 27).

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.

No colour on programmes

• Select "Reset" (page 21).

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 $\checkmark +/-$ or $^{\Box} \times (Mute)$.
- Check if the "Speaker" is set to "TV Speaker" (page 23).

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" or the "Off Time" are activated (page 25).
- 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 Time" is activated (page 25).

Some input sources cannot be selected

• Select "AV Preset" and cancel "Skip" of the input source (page 26).

The remote does not function

• Replace the batteries.

A channel cannot be added to the Favourite list

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

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

http://www.sony.net/



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