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Sony Manufacturing Company UK

SONY





Trinitron Colour Television

Operating Instructions



KV-28DX30U KV-32DX30U

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GB

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 5 AMP fuse approved by ASTA or BSI to BS 1362 (i.e. marked with \circledast or \circledast) must be used.

When an alternative type of plug is used it should be fitted with a 5 AMP FUSE, otherwise the circuit should be protected by a 5 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.



FÙSE

How to replace the Fuse

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

IMPORTANT

If the plug supplied is not suitable for the socket outlet in your home, it should be cut off and an appropriate plug fitted in accordance with the following instructions: The wires in this mains lead are coloured in accordance with the following code:

Blue Neutral

Brown Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red. Do not connect either wire to the earth terminal in the plug which is marked by the letter E or by the safety earth symbol \pm or coloured green or green and yellow.

WARNING

- To prevent shock hazard, do not insert the plug cut off from the mains lead into a socket outlet. This plug cannot be used and should be destroyed.
- To prevent fire or shock hazard, do not expose the unit to rain or moisture.
- Dangerously high voltages are present inside the set. Do not open the cabinet. Refer servicing to qualified personnel only.

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Safety Information

For your safety

All TVs operate on extremely high voltages. To prevent fire or electric shock, please follow the safety procedures indicated below.

For General Safety

- Do not expose the TV set to rain or moisture.
- Do not remove the rear cover.
- For your protection, refer all servicing to qualified personnel only.

For Safe Installation

- Do not install the TV in hot, humid or excessively dusty places.
- Do not block or cover the ventilation openings. For ventilation, leave a space of at least 10 cm all around the set.
- Do not install the TV where it may be exposed to mechanical vibrations.
- Place the TV set only on a stable stand designed for the weight and dimensions of the TV.

For Safe Operation

- Do not operate the TV set on anything other than a 220-240V AC, 50Hz supply.
- Do not operate the TV if any liquid or solid objects fall in through the ventilation slots. Have it checked immediately.
- For environmental and safety reasons, it is recommended that the TV set is not left in standby mode when not in use. Switch off at the mains.
- Do not disconnect the TV by pulling on the power cable. Disconnect by removing the mains plug.
- In case of a thunderstorm, disconnect the TV set from the main supply and the aerial. Otherwise the set may be damaged by a stroke of lightning.

For Maintenance

- Clean the TV screen with a soft dampened cloth. Do not use any abrasive cleaners.
- Dust and nicotine deposits may cause heat accumulation inside the TV set. In the long term this could be a safety risk and may shorten the lifetime of your TV set. Therefore have your set serviced about every five years.

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Getting started

Follow steps 1-7 to:

Check the accessories supplied Insert batteries into your remote control Connect your own speakers Connect the aerial to your TV Plug in and switch on the TV View programmes on your TV Find your video channel

1. Checking the accessories supplied



Remote control



Batteries

2. Inserting batteries into the remote control



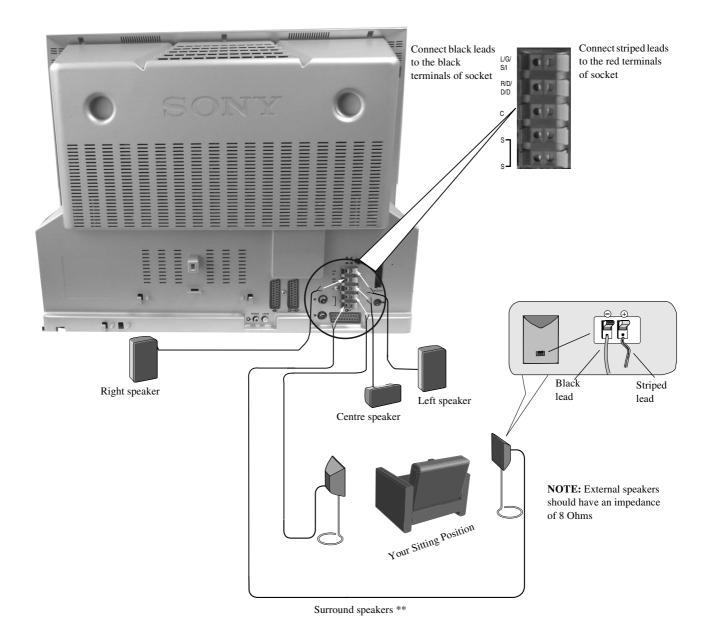
Always remember to dispose of used batteries in an environmentally friendly way.

Getting started 3. Connecting your own speakers

This TV has been designed to create 'Virtual Dolby Surround' without the need for additional speakers. If however, you wish to experience the full Dolby Pro Logic Surround, you will need to connect your own speakers (SS-CR190 or equivalent) as shown below. Connect the striped speaker leads to the red terminals and the black leads to the black terminals.

Dolby* Pro Logic Surround normally requires 5 speakers:

Centre Speaker - to anchor the fixed sounds, like dialogues, to the screen. **Left and Right Front Speakers** - for the normal two channel stereo or bilingual broadcasts. **Surround Speakers** - for the special effects created by the surround channels.



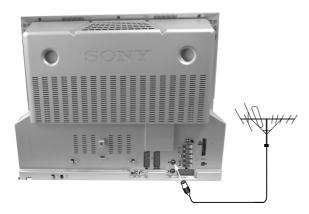
Note: When you connect your own external left and right speakers you must mute the internal speakers by pressing in the button marked $\prod_{n \neq 1}^{n} \triangleleft$ on the rear of the TV.

* Manufactured under licence from Dolby Laboratories. 'Dolby', 'Pro Logic', and the double-D symbol are trademarks of the Dolby Laboratories .

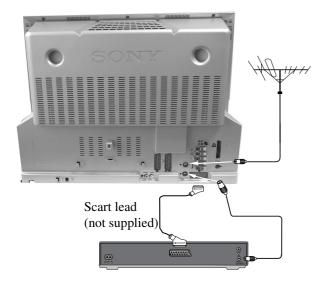
** For the best sound effects, place the surround speakers one meter above your listening position.

4. Connecting the aerial

Connecting an aerial to your TV



Connecting an aerial and VCR to your TV



5. Switching on the TV

Connect your existing aerial to the socket marked **-i** on the rear of the TV.

- 1 Connect your existing aerial to the upper socket marked 7 on the rear of the TV as shown.
- 2 Connect a lead from the RF input of your VCR to the lower aerial socket marked 7.7 on the TV.
- **3** Connect the VCR to the mains socket and switch on.
- **4** Insert a pre-recorded tape into the VCR and press the 'PLAY' button. This enables the TV set to locate and store the video channel during the 'Automatically tuning the TV' procedure.

Pus

Connect the TV plug to the mains socket (220-240V AC, 50Hz) and switch on.

Push in the on/off switch on the front of the TV.

6. Automatically tuning the TV

When you first switch on the TV, the following sequence of menu screens appear on the TV enabling you to 1) choose a language for the TV menu screens, 2) tune channels to the TV, 3) arrange the channels.



- When switching on the TV for the first time, the 'LANGUAGE' menu appears automatically on the TV screen enabling you to select in which language you wish to read the TV menu screens. Press the fractors on the remote control to select your chosen language then press the OK button to confirm your selection.
- The 'automatic tuning' menu appears on the TV screen in your selected language. Press the for buttons to select 'YES' then press the OK button to confirm.
- 3. Ensure the antenna is connected as instructed, then press the OK button to confirm. The TV starts to automatically search and store all available channels for you. Please be patient and do not press any buttons.

The digital channels will be stored on programme numbers 1-90 and the analogue channels on programme numbers 91-99.

Note: If any digital channels are stored on programme numbers 91-99 during the Automatic Tuning procedure, then no analogue channels will be allocated. If this happens, please refer to the section 'Manually tuning the TV' on page 19 of this manual to tune in and store the analogue channels.

4. When the TV has finished tuning in all available channels, the 'PROGRAMME SORTING' menu appears on the TV screen enabling you to change the order of the channels on your TV. If you do not wish to use this option, proceed to step 5.

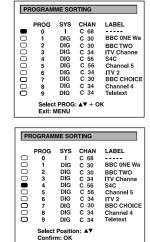
If you wish to change the channel order, press the \blacklozenge or \clubsuit buttons on your remote control to select the channel you want to move, then press the OK button. Press the \blacklozenge or \clubsuit buttons to select the new programme number position for your selected channel then press the OK button to confirm. The selected channel now moves to its new programme position. Repeat this procedure if you wish to sort the order of other channels on your TV.

- 5. Press the MENU button to remove the menu from the TV screen.
- 6. Press the PROGR+/- or the numbered buttons on the remote control to view the TV channels.





AUTO PROGRAMME				
PROG	SYS DIG	CHAN C 26	SERV	LABEL
	SEAI	I / RCHING	$\langle -$	

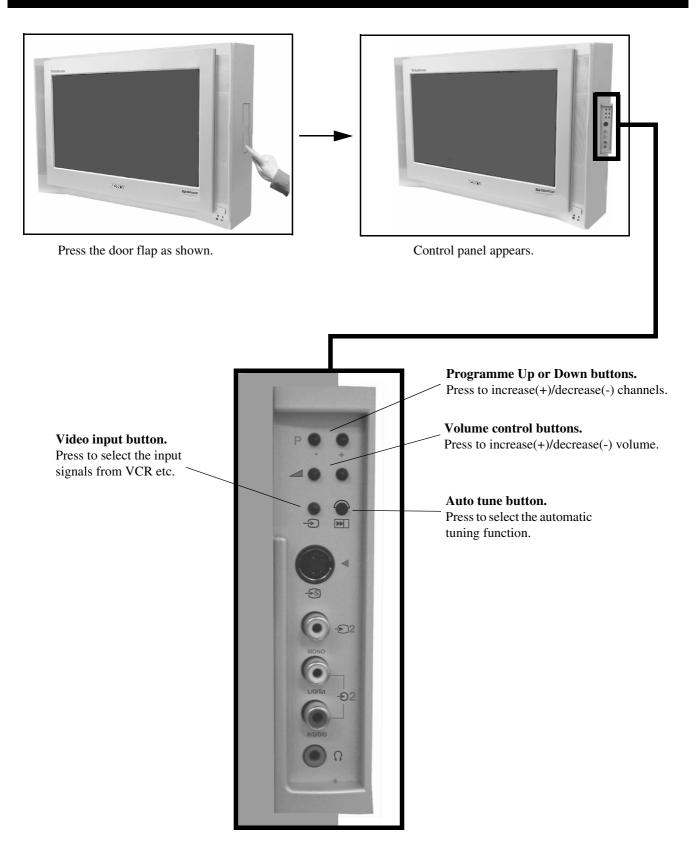


7. Finding your video channel after tuning

If you have connected a VCR to your TV, you now need to find the video channel.

- 1. Press the PROGR +/- buttons on the remote control until the video picture appears on the TV screen.
- Note: If you wish to move your video channel to a different programme position, refer to the 'Re-arranging the TV channels' section in this instruction manual.

Overview of the TV buttons



Overview of the remote control buttons

1/0

9

MENU

RM-888

SONY

(i+)?

To mute sound

Press to mute TV sound. Press again to restore the sound.

To reveal on screen information

Press to reveal all on-screen indications. Press again to cancel. In teletext mode, press to reveal concealed information (e.g. answers to a quiz) then press again to cancel.

To select channels

For double digit programme numbers, e.g.23, press -/-- first, then the buttons 2 and 3. If you enter an incorrect first digit, select --/-- button again to enter the programme number of your choice.

To select EPG

Press to display the Electronic Programme Guide. Press again to remove display.

To select Teletext Press to switch on Teletext.

To display picture menu

Press to change the picture settings. Press_ the OK button to remove the display.

To display sound menu

Press to change the sound settings. Press the OK button to remove the display.

To adjust TV volume Press to adjust the volume of the TV.

To temporarily switch off TV

Press to temporarily switch off TV. Press again to switch on from standby mode. To save energy, we recommend switching off completely when the TV is not in use.

NOTE: After 15-30 minutes without a TV signal and without any button being pressed, the TV switches automatically into standby mode.

To select input signal or freeze teletext

Press to select inputs from the TV sockets (see Using Optional Equipment section). In teletext mode, press to freeze the displayed page. Press once again to cancel.

To exit digital teletext or return to previous channel

Press to exit digital teletext, or in TV mode, press to return to the previous channel you were watching. **Note:** This can be done only if you have watched the previous channel for at least 5 seconds.

To display the menu

Press to use the TV menu system. Press again to remove the menu from the TV screen.

To select menu items

Use these buttons and the OK button to select the options available when in the menu system of this TV. Pressing the OK button in normal TV mode will display the channel listing table.

To change screen format

Press to change the size of the screen.

See Teletext section of manual for details.

To select channels

L

Press to select channels.

Adjusting the picture

Although the picture is adjusted at the factory, you can modify it to suit your own taste.



- 1. Press the MENU button on the remote control to display the menu on the TV screen.
- 2. Press the ▲ or ↓ buttons on the remote control to select the
 iiii symbol on the menu screen then press the → button to enter the 'PICTURE CONTROL' menu.
- 4. If you selected 'Picture Mode' or 'Format' in step 3, press the
 ▲ or ↓ buttons to select the item on the screen you wish to adjust then press the → button to confirm.
- 5. Press the \blacklozenge or \blacklozenge buttons to adjust your selected item.
- 6. As soon as you have adjusted the item, press the OK button to store the new setting.
- 7. If you selected 'Picture Mode' or 'Format' in step 3, press the
 button to return to the 'PICTURE CONTROL' menu.
- 8. Repeat steps 3-7 to adjust the other items.
- 9. Press the MENU button to remove the menu from the TV screen.

◆ Brightness* Colour*	Personal (for individual settings) Movie (for films) Live (for live broadcasts)
Sharpness* Hue**	
Re	esets picture to factory preset levels
Scroll	off + On
	Colour* Sharpness* Hue** Format (re

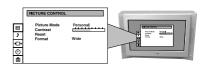
*Only if you select 'Personal' in 'Picture Mode'. ** Available for NTSC colour system only.

Changing picture and sound modes quickly

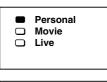
You can quickly change the Picture Mode or the Sound Mode without entering the 'PICTURE CONTROL' or the 'SOUND CONTROL' menu screens.

Note: These quick change options will not work on digital channels that are transmitting digital teletext. In those instances please use the menu system for any adjustments you require.

- 1. Press the ☆ symbol on the remote control for picture modes or the ♪ symbol for sound modes.
- 2. Press the \blacklozenge or \clubsuit buttons to select the desired mode.
- 3. Press the OK button to remove the display from the TV screen.



[PICTURE CONTROL	-
	Picture Mode Contrast Reset Format	Personal Wide





Adjusting the sound

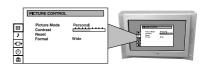
Although the sound is adjusted at the factory, you can modify it to suit your own taste.



- 1. Press the MENU button on the remote control to display the menu on the TV screen.
- Press the ▲ or ➡ buttons to select the ▷ symbol on the menu screen then press the ➡ button to enter the 'SOUND CONTROL' menu.
- Press the

 or
 buttons to select the item on the screen you
 wish to adjust then press the
 button to confirm. For a
 description of the menu items and their effects, see the table
 below.
- 4. If you selected 'Sound Mode' or 'Surround Mode' in step 3, press the ▲ or ➡ buttons to select the item on the screen you wish to adjust then press the ➡ button to confirm.
- 5. Press the \Rightarrow or \Leftarrow buttons to adjust your selected item.
- 6. As soon as you have adjusted the item, press the OK button to store the new setting.
- 8. Repeat steps 3-7 to adjust the other items.
- 9. Press the MENU button to remove the menu from the TV screen.

Sound Mode	Personal
	Rock Jazz
	◆ Pop
	In 'Personal' mode, Treble and Bass can be adjusted
Balance	
	Only available when 'Surround Mode' is set to 'Off'
Reset	Resets sound to factory preset levels
Bass Extension	Boosts bass by a fixed amount
Surround Mode	Choose from the special sound effects:
	Off> Pro Logic> 3 Stereo> Virtual Dolby>
	Pseudo Stereo> Spatial
Dual Sound	Stereo + Mono (for a stereo broadcast)
Dual Sound	A for channel $1 \bigstar B$ for channel 2
Dual Sound	
	A for channel 1
Dual Sound Volume Offset	A for channel $1 \bigstar B$ for channel 2
Volume Offset	 A for channel 1 → B for channel 2 (for a bilingual broadcast) The channel volume level can be →
	 A for channel 1 → B for channel 2 (for a bilingual broadcast) The channel volume level can be →
Volume Offset Headphones	 A for channel 1 → B for channel 2 (for a bilingual broadcast) The channel volume level can be →
Volume Offset Headphones () Volume	A for channel 1 ↔ B for channel 2 (for a bilingual broadcast) The channel volume level can be → adjusted over a range of -12 to +12. Stereo ◆ → Mono (for a stereo broadcast) A for channel 1 ↔ B for channel 2
Volume Offset Headphones () Volume	A for channel 1 ↔ B for channel 2 (for a bilingual broadcast) The channel volume level can be → adjusted over a range of -12 to +12. Stereo ◆ → Mono (for a stereo broadcast)
Volume Offset Headphones () Volume	A for channel 1 ↔ B for channel 2 (for a bilingual broadcast) The channel volume level can be → adjusted over a range of -12 to +12. Stereo ◆ → Mono (for a stereo broadcast) A for channel 1 ↔ B for channel 2
Volume Offset Headphones 유 Volume 유 Dual Sound	A for channel 1 ↔ B for channel 2 (for a bilingual broadcast) The channel volume level can be → adjusted over a range of -12 to +12. Stereo ◆ Mono (for a stereo broadcast) A for channel 1 ↔ B for channel 2 (for a bilingual broadcast)



	SOUND CONTROL	
	 Sound Mode Balance Reset 	Personal
	 Bass Extension 	On
\$	Surround Mode	Virtual Dolby
_	Dual Sound	Stereo
*⊔,	Volume Offset	0
Ð	🗆 💭 Volume	
	□ Ω Dual Sound	Stereo
ē	Auto Surround	Off

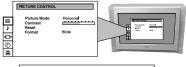
Setting up Virtual Dolby Surround

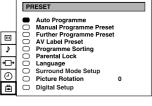
The Virtual Dolby Surround feature gives you the effect of Dolby Pro Logic without having to connect any external centre or rear speakers. The surround signals are processed and redirected to the front speakers in order to create the illusion of virtual centre and rear speakers.



- 1. Press the MENU button on the remote control to display the menu on the TV screen.
- Press the ▲ or ➡ buttons to select the symbol on the menu screen then press the ➡ button to enter the 'PRESET' menu.
- 3. Press the ♠ or ♥ buttons to select 'Surround Mode Setup' on the menu screen then press the ➡ button to enter the 'SURROUND MODE SETUP' menu.
- 5. Press the → or ← buttons to select Virtual in the display, then press the OK button.
- 6. Press the ♦ button to select 'Virtual Effect', then push the
 ♦ button to enter.
- 7. Press the → or ← buttons to adjust the Virtual Effect level until the illusion of being surrounded by the TV sound is at its most effective.
- 8. Press the MENU button to remove the display from the TV screen.

Note: To achieve the maximum effect from Virtual Dolby Surround, you should sit facing the centre of the TV screen.





SURROUND MODE SETUP	
Surround Mode Centre Mode Test Tone Left Speaker Centre Speaker Right Speaker Surround Speaker Virtual Effect	Virtual Normal Off

SURROUND MODE SE	TUP
 Surround Mode Centre Mode Test Tone Left Speaker Centre Speaker Right Speaker Surround Speaker Virtual Effect 	Virtual Normal Off

Additional TV Features Setting up Dolby Pro Logic

Before listening to Dolby Surround encoded programmes, you can adapt the features of Dolby Pro Logic to suit your own taste. **Note:** Dolby Pro Logic decoding should only be turned on when external centre and/or surround speakers are connected. Sony recommend that the centre and/or surround speakers should only be SS-CR190 or equivalent.

There will be no output available from the headphones or the audio output socket G- on the rear of the TV when Dolby Pro Logic has been selected.



- 1. Press the MENU button on the remote control to display the menu on the TV screen.
- Press the ♠ or ♥ buttons to select the symbol on the menu screen then press the ♥ button to enter the 'PRESET' menu.
- 3. Press the ♠ or ♥ buttons to select 'Surround Mode Setup' on the menu screen then press the ➡ button to enter the 'SURROUND MODE SETUP' menu.
- 5. Press the ♥ button to select 'Centre Mode', then push the
 ♦ button to enter. Press the ♦ or ♦ buttons to select one of the following modes then press the OK button to store the chosen mode:
 Normal: all 5 speakers are activated
 Wide: wider bandwidth for centre speaker
 Phantom: centre speaker is not used (This cannot be selected if you have chosen "3 stereo" mode in step 4)
- 6. Press the ♦ button to select 'Test Tone' then push the ♦ button to enter. Press the ♦ or ♦ buttons to select 'On', then press the OK button. The test tone will cycle through all the speakers.
- Press the ♦ button to select the 'Left Speaker', then press the ⇒ button to confirm. The tone remains at the left speaker.
- 9. Repeat steps 7 and 8 to select and adjust the 'Centre', 'Right', and 'Surround' speakers, so that the sound output from all speakers are balanced in relation to your sitting position.

10. Press the MENU button to remove the display.

PRESET Auto Programme Manual Programme Pr Further Programme Pr AV Label Preset Programme Sorting Parental Lock Language Surround Mode Setup Picture Rotation ♪ ¢ Ð ê \Box Digital Setup SURROUND MODE SETUP Surround Mode
 Centre Mode
 Test Tone
 Left Speaker ш ۶ *□• Centre Speak Right Speak 0 ₿ O Virtual Effect

	SURROUND MODE SE	TUP
∎ <u>></u> ↑ ⊖ ∰	 Surround Mode Centre Mode Test Tone Left Speaker Centre Speaker Right Speaker Surround Speaker Virtual Effect 	Pro Logic Normal Off

F

Γ

Note: After setting up Dolby Pro Logic, refer to the 'Adjusting the sound' section on page 11 and set the Surround Mode to Pro Logic.

Changing the screen mode

Using this Screen Mode feature you can change the aspect ratio of the screen.



- 1. Press the MENU button on the remote control to display the menu on the TV screen.
- Press the ▲ or ➡ buttons to select the III symbol on the menu screen then press the ➡ button to enter the 'PICTURE CONTROL' menu.
- 3. Press the ♠ or ♥ buttons to select 'Format' on the menu screen then press the ➡ button to enter the 'FORMAT' menu.

4. Format

Press the \blacklozenge or \blacklozenge buttons to select 'Format' then press the \blacklozenge button to enter. Press the \blacklozenge or \blacklozenge buttons repeatedly to select one of the following modes then press the OK button to store the chosen mode:

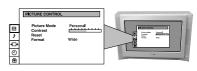
- Smart imitation of wide screen effect (16:9) for 4:3 broadcasts
- Wide for 16:9 broadcasts
- Zoom imitation of wide screen effect (16:9) for movies broadcast in cinemascopic format
- 14:9 compromise between 4:3 and 16:9 format for conventional 14:9 picture
- 4:3 conventional 4:3 picture
- 5. Scroll (Applies to Zoom, 14:9 or Smart format only) Press the ↑ or ♦ buttons to select 'Scroll'. You can use 'Scroll' to move the screen up or downwards in order to see the cut-off parts (e.g. to read subtitles). Press the → button to highlight the present value then press the ← or → buttons to adjust the screen position over a range of -5 to +5. Press the OK button to store.

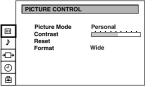
6. Auto 16:9

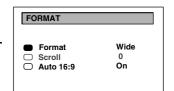
Press the \blacklozenge or \clubsuit buttons to select 'Auto 16:9' then press the \clubsuit button to enter. Press the \blacklozenge or \clubsuit buttons to select 'On' if you wish the TV to switch automatically to wide format when a 16:9 broadcast is detected, or 'Off' to retain the format selected in step 4. Press the OK button to store.

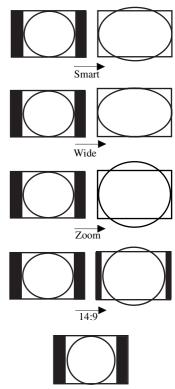
7. Press the MENU button to remove the menu from the TV screen.

Note: You can change the picture format quickly without having to enter the menu system. Simply press the - button repeatedly until the picture is displayed in the format you desire. This function will not work on digital channels that are transmitting digital teletext. In those instances please use the menu system as described above.











Setting the digital setup menu

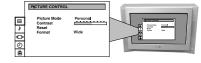
The Digital Setup menu allows you to set three options for digital channels.



- 1. Press the MENU button on the remote control to display the menu on the TV screen.
- Press the ♠ or ♥ buttons to select the ➡ symbol on the menu screen then press the ➡ button to enter the 'PRESET' menu.

- 5. Press the OK button to confirm your selection.
- 6. Press the MENU button to remove the menu from the TV screen.

Option	Effect
Digital Signal	Set to RGB or Composite. Choose the option that gives you the picture quality you prefer.
Digital Subtitles	Selects the language to be displayed when viewing subtitles. You can choose from English, Welsh or Gaelic (when transmitted by broadcaster).
Software Download	Periodically the software may be updated. When notified by the broadcasting authorities or Sony, set this option to enabled and the new software will be downloaded automatically.



	PRESET		
	Auto Programme Manual Programme P Further Programme P AV Label Preset Programme Sorting Parental Lock Language Surround Mode Setup Picture Rotation Digital Setup	reset	
DIGITAL SETUP			
 Digital Signal RGB Digital Subtitles Off Software Download Disabled 			

Using the further programme preset feature

With this feature you can a) manually fine-tune the TV to obtain a better picture reception if the picture is distorted or b) preset the AV output to the programme positions of channels with scrambled signals (e.g. from a pay TV decoder). In this way a connected VCR records the unscrambled signal.



- 1. Press the MENU button on the remote control to display the menu on the TV screen.
- Press the ▲ or ➡ buttons to select the ➡ symbol on the menu screen then press the ➡ button to enter the 'PRESET' menu.
- 3. Press the ♠ or ♥ buttons to select 'Further Programme Preset' then press the ➡ button to enter the 'FURTHER PROGRAMME PRESET' menu.
- Press the ♠ or ♥ buttons to select the relevant programme number then press the ➡ button repeatedly to select a) AFT or b) DECODER. The selected item changes colour.

Note: AFT will only be available on analogue channels.

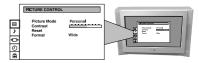
5. a) AFT

Press the \blacklozenge or \clubsuit buttons to fine tune the channel frequency over a range of -15 to +15. Press the OK button to confirm. Repeat steps 4 and 5a if you wish to fine tune other channels.

b) **DECODER**

Press the \blacklozenge or \blacklozenge buttons to select AV1, AV2 or AV3 for the programme position chosen, then press the OK button to confirm. You can now attach a decoder to the AV1, AV2 or the AV3 socket on the back of the TV and the picture from that decoder will appear on this programme number. Repeat steps 4 and 5b to preset the AV output for other programme positions.

6. Press the MENU button to remove the menu from the TV screen.





FURTHER PROGRAMME PRESET			
PR 0 1 2 3 3 4 4 5 6 0 7 8 9	On On	DECODER Off AV1 Off AV2 Off Off Off Off Off	

FURTHE	r progr	AMME PRESET	
PROG 0 1 2 3 4 5 6 7 8 9	AFT On On On On On 10 On On On On	DECODER Off AV1 Off AV2 Off Off Off Off Off	

Adjusting the picture rotation

If, due to the earth's magnetic field, the picture slants, you can use this feature to readjust the picture.



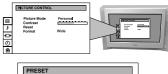
- 1. Press the MENU button on the remote control to display the menu on the TV screen.
- Press the ▲ or ➡ buttons to select the ➡ symbol on the menu screen then press the ➡ button to enter the 'PRESET' menu.
- Press the ▲ or ♥ buttons to select 'Picture Rotation' then press the ♥ button to highlight the 0 (zero) on the right of the menu.
- Press the → or ← buttons to adjust the picture rotation. The adjusting range is -5 to +5.
- 5. Press the OK button to store the new range.
- 6. Press the MENU button to remove the menu from the TV screen.

Using the parental lock

This feature enables you to prevent undesirable broadcasts appearing on the TV



- 1. Press the MENU button on the remote control to display the menu on the TV screen.
- Press the ▲ or ➡ buttons to select the ➡ symbol on the menu screen then press the ➡ button to enter the 'PRESET' menu.
- 3. Press the ♠ or ♥ buttons to select 'Parental Lock' then press the ➡ button to enter the 'PARENTAL LOCK' menu.
- 5. Repeat step 4 if you wish to block other channels.
- 6. Press the MENU button to remove the menu from the TV screen.





	PF	RESET	
		Auto Programme Manual Programme Preset Further Programme Preset AV Label Preset Programme Sorting Parental Lock Language Surround Mode Setup Picture Rotation Diaital Setup	5
ы		Digital Octop	

	CTURE CONTR Picture Mode Contrast Reset Format		<u></u>		
	 Manu Furth AV L Prog Pared Lang Surro Picture 	Program Ial Progr	amme Pres amme Pres set orting : de Setup		
	RENTAL PROG 0	LOCK SYS	CHAN C 68	LABEL	
0000000000	1 2 3 4 5 6 7 8	Dig Dig Dig Dig Dig Dig Dig Dig	C 30 C 30 C 34 C 56 C 56 C 34 C 30 C 34	BBC 0 BBC T ITV C S4C Chan ITV 2 BBC C Chann	
PA	9 RENTAL I PROG 0 1	DIG LOCK SYS I DIG	C 34 CHAN C 68 C 30	Telet	
	2 3 4 5 6 7 8	DIG DIG DIG DIG DIG DIG DIG	C 30 C 30 C 34 C 56 C 56 C 34 C 30 C 34 C 34	BBC 0 BBC T ITV C S4C Chan ITV 2 BBC C Chann	

Using the sleep timer

The TV can be set to switch automatically to standby mode after a length of time chosen by you. You may set the time in 30 minute steps up to 4 hours.



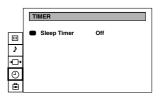
- 1. Press the MENU button on the remote control to display the menu on the TV screen.
- Press the ▲ or ➡ buttons to select the ④ symbol on the TV screen then press the ➡ button twice.
- Press the → or ← buttons repeatedly until the required amount of time delay appears on the screen.
- 4. Once the time delay has been selected, press the OK button to enter.
- 5. Press the MENU button to remove the menu from the TV screen.

One minute before standby, the display shown appears on the screen.

Notes: When watching TV, press the i+ button if you wish to see the time remaining.

To return to normal operation from standby mode, press the $|/\bigcirc$ button.

	PICTURE CONTROL		
⊞⊝‡ < ■	Picture Mode Contrast Reset Format	Personal Wide	



[TIMER		
	Sleep Timer	1:00	
≁ +□+			
∂			



Manually tuning the TV

You have already tuned the TV automatically using the instructions at the start of this manual. You can however carry out this operation manually, adding channels to the TV, one at a time.



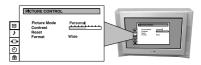
- 1. Press the MENU button on the remote control to display the menu on the TV screen.
- Press the ↑ or ↓ buttons to select the symbol on the TV screen then press the → button to enter the PRESET menu.
- Press the ▲ or ➡ buttons to select 'Manual Programme Preset' on the menu screen then press the ➡ button to enter the 'MANUAL PROGRAMME PRESET' menu.
- Press the ▲ or ➡ buttons to select the TV broadcast system (I for analogue or DIG for digital) or a video input source (AV1, AV2 ...) then press the ➡ button to confirm.
- 6. Select the first number digit of 'CHAN' (channel) then the second number digit of 'CHAN' with the numbered buttons on the remote control

or

Press the \blacklozenge or \clubsuit buttons to search for the next available channel.

- 7. If you wish to change the 'SERV' service number (on digital programmes only), select each digit in turn and press the numbered buttons on the remote control to change to your desired service.
- If you do not wish to store this channel on the programme number you selected, press the ↑ or ↓ buttons on the remote control to continue searching for the desired channel.
- 9. If this is the channel you wish to store, press the OK button.
- 10. Repeat steps 4-9 if you wish to store more channels then press the MENU button to remove the menu from the TV screen.

NOTE: After manually tuning in the channels you require, you can sort the channels into the order you prefer by following the procedure 'Re-arranging the TV channels' on page 24.



PF	RESET	
000000000000000000000000000000000000000	Auto Programme Manual Programme Preset Further Programme Preset AV Label Preset Programme Sorting Parental Lock Language Surround Mode Setup Picture Rotation Digital Setup	0

М	ANUAL F	ROGR	AMME PI	RESET	
000000000	PROG 0 1 2 3 4 5 6 7 8 9	SYS DIG DIG DIG DIG DIG DIG DIG DIG	CHAN C 68 C 30 C 30 C 34 C 56 C 56 C 34 C 30 C 34 C 34 C 34	SERV 04 05 01 01 04 02 06 03 05	LABEL BBC 0NE Wa BBC TWO ITV Channe S4C Channel 5 ITV 2 BBC CHOICE Channel 4 Teletext

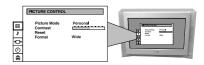
M	ANUAL F	ROGR	AMME P	RESET	
	PROG	SYS	CHAN	SERV	LABEL
	30		C 21	01	
•	31		C 21	01	
	32		C 21	01	
	33		C 21	01	
	34		C 21	01	
0	35		C 21	01	
ō	36		C 21	01	
ō	37		C 21	01	
	38		C 21	01	
0	39		C 21	01	

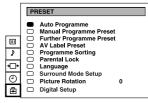
Skipping programme positions

This function enables you to skip unused programme positions when selecting them with the PROGR+/- buttons. However, by using the numbered buttons you can still select the skipped programme position.

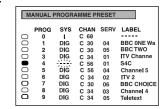


- 1. Press the MENU button on the remote control to display the menu on the TV screen.
- Press the ▲ or ➡ buttons to select the ➡ symbol on the menu screen then press the ➡ button to enter the 'PRESET' menu.
- 3. Press the ♠ or ♥ buttons to select 'Manual Programme Preset' then press the ➡ button to enter the 'MANUAL PROGRAMME PRESET' menu.
- Press the button to select '---' then press the OK button to store.
- 6. Repeat steps 4 and 5 to skip other programme positions.
- 7. Press the MENU button to remove the menu from the TV screen.





M	ANUAL F	ROGR	AMME P	RESET	
•000000000	PROG 0 1 2 3 4 5 6 7 8 9	SYS DIG DIG DIG DIG DIG DIG DIG DIG	CHAN C 68 C 30 C 30 C 34 C 56 C 56 C 34 C 30 C 34 C 34	SERV 04 05 01 01 04 02 06 03 05	LABEL BBC 0NE Wa BBC TWO ITV Channe S4C Channel 5 ITV 2 BBC CHOICE Channel 4 Teletext

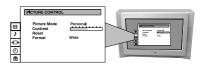


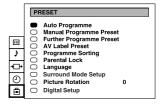
Naming a channel (Analogue channels only)

Names for channels are usually taken automatically from Teletext if available. You can however name a channel or an input video source using up to five characters (letters or numbers).



- 1. Press the MENU button on the remote control to display the menu on the TV screen.
- Press the ▲ or ➡ buttons to select the symbol on the menu screen then press the ➡ button to enter the 'PRESET' menu.
- 3. Press the ♠ or ♥ buttons to select 'Manual Programme Preset' then press the ➡ button to enter the 'MANUAL PROGRAMME PRESET' menu.
- Press the ♠ or ♥ buttons to select the channel you wish to name.
- Press the → button repeatedly until the first element of the 'LABEL' column is highlighted.
- 7. After selecting all the characters, press the OK button.
- 8. Repeat steps 4 to 7 if you wish to label other channels.
- 9. Press the MENU button to remove the menu from the TV screen.





NUAL	PROG	RAMME	PRESE	Г
ROG	SYS	CHAN	SERV	LABEL
0	1	C 29		
1	1	C 31		
2	- 1	C 32		
3	1	C 36		
4	1	C 37		
5	- 1	C 40		
6	1	C 41		
7	1	C 44		
8	1	C 49		
9	1	C 52		
	ROG 0 1 2 3 4 5 6 7 8	ROG SYS 0 I 1 I 2 I 3 I 4 I 5 I 6 I 7 I 8 I	ROG SYS CHAN 0 I C 29 1 I C 31 2 I C 32 3 I C 36 4 I C 37 5 I C 40 6 I C 41 7 I C 44 8 I C 44	0 I C 29 1 I C 31 2 I C 32 3 I C 36 4 I C 37 5 I C 40 6 I C 41 7 I C 44 8 I C 49

MANUAL
PROG 0 1 2 3 4 5 6 6 7 8 8 9

Choosing a language for the TV menu screens

This TV uses a menu system which can appear on screen in a variety of languages. Use the following feature to select the language that best suits you.



- 1. Press the MENU button on the remote control to display the menu on the TV screen.
- Press the ♠ or ♥ buttons to select the symbol on the menu screen then press the ➡ button to enter the 'PRESET' menu.
- 3. Press the ★ or ★ buttons to select 'Language' on the menu screen then press the ➡ button to enter the 'LANGUAGE' menu.
- 4. Press the \clubsuit or \clubsuit buttons to select your chosen language.
- 5. Press the OK button to confirm your selection.
- 6. Press the MENU button to remove the display from the TV screen.

Picture Mode Reserved Porosit Base Porosit Base Porosit

PR	ESET	
	Auto Programme Manual Programme Preset	
	Further Programme Preset AV Label Preset	
	Programme Sorting Parental Lock	
ē	Language	
	Picture Rotation	0
	Digital Setup	
		Manual Programme Preset Further Programme Preset AV Label Preset Programme Sorting Parental Lock Language Surround Mode Setup Picture Rotation

LANGUAGE
 English Deutsch Français Español Suomi Nederlands Português Svenska Dansk Norsk

Using the info menu screen

This menu is a useful means of seeing what programme is on now and next on the digital channel you are watching.



1.	Press the $()$ button to display the info menu on screen. This display gives a brief description about the programme currently being transmitted. When you wish to exit the info menu press the $()$ button again.

- To obtain a description of what is on next, press the → button to highlight NEXT.
- 3. Should you wish to record the programme that is on next, press the button to highlight ④, then press the OK button. The EPG "TIMER" menu will now be displayed.
- 4. At the bottom of the timer page you can see the symbols return back to menu), Event Rec (to record a programme) or Wake UP (to set the programme to switch on automatically).

NOW	0	
2 BBC TWO	09:00 - 09:15	
Schools: Hands Up		
[Age 4 - 7] Clothes: Hands Up teaches everyday language in BSL [British Sign language] to deaf children		
ENG WEL	ENG	

Tue 22 DEC 15:20:40		2		
Vets ir	n Practice			
2 BBC TW	/O 19:00 - 20:00 Tue 22	Dec		
Documentary series which follows veterinary graduates as they embark on their careers. Julie Richards has to deal with a terrier with behavioural problems and Steve Leonard encounters problems when he has to treat a golden labrador. Continues on Friday.				

Note: If available, you can change the language of the audio output. Press the \clubsuit button to highlight one of the language bars at the bottom of the info screen, then press the \blacklozenge or \clubsuit button to select the language in which you wish to hear the programme. Press the \blacklozenge button to return highlight to the top of the display.

Automatically tuning the TV

You should have already tuned in all available channels using the 'Automatically tuning the TV' section at the start of this manual. If you need to repeat the tuning procedure however, follow the instructions below and the TV automatically searches and stores all available channels for you.



- 1. Press the MENU button on the remote control to display the menu on the TV screen.
- Press the ▲ or ➡ buttons to select the ➡ symbol on the menu screen then press the ➡ button to enter the 'PRESET'' menu.
- 4. Press the ♠ or ♥ buttons to select 'YES' then press the OK button to confirm.
- 5. Ensure the antenna is connected as instructed, then press the OK button to confirm. The TV starts to automatically search and store all available channels for you. Please be patient and do not press any buttons.

The digital channels will be stored on programme numbers 1-90 and the analogue channels on programme numbers 91-99.

Note: If any digital channels are stored on programme numbers 91-99 during the Automatic Tuning procedure, then no analogue channels will be allocated. If this happens, please refer to the section 'Manually Tuning the TV' in this manual to tune in and store the analogue channels.

 When the automatic tuning procedure is complete, the menu disappears from the TV screen. Press the PROGR+/- or the numbered buttons on the remote control to view the TV channels.

Note: Press the MENU button if you wish to stop the automatic tuning procedure at any time.

1	PICTURE CONTROL		
⊞⊙ţ≺∎	Picture Mode Contrast Reset Format	Wide	

PRESET					
	Nuto Programme Manual Programme Preset Uruther Programme Preset V Label Preset rogramme Sorting arental Lock anguage surround Mode Setup Victure Rotation Vigital Setup	0			

Do you want to start automatic tuning?				
■ Yes □ No				
Confirm: OK				

Please confirm that antenna is connected	
Confirm: OK	

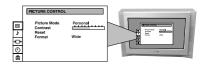
AUTO PROGRAMME						
PROG	SYS DIG	CHAN C 26	SERV	LABEL		
	SEA	I / RCHING	$\langle -$			

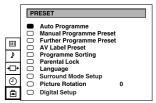
Re-arranging the TV channels

After tuning the TV, you can use this feature to change the channel order.



- 1. Press the MENU button on the remote control to display the menu on the TV screen.
- Press the ↑ or ↓ buttons to select the symbol on the menu screen then press the → button to enter the 'PRESET' menu.
- Press the ➡ button to select 'Programme Sorting' then press the ➡ button to enter the 'PROGRAMME SORTING' menu.
- 4. Press the ♠ or ♥ buttons to select the channel you want to move then press the OK button to confirm.
- 5. Press the ♠ or ♥ buttons to select the new programme position (e.g. PROG 4) for your selected channel, then press the OK button to confirm. The selected channel now moves to its new programme position.
- 6. Repeat steps 4 and 5 if you wish to sort other channels.
- 7. Press the MENU button to remove the menu from the TV screen.





PROGRAMME SORTING						
000000000000000000000000000000000000000	PROG 0 1 2 3 4 5 6 7 8 9	SYS DIG DIG DIG DIG DIG DIG DIG DIG	CHAN C 68 C 30 C 30 C 34 C 56 C 56 C 34 C 30 C 34 C 34 C 34	LABEL BBC ONE Wa BBC TWO ITV Channe S4C Channel 5 ITV 2 BBC CHOICE Channel 4 Teletext		

PF	PROGRAMME SORTING						
00000000000	PROG 0 1 2 3 4 5 6 7 8 9	SYS I DIG DIG DIG DIG DIG DIG DIG	CHAN C 68 C 30 C 30 C 34 C 56 C 56 C 34 C 30 C 34 C 34	LABEL BBC ONE Wa BBC TWO ITV Channe S4C Channel 5 ITV 2 BBC CHOICE Channel 4 Teletext			

PF	PROGRAMME SORTING						
00000000000	PROG 0 1 2 3 4 5 6 7 8 9	SYS I DIG DIG DIG DIG DIG DIG DIG	CHAN C 68 C 30 C 30 C 34 C 56 C 56 C 34 C 30 C 34 C 34 C 34	LABEL BBC ONE Wa BBC TWO ITV Channe S4C Channel 5 ITV 2 BBC CHOICE Channel 4 Teletext			

Teletext is an information service transmitted by most TV stations.



Selecting teletext

- 1. When viewing analogue channels press a numbered button on the remote control to select the channel which carries the teletext service you wish to receive.
- 3. Select your required page using the numbered buttons on the remote control. If you make an error, complete the number, then re-enter the correct page number.
- 4. Press the 🗎 button to switch off teletext.

Using other standard teletext functions

To move to the next or preceding page

Press the \bigcirc or buttons to select the previous or next page.

To freeze a Teletext page

Press the button to freeze the page. Press again to cancel the freeze.

Revealing concealed information (eg:answers to a quiz).

Press the ⑦ button to reveal information. Press again to conceal the information.

Using colour buttons to access pages (Fastext)

When the colour coded menu appears at the bottom of a page, press the colour buttons (red, green, yellow or blue) on the remote control to access the corresponding page.

Displaying TOP-Text (when available)

With TOP-Text you can access pages easily by selecting blocks or groups of pages. The block is a category (for example Sports) which includes the groups (for example Football). When TOP-Text is broadcast, a colour coded menu appears at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the remote control. Press these coloured buttons to display the desired pages.

- 1. Press the \square button to display teletext.
- Press the coloured buttons to search for the page you desire: Red: to go back to the previous page. Green: to proceed to the next page. Yellow: to proceed to the first page of the next group. Blue: to proceed to the first page of the next block.
- 3. Press the \blacksquare button twice to return to normal TV.





Viewing digital teletext

Most of the digital TV channels broadcast information via teletext. This digital service includes high quality text and graphics as well as advanced navigational options. Additionally, this television set has access to a dedicated digital teletext channel.



Selecting the dedicated digital teletext channel

- 1. To view the dedicated digital teletext service, press the numbered buttons on your remote control to select the relevant channel number. If you do not know the channel number, press the OK button to look for that channel in the channel table.
- Once the teletext channel is displayed, press the ♠, ♥, ♠ or ➡ buttons as instructed on the screen to select your requirement, then press the OK button to display the chosen information.
 Note: On some pages the TV programme will also be displayed. You can view the other TV programmes available on the selected channel by pressing the ♠ or ➡ buttons.
- 3. Alternatively, you can use the numbered and coloured buttons on the remote control to directly enter the page number required and to display the various pages of text information.
- 4. If when viewing the teletext pages, you are requested to select 'OK' or 'Cancel', press the OK button for 'OK' or the O button for 'Cancel'.
- 5. When you have finished viewing teletext, press the 🗎 button or the PROGR +/- buttons, and then select an alternative digital channel.

Selecting teletext from the other digital channels

Normal teletext services may also be available on other digital channels. Sometimes this is indicated by a small symbol or text display on your TV screen, superimposed on the channel you are watching.

- Press the ♠, ♥, ♥ or ➡ buttons to select the symbol then press the OK button to display the chosen information.
- 2. Alternatively, you may be requested to use the numbered and coloured buttons on your remote control to display the various pages of text information. If when viewing the teletext pages, you are requested to select 'OK' or 'Cancel', press the OK button for 'OK' or the button for 'Cancel'.
- 3. Once the text information is displayed on screen, use the ♠, ♥,
 ♠ or ➡ buttons, the coloured buttons and/or the numbered buttons to access the chosen information.
- 4. When you have finished viewing teletext, press the 🗎 button and then select an alternative digital channel.

On other channels there may be no on-screen symbol, but you can see if there is a digital service as follows:

- 1. When watching a digital TV channel, press the 🗐 button on your remote control to display any text service which may be available.
- 2. Press the numbered buttons to select the various pages of information available and/or the coloured buttons for the functions shown on screen.
- 3. When you have finished using the text service, press the button to return to normal TV.

Electronic Programme Guide (EPG)

The Electronic Programme Guide (EPG) is a guide which provides programme information for all digital channels supporting EPG.



Displaying the EPG

- Press the button on the remote control to display the programme guide on the TV screen. You may see the message 'EPG INFORMATION IS TEMPORARILY UNAVAILABLE' whilst waiting for the EPG to appear on screen.
- Press the ♠, ♥, or buttons on the remote control to move the on-screen cursor around the guide.
- 3. Press the D button again to remove the programme guide from the TV screen.

Viewing information on the EPG

You can alter the type of information presented on the EPG by changing data in each of the EPG columns. You can for example display information for all sports programmes being shown tomorrow from 5.00pm onwards.

- 1. Press the D button on the remote control to display the EPG on the TV screen.

- Press the → button or press the OK button. The EPG will display programme information according to the date and time you selected.
- 5. Press the → button to highlight the 'programme type' column then press the ↑ or ↓ button to select ▲ News,
 I Films, X Sport, I Entertainment, Y Lifestyle,
 Education or S Childrens Programmes.
- 6. Press the ← or → buttons or press the OK button to update the programme information accordingly. If you selected tomorrow's date, 17:00 and \$Sport, you should now be able to view all the sports programmes being shown tomorrow from 5.00 pm onwards.
- 7. Press the 💷 button on the remote control to remove the EPG from the TV screen.

15:20:40 Press to	Press O.K. to view data for all available channels Press to return to programme list.	
1/148 6 2 2 23 9 4 0 24 12 # 5 0 24 12 # 5 0 25 18 ÷ 3 1 26 21 1 1 27 24 1 1 27 3 3 1	Film: Rachel And The 1530 - 17:10 The Little Pet Shop 15:50 - 16:00 Wernards Watch Stage And Badger N Boger And Badger N Stal Balley Kippers Pov S	

Tue 22 15:20:		Press O.K. to view data for all available channels Press to return to programme list		12	
			+	1h NOW 1h 2h	
22 Tues	6 .¥L	2	BBC 2 International Cricket	13:35 - 18:25	ALL
23	9	4	Channel 4 Racing From Epsom	14:00 - 16:30	12
Wed 24	12 兼	5	C 5 Film: Rachel And The	15:30 - 17:10	鬯
Thu	16:00	1	BBC 1 The Little Pet Shop	15:50 - 16:00	
25 Fri	18 ද	3	HTV Bernards Watch	15:55 - 16:15	R
26	21	1	BBC 1 Boger And Badger N	16:00 - 16:15	H
Sat	ر 24	1	BBC 1 Bailey Kippers Pov S	16:15 - 16:35	K
Sun	3	3	HTV Sabrina The Teenage	16:15 - 16:40	Š
28 Mon		4	BBC 1 Vets In Practice	16:30 - 17:30	Đ
			+		2

Electronic Programme Guide (EPG)



Recording programmes

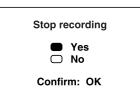
- 1 Press the D button on the remote control to display the EPG on the TV screen.
- 3 Press the OK button. If the programme is currently being broadcast, it will be displayed on your TV. If not, the 'TIMER' menu will be displayed on the TV screen.
- 4 At the bottom of the timer page you can see the symbols [Return] (back to EPG), [Event Rec] (to record a programme) or [Wake Up] (to set the programme to switch on automatically).
- 5 Press the ← or → buttons to select one of these symbols then press the OK button to confirm your selection. Follow the on-screen instructions until the EPG menu reappears on screen with the relevant icon appearing next to the programme you selected in step 2.
- 6 If you wish to cancel a recording, select the relevant programme and press the OK button. A menu is displayed on screen requesting you to select 'Return' if you wish to continue to record the programme or 'Delete' if you wish to cancel the recording request.
- 7 After making your selection, press the OK button to confirm. The record icon disappears from the EPG if 'Delete' was selected in step 6.
- 8 If you have finished viewing programmes on your TV, press the 1/ \odot button before the timer recording starts to leave your TV in standby mode for the timer settings to be activated. If, however, you wish to continue watching other programmes after setting the timer, you can do so by changing programmes in the normal way. If you are watching another programme when the timer is due to start, a display will appear on screen advising you that, if you change channels, you automatically cancel the recording.
- 9 If you do not wish to cancel or view the recording, press the 1/☉ button whilst one of the displays are still on screen to leave your TV in standby mode. The standby indicator on the front of the TV will flash to show that the timer record operation is active. If, however, you choose to change programmes, you automatically cancel the recording.
- **Notes:** If your video recorder (VCR) is not Smartlink compatible, you will need to set your VCR to switch on and off automatically after setting the timer on the EPG.

If you want to change channel once a digital programme has started recording, select the channel by using the remote control buttons as normal. A menu appears asking if you wish to stop recording. Select Yes or No using the ↑ or ♥ buttons, then press OK to confirm your choice.

Tue 22 DEC 15:20:40	Press O.K. to view data for all available channels Press to return to programme list.	12
22 Tues 6 346		
23 9	4 Channel 4 Racing From Epsom 14:00 - 16:30	12
24 Thu	5 International Boxing 15:30 - 17:10 4 BBC 1	Ì
25 Fri 18 😤	Tennis 15:45 - 16:45 3 HTV Motor Cross 15:55 - 16:25	×
26 21	BBC 2 International Athletics 19:00 - 21:15	Ē
Sat 24	1 BBC 1 Speedway 16:15 - 16:35	۲
Sun 3	3 Swimming 16:15 - 16:40	8
28 Mon	4 Match of the day 16:30 17:30	Ë

Tue 22 DEC 15:20:40		2
Vets in	n Practice	
2 BBC TW	O 19:00 - 20:00 Tue 22 De	ec 0
as they Julie Rid problem when he	entary series which follows veterinary gradua embark on their careers. chards has to deal with a terrier with behavic is and Steve Leonard encounters problems b has to treat a golden labrador. es on Friday. Event Rec Wake Up	

Timer Recording Event will begin soon. During this event you cannot select the channel



Electronic Programme Guide (EPG)



Setting the manual timer

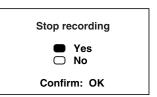
- 1 Press the button on the remote control to display the EPG on the TV screen.
- 3 Press the OK button to display a screen of 9 programme slots, each one indicating that it is either free for programming, or that it has a programme already stored in it.
- 4 Press the \blacklozenge button to enter the 'programme' column.
- 5 Press the ↑ or ♥ button to select a free row then press the OK button to display the Set Timer screen. This screen asks you to confirm the date, programme number, start time and stop time.
- 6 Press the ↑ button to select the date area then press the ↑ or
 ♦ buttons on the remote control to enter the date.
- 7 Press the → button to confirm the date then press the ↑ or ↓ button to select the month.
- 8 Press the \Rightarrow button to confirm the month and to select the start time.
- 9 Press the ↑ or ↓ buttons to enter the time when you want the timer to switch on, preferably several minutes before your video recorder is due to start recording.
 Press the → button to confirm after each entry.
- 10 Press the **↑** or **↓** buttons to enter the time you want the timer to switch off, preferably after your video is due to stop recording.
- 11 Press the → button to confirm each entry, then press the ↑ or ↓ buttons to select the programme number.
- 12 Press the OK button to save the settings, then follow the on-screen instructions until you finally select return to the Manual Timer Setup menu.
- 13 Select another available slot if you wish to record a further programme. Otherwise, press the → button to enter the 'programme type' column then press the OK button to return to the EPG.
- 14 If you have finished viewing programmes on your TV, press the 1/ \oplus button before the timer recording starts. This will leave your TV in standby mode for the timer settings to be activated. If, however, you wish to continue watching other programmes after setting a timer, you can do so by changing programmes in the normal way. If you are watching another programme when the timer is due to start, the display shown will appear on screen.
- 15 If you do not wish to view the recording, press the 1/⊕ button whilst the display is still on screen to leave your TV in standby mode. The standby indicator on the front of the TV will flash to show that the timer record operation is active. If, however, you choose to change programmes, a display appears asking if you wish to cancel the recording. Select Yes or No using the ↑ or ♦ buttons, then press OK to confirm your choice.

	Tue 22 DEC Press O.K. to view data for all available channels 15:20:40 Press to return to programme list.		12
15:20: 22 Tues 23 Wed 24 Thu	40 6 兆 9 12榮 16:00	Press to return to programme isi. 10 NOW 10 2 International Cricket	
25 Fri 26 Sat 27 Sun 28	18 🛖 21 24 🌙 3	3 HTV Bernards Watch 15.55-16. 1 BBC and Badger N 16.05-16. 1 BB Balley Kippers Por S 16:15-16. 3 HTV Sabrina The Teenage 16:15-16.	
Mon		4 Vets In Practice 16:30 - 17:	30

Tue 22 DEC 15:20:40	Timer event list. Press OK to view	2
15:20:40 22 12 23 3 3 24 12 25 18 25 18 21 24 21 24 3 27 24 3 21 24 3 21 25 21 23 24 25 25 25 25 25 25 25 25 25 25	Manual Timer Setup Manual Timer Setup	
28 Mon	Manual Timer Setup	E

Tue 22 DEC 15:45:40		12
Manual	Timer Setup	
THU 24	ATE START STOP PROC 4 DEC 16 00 10	
Return		





Optional equipment

Connecting equipment to the TV

Using the following instructions, you can connect a wide range of optional equipment to your TV.

Connecting equipment to the TV

- 1. Connect your equipment to the correct TV socket as shown.
- 2. Press the 🕤 button repeatedly on the remote control until the correct input symbol for your equipment appears on the TV screen:

Symbol	Input signals
÷1	• Audio/video input signal through the scart connector
	• RGB input signal through the scart connector F
÷2	 Audio/video input signal through the scart connector G or the phono sockets B and C
-S 2	 S video input signal through the scart connector G or the sockets A and G
€ 3	• Audio/video input signal through the scart connector

- 3. Switch on the connected equipment.
- 4. To return to normal TV operation, keep pressing the 🕤 button on the remote control until the TV picture appears.

Note: To avoid picture distortion, do not connect equipment to the A, B, C and G sockets at the same time.

Additional information when connecting equipment

Connecting a VCR

To record and playback digital programmes you must connect your VCR to the **H** socket using a scart lead (the VCR relies on the TV to convert digital programmes to signals suitable for recording, which are then output from the TV via the scart socket).

To record analogue programmes on the VCR, connect your external aerial to the upper socket marked $\frac{1}{7}$ on the TV, then connect a lead from the RF input of the VCR to the lower aerial socket marked $\frac{1}{7}$ on the TV.

Note: If you have set the Auto 16:9 feature to 'On' (see page 14), any digital recording made from the is socket will not detect the 16:9 mode, and during playback the picture will be displayed in the mode you previously selected from the 'Format' options.

Connecting headphones

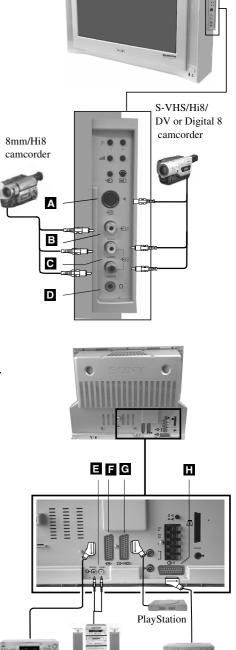
Plug in your headphones to the **D** socket of the concealed panel on the side of the TV.

Connecting to external audio equipment

Plug in your hi-fi equipment to the \blacksquare sockets on the rear of the TV if you wish to amplify the audio output from the TV. The output level from the \blacksquare sockets can be varied by adjusting the volume of the headphones (refer to the 'Adjusting the sound' section of this manual).

For mono equipment

Connect the phono plug of your equipment to the L/G/S/I socket of the concealed panel on the side of the TV, then select the 2 input signal using the instructions on this page. Finally, refer to the 'Adjusting the sound' section of this manual and select 'A' on the sound menu screen.



DVD

Hi-Fi



VCR

Connecting equipment to the TV



Selecting the output source for the scart socket r or r

- 1. Press the MENU button on the remote control to display the menu on the TV screen.
- Press the ▲ or ▲ buttons to select the → → symbol on the menu screen then press the → button to enter the 'VIDEO CONNECTION' menu screen.

TV Screen	TV, AV1, RGB, AV2, YC2, AV3
Output	TV, AV1, AV2, YC2, AV3, AUTO

Note: When Auto is selected as the output source, then the signal being viewed on the TV will also be output to AV2.

5. Press the MENU button to remove the menu from the TV screen.

Smartlink

Smartlink is a direct link between your TV set and VCR.

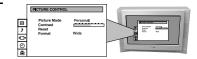
For Smartlink you need:

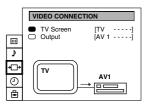
- a VCR which supports Smartlink, NexTView Link or Megalogic.
- A fully-wired 21-pin scart cable to connect your VCR to scart connector ⊕3.

The features of Smartlink are:

- tuning information such as the channel overview are downloaded from the TV set to the VCR.
- direct TV recording: While watching TV you need to press just one button on the VCR to record this programme.

For more information on Smartlink please refer to your VCR instruction manual.



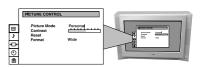


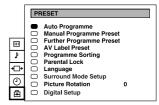
Optional Equipment Using the AV label preset feature

This function enables you to designate a name to the optional equipment you have connected to the sockets of this TV. This name can be up to 5 characters (letters or numbers) and will appear on screen whenever the equipment is selected for use.



- 1. Press the MENU button on the remote control to display the menu on the TV screen.
- Press the ▲ or ➡ buttons to select the ➡ symbol on the menu screen then press the ➡ button to enter the 'PRESET' menu.
- Press the ▲ or ➡ buttons to select the input source you wish to name (e.g. AV2) then press the ➡ button to highlight the first element of the 'LABEL' column.
- 6. After selecting all the characters, press the OK button.
- 7. Repeat steps 4 to 6 if you wish to label other input sources.
- 8. Press the MENU button to remove the menu from the TV screen.





AV LABEL PRESET		
$\bigcirc \bigcirc $	INPUT AV1 RGB AV2 YC2 AV3	LABEL

AV	LABEL	PRESET
	INPUT AV1 RGB AV2 YC2 AV3	LABEL

Specifications

TV system I/DVB-T

Colour system

PAL NTSC 2.58 4.42 (only Video

NTSC 3.58, 4.43 (only Video in)

Channel coverage UHF:B21-B69

Picture tube

KV-28DX30U FD Trinitron WIDE Approx. 71cm (28inches) (Approx. 66cm picture measured diagonally), 102° deflection KV-32DX30U FD Trinitron WIDE Approx. 82cm (32 inches) (Approx. 76cm picture measured diagonally), 102° deflection

Rear Terminals

- ⊡1	21-pin Euro connector (CENELEC standard) including audio/video
	input, RGB input, TV audio/video output.
↔ 2/ - \$22	21-pin Euro connector (CENELEC standard) including audio/video
	input, S-video input, selectable audio/video output.
⊡ +3	21-pin Euro connector (CENELEC standard) including audio/video
	input, selectable audio/video output.
G-	Audio outputs - phono jacks
MODEM	Modem connection

Front Terminals

Ð2	Video input -phono jack
Ð2	Audio inputs - phono jacks
- [•S]	S video input - 4 pin DIN
);;	Headphones jack - minijack stereo

Sound output

Left/Right: 2x20W (music power)

Power consumption

KV-28DX30U: 136W KV-32DX30U: 134W

Dimensions (wxhxd)

KV-28DX30U:	Approx. 796x518x522mm
KV-32DX30U:	Approx. 883x567x562mm

Weight

KV-28DX30U:Approx. 44kgKV-32DX30U:Approx. 62kg

Accessories supplied

RM-888 remote control (1) IEC designated size AA battery (2)

Other features

Teletext Dolby Pro Logic Surround System Smartlink

Design and specifications are subject to change without notice.

Troubleshooting

Here are some simple solutions to problems which may affect the picture and sound.

Problem	Cause
No picture, no sound.	 Power off. TV in standby. Aerial disconnected.
Poor or no picture (screen is dark), but good sound. No picture on any channel after digital tuning.	 Picture preset level adjustment. No digital transmissions in your area. No digital transmissions from the transmitter you are currently using. Weak signal. Unsuitable aerial.
Some channels are blank.	 Scrambled/subscription-only channel. Programme used only for data (no picture or sound). Programme not being transmitted.
Standby indicator flashing.	Digital mode Timer Record active (regular flash).Fault (irregular flash).
Good Picture, no sound.	 Volume control. The button marked ^{n ⊲}/_{n ≪} on the rear of the TV is pressed in.
No head phone output and no output from the audio sockets marked \bigcirc - on the rear of the TV.	• The TV has been set to perform Dolby Pro Logic decoding.
Poor picture quality. No colour on colour programmes. Remote control does not function. Distorted picture when changing programmes or selecting Teletext.	 Wrong external mode selected on an RGB video source. Colour level setting. Batteries low. Inputs from external equipment not switched off.
Cause	Solution
Power off. TV in standby.	 Plug in the TV. Press the ① button on the front of the TV. If the ① indicator is on press the 1/① button or a numbered button on the
Aerial disconnected.	 remote control. Check the aerial connection.
Picture level adjustment. No digital transmissions in your area.	 Select III on the TV menu system then adjust the brightness, picture and colour balance levels. Tune in the analogue channels available using the 'Manually tuning the TV'
No digital transmissions from the transmitter you are currently using. Unsuitable aerial.	 instruction in this manual, then contact a local installer to find out when digital transmissions begin in your area. Contact a local installer to find out which transmitter you should be pointing your aerial at. Change your aerial to cover the channels used by digital programmes. (Contact a local installer)
Weak signal.	 Ensure aerial is correctly aligned to transmitter. Ensure aerial is plugged directly into the TV (not through other equipment). Upgrade to a higher gain aerial.
Scrambled/subscription-only channel. Programme information without picture or sound.	 Subscribe to pay-per-view broadcaster. See 'Skipping programme positions' section. See 'Re-arranging the TV channels' section.
Fault.	Do not open the cabinet, refer to qualified personnel.Contact your nearest Sony Service Centre.
Volume control.	 Press the + button on the remote control. If is displayed on the screen, press the button on the remote control.
Wrong external mode selected.	• Press the 🕤 button repeatedly until the RGB symbol — 💬 is displayed on screen.
Colour level setting.	• Select III on the TV menu system then adjust the colour setting.

- If you continue to have these problems, have your TV serviced by qualified personnel or you can contact the Sony UK Digital HelpLine on 0870 600 1717.
- NEVER open the casing yourself.