

**SONY**<sup>®</sup>

4-205-772-13 (1)



# **WIDE Digital Projection TV**

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*Instruction Manual*

**GB**

***KP-51DS1U***  
***KP-51DS2U***

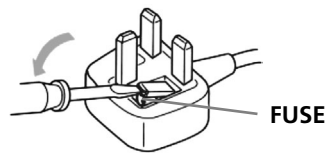
## NOTICE FOR CUSTOMERS IN THE UNITED KINGDOM

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 ⚡ or ⚡) 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.



### How to replace the fuse

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

#### • **IMPORTANT**

If the plug supplied is not suitable for the socket outlets 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  $\perp$  or coloured green or green and yellow.

#### **WARNING**





- To prevent the risk of electric shock, 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 the risk of fire or electric shock, 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.

# Introduction

Thank you for choosing this Sony Projection TV.

Before operating the projection TV, please read this manual thoroughly and retain it for future reference.

• Symbols used in the manual:

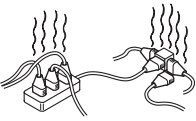
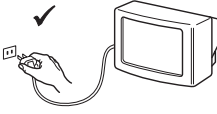
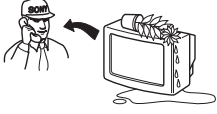
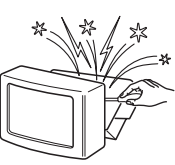
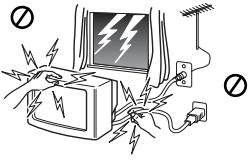
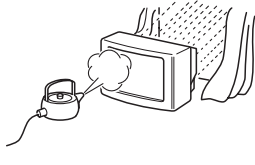
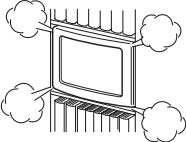
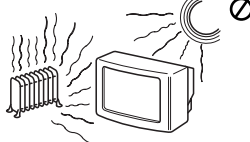
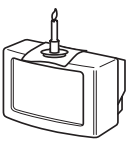
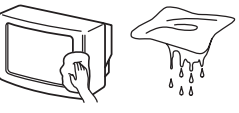
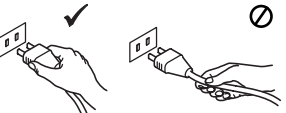
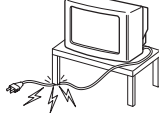



-  Important information.
-  Information on a feature.
- **1,2...** Sequence of instructions.
-  Shaded buttons on the remote control show the buttons you have to press to follow the sequence of instructions.
-  Informs you of the result of the instructions.

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Television Channel Number Guide for United Kingdom (analogue channels).....	(back cover)

## Safety Information

# Safety Information

 <p>This set is to operate on a 220-240V AC supply only. Take care not to connect too many appliances to the same power socket as this could result in fire or electric shock.</p>	 <p>For environmental and safety reasons, it is recommended that the TV set is not left in standby mode when not in use. Disconnect from the mains.</p>	 <p>Never push objects of any kind into the set as this could result in a fire or electric shock. Never spill liquid of any kind on the set. If any liquid or solid object does fall into the cabinet, do not operate the TV. Have it checked immediately by qualified personnel.</p>
 <p>Do not open the cabinet and the rear cover of the TV. Refer to qualified service personnel only.</p>	 <p>For your own safety, do not touch any part of the TV, power lead or aerial lead during lightning storms.</p>	 <p>To prevent fire or shock hazard, do not expose the TV to rain or moisture.</p>
 <p>Do not cover the ventilation openings of the TV. For ventilation, leave a space of at least 10cm all around the set.</p>	 <p>Never place the TV in hot, humid or excessively dusty places. Do not install the TV where it may be exposed to mechanical vibrations.</p>	 <p>To prevent fire, keep inflammable objects or naked lights (eg candles) away from the TV.</p>
 <p>Clean the TV with a soft, lightly dampened cloth. Do not use benzene, thinner or any other chemicals to clean the TV. Do not scratch the TV screen. As a safety precaution, unplug the TV before cleaning it.</p>	 <p>Pull out the power lead by the plug. Do not pull on the power lead itself.</p>	 <p>Take care not to place heavy objects on the power lead as this could result in damage. We recommend you wind any excess lead around the holders provided on the rear of the TV.</p>
 <p>Place the TV on a secure stable stand. Do not allow children to climb on to it. Do not place the TV on its side or face up.</p>	 <p>Unplug the power lead before moving the TV. Avoid uneven surfaces, quick steps or excessive force. If the set has been dropped or damaged, have it checked immediately by qualified service personnel.</p>	 <p>Do not cover the ventilation openings of the TV with items such as curtains or newspapers etc.</p>

## Additional Safety Information

- 
  - After transporting the projection TV directly from a cold to a warm location, or if the room temperature has changed suddenly, pictures may be blurred or show poor colour over portions of the picture. This is because moisture has condensed on the mirrors or lenses inside the projection TV. Let the moisture evaporate before using the projection TV.
  - To obtain a clear picture, do not expose the screen to direct illumination or direct sunlight. If possible, use spot lighting directed down from the ceiling.
- Displaying a still picture for long periods of time, for instance, when operating a video game or personal computer and viewing a programme in 16:9 mode, may damage the picture tube. To avoid this, keep the picture contrast level low.
  - Clean the projection TV screen and cabinet with a soft dampened cloth. Do not use any abrasive cleaners. As a safety precaution, unplug the set before cleaning it.
  - Avoid touching the screen, and take care not to scratch the surface with hard objects.

## Overview

# Checking the Accessories Supplied



One Remote Control  
(RM-892)



Two batteries (R6 type)

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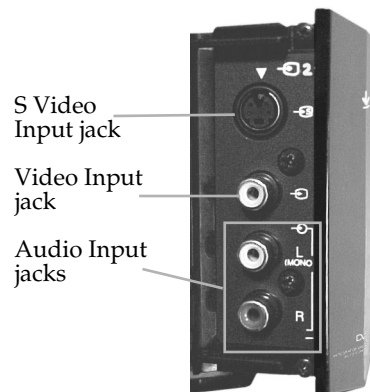
# Overview of Projection TV Buttons



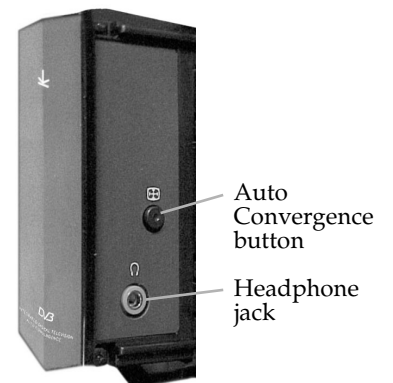
- On/Off Switch
- Standby indicator
- Volume control buttons
- Selecting input source
- Programme up or down buttons (selects TV channels)

Press on the mark ↓, on the front of the projection TV to reveal the front connectors.

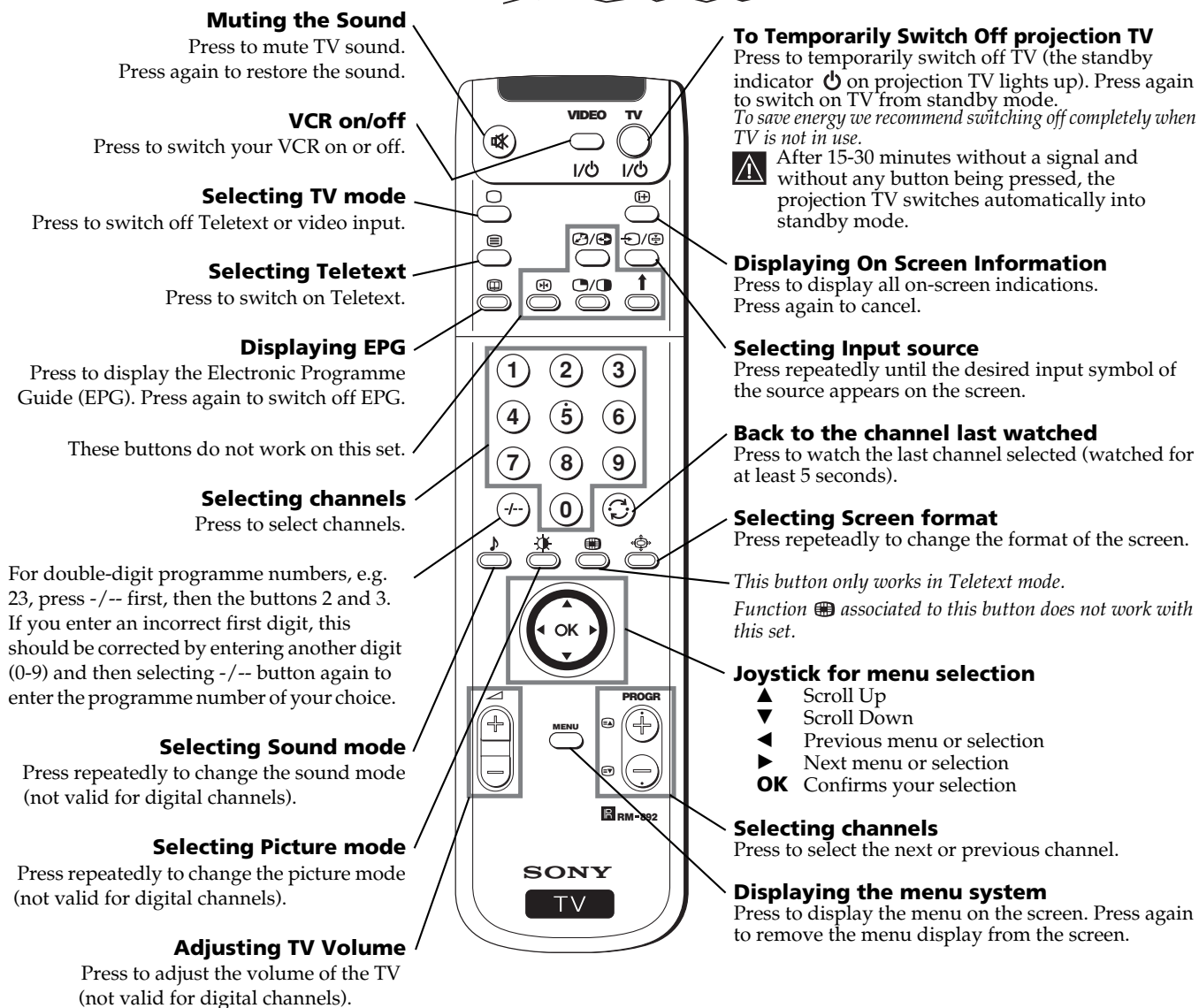
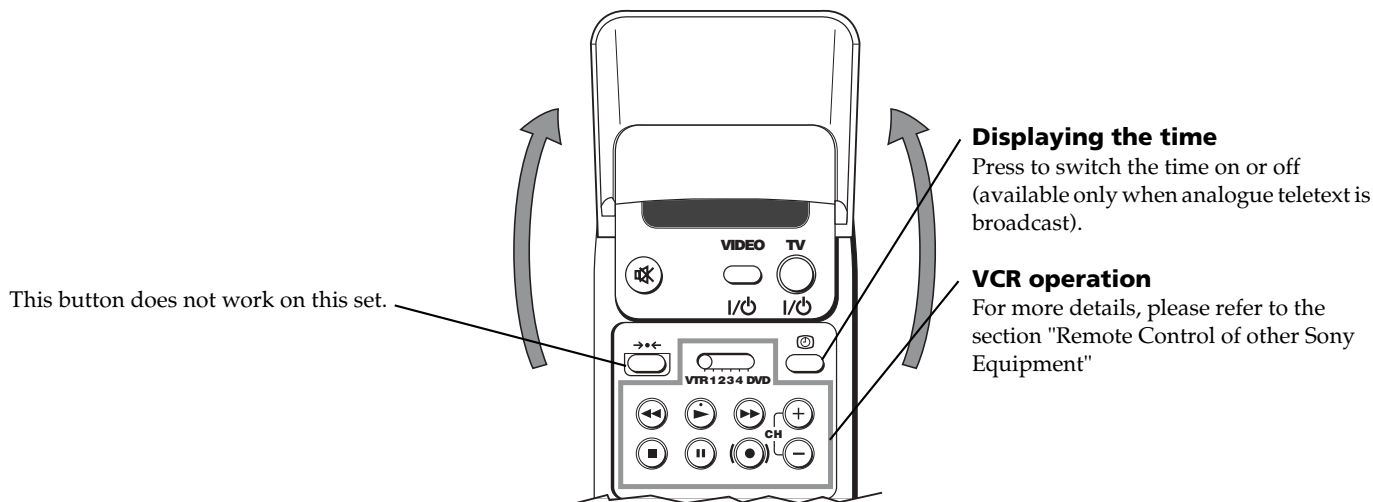
(left side connectors)



(right side connectors)




# Overview of Remote Control Buttons

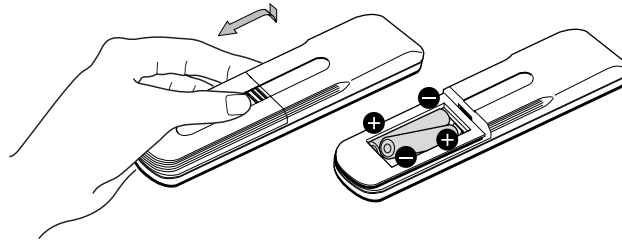


Besides TV functions, all coloured buttons as well as green symbols are also used for Teletext operation. For more details, please refer to the "Teletext" section of this instruction manual.


## Installation

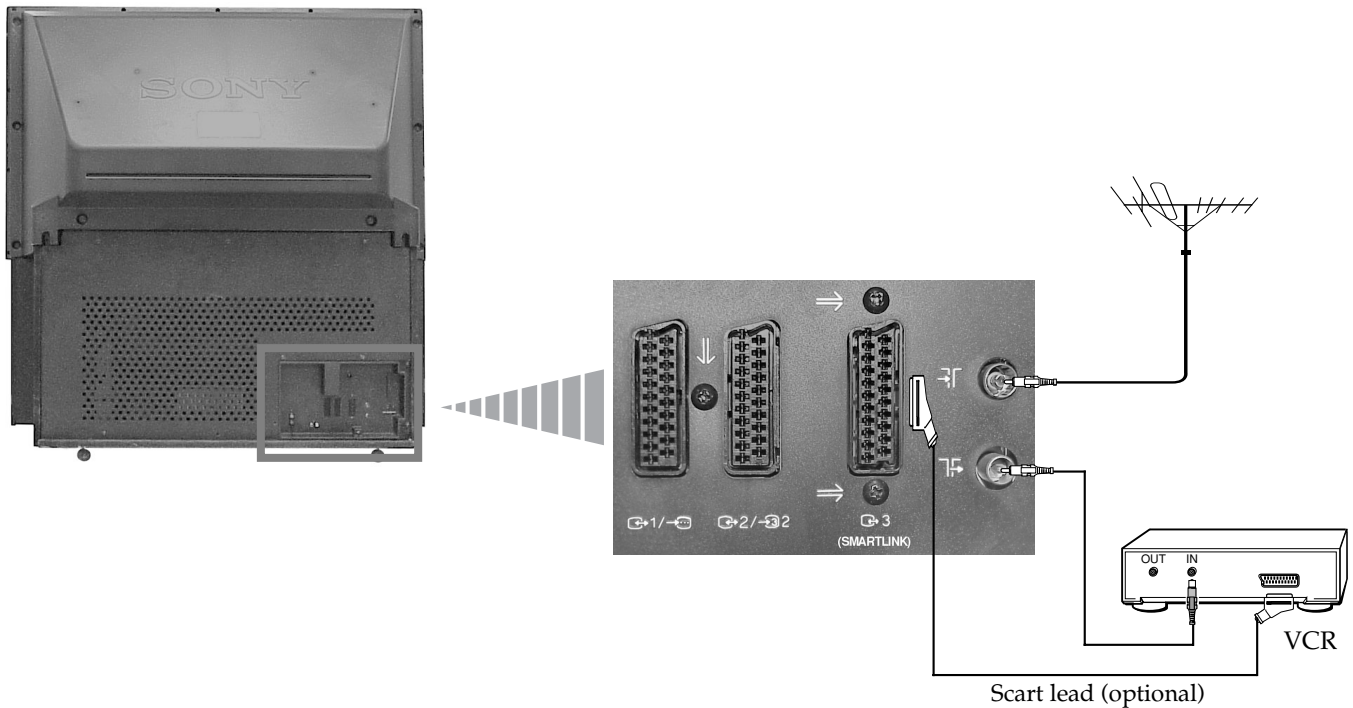
# Inserting Batteries into the Remote Control

-  Make sure you insert the batteries using the correct polarities.  
Always remember to dispose of used batteries in an environmental friendly way.





# Connecting the Aerial and VCR

-  Connecting cables are not supplied.




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-  The Scart lead is optional.  
If you use this optional connection it can improve picture and sound quality when using a VCR.
-  If you do not use a SCART lead, after automatically tuning the projection TV refer to the "Manually Tuning the TV" section of this instruction manual, to tune in the projection TV to the output of your VCR. Also refer to your VCR instruction manual to find out how to find the output channel of your VCR.

## First Time Operation

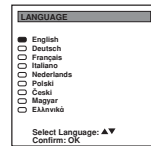
# Switching on the Projection TV and Automatically Tuning

**i** The first time you switch on your TV, a sequence of menu screens appear on the TV enabling you to 1) choose the language of the menu screen, 2) search and store all available channels (TV Broadcast) and 3) change the order in which the channels (TV Broadcast) appear on the screen.

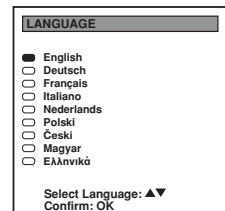
However, if you need to change the language menu, change the country, change or repeat the tuning (e.g. when you move house) or rearrange again the order of the channels afterwards, you can do that by selecting the appropriate menu in the  (PRESET).



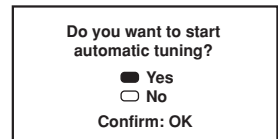
**1** Connect the Projection TV plug to the mains socket (220-240V AC, 50 Hz). Press the **⏻** on/off button on your projection TV set to switch on. The first time you press this button the **Language** menu displays automatically on the screen.



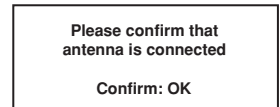
**2** Push the joystick on the remote control to **▼** or **▲** to select the language, then press **OK** to confirm your selection. From now on all the menus will appear in the selected language.



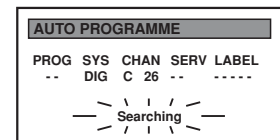
**3** The Auto Tuning menu appears on the screen in the selected language, then press the **OK** button on the remote control to select **YES**.



**4** A new menu appears automatically on the screen asking you to check that the aerial is connected. Confirm that the aerial is connected and then press the **OK** button to start the automatic tuning.



**i** The TV starts to automatically search and store all available channels (TV Broadcast) for you and the message "Searching" flashes on the screen until all available channels will be stored. If any analogue channel is tuned, it will be stored in programme numbers 91 to 99 but only in the case that these positions are free. However, if you wish to tune in any analogue channel and store it in the programme number of your choice, please refer to the section "Manually Tuning the TV" of this instruction manual.



**⚠** This procedure could take some minutes. Please, be patient and do not press any button. Otherwise the automatic tuning will not be completed.

continued...





# First Time Operation



**5** **i** After all available channels are captured and stored, the Programme Sorting menu appears automatically on the screen enabling you to change the order in which the channels appear on the screen.

- a) If you do not wish to change the channel order, go to step 6.
- b) If you wish to change the channel order:
  - 1** Push the joystick on the remote control to ▼ or ▲ to select the programme number with the channel (TV Broadcast) you wish to rearrange, then push to ►.

**2** Push the joystick to ▼ or ▲ to select the new programme number position for your selected channel (TV Broadcast), then press OK.

**i** The selected channel now moves to its new programme position and the other channels move accordingly.

**3** Repeat steps b1) and b2) if you wish to change the order of the other channels.

PROGRAMME SORTING			
PROG	SYS	CHAN	LABEL
0	DIG	C 28	BBC-W
1	DIG	C 40	MV-CH
2	DIG	C 41	TVE-1
3	DIG	C 31	TVE-2
4	DIG	C 34	ANT-3
5	DIG	C 27	TELE 5
6	DIG	C 47	C PLUS
7	DIG	C 44	-----
8	DIG	C 23	-----
9	DIG	C 35	CNN -

Select PROG: ▲▼ + OK  
Exit: MENU

PROGRAMME SORTING			
PROG	SYS	CHAN	LABEL
0	DIG	C 40	MV-CH
1	DIG	C 41	TVE-1
2	DIG	C 31	TVE-2
3	DIG	C 34	ANT-3
4	DIG	C 27	TELE 5
5	DIG	C 47	C PLUS
6	DIG	C 44	-----
7	DIG	C 23	-----
8	DIG	C 35	CNN -
9	DIG	C 28	BBC-W

Select Position: ▲▼  
Confirm: OK

**6** Press the MENU button to exit and return to the normal TV screen.

Your projection TV is now ready for use.

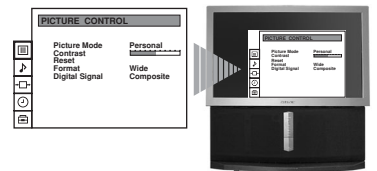
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## Introducing the Menu system

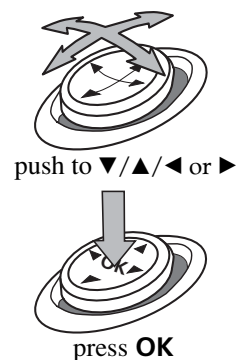
**i** Your projection TV uses an on-screen menu system to guide you through the operations. Use the following buttons on the Remote Control to operate the menu system:



**1** Press the MENU button to switch the first level menu on.



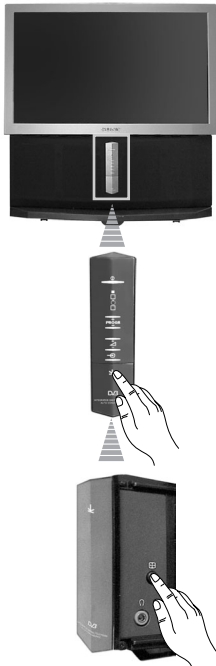
- 2**
- To highlight the desired menu or option, push the joystick to ▲ or ▼.
  - To enter to the selected menu or option, push to ►
  - To return to the last menu or option, push to ◀.
  - To alter settings of your selected option, push to ▼/▲/◀ or ►.
  - To confirm and store your selection, press OK.



**3** Press the MENU button to remove the menu from the screen.

# Adjusting Colour Registration (Convergence)

**i** Due to the earth's magnetism, the picture might become undefined and you could see different colours on the outlines of the images. In that case, proceed as follows:



## Auto converge the Red, Green, and Blue Lines

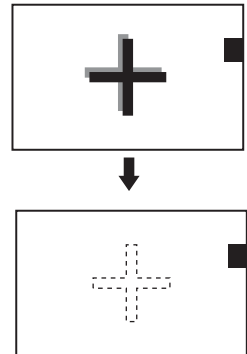
- 1 Press on the mark  $\pm$ , on the front of the projection TV to reveal the front connectors.
- 2 Press  $\text{Ⓜ}$  button on the projection TV.

**👉** The Auto Convergence function works for about 30 seconds. When the white cross disappears from the screen, your projection TV is ready for use.

**Notes:**

The Auto Convergence function does not work:

- when no signal is input.
- when the input signal is weak.
- when the screen is exposed to spotlights or direct sunlight.
- when you watch the teletext broadcast.



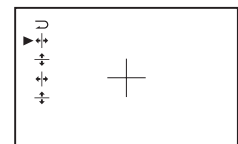
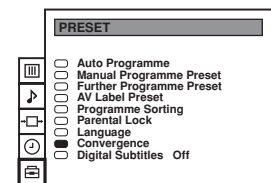
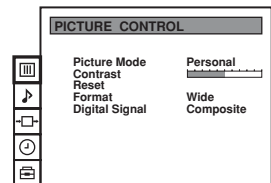
## If you wish a more accurate convergence adjustment

- 1 Press the MENU button on the remote control to display the menu on the screen.
- 2 Push the joystick to  $\blacktriangledown$  to select the symbol  $\text{Ⓜ}$ , then push to  $\blacktriangleright$  to enter to the PRESET menu.
- 3 Push the joystick to  $\blacktriangledown$  or  $\blacktriangle$  to select **Convergence**, then push to  $\blacktriangleright$ .
- 4 Push the joystick to  $\blacktriangledown$  or  $\blacktriangle$  to select "the line" (vertical and horizontal lines in red and blue) you want to adjust.
  - $\blacktriangleleft$  : red vertical line (left/right adjustment)
  - $\blacktriangleright$  : red horizontal line (up/down adjustment)
  - $\blacktriangleleft$  : blue vertical line (left/right adjustment)
  - $\blacktriangleright$  : blue horizontal line (up/down adjustment)

Then press the OK button.

- 5 Push the joystick repeatedly to  $\blacktriangledown$ ,  $\blacktriangle$ ,  $\blacktriangleleft$  or  $\blacktriangleright$  to converge the selected line with the green line in the centre, then press OK to confirm.
- 6 Repeat steps 4 and 5 to adjust the other lines, until all the lines have overlapped to form a white cross.
- 7 Press the MENU button to exit and return to the normal TV screen.

**👉** Your projection TV is ready for use.



# Adjusting the Picture

**i** 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 screen.

**2** Push the joystick to **▶** to enter the **PICTURE CONTROL** menu.

**3** Push the joystick to **▼** or **▲** to select the item you wish to change, then push to **▶**.  
Refer to the table below to choose the item and for the effect of each control:

- Picture Mode ▶ Picture Mode ▶ Personal** (for individual settings)
  - ▶ **Movie** (for films)
  - ▶ **Live** (for live broadcast programmes)
- ▼ Brightness\*** ◀ Darker ▶ Brighter
- ▼ Colour\*** ◀ Less ▶ More
- ▼ Sharpness\*** ◀ Softer ▶ Sharper
- ▼ Hue\*\*** ◀ Greenish ▶ Reddish
- Contrast** ◀ Less ▶ More
- Reset** Resets picture to the factory preset levels.
- Format** (for details refer to the section "Changing the Screen Mode")
- Digital Signal ▶ Composite** (standard picture quality)
  - ▶ **RGB\*\*\*** (improves the picture quality)

\* Can only be altered if Personal Mode is selected.  
 \*\* Only available for NTSC colour signal (e.g: USA video tapes).  
 \*\*\* Not available in 4:3 format screen mode.

**4** Push the joystick to **◀** or **▶** to alter the selected item, then press the **OK** button to store the new adjustment.

**5** Repeat steps 3 and 4 to alter the other items.

**6** Press the **MENU** button to exit and return to the normal TV screen.

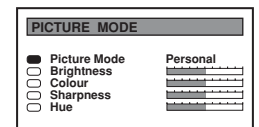
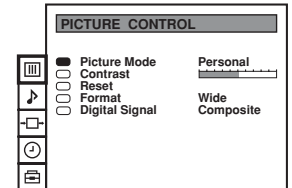
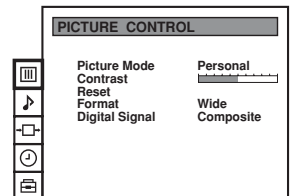
## Changing the Picture Mode Quickly

You can quickly change the Picture Mode without entering the Picture Control menu screen.

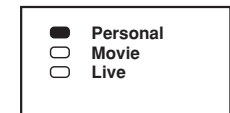
**1** Press the **Picture Mode** button on the remote control to directly access the Picture Mode.

**2** Push the joystick to **▼** or **▲** to select your desired picture mode (**Personal**, **Movie** or **Live**), then press the **OK** button to remove the display from the screen.

**Note:** this function will not work in digital text mode or when viewing a channel which broadcasts digital text. In those instances please use the menu system as described above.



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# Changing the screen mode

**i** 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 screen.

**2** Push the joystick to **▶** button to enter the **PICTURE CONTROL** menu.

**3** Push the joystick to **▼** to select **Format**, then push to **▶**.

**4** Push the joystick to **▼** or **▲** to select **Format**, **Scroll** or **Auto 16:9**.

**5 Format**

Push the joystick to **▶** to enter to the menu, then push to **◀** or **▶** repeatedly to select one of the following modes:

- **Smart:** imitation of wide screen effect (16:9) for 4:3 broadcasts.
- **4:3:** conventional 4:3 picture.
- **Zoom:** imitation of wide screen effect (16:9) for movies broadcast in cinemascope format.
- **Wide:** for 16:9 broadcasts.

Press the **OK** button.

**6 Scroll**

**i** You can use Scroll to move the screen up- or downwards in order to see the cut-off parts. This function only works if you selected Zoom mode or Smart mode in step 5.

Push the joystick to **▶** to enter to the menu, then push to **◀** or **▶** to adjust the screen position over a range of -5 to +5. Press the **OK** button.

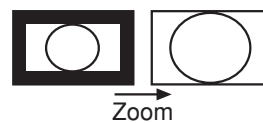
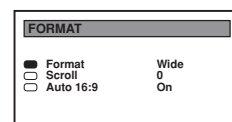
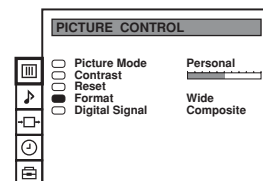
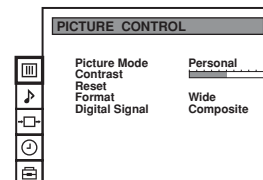
**7 Auto 16:9**

Push the joystick to **▶** to enter to the menu, then push to **◀** or **▶** to select:

- On:** if you wish the TV set to switch automatically to wide format if a 16:9 broadcast is detected or
- Off:** for normal mode.

Press the **OK** button.

**8** Press the **MENU** button to exit and return to the normal TV screen..



## Changing the Format Screen Quickly

You can quickly change the format screen without entering the Picture Control menu screen.

**1** Press the **◂** button on the remote control repeatedly to select your desired format screen mode (**Smart**, **4:3**, **Zoom** or **Wide**).

**Note:** this function will not work in digital text mode or when viewing a channel which broadcasts digital text. In those instances please use the menu system as described above.

# Adjusting the Sound

**i** 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 screen.

**2** Push the joystick to **▼** to select the **♪** symbol, then push to **▶** to enter to the **SOUND CONTROL** menu.

**3** Push the joystick to **▼** or **▲** to select the item you wish to change, then push to **▶**.  
Refer to the table below to choose the item and for the effect of each control.

**Sound Mode ▶ Mode**

- ▶ Personal (for individual settings)
- ▶ Rock
- ▶ Jazz
- ▶ Pop

**▼ Treble\*** ◀ Less ▶ More

**▼ Bass\*** ◀ Less ▶ More

**Balance** ◀ Left ▶ Right

**Reset** Resets picture to the factory preset levels.

**Spatial**

- ▶ **On:** acoustic sound effect
- ▶ **Off:** normal

**Dual Sound**

- For a stereo broadcast:
  - ▶ Mono
  - ▶ Stereo
- For a bilingual broadcast:
  - ▶ Mono (for mono channel if available)
  - ▶ A (for channel 1)
  - ▶ B (for channel 2)

**Volume Offset** ◀ -12 ..... ▶ +12  
The channel volume level can be adjusted over a range of -12 to +12.

*Headphones:*

**Ω Volume** ◀ Less ▶ More

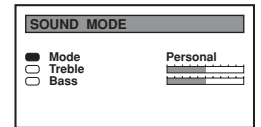
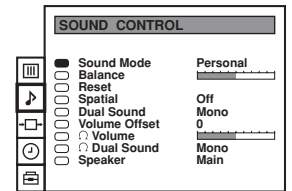
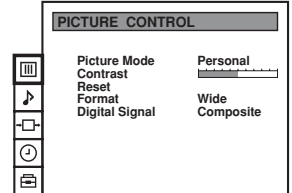
**Ω Dual Sound**

- For a stereo broadcast:
  - ▶ Mono
  - ▶ Stereo
- For a bilingual broadcast:
  - ▶ Mono (for mono channel if available)
  - ▶ A (for channel 1)
  - ▶ B (for channel 2)

**Speaker**

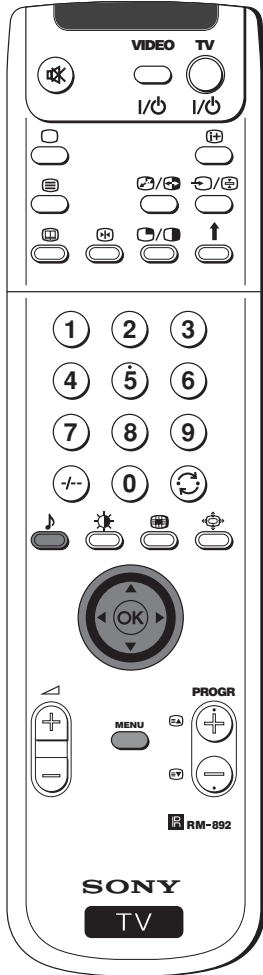
- ▶ **Main:** sound from projection TV set
- ▶ **Centre in:** sound from external amplifier

\* Can be only altered if "Personal" mode is selected.



**GB**

Continued...



**4** Push the joystick to ◀ or ▶ to alter the selected item, then press the **OK** button to store the new adjustment.

**5** Repeat steps 3 and 4 to alter the other items.

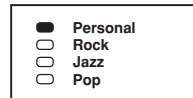
**6** Press the **MENU** button to exit and return to the normal TV screen.

## Changing Sound Mode Quickly

**i** You can quickly change Sound mode without entering the Sound Control menu screen.

**1** Press the **♪** button on the remote control to directly access to the Sound Mode.

**2** Push the joystick to ▼ or ▲ to select your desired sound mode (**Personal**, **Rock**, **Jazz** or **Pop**), then press the **OK** button to remove the display from the screen.



**Note:** this function will not work in digital text mode or when viewing a channel which broadcasts digital text. In those instances please use the menu system as described above.

## Menu System

# Using the Sleep Timer

**i** You can select a time period for the TV to switch itself automatically into the standby mode.



**1** Press the **MENU** button on the remote control to display the menu on the screen.

**2** Push the joystick to **▼** button to select the **⊖** symbol, then push to **▶** to enter to the **TIMER** menu.

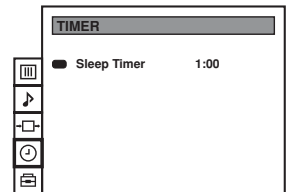
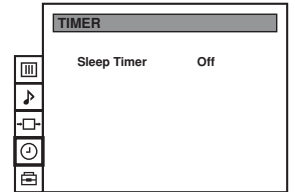
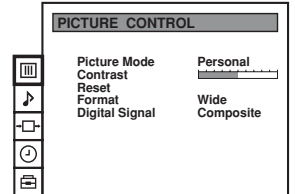
**3** Push the joystick to **▶**, then push to **◀** or **▶** repeatedly to set the time period delay

Off ▶ 0:30 ▶ 1:00..... 4:00 hours

**4** Press the **OK** button.

**5** Press the **MENU** button to exit and return to the normal TV screen.

**👉** *One minute before the projection TV switches into standby mode, the indication 0:01 is displayed on the screen automatically.*



**GB**


- Notes:**
- When watching the TV, press the **⊕** button on the remote control to display the time remaining.
  - To return to normal operation from standby mode, press the **TV I/O** button on the remote control.

# Manually Tuning the TV

**i** Use this function to preset channels or a video input source one by one to the programme order of your choice.



**1** Press the **MENU** button on the remote control to display the menu on the screen.

**2** Push the joystick to **▼** to select the  symbol, then push to **▶** to enter to the **PRESET** menu.

**3** Push the joystick to **▼** or **▲** to select **Manual Programme Preset**, then push to **▶**.

**4** Push the joystick to **▼** or **▲** to select on which programme number you want to preset a channel, then push to **▶**.

**5** Push the joystick to **▼** or **▲** to select the TV Broadcast system (I for analogue channels or DIG for digital channels) or a video input source (AV1, AV2...), then push to **▶** to highlight the number digit of **CHAN** column.

**6** Press the number buttons to enter the channel number of the TV Broadcast or push the joystick to **▼** or **▲** to search for the next available channel.  
If you do not wish to store this channel, push the joystick to **▲** or **▼** to continue searching for the desired channel.

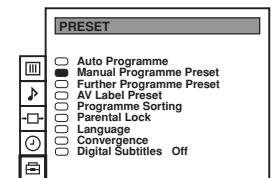
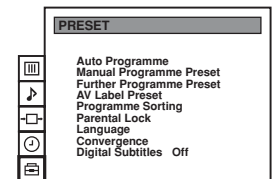
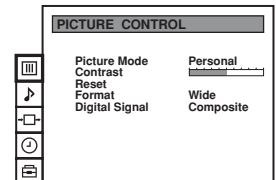
**7** a) For analogue channels or video input source:  
If this is the desired channel you wish to store, press the **OK** button.

b) For digital channels:  
Push the joystick to **▶** to enter to the **SERV** column, then press the number buttons or push to **▲** or **▼** to select the service number of your selected channel.  
Press the **OK** button to store.

**8** Repeat steps 4 to 7 if you wish to store more channels.

**9** Press the **MENU** button to exit and return to the normal TV screen.

 Your projection TV is now ready for use.



PROG	SYS	CHAN	SERV	LABEL
0	I	C 40		MV-CH
1	DIG	C 41	06	TVE-1
2	I	C 31		TVE-2
3	DIG	C 34	02	ANT-3
4	I	C 27		TELE 5
5	I	C 47		C PLUS
6	DIG	C 44	03	-----
7	DIG	C 23	04	-----
8	DIG	C 23	05	CNN -
9	DIG	C 23	01	TWO

PROG	SYS	CHAN	SERV	LABEL
0	I	C 40		MV-CH
1	DIG	C 41	06	TVE-1
2	I	C 31		TVE-2
3	DIG	C 34	02	ANT-3
4	I	C 27		TELE 5
5	I	C 47		C PLUS
6	DIG	C 44	03	-----
7	DIG	C 23	04	-----
8	DIG	C 23	05	CNN -
9	DIG	C 23	01	BBC-TWO

PROG	SYS	CHAN	SERV	LABEL
0	I	C 40		MV-CH
1	DIG	C 41	06	TVE-1
2	I	C 31		TVE-2
3	DIG	C 34	02	ANT-3
4	I	C 27		TELE 5
5	I	C 47		C PLUS
6	DIG	C 44	03	-----
7	DIG	C 23	04	-----
8	DIG	C 23	05	CNN -
9	DIG	C 23	01	BBC-TWO

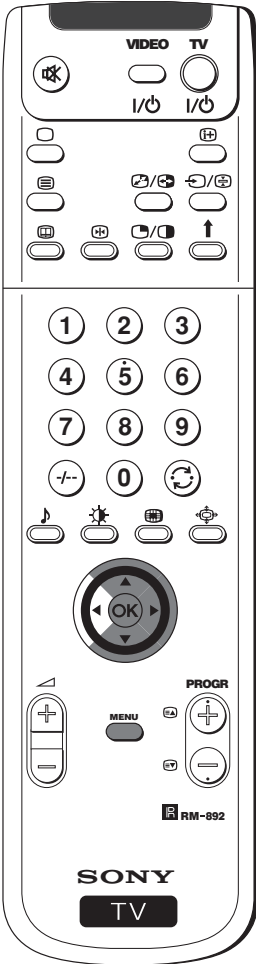
PROG	SYS	CHAN	SERV	LABEL
0	I	C 40		MV-CH
1	DIG	C 41	06	TVE-1
2	I	C 31		TVE-2
3	DIG	C 34	02	ANT-3
4	I	C 27		TELE 5
5	I	C 47		C PLUS
6	DIG	C 44	03	-----
7	DIG	C 23	04	-----
8	DIG	C 23	05	CNN -
9	DIG	C 23	01	BBC-TWO




# Using the "Further Programme Preset" function

**i** With this feature you can:

- a) Even normally the automatic fine tuning (AFT) is operating, however you can manually fine-tune the TV (only available on analogue channels) to obtain a better picture reception if the picture is distorted or
- b) preset the AV3 output for the programme positions of channels with scrambled signals (eg 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 screen.

**2** Push the joystick to **▼** to select the  symbol, then push to **▶** to enter to the **PRESET** menu.

**3** Push the joystick to **▼** or **▲** to select **Further Programme Preset**, then push to **▶**.

**4** Push the joystick to **▼** or **▲** to select the relevant programme number, then push to **▶** repeatedly to select:


- a) **AFT** or
- b) **DECODER**.

The selected item changes colour.

**i** AFT will only be available on analogue channels.

**5 a) AFT**  
Push the joystick to **▼** or **▲** to fine tune the channel frequency over a range of -15 to +15, then press the **OK** button.  
Repeat steps 4 and 5a) if you wish to fine tune other channels.

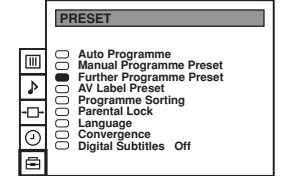
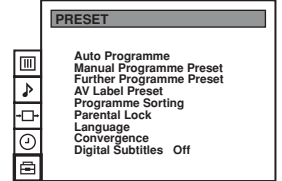
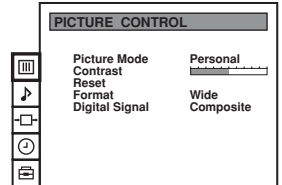
**b) DECODER**  
Push the joystick to **▼** or **▲** to select **AV3**, then press the **OK** button.

**i** The picture from the decoder connected to the Euro AV  on the back of the projection TV will appear on this programme number.

Repeat steps 4 and 5b) to preset the AV3 output for other programme positions.

**6** Press the **MENU** button to exit and return to the normal TV screen.

 Your projection TV is now ready for use.



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

FURTHER PROGRAMME PRESET		
PROG	AFT	DECODER
0	Off	Off
1	On	Off
2	On	Off
3	On	Off
4	On	Off
5	On	Off
6	Off	Off
7	Off	Off
8	Off	Off
9	On	Off

FURTHER PROGRAMME PRESET		
PROG	AFT	DECODER
0	On	AV3
1	On	Off
2	On	Off
3	On	Off
4	On	Off
5	On	Off
6	Off	Off
7	Off	Off
8	Off	Off
9	On	Off

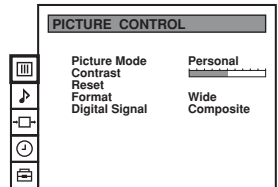
GB


# Locking Programmes

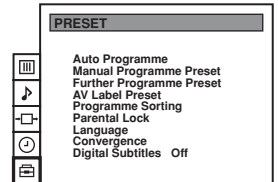
This feature enables you to prevent undesirable broadcasts appearing on the screen. We suggest you use this function to prevent children from watching programmes you consider unsuitable.



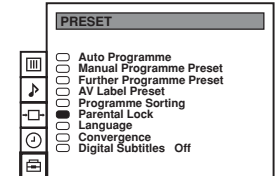
**1** Press the **MENU** button on the remote control to display the menu on the screen.



**2** Push the joystick to **▼** to select the  symbol, then push to **▶** to enter to the **PRESET** menu.





**3** Push the joystick to **▼** or **▲** to select **Parental Lock**, then push to **▶**.





**4** Push the joystick to **▼** or **▲** to select the programme number with the channel you wish to block, then press the **OK** button.

PARENTAL LOCK			
PROG	SYS	CHAN	LABEL
<input type="checkbox"/>	0	I	C 40 MV-CH
<input type="checkbox"/>	1	DIG	C 41 TVE-1
<input type="checkbox"/>	2	I	C 31 TVE-2
<input type="checkbox"/>	3	DIG	C 34 ANT-3
<input type="checkbox"/>	4	I	C 27 TELE 5
<input type="checkbox"/>	5	I	C 47 C PLUS
<input type="checkbox"/>	6	DIG	C 44 -----
<input type="checkbox"/>	7	DIG	C 23 -----
<input type="checkbox"/>	8	DIG	C 35 CNN -
<input checked="" type="checkbox"/>	9	DIG	C 28 -----

**i** The  symbol appears before the programme position to indicate this programme is now blocked. To unblock the programme, press the **OK** button again. The  symbol disappears.

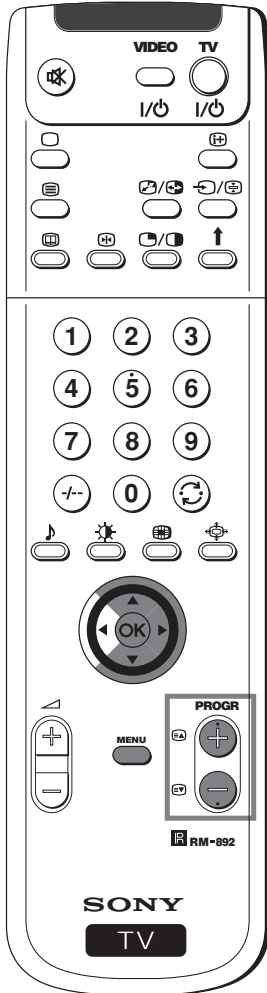
**5** Repeat step 4 if you wish to block other channels.

**6** Press the **MENU** button to exit and return to the normal TV screen.

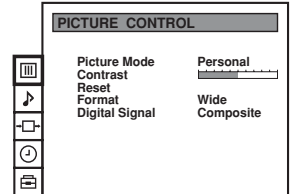
 When you select a blocked programme the screen appears in black, with  symbol.


# Skipping Programme positions

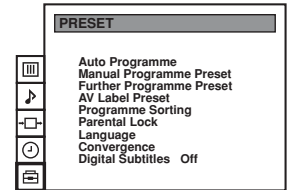
**i** You can programme this projection TV to skip any unwanted programme numbers when they are selected with the **PROGR +/-** buttons. To cancel this function afterwards, proceed in the same way as described below by selecting the appropriate TV system (I or DIG) instead of "--" in step 5.



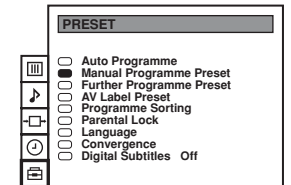
**1** Press the **MENU** button on the remote control to display the menu on the screen.



**2** Push the joystick to **▼** to select the  symbol, then push to **▶** to enter to the **PRESET** menu.



**3** Push the joystick to **▼** or **▲** to select **Manual Programme Preset**, then push to **▶**.



**4** Push the joystick to **▼** or **▲** to select the programme position you want to skip, then push to **▶** to enter to the **SYS** column.

MANUAL PROGRAMME PRESET				
PROG	SYS	CHAN	SERV	LABEL
0	I	C 40		MV-CH
1	DIG	C 41	06	TVE-1
2	I	C 31		TVE-2
3	DIG	C 34	02	ANT-3
4	I	C 27		TELE 5
5	I	C 47		C PLUS
6	DIG	C 44	03	----
7	DIG	C 23	04	----
8	DIG	C 23	05	CNN -
9	DIG	C 23	01	BBC-TWO

**5** Push the joystick to **▼** to select "--", then press the **OK** button to store.

MANUAL PROGRAMME PRESET				
PROG	SYS	CHAN	SERV	LABEL
0	I	C 40		MV-CH
1	DIG	C 41	06	TVE-1
2	I	C 31		TVE-2
3	DIG	C 34	02	ANT-3
4	I	C 27		TELE 5
5	I	C 47		C PLUS
6	DIG	C 44	03	----
7	DIG	C 23	04	----
8	DIG	C 23	05	CNN -
9	--	C 23	01	BBC-TWO

**6** Repeat steps 4 and 5 to skip other unused programme positions.

**7** Press the **MENU** button to exit and return to the normal TV screen.

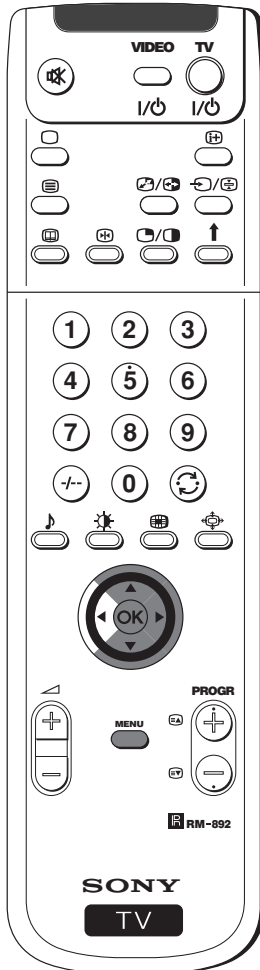
**👉** When changing channels (TV Broadcasts) with the **PROGR +/-** buttons, the skipped programme positions do not appear. You can, however, still select them using the number buttons.

**GB**


## Menu System

# Labelling a channel (analogue channels only)

- i** Names for analogue channels (TV Broadcasts) 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). Using this function, you can easily identify which channel (TV Broadcasts) or video source you are watching.



**1** Press the **MENU** button on the remote control to display the menu on the screen.

**2** Push the joystick to **▼** to select the  symbol, then push to **▶** to enter to the **PRESET** menu.

**3** Push the joystick to **▼** or **▲** to select **Manual Programme Preset**, then push to **▶**.

**4** Push the joystick to **▼** or **▲** to select the programme number with the analogue channel you wish to name.


**5** Push the joystick to **▶** repeatedly until the first element of the **LABEL** column is highlighted.

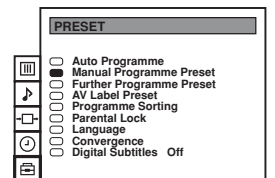
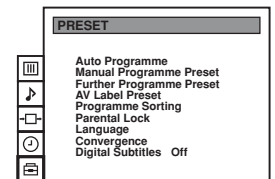
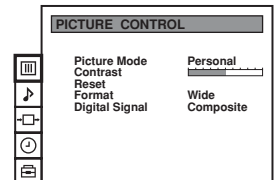
**6** Push the joystick to **▼** or **▲** to select a letter or number (select **"-"** for a blank), then push to **▶** to confirm this character. Select the other four characters in the same way.

**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 exit and return to the normal TV screen.

 When you select a named channel, the name appears for a few seconds on the screen.



MANUAL PROGRAMME PRESET				
PROG	SYS	CHAN	SERV	LABEL
0	I	C 40	----	----
1	DIG	C 41	06	----
2	I	C 31	----	----
3	DIG	C 34	02	----
4	I	C 27	----	----
5	I	C 47	----	----
6	DIG	C 44	03	----
7	DIG	C 23	04	----
8	DIG	C 23	05	----
9	DIG	C 23	01	----

MANUAL PROGRAMME PRESET				
PROG	SYS	CHAN	SERV	LABEL
0	I	C 40	----	----
1	DIG	C 41	06	----
2	I	C 31	----	----
3	DIG	C 34	02	----
4	I	C 27	----	----
5	I	C 47	----	----
6	DIG	C 44	03	----
7	DIG	C 23	04	----
8	DIG	C 23	05	----
9	DIG	C 23	01	----

MANUAL PROGRAMME PRESET				
PROG	SYS	CHAN	SERV	LABEL
0	I	C 40	----	----
1	DIG	C 41	06	----
2	I	C 31	----	----
3	DIG	C 34	02	----
4	I	C 27	----	----
5	I	C 47	----	----
6	DIG	C 44	03	----
7	DIG	C 23	04	----
8	DIG	C 23	05	----
9	DIG	C 23	01	----


## Menu System

# Displaying subtitles for digital channels

**i** With this feature you can view subtitles (if available) on the TV screen when watching digital channels. When watching analogue channels you can view subtitles via teletext.



**1** Press the **MENU** button on the remote control to display the menu on the screen.

**2** Push the joystick to **▼** to select the  symbol, then push to **▶** to enter to the **PRESET** menu.


**3** Push the joystick to **▼** or **▲** to select **Digital Subtitles**, then push to **▶**.

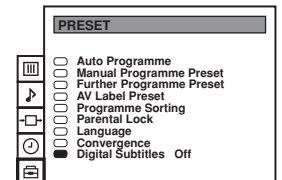
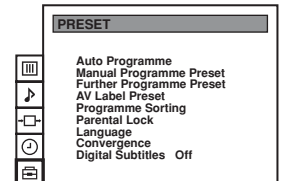
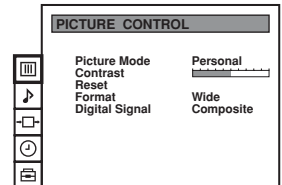
**4** Push the joystick to **◀** or **▶** to select the language in which you wish the subtitles to appear. You can choose from **English, Welsh or Gaelic**.

**i** When you wish to cancel subtitles, set to **Off**.

**5** Press the **OK** button to confirm your selection.

**6** Press the **MENU** button to exit and return to the normal TV screen.

 When you select a digital channel which broadcasts subtitles, the subtitles appear on the bottom of the screen in the chosen language.



**GB**

## Menu System

# Selecting the Output Source for the Euro AV connectors

- i** Using this function you can record on your VCR any signal coming from an external equipment connected to the Euro AV connectors  $\text{G}\rightarrow 2$  or  $\text{G}\rightarrow 3$  placed on the rear of the projection TV. In that case you have to select the output source as described below (if your VCR support Smartlink, this procedure is not necessary).



**1** Press the **MENU** button on the remote control to display the menu on the screen.

**2** Push the joystick to  $\blacktriangledown$  to select the  $\square$  symbol, then push to  $\blacktriangleright$  button to enter to the **VIDEO CONNECTION** menu screen.

**3** Push the joystick to  $\blacktriangledown$  or  $\blacktriangle$  button to highlight:

**TV Screen** (input source for the TV screen) or

**Output** (output source available for  $\text{G}\rightarrow 2$  and  $\text{G}\rightarrow 3$  Euro AV connectors).

Push the joystick to  $\blacktriangleright$  to confirm.

**4** Push the joystick to  $\blacktriangleleft$  or  $\blacktriangleright$  repeatedly to select the desired source:

**TV Screen** TV, AV1, RGB, AV2, YC2 or AV3

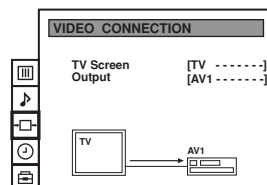
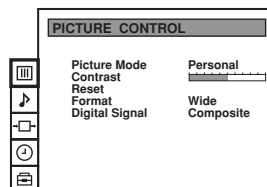
**Output** TV, AV1, AV2, YC2, AV3 or AUTO

Then press the **OK** button to confirm.

**⚠** If you select "AUTO", the output signal will always be the same one that is displayed on the screen.

**⚠** If you have connected a decoder, please remember to change back the Output to "TV" for correct unscrambling.

**5** Press the **MENU** button to exit and return to the normal TV screen.

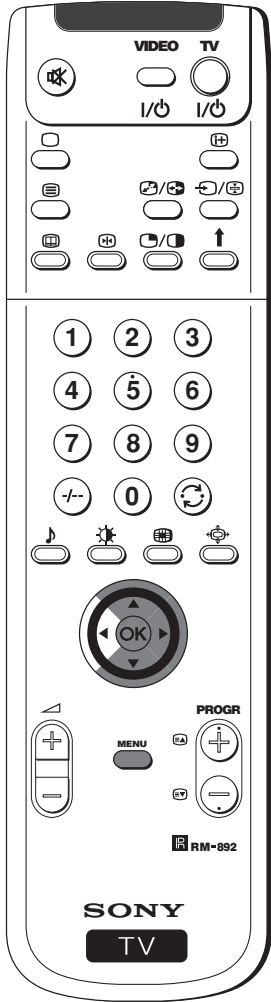


**👉** The selected signal is available for your optional equipment connected to the appropriate Euro AV connector.


## Menu System

# Labelling of Input Sources

**i** This function enables you to designate a name to the optional equipment you have connected to the sockets of this projection TV. This name can be up to 5 characters (letters or numbers).



**1** Press the **MENU** button on the remote control to display the menu on the screen.

**2** Push the joystick to **▼** to select the  symbol, then push to **▶** to enter to the **PRESET** menu screen.

**3** Push the joystick to **▼** or **▲** to select **AV Label Preset**, then push to **▶**.


**4** Push the joystick to **▼** or **▲** to select the input source you wish to name (eg AV2), then push to **▶** to highlight the first element of the **LABEL** column.

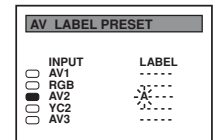
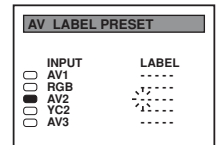
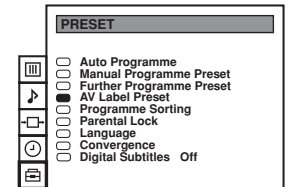
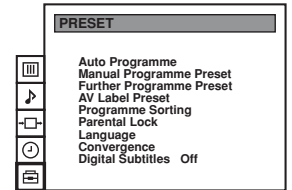
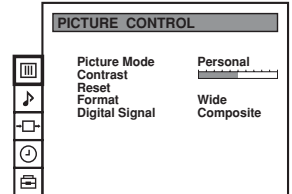
**5** Push the joystick to **▼** or **▲** to select a letter or number (select **"-"** for a blank) then push to **▶** to confirm this character. Select the other four characters in the same way.

**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 exit and return to the normal TV screen.

 Whenever the equipment with the labeled input is selected for use, the name appears for a few seconds on the screen.




GB

# Displaying and Viewing EPG





**i** The electronic Programme Guide (EPG) is a guide which provides programme information for all digital channels supporting EPG. When looking for information you can search by theme (sports, art, etc.), date or time (e.g. broadcasts between 8 and 9 pm). When you have found a programme you can go directly to this programme, use the timer to remind you of it or preset your VCR with Smartlink.




## Displaying the EPG

**1** Press the  button on the remote control to display the electronic programme guide (EPG) on the screen.

**i** You may see the message "EPG INFORMATION IS TEMPORARILY UNAVAILABLE" whilst waiting for the EPG to appear on screen.


**2** Push the joystick to , ,  or  to move the on-screen cursor around the guide.





**3** Press the  button again to exit and return to the normal TV screen.





Tue 22 DEC 15:00-6		Press OK to view data for all available channels Press to return to programme list.		12
22	6	2	BBC 2 International Cricket ...	15:00-16:00
23	9	4	Channel 4 Racing From Epsom ...	16:00-16:30
24	12	5	C 4 Film: Rachel And The ...	16:30-17:00
25	15	1	BBC 1 The Little Pet Shop ...	16:30-16:45
25	16	3	HTV Bernards Watch	16:50-16:55
26	21	1	BBC 1 Bogger And Bogger N ...	16:50-16:55
27	24	1	BBC 1 Bobby Kippers Prov 5 ...	16:55-16:55
28	3	3	HTV Sabrina The Teenage ...	16:55-16:55
28	Mon	4	BBC 1 Vets In Practice	16:55-17:00

## 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 onward.




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


**2** Push the joystick to  or  to highlight the **date** column, then push to  or  to select your chosen date.

**3** Push the joystick to  or  to highlight the **time** column, then push to  or  to select your chosen time.

**4** Press the OK button. The EPG will display programme information according to the date and time you selected.

**5** Push the joystick to  to highlight **programme type** column, then push to  or  to select  Films,  News,  Lifestyle,  Sport,  Children Programmes,  Entertainment or  Education.

**6** Push the joystick to  or  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 to exit and return to the normal TV screen.

Tue 22 DEC 15:00-6		Press OK to view data for all available channels Press to return to programme list.		12
22	6	2	BBC 2 International Cricket ...	15:00-16:00
23	9	4	Channel 4 Racing From Epsom ...	16:00-16:30
24	12	5	C 4 Film: Rachel And The ...	16:30-17:00
25	15	1	BBC 1 The Little Pet Shop ...	16:30-16:45
25	16	3	HTV Bernards Watch	16:50-16:55
26	21	1	BBC 1 Bogger And Bogger N ...	16:50-16:55
27	24	1	BBC 1 Bobby Kippers Prov 5 ...	16:55-16:55
28	3	3	HTV Sabrina The Teenage ...	16:55-16:55
28	Mon	4	BBC 1 Vets In Practice	16:55-17:00

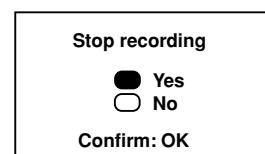
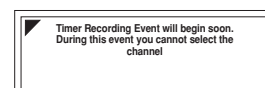
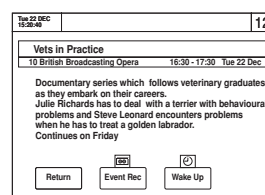
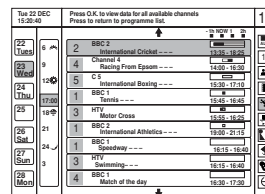


# Recording Programmes using EPG



- 1 Press the button on the remote control to display the programme guide on the screen.
- 2 Push the joystick to or to highlight the **programme** column, then push to or to select your desired programme.
- 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 (back to EPG), (to record a programme) or (to set the programme to switch on automatically).
- 5 Push the joystick to or to select one of these symbols then press the **OK** button to confirm your selection. The EPG appears 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 **TV I/O** button before the timer recording starts to leave your projection 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 **TV I/O** button whilst one of the displays are still on screen to leave your projection TV in standby mode. The standby indicator on the front of the set 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. The **Stop recording** menu appears on the screen. Select **Yes** or **No** by pushing the joystick to or , then press **OK** to confirm your choice.

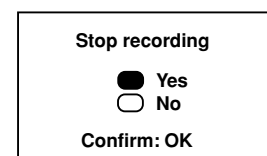
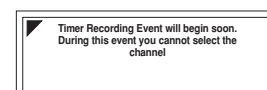
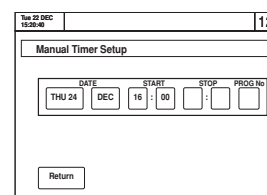
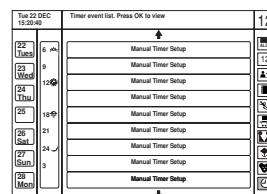
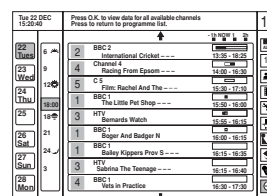


GB

# Setting The Manual Timer



- 1 Press the button on the remote control to display the EPG on the screen.
- 2 Push the joystick to or to highlight the **programme type** column, then push to to select the timer symbol .
- 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 Push the joystick to to enter the **programme** column.
- 5 Push the joystick to or 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 end time.
- 6 Push the joystick to to select the date area then push to or to select the date.
- 7 Push the joystick to to confirm the date then push to or to select the month.
- 8 Push the joystick to to confirm the month and to enter the start time.
- 9 Push the joystick to or to select the time when you want the timer to switch on, preferably several minutes before you set your video recorder to start recording.
- 10 Push the joystick to to confirm the entry and to enter the switch-off time.
- 11 Push the joystick to or to select the time you want the timer to switch off, preferably after your video has stopped recording.
- 12 Push the joystick to to confirm the entry and to enter the programme number.
- 13 Press the **OK** button to save the settings, then select and press **OK** button to return to the **Manual Timer Setup** menu.
- 14 Select another available slot if you wish to record a further programme. Otherwise, push the joystick to to enter the **programme type** column, then press the **OK** button to return to the EPG.
- 15 If you have finished viewing programmes on your projection TV, press the **TV I/O** button before the timer recording starts to leave your projection 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 a display will appear on screen advising you that, if you change channels now, you automatically cancel the recording.
- 16 If you do not wish to cancel or view the recording, press the **TV I/O** button whilst the display is still on screen to leave your projection TV in standby mode. The standby indicator on the front of the set will flash to show that the timer record operation is active. If, however, you choose to change programmes, the **Stop recording** menu appears on the screen. Select Yes or No by pushing the joystick to or , then press **OK** to confirm your choice.



## Teletext

# Viewing Standard Teletext (analogue channels only)


**i** Teletext is an information service transmitted by most TV stations.

**A** Make sure to use a TV channel with a strong signal, otherwise teletext errors may occur.



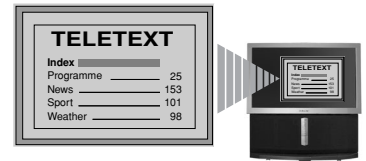
## Selecting Teletext

**1** Select the TV channel which carries the teletext service you wish to view.

**2** Press the  button on the remote control to switch on the teletext.









**3** Input three digits for the page number, using the numbered buttons on the remote control. (if you have made a mistake, type in any three digits and then, re-enter the correct page number).

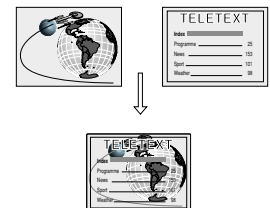
**4** Press the  button to switch off teletext.



GB

## Using other Teletext functions

TO	PRESS THE BUTTON
Access the next or preceding page	 for next page or  for the preceding page
Superimpose teletext on to the TV	 Press  again to cancel teletext mode.
Freeze a teletext page	 Press  again to cancel the freeze.
Reveal concealed information (e.g.: answer to a quiz)	 Press  again to cancel.



## Using Fastext

**i** Fastext lets you access pages with one button stroke.

When Fastext is broadcast, a colour coded menu appears at the bottom of the teletext page. Press the colour button (red, green, yellow or blue) on the remote control to access the corresponding page.

## Viewing Digital Text

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



### Selecting the dedicated digital text channel

- 1** To view the dedicated digital text 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.
- 2** Once the text channel is displayed, if necessary, press the **≡** button on the remote control to switch on the dedicated digital text.
- 3** Push to **▲**, **▼**, **◀** or **▶** as instructed on the screen to select your requirement, then press the **OK** button to display the chosen information.
 

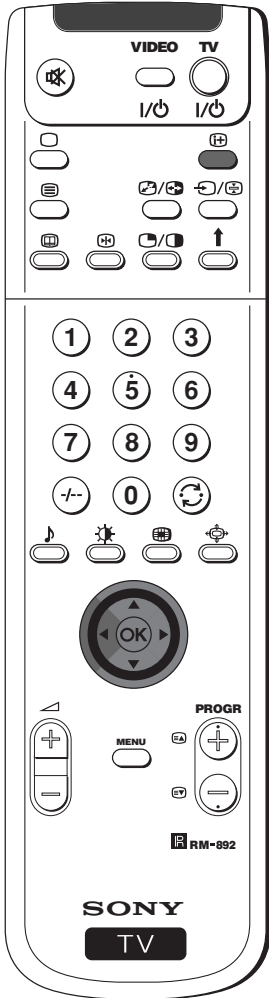
**i** On some pages the TV programme will also be displayed. You can view the other TV programmes available on the selected channel by pushing the joystick to **◀** or **▶**.
- 4** Alternatively, you can use the numbered and coloured buttons on the remote control to directly enter the page number required and to display the various pages of text information.
- 5** If when viewing the text pages, you are requested to select "OK", "Exit" or "Cancel", press the **OK** button for "OK" or the **↻** button for "Exit" or "Cancel".
- 6** When you have finished viewing digital text, press the **≡** button or the **PROGR +/-** buttons, and then select an alternative digital channel.

### Selecting digital text

- 1** Select the digital TV channel which carries the text service you wish to view.
- 2** Press the **≡** button on the remote control to switch on the text service.
- 3** Repeat steps 3 to 5 as explained above to operate text service.
- 4** When you have finished viewing digital text, press the **≡** button to return to the normal TV screen.

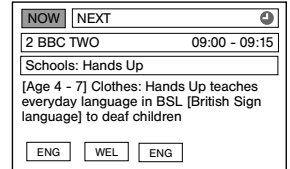
# Using the info menu screen

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

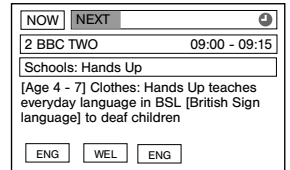


**1** Press the **INFO** button on the remote control to display the info menu on screen.

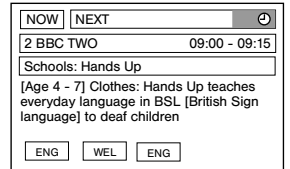
This display gives a brief description about the programme currently being transmitted. When you wish to exit the info menu press the **INFO** button again.



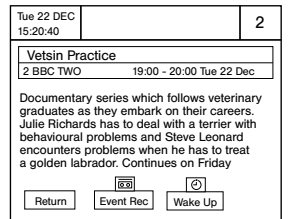
**2** To obtain a description of what is on next, push the joystick to **▶** to highlight **NEXT**.



**3** Should you wish to record the programme that is on next, push the joystick to **▶** to highlight **⏺**, 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).



**5** Push the joystick to **◀** or **▶** to select one of these symbols then press the **OK** button to confirm your selection. Follow the on-screen instructions until the info menu reappears on screen.

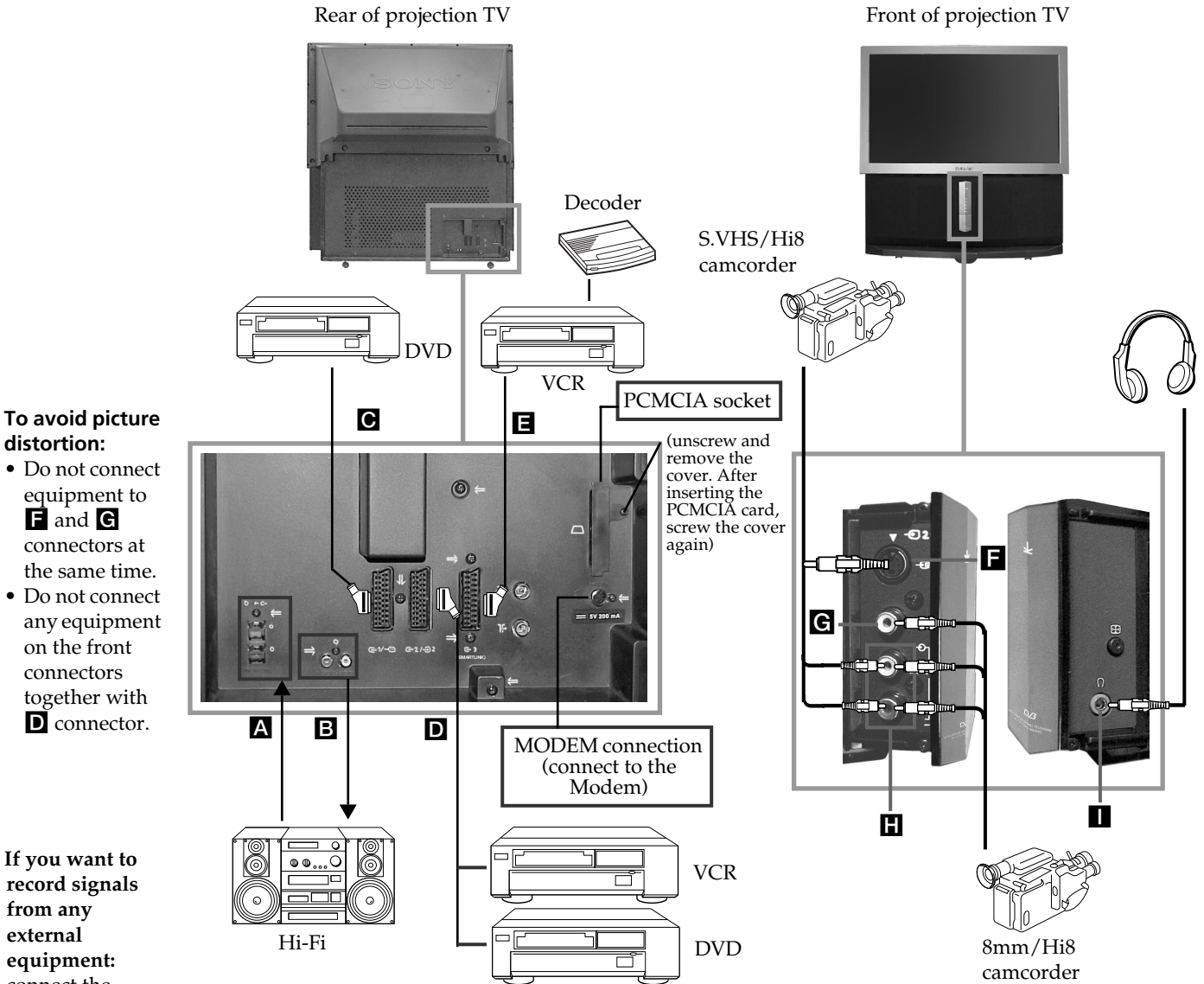
**Note:** If available, you can change the language of the audio output. Push the joystick to **▼** to highlight one of the language bars at the bottom of info screen, then push the joystick to **◀** or **▶** to select the language in which you wish to hear the programme. Push to **▲** to return highlight to the top of the display.

GB

# Optional Connections

## Connecting Optional Equipment

**i** Using the following instructions, you can connect a wide range of optional equipment to this set.



**To avoid picture distortion:**

- Do not connect equipment to **F** and **G** connectors at the same time.
- Do not connect any equipment on the front connectors together with **D** connector.

If you want to record signals from any external equipment: connect the recording device to the **E** socket.

**Acceptable input signal**

- A** Centre speaker input  
Set "Speaker" on the SOUND CONTROL menu to "Centre in".
- B** No inputs
- C** Audio/video and RGB signal
- D** Audio/video and S video signal
- E** Audio/video signal

**Available output signal**

- No outputs
- Audio signal
- Video/audio from TV tuner
- Video/audio from selected source
- Video/audio from selected source (the same output source as the  $\text{G} \rightarrow 2 / \text{S} \rightarrow 2$  connector)
- No output
- No output
- No output
- Audio signal to headphones

# Using Optional Equipment

## Additional Information when connecting equipment

### Connecting a VCR

We recommend you connect your VCR to the **D** or **E** socket using a scart lead. If you do not have a scart lead, use the "Manually Tuning the TV" section of this instruction manual to tune in the VCR signal to TV programme number "0". Also refer to your VCR instruction manual to get the VCR test signal.

If your video supports Smartlink please refer the "Smartlink" section of this instruction manual.

### Connecting to External Audio Equipment


#### 1 To listen to the audio of your projection TV on the Hi-Fi equipment:

Plug in your Hi-Fi equipment to the **B** sockets on the rear of the projection TV if you wish to amplify the audio output from the TV.


The output level from **B** sockets can be varied by adjusting the volume of the headphones. Refer to the "Adjusting the sound" section of this instruction manual to adjust the volume of the headphones.

#### 2 To listen to the Dolby Prologic system sound on the set speakers:


Plug in your Dolby Prologic system decoder amplifier to the **A** socket on the rear of the projection TV if you wish to listen to the audio output from your equipment on the projection TV speaker. If you have a Dolby amplifier, connect the centre output from your amplifier to the **A** socket to use the projection TV as a centre speaker. Refer to the "Adjusting the Sound" section of this instruction manual and set the option "Speaker" to "Centre in".




 Remember that the maximum input level of this input is 30 W. Be careful never to over this limit.

### For mono equipment


Connect the phono plug to the L/G/S/I socket on the front of the TV and select the  2 input signal using the instructions on this page below. Finally, refer to the "Adjusting the Sound" section of this manual and select "A" on the sound menu screen.

## Select and View the Input Signal






 In order to get the input signal of a connected equipment onto the TV screen, you need to select the symbol of the connector to which you have connected the device.

e. g. : Your VCR is connected to the connector with the symbol . Press the button  on the remote control repeatedly until you see the symbol  on the screen.




- 1 Connect your equipment to the designated projection TV socket, as it is indicated on the previous page.
- 2 Press the  button repeatedly on your remote control until the correct input symbol appears on the screen.

#### Symbol      Input signals

-  1 • Audio/video input signal through the Euro AV connector **C**
-  2 • RGB input signal through the Euro AV connector **C**
-  3 • Audio/Video input signal through the Euro AV connector **D** or the phono sockets **H** and **G**
-  4 • Audio/S Video input signal through the Euro AV connector **D** or the sockets **H** and **F**
-  5 • Audio/Video input signal through the Euro AV connector **E**

3 Switch on the connected equipment.

4 To return to the normal TV picture, press the  button on the remote control.

## Optional Connections

# Smartlink

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

### For Smartlink you need:

- A VCR which supports Smartlink, NextView Link, Easy Link or Megalagic.

Megalagic is a trademark of Grundig Corporation.

EasyLink is a trademark of Philips Corporation.

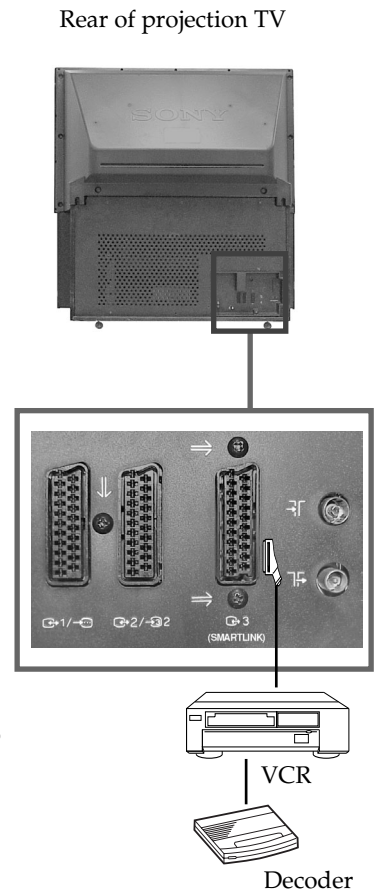
- A fully-wired 21 pin SCART cable to connect your VCR to the Euro AV connector **3** (SMARTLINK) on the rear of the Projection TV.

### The features of Smartlink are:

- Tuning information such as the channel overview are downloaded from the projection TV set to the VCR.
- Direct projection TV recording: While watching TV you need to press just one button on the VCR to record this programme.
- Projection TV in standby mode: Press the "Play ▶" button on your VCR to switch the TV automatically on.

**A** If you have connected a decoder to a VCR which supports Smartlink feature, select the menu Further Programme Preset in the **PRESET** menu and select **DECODER AV3** to each codified channel. For more details, please refer to the section "Using the Further Programme Preset function" of this instruction manual.

**A** For more information on Smartlink, please refer to the Instruction Manual of your VCR.

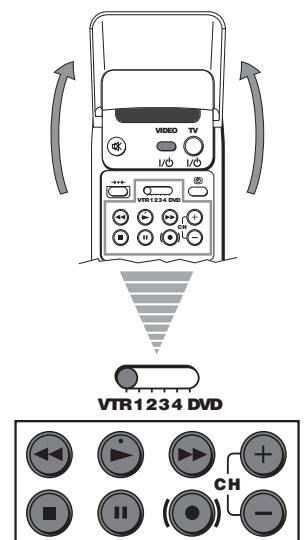


## Remote Control of other Sony Equipment

**i** Using the buttons underneath the cover of the remote control you can control other Sony equipment.

- 1** Open the cover of the Remote Control.
- 2** Set the selector VTR 1234 DVD according to the equipment you want to control:
  - VTR 1 Beta VCR
  - VTR 2 8 mm VCR
  - VTR 3 VHS VCR
  - VTR 4 Digital Video (DCR-VX 1000/9000 E, VHR-1000)
  - DVD Digital Video Disk
- 3** Use the buttons underneath the cover on the remote control to operate the equipment.

- If your equipment has a COMMAND MODE selector, set this selector to the same position as the VTR 1234 DVD selector on this set Remote Control.
- If the equipment does not have a certain function, the corresponding button on the remote control will not work.



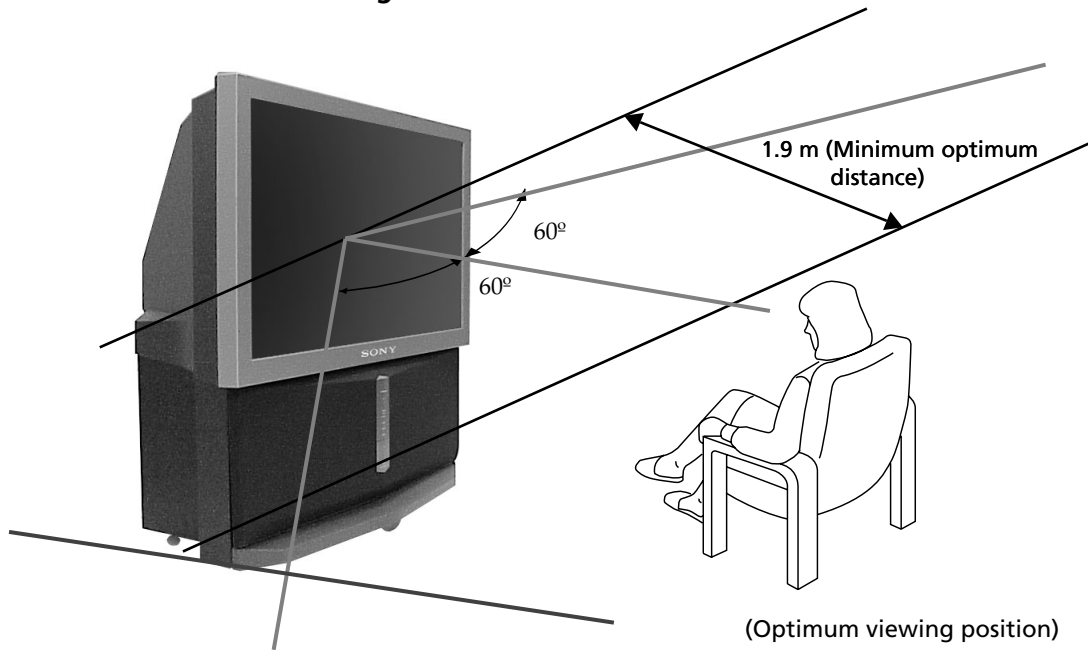


## Additional Information

# Optimum Viewing Area

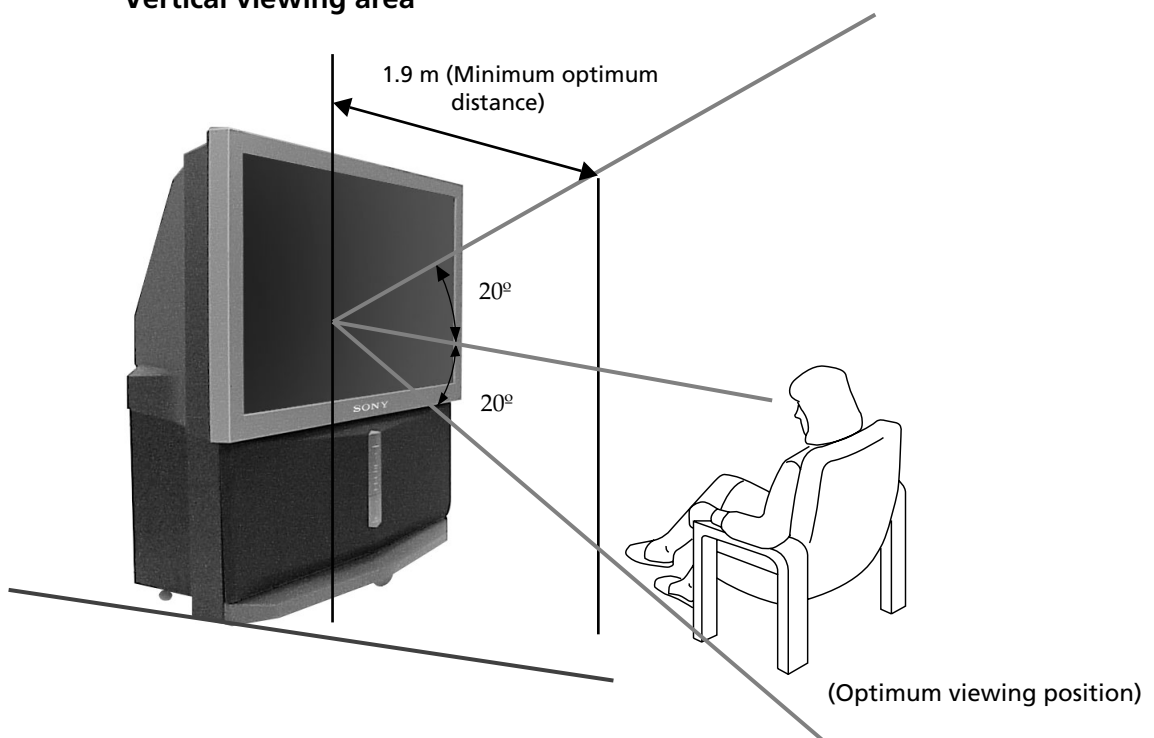
**i** For the best picture quality, try to position the projection TV so that you can view the screen from within the areas shown below.

### Horizontal viewing area



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### Vertical viewing area



## Additional Information

# Specifications

### TV system

I

### Colour system

PAL

NTSC 3.58, 4.43 (only Video In)

### Channel coverage












UHF: B21-B69

### Projected picture size





51 inches

Approx. 130 cm measured diagonally

### Rear Terminals

-  Centre speaker input terminals (2 terminals)
-  (L,R) audio outputs (phono jacks)
-  1/  21-pin Euro connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output
-  2/  2 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 (selectable the same output source as  2/  2 connector)
-  PCMCIA socket
-  MODEM connection

### Front Terminals

-  2 video input - phono jack
-  2 audio inputs - phono jacks
-  2 S video input - 4 pin DIN
-  Headphones jack - minijack stereo

### Sound output

2 x 30 W (music power)

2 x 15 W (RMS)

### Centre SP input

30 W (RMS) (using as the centre speaker)

### Power consumption

165 W

### Standby Power consumption

0.7 W

### Dimensions (w x h x d)

Approx. 1256 x 1264 x 650 mm

### Weight

Approx. 63 kg

### Accessories supplied

1 Remote Control (RM-892)

2 Batteries (IEC designated)

### Other features

Digital Comb filter (High resolution)

TELETEXT, Digital Text, Fastext, EPG

NICAM

Sleep Timer

Smartlink


PCMCIA connection










MODEM connection


Digital terrestrial reception

**Design and specifications are subject to change without notice.**

# Troubleshooting

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

Problem	Solution
No picture (screen is dark), no sound	<ul style="list-style-type: none"> <li>• Plug the projection TV in.</li> <li>• Press the  button on the front of the projection TV.</li> <li>• If the  indicator is on, press <b>TV I/II</b> button or a programme number button on the remote control.</li> <li>• Check the aerial connection.</li> <li>• Check that the selected video source is on.</li> <li>• Turn the projection TV off for 3 or 4 seconds and then turn it on again using the  button on the front of the projection TV.</li> </ul>
No picture on any channel after digital tuning.	<ul style="list-style-type: none"> <li>• Tune in the analogue channels available using the "Manually tuning the TV" instruction in this manual. If the problem continues, contact your local installer.</li> </ul>
Poor or no picture (screen is dark), but good sound	<ul style="list-style-type: none"> <li>• Using the MENU system, select the Picture Adjustment display.</li> <li>• Adjust the brightness, picture and colour balance levels.</li> <li>• From the Picture Adjustment display select <b>Reset</b> to return to the factory settings.</li> </ul>
Poor picture quality when watching a RGB video source.	<ul style="list-style-type: none"> <li>• Press the  button repeatedly on the remote control until the RGB symbol  is displayed on the screen.</li> </ul>
Good picture, no sound	<ul style="list-style-type: none"> <li>• Press the  +/- button on the remote control.</li> <li>• If  is displayed on the screen, press the  button on the remote control.</li> <li>• Check that "Main" speaker is selected on the SOUND CONTROL menu.</li> </ul>
No colour on colour programmes	<ul style="list-style-type: none"> <li>• Using the MENU system, select the Picture Adjustment display. Adjust the colour balance.</li> <li>• From the Picture Adjustment display select <b>Reset</b> to return to the factory settings.</li> </ul>
Distorted picture when changing programmes or selecting teletext	<ul style="list-style-type: none"> <li>• Turn off any equipment connected to the 21 pin Euro connector on the rear of the TV.</li> </ul>
Noisy picture when viewing TV channel	<ul style="list-style-type: none"> <li>• Adjust Fine Tuning (AFT) to obtain better picture reception. For details, please refer to the section "Using the Further Programme Preset function"</li> </ul>
Remote control does not function	<ul style="list-style-type: none"> <li>• Replace the batteries.</li> </ul>
The standby indicator  on the TV flashes even though the EPG is not programmed to record.	<ul style="list-style-type: none"> <li>• Contact your nearest Sony service centre.</li> </ul>

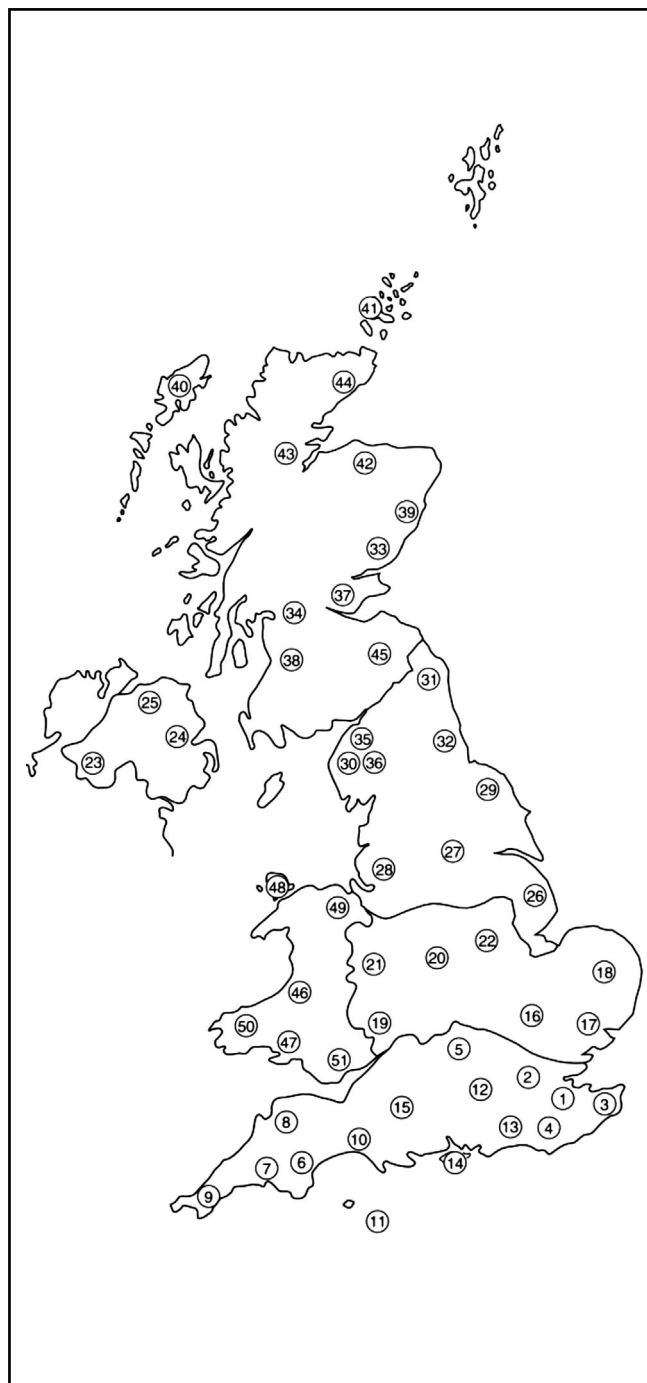
-  • If you continue to have these problems, have your TV serviced by qualified personnel or you can contact the Sony UK Digital HelpLine on 0870 600 1717.
- NEVER open the casing yourself.

## Additional Information

# Television Channel Number Guide for analogue channels

**i** Only the main transmitters are listed. Information regarding the regional sub-relay channel numbers can be obtained by contacting The BBC Engineering Information Dept., Telephone Number 020 7852 5040.

MAIN TRANSMITTERS	BBC1	BBC2	ITV	CH4	CH5
<b>London &amp; South East</b>					
① Bluebell Hill	40	46	43	65	-
② Crystal Palace	26	33	23	30	-
③ Dover	50	56	66	53	-
④ Heathfield	49	52	64	67	-
⑤ Oxford	57	63	60	53	49
<b>South-West</b>					
⑥ Beacon Hill	57	63	60	53	-
⑦ Caradon Hill	22	28	25	32	-
⑧ Huntshaw Cross	55	62	59	65	67
⑨ Redruth	51	44	41	47	37
⑩ Stockland Hill	33	26	23	29	-
<b>Channel Islands</b>					
⑪ Fremont Point	51	44	41	47	-
<b>South</b>					
⑫ Hannington	39	45	42	66	-
⑬ Midhurst	61	55	58	68	-
⑭ Rowridge	31	24	27	21	-
<b>West</b>					
⑮ Mendip	58	64	61	54	37
<b>East</b>					
⑯ Sandy Heath	31	27	24	21	39
⑰ Sudbury	51	44	41	47	-
⑱ Tacolneston	62	55	59	65	52
<b>Midlands (West)</b>					
⑲ Ridge Hill	22	28	25	32	-
⑳ Sutton Coldfield	46	40	43	50	-
㉑ The Wrekin	26	33	23	29	-
<b>Midlands (East)</b>					
㉒ Waltham	58	64	61	54	-
<b>Northern Ireland</b>					
㉓ Brougher Mountain	22	28	25	32	-
㉔ Divis	31	27	24	21	-
㉕ Limavady	55	62	59	65	-
<b>North</b>					
㉖ Belmont	22	28	25	32	56
㉗ Emley Moor	44	51	47	41	37
<b>North-West</b>					
㉘ Winter Hill	55	62	59	65	48
<b>North-East</b>					
㉙ Bilsdale West Moor	33	26	29	23	-
㉚ Caldbeck	30	34	28	32	56
㉛ Chatton	39	45	49	42	-
㉜ Pontop Pike	58	64	61	54	-
<b>Scotland</b>					
㉝ Angus	57	63	60	53	-
㉞ Black Hill	40	46	43	50	37
㉟ Sandale	22	28	-	-	-
㊱ Caldbeck	-	-	28	32	56
㊲ Craigkelly	31	27	24	21	48
㊳ Darvel	33	26	23	29	-
㊴ Durriss	22	28	25	32	67
㊵ Eitshal (Lewis)	33	26	23	29	-
㊶ Keelylang Hill	40	46	43	50	-
㊷ Knock More	33	26	23	29	-
㊸ Rosemarkie	39	45	49	42	-
㊹ Rumster Forest	31	27	24	21	-
㊺ Selkirk	55	62	59	65	52
<b>Wales</b>					
㊻ Blaenplwyf	31	27	24	21	56
㊼ Carmel	57	63	60	53	-
㊽ Llanddona	57	63	60	53	-
㊾ Moel-y-Parc	52	45	49	42	-
㊿ Presely	46	40	43	50	37
① Wenvoe	44	51	41	47	-



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