SONY

4-095-661-**11** (1)

409566111

100 Hz WIDE *Digital Projection TV*

Operating Instructions **GB**

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

KP-44DX2

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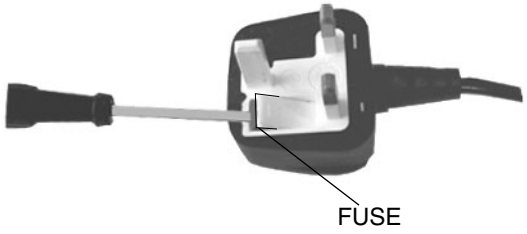
NOTICE FOR CUSTOMERS IN THE UNITED KINGDOM

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 ⏚ 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.

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Introduction

Thank you for choosing this Sony 100 Hz Digital 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.
- Buttons shaded white on the remote control show you the buttons you have to press to follow the sequence of the instructions.
- Informs you of the result of the instructions.

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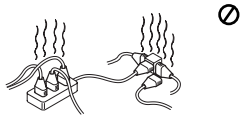
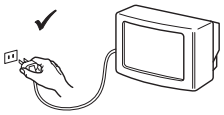
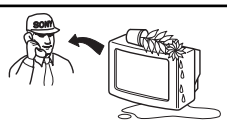
Safety Information



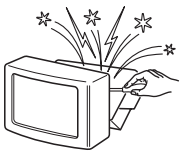
This set is to operate on a 220-240V AC supply only. Take care not to connect too many appliances to the same power socket as this could result in fire or electric shock.



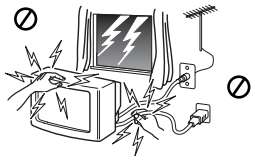
For environmental and safety reasons, it is recommended that the TV set is not left in standby mode when not in use. Disconnect from the mains. However, some TVs may have features which require they are left in standby. The instructions in this manual will inform you if this applies.



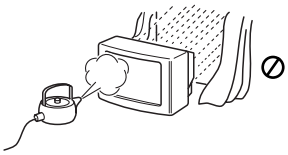
Never push objects of any kind into the set as this could result in a fire or electric shock. Never spill liquid of any kind on the set. If any liquid or solid object does fall into the cabinet, do not operate the TV. Have it checked immediately by qualified personnel.



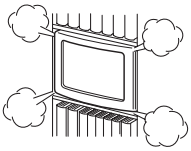
Do not open the cabinet and the rear cover of the TV. Refer to qualified service personnel only.



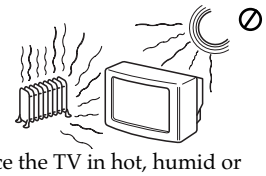
For your own safety, do not touch any part of the TV, power lead or aerial lead during lightning storms.



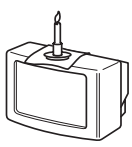
To prevent fire or shock hazard, do not expose the TV to rain or moisture.



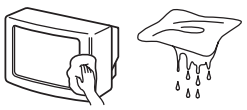
Do not cover the ventilation openings of the TV For ventilation, leave a space of at least 10cm all around the set.



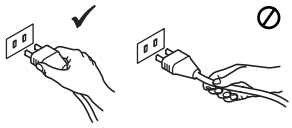
Never place the TV in hot, humid or excessively dusty places. Do not install the TV where it may be exposed to mechanical vibrations.



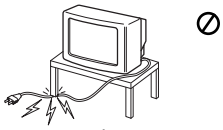
To prevent fire, keep inflammable objects or naked lights (eg candles) away from the TV.



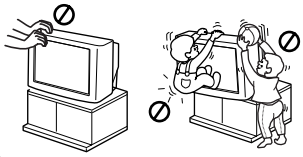
Clean the screen and cabinet with a soft, lightly dampened cloth. Do not use any type of abrasive pad, alkaline cleaner, scouring powder or solvent, such as alcohol or benzine, or antistatic spray. As a safety precaution, unplug the TV before cleaning it.



Pull out the power lead by the plug. Do not pull on the power lead itself.

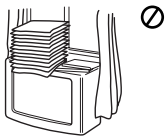


Take care not to place heavy objects on the power lead as this could result in damage. We recommend you wind any excess lead around the holders provided on the rear of the TV.



Place the TV on a secure stable stand. Never attempt to move the TV and stand together - always move the TV and stand separately. Do not place the TV on its side or face up. Do not allow children to climb on to it.

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.



Do not cover the ventilation openings of the TV with items such as curtains or newspapers etc.

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.
- Avoid touching the screen, and take care not to scratch the surface with hard objects.
- **Screen Burn / Image Retention**
  An "image ghosting", or "screen burn" may appear on the screen if the television is left operating with, either a still image, or a programme displaying a bright corner channel logo, for an extended period of time. The risk of this is higher if the set is in "Live" mode or has a high contrast setting. This image cannot be removed once burnt onto the screen. To avoid the risk of occurrence do not leave the television operating on such a picture, or programme for long periods of time. Repeated extended daily usage of the same image, or programme can also result in this occurrence which is not covered by the Sony warranty.

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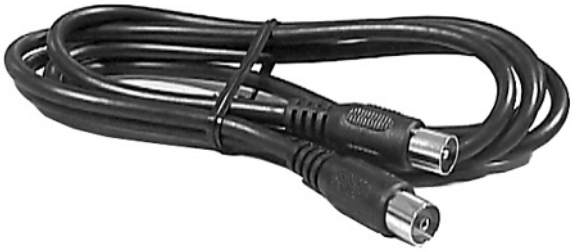
Checking the Accessories supplied

1 Remote control (RM-948)

2 Batteries (AA size)



1 RF Loopthrough

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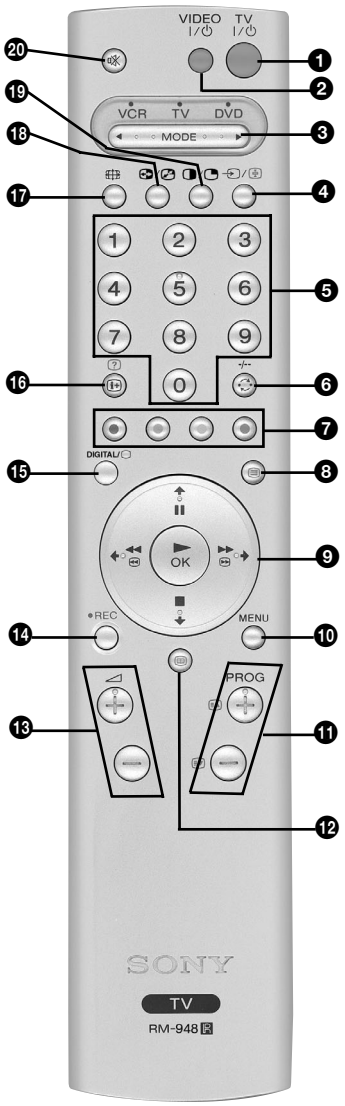
Overview of Remote Control Buttons



❶ **To Temporarily Switch Off TV (Standby mode):**
Press this button to temporarily switch off TV (the standby indicator ⏻ on the TV lights up). Press again to switch on TV from standby mode.
To save energy we recommend switching off completely when TV is not in use.

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

❷ **VCR or DVD on/off:** Press this button to switch your VCR or DVD on or off.

❸ **Media Selector:** With this remote control you can operate not only this TV but also the main functions of your VCR or DVD. Switch on the device you want to operate and next press this button repeatedly to select the VCR, TV or DVD. A green light will be momentarily lit to show which one you have selected.

⚠ Before the first time you want to control a DVD or VCR by using this remote control, you have to set it up depending on the brand of the device to be used. See page 34.

❹ **Selecting input source:** Press this button repeatedly until the desired input symbol of the source appears on the TV screen.

❺ **Selecting channels:** If Media Selector is switched to TV or VCR, press this button to select channels.
For double-digit programme numbers, enter the second digit within 2.5 seconds.

❻ **a) If Media Selector is switched to TV:** Press this button to watch the last channel selected (the last channel watched for at least 5 seconds).

b) If Media Selector is switched to VCR: For Sony's VCR double-digit programme numbers, e.g. 23, press -/- - first and then the buttons 2 and 3.

❼ These buttons are used for Analogue Teletext (see page 28), as well as for Digital Menus (see relevant sections in this manual).

❽ **Selecting Analogue Teletext:** Press this button to switch on teletext.

❾ **Joystick:**

a) If Media Selector is switched to TV:

- When MENU is switched on, use these buttons to operate the different menu systems. See page 13.
- When MENU is switched off, press OK to display "The Programme Index Table" or "The Channel Index Menu". See page 11.

b) If Media Selector is switched to VCR or DVD:
Using these buttons you can control the main functions of your VCR or DVD.

❿ **Displaying the TV Menu system:** Press this button to display the menu on the TV screen. Press again to remove the menu display from the TV screen. See page 13.

⓫ **Selecting channels:** Press these buttons to select the next or previous broadcast channel.

⓬ **Selecting EPG:** In Digital mode, press this button to display the EPG (Electronic Programme Guide). See page 30.

⓭ **Adjusting TV volume:** Press these buttons to adjust the volume of the TV.

⓮ **Recording button:** If Media Selector is switched to VCR, press this button to record programmes.

⓯ **Selecting Digital / Analogue TV mode:** Press this button to switch between Digital or Analogue mode, to switch off PIP, Analogue Teletext or Video Input.

⓰ **a) In Digital mode:** press this button to display the Digital Menu. See page 22.

b) In Analogue mode: press this button to display all on-screen indications such as channel number etc. Press again to cancel.

⓱ **Selecting screen format:** Press this button repeatedly to change the format of the screen. See page 17.

⓲ **Swapping screens:** Whilst you are in "PIP" mode, press this button to swap the two screens.

⓳ **PIP (Picture in Picture):** Press this button to watch another source in a small picture (PIP) within the main TV picture. Press again to cancel. To select the source you want to watch, see page 18.

⚠ This feature is available only in Analogue mode or if the last channel viewed was an Analogue TV channel.

⓴ **Muting the Sound:** Press this button to mute TV sound. Press again to restore the sound.

ⓘ Besides TV functions, buttons labelled ❹, ❼, ⓫ and ⓰ are also used for Analogue Teletext operation. For more details, please see page 28.

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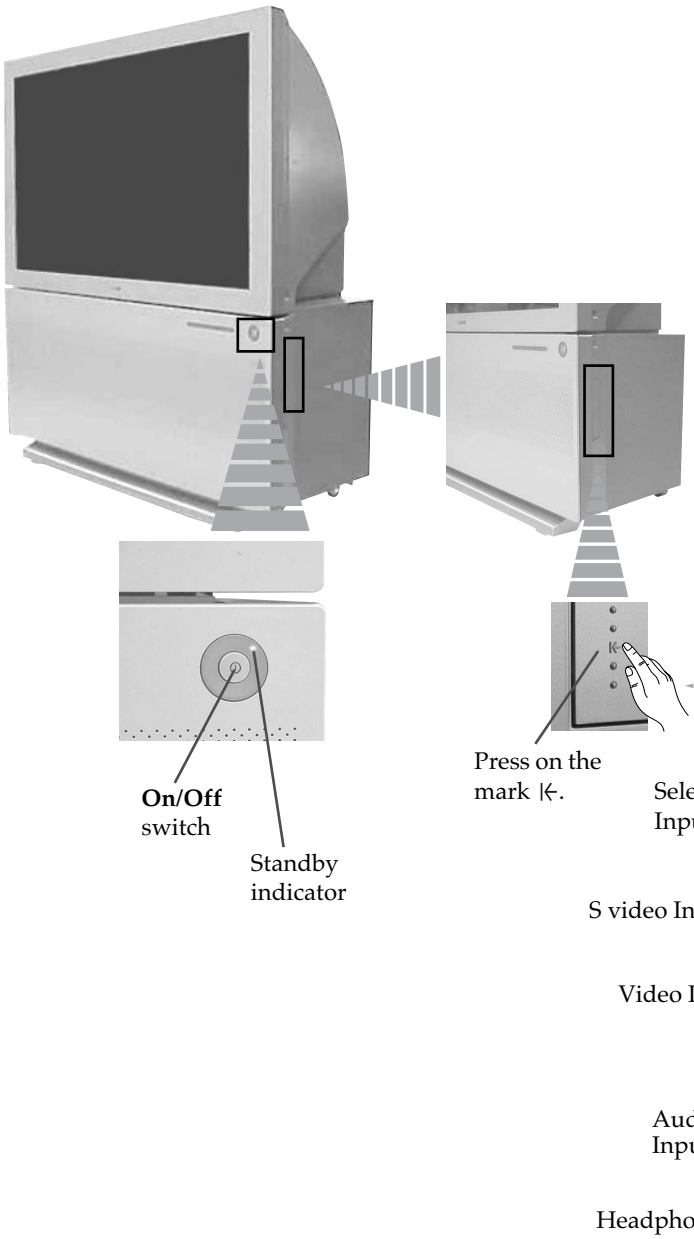
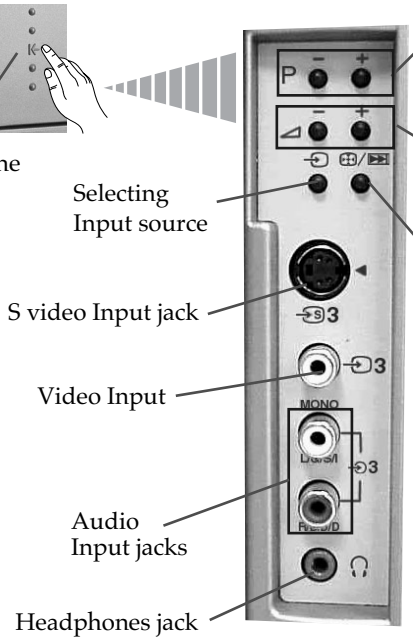
Overview of Projection TV Buttons





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❶ Auto Convergence Button:

Press this button to adjust the colour registration. For more details, please refer to the chapter "Adjusting Colour Registration (Convergence)" on page 10.

or

❷ Auto Start Up Button:

Press and hold this button for approximately 2 seconds to start the auto start up sequence.
For more details, please refer to the chapter "Switching On the Projection TV and Automatically Tuning" on page 9.

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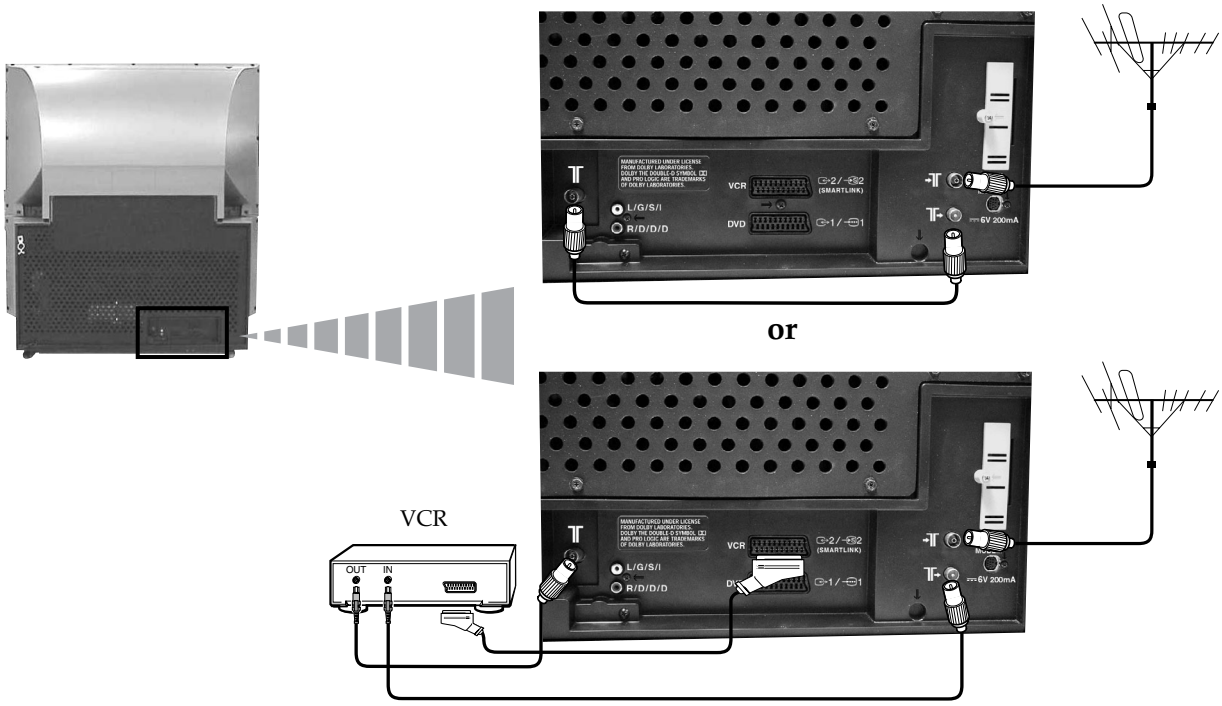
Connecting the Aerial and VCR

One RF Loopthrough cable is supplied. The rest of connecting cables are not supplied.



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 section “Manual Programme Preset” on page 20 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.
- For more details of VCR connections as well as other connections, please refer to the section “Additional information when connecting equipment” on page 33.

Inserting Batteries into the Remote Control

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

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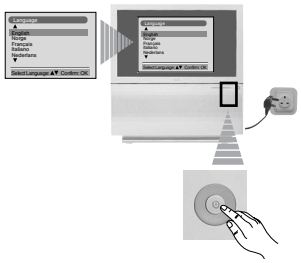
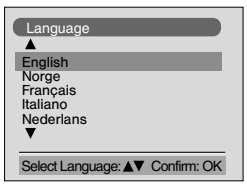
Switching On the Projection TV and Automatically Tuning

The first time you switch on your TV, a sequence of menu screens appear on the TV enabling you to choose the language of the menu screen and search and store all available channels (TV Broadcast).
However, if you need to change any of these settings at a later date, you can do that by selecting the appropriate option in the (Set Up menu) or by pressing the Auto Start Up Button / on the TV set.

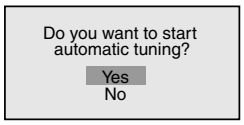
1 Connect the Projection TV plug to the mains socket (220-240V AC, 50Hz)
The first time that the TV set is connected, it is usually turned on. If the TV is off, press the ⏻ on/off button on the TV set to turn on the TV.
The first time you switch on the TV, a **Language** menu displays automatically on the TV screen.



2 Press the ↓ or ↑ button on the remote control to select the language, then press the **OK** button to confirm your selection. From now on all the menus will appear in the selected language.



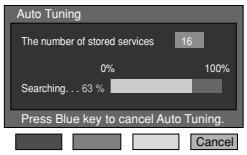
3 The Auto Tuning menu appears on the screen. Press the **OK** button to select **Yes**.



4 The projection TV starts to automatically search and store all available broadcast channels for you as follows:

a) The Digital autotune display appears on screen and the search and store procedure begins. All the available Digital channels will now be captured and stored. As this may take some time, a message is included in the display to inform you of the tuning progress.

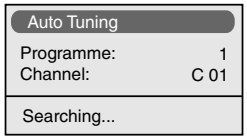
Tuning the Digital Channels

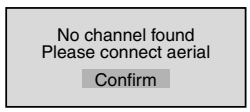


b) When Digital tuning is complete, the analogue display appears automatically and the search and store procedure for the analogue channels begins.

- This procedure could take some minutes. Please be patient and do not press any buttons, otherwise automatic tuning will not be completed.
- If no Digital and no Analogue channels were found during the auto tuning process then a new menu appears automatically on the screen asking you to connect the aerial. Please connect the aerial (see page 8) and press **OK**. The auto tuning process will start again.
- Once all Digital and Analogue channels have been captured and stored, the TV returns to normal operation and displays the Digital channel captured on channel number 1.
  If no Digital channels are captured, the Analogue channel that is stored on channel number 1 is displayed.

Tuning the Analogue Channels





Your projection TV is now ready for use.

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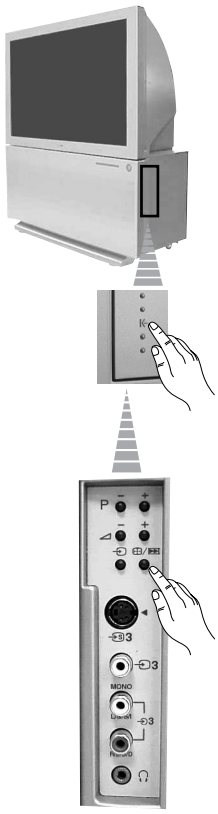
Adjusting Colour Registration (Convergence)

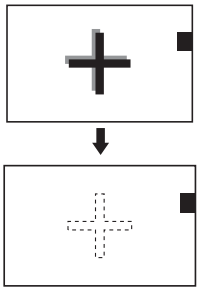
Due to the earth's magnetism, the picture might become undefined and you could see different colours on the outlines of the images.
In that case, proceed as follows.



Auto converge the Red, Green, and Blue Lines

1 Press on the mark |←, on the right side of the projection TV.

2 Press ⊕ / ⏭ button.



The Auto Convergence function works for about 10 seconds. When the white cross disappears from the screen, your projection TV is ready for use.

The Auto Convergence function does not work when:
- no signal is input.
- the input signal is weak.
- the screen is exposed to spotlights or direct sunlight.
- you watch the teletext broadcast.

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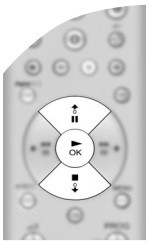
Selecting Digital or Analogue mode

Press the **DIGITAL/** button on the remote control to switch between Digital and Analogue mode. To check if you are watching a Digital or Analogue mode press the button. If you are watching a digital programme a banner will appear momentarily at the top of the screen.

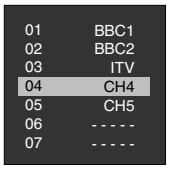
The Programme Index table

The "Programme Index table" is only available in Analogue mode.

The "Programme Index table" is a quick and easy way to search for a channel (TV Broadcast) you wish to view.



1 Press the **OK** button to display the "Programme Index table" on screen.



2 Press the ▼ or ▲ button to scroll through the list until the channel you wish to view is highlighted.

3 Press the **OK** button to display your chosen channel on the TV screen.

GB

The Channel Index menu

The "Channel Index menu" is only available in Digital mode.

The "Channel Index menu" provides you with a quick and easy way to:

a) View a complete list of the programmes available for selection, with a preview of the programmes contained in the list.
b) Search for a programme quickly by selecting from different categories of programmes.
c) Store programmes into a list of favourites.

a) List of programmes

1 Press the **OK** button on the remote control to display the "Channel Index menu" on the TV screen. The menu contains a list of all the available channels (TV Broadcast). The name of the programme currently being shown along with its start and finish times is shown for each of the available channels. The current channel is previewed in the top right corner of the screen with its channel name and number displayed below it.

2 Press the ▲ or ▼ buttons to move the coloured cursor up or down the list to select the desired programme. If you do not want to select a programme from the 6 channels listed, press the **GREEN** button to display the next 6 programmes or the **RED** button to display the preceding 6 channels.

3 Press the **OK** button to display the highlighted programme in the preview window*.

4 Press the **OK** button to exit the "Channel Index menu". The programme that was being previewed will be displayed.

* If an age limit for viewing has been set and the programme selected exceeds that age limit, you will need to enter your PIN code before the preview is displayed. Refer to "PIN Code" section on page 27. Programmes that exceed the age limit you have set will be identified by a 🔒 symbol.

continued...

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b) The Category pop-up list

The "Category" pop-up list allows you to quickly search for a programme by choosing from different categories of programmes.

1 With the "Channel Index menu" on screen, press the **YELLOW** button to display the "Category" pop-up list.

The following categories are available:

Favourite	Contains all the programmes you have stored as a favourite (see below).
Choice	The TV will create this list based on the type of programmes you watch the most.
Recent Prog.	Contains the last 5 programmes watched.
All Categories	Contains all available channels.
Sports	Contains all sport channels.
News	Contains all news channels.
Film	Contains all film channels.
Entertainment	Contains all entertainment channels.
Lifestyle	Contains all lifestyle channels.
Education	Contains all education channels.
Kids	Contains all kids channels.

2 Press the ↑ or ↓ buttons to highlight the required category. The category you choose will be displayed in a title bar at the top of the programme list along with the date and time.

3 Press the **OK** button. The "Channel Index menu" will now contain only programmes of the type selected.

4 Press the **OK** button to exit the "Channel Index Menu".

c) Favourite programmes

This option allows you to create a list of your favourite programmes.

To add a programme to the Favourite list

1 With the "Channel Index menu" on screen, press the ↑ or ↓ buttons to highlight the programme you want as a favourite.

2 Press the **BLUE** button to store the programme in the favourite list.

To remove a programme from the Favourite list

1 With the "Channel Index menu" on screen, press the **YELLOW** button to display the "Category" pop-up list.

2 Highlight the "Favourite" category. Press the **OK** button to display the "Favourite list".

3 Press ↑ or ↓ to highlight the programme you wish to remove from the "Favourite list".

4 Press the **BLUE** button to remove the programme.

5 Press the **OK** button to exit the "Channel Index Menu".

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Introducing and Using the different Menu systems

Your projection TV uses an On-Screen Display menu system to guide you through the operations.

This projection TV has 2 different Menu Systems as follows:

a) "General TV Menus"
This menu system is available when watching both, Digital and Analogue channels. The displays of this menu system will help you to alter the picture settings, sound settings etc. For more details, please refer to the relevant sections of the chapter "The General TV Menus" (pages 14 - 20).

b) "Digital Menus"
This menu system is only available when watching Digital channels and gives you information on the programmes currently being show, etc. This menu also contains a submenu called “Main Menu” which allows you to customise the Digital side of your TV etc. For more details, please refer to the relevant sections of the chapter "The Digital Menus" (pages 21 - 27).

To operate any of the above menu systems, use the following buttons:

1 **To switch on the:**

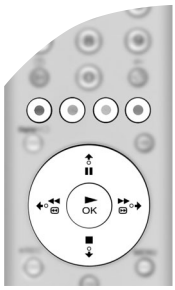
- "General TV Menus", press the **MENU** button.
- "Digital Menus", press the i+ button.

2 **• To navigate through the “General TV Menus”:**

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

• To navigate through the “Digital Menus”:

- Coloured buttons (red, green, yellow and blue) are basically used to display some of the screens. For details, please refer to the relevant sections.



3 **To switch off the:**

- "General TV Menus", press the **MENU** button.
- "Digital Menus" press the **MENU** button.

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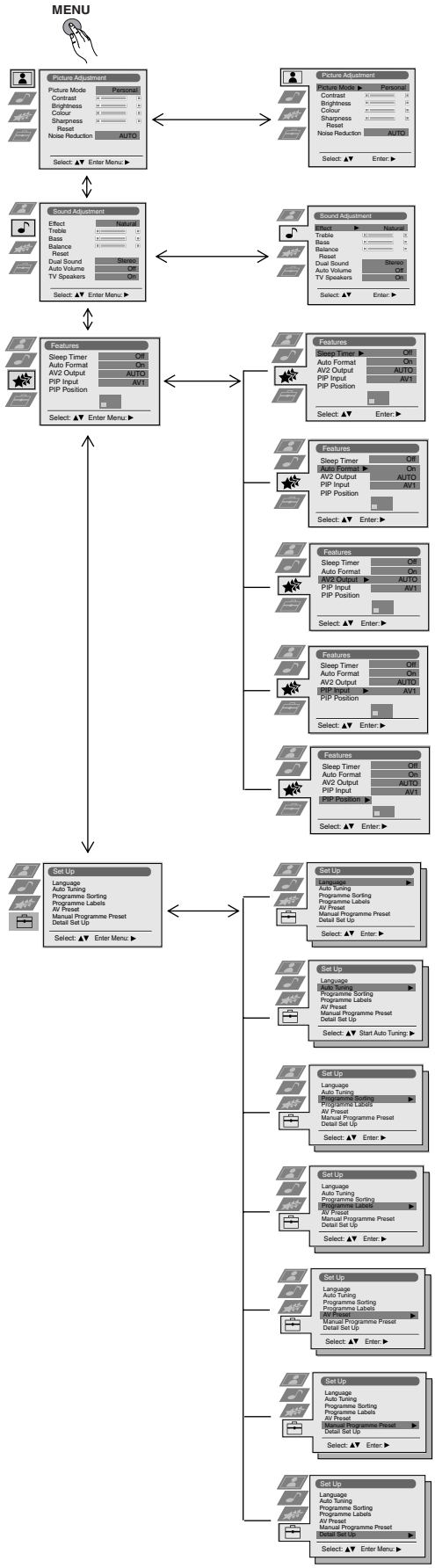
The General TV Menus (for Digital and Analogue channels)

This menu system will help you to get the most from your TV, helping you to change the picture settings, sound settings, etc.

On Screen Display Guide for the “General TV Menus”



Refer to the section "Picture Adjustment”, on page 15.

Refer to the section "Sound Adjustment”, on page 16.

Refer to the section "Sleep Timer" on page 17.

Refer to the section "Auto Format" on page 17.

Refer to the section "AV2 Output" on page 18.

Refer to the section "PIP Input" on page 18.

Refer to the section "PIP Position" on page 18.

Refer to the section "Language" on page 19.

Refer to the section "Auto Tuning" on page 19.

Refer to the section "Programme Sorting" on page 19.

Refer to the section "Programme Labels" on page 19.

Refer to the section "AV Preset" on page 20.

Refer to the section "Manual Programme Preset" on page 20.

Refer to the section "Detail Set-up" on page 20.

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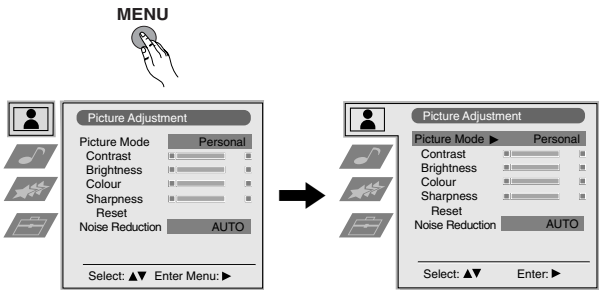
The Picture Adjustment Menu



The "Picture Adjustment" menu allows you to alter the picture adjustments.

To do this:
Once you have entered into this menu, press ↓ or ↑ to select the desired option, then press →. Next press ↓/↑/← or → repeatedly to adjust it and finally press **OK** to store the new adjustment.

Picture Mode This option allows you to customise the picture mode based on the programme you are watching. After selecting this option press →. Next press ↓ or ↑ repeatedly to select:

Live (for live broadcast programmes, DVD and Digital Set Top Box receivers).

Personal (for individual settings).

Movie (for films).

Contrast Press ← or → to reduce or enhance picture contrast.

Brightness Press ← or → to darken or brighten the picture.

⚠ Brightness can only be altered if "Picture Mode" is set to "Personal".

Colour Press ← or → to decrease or to increase color intensity.

⚠ Colour can only be altered if "Picture Mode" is set to "Personal".

Hue Press ← or → to decrease or to increase the green tones.

⚠ This option only appears for NTSC signal (e. g. USA video tapes)

Sharpness Press ← or → to soften or to sharpen the picture.

⚠ Sharpness can only be altered if "Picture Mode" is set to "Personal".

Reset Press **OK** to reset the picture to the factory preset levels.

Noise Reduction This option is set to **AUTO** to automatically reduce the picture noise visible in the broadcast signal. To cancel this function, select "Off" instead of "AUTO".

⚠ Noise Reduction can only be altered if you are in Analogue mode.

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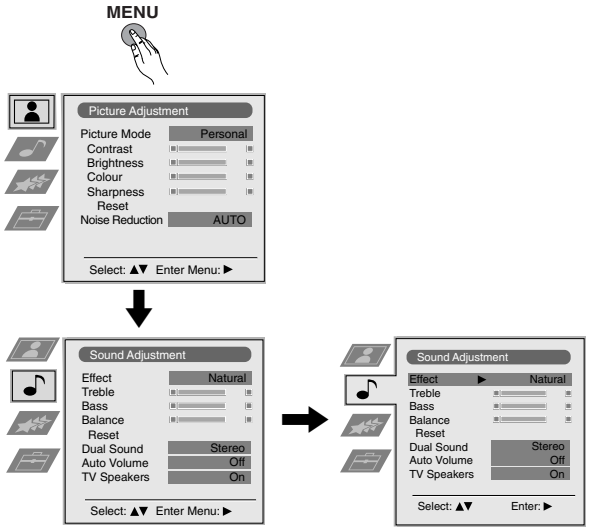
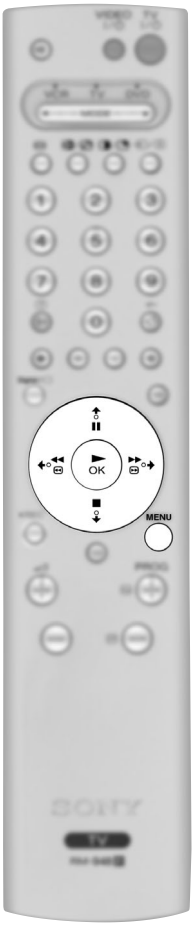
The Sound Adjustment Menu



The "Sound Adjustment" menu allows you to alter the sound adjustments.

To do this:
Once you have entered into this menu, press ↓ or ↑ to select the desired option, then press →. Next press ↓/↑/← or → repeatedly to adjust it and finally press **OK** to store the new adjustment.



Effect	This option allows you to customise the sound mode. After selecting this option press →. Next press ↓ or ↑ repeatedly to select: **Natural** (Enhances clarity, detail and presence of sound by using "BBE High Definition Sound system"*). **Dynamic** ("BBE High Definition Sound system"* intensifies clarity and presence of sound for better intelligibility and musical realism). **Dolby**V** (Dolby Virtual, simulates the sound effect of "Dolby Surround Pro Logic"). **Off** (Flat response).
Treble	Press ← or → to decrease higher-frequency sounds.
Bass	Press ← or → to decrease or to increase the lower-frequency sounds.
Balance	Press ← or → to emphasise the left or the right speaker.
Reset	Press **OK** to reset the sound to the factory preset levels.
Dual Sound	• For a Stereo broadcast: Press ↓ or ↑ to select **Stereo** or **Mono**. • For a bilingual broadcast: Press ↓ or ↑ to select **Mono** (for mono channel if available), **A** (for channel 1) or **B** (for channel 2).
Auto Volume	Press ↓ or ↑ to select **On** (the volume level of the channels will stay the same, independent of the broadcast signal, e.g. in the case of advertisements) or **Off** (the volume level changes according to the broadcast signal).
TV Speakers	Press ↓ or ↑ to select **On** (to listen to the TV from the set speakers) or **Off** (to listen to the TV from an external amplifier connected to the audio outputs on the rear of the projection TV.

- If you are listening to the TV through headphones, the "Effect" option will automatically be switched to "Off".
- If you select "Dolby Virtual" on the "Effect" option, the "Auto Volume" option will automatically be switched to "Off" and vice versa.

* The "BBE High Definition Sound system" is manufactured by Sony Corporation under license from BBE Sound, Inc. It is covered by U.S. Patent No. 4,638,258 and No. 4,482,866. The word "BBE" and BBE Symbol are trademarks of BBE Sound, Inc.

** This TV has been designed to create the "Dolby Surround" sound effect by simulating the sound of four speakers with two speakers, when the broadcast audio signal is Dolby Surround encoded. The sound effect can also be improved by connecting a suitable external amplifier (for details refer to "Connecting to external audio Equipment" on page 33).

** Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol DD are trademarks of Dolby Laboratories.

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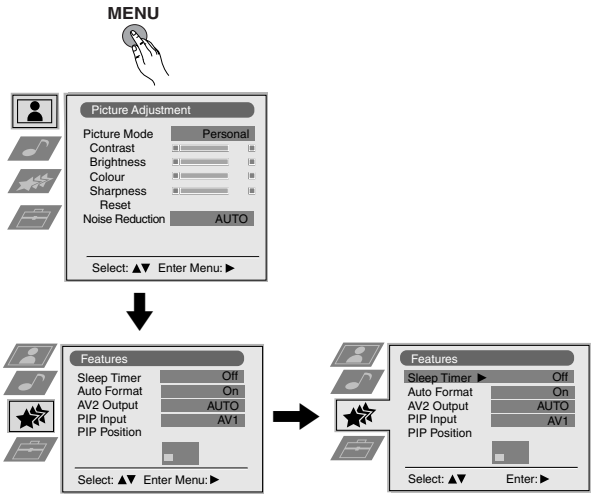
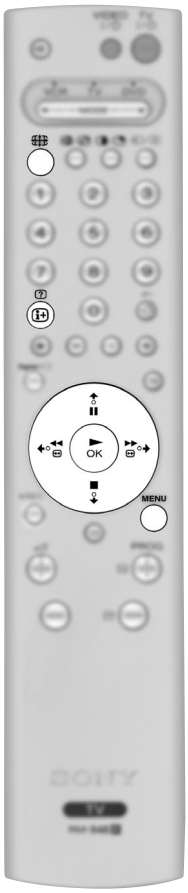
The Features Menu



The "Features" menu allows you to alter various adjustments of the TV.

To do this:
Once you have entered into this menu, press ↓ or ↑ to select the desired option. Next read below how to operate into each option.



SLEEP TIMER

This option allows you to select a time period for the TV to switch itself automatically into the standby mode.

To do this:
After selecting the option press →, then press ↓ or ↑to set the time period delay (max. of 4 hours).

- While watching the TV, you can press the ⊡ button on the remote control to display the time remaining.
- One minute before the projection TV switches itself into standby mode, the time remaining is displayed on the TV screen automatically.

GB

AUTO FORMAT

This option allows you to automatically change the aspect ratio of the screen.

To do this:
After selecting the option, press →. Then press ↓ or ↑ to select **On** (if you wish the TV set to automatically switch the screen format according to the broadcast signal) or **Off** (if you wish to keep your preference). Finally press **OK** to store.

Even if you have selected "On" or "Off" in the "Auto Format" option, you can always modify the format of the screen by pressing ⊞ repeatedly on the remote control to select one of the following formats:

Smart: Imitation of wide screen effect for 4:3 broadcast.

4:3: Conventional 4:3 picture size, full picture information.

14:9: Compromise between 4:3 and 16:9 picture size.

Zoom: Widescreen format for letterbox movies.

Wide: For 16:9 broadcast. Full picture information.

In "Smart", "Zoom" and "14:9" modes, parts of the top and bottom of the screen are cut off. Press ↓ or ↑ to adjust the position of the image on the screen (e.g. to read subtitles).

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AV2 OUTPUT

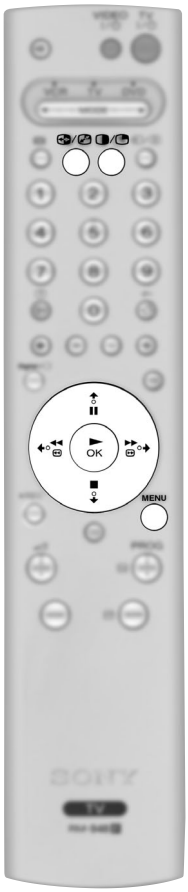
This option allows you to select the source to be output from the Scart connector **2**/ **2** so that you can record from this Scart any signal coming from the projection TV or from an external equipment connected to the Scart connector **1**/ **1** or side connectors **3** or **3** and **3**.

If your VCR supports SmartLink, this procedure is not necessary.

To do this:

Once you have entered into the "Features" menu as it is explained in the previous page and after selecting the option, press ➡. Then press ⬇ or ⬆ to select the desired output signal:

- **TV** to output the aerial source.
- **AV1** to output sources connected to **1**/ **1.**
- **AV3** to output sources connected to **3** and **3**.
- **YC3** to output sources connected to **3** and **3**.
- **AUTO** to output the signal that is being viewed on the TV.



- 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 to the Scart **2**/ **2** or to a VCR connected to this Scart, please remember to change back the "AV2 Output" to "AUTO" or "TV" for correct unscrambling.

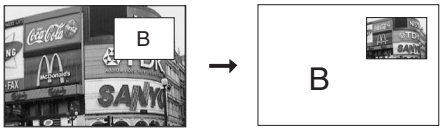
PIP INPUT

This option allows you to select the source you want to watch in the "PIP" screen.

To do this:

Once you have entered into the "Features" menu as it is explained in the previous page and after selecting the option, press ➡. Then press ⬇ or ⬆ repeatedly to select the desired source **AV1, AV2, AV3** or **TV**. Finally press **OK** to store.

To watch the "PIP" screen with the selected source, press the ◑ / ◔ button on the remote control.



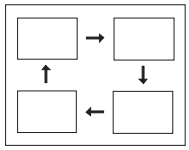
You can swap the screens by pressing the ◓ / ◕ button on the remote control.

PIP POSITION

This option allows you to change the position of the "PIP" screen within the main screen.

To do this:

Once you have entered into the "Features" menu as it is explained in the previous page and after selecting the option, press ⬇ / ⬆ / ⬅ or ➡ to select the desired position. Finally press **OK** to store.



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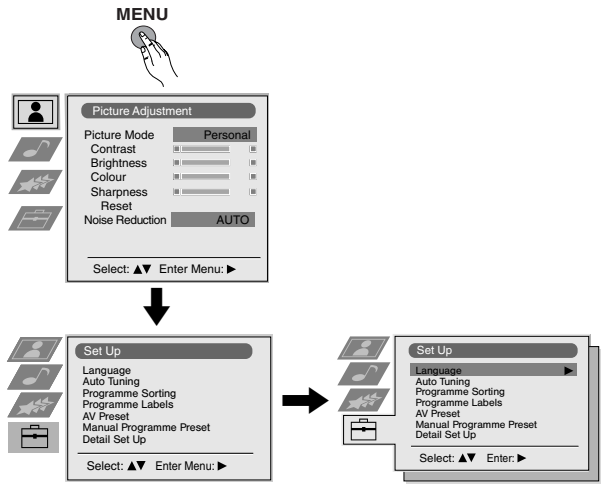
The Set Up Menu



The "Set Up" menu allows you to alter various options on this TV.

To do this:
Once you have entered into this menu, press ↓ or ↑ to select the desired option. Next read below how to operate into each option.

LANGUAGE

This option allows you to select the language that the menus are displayed in.

To do this:
After selecting the option, press → and then proceed in the same way as in step 2 of the section "Switching On the Projection TV and Automatically Tuning" on page 9.

GB

AUTO TUNING

This option allows you to automatically search for and store all available Analogue TV channels.

⚠ This option is only available in Analogue mode.

To do this:
After selecting the option, press → and then proceed in the same way as in the steps 3 and 4 of the section "Switching On the Projection TV and Automatically Tuning" on page 9.

PROGRAMME SORTING

This option allows you to change the order in which the Analogue channels (TV Broadcast) appear on the screen.

⚠ This option is only available in Analogue mode.

To do this:
After selecting the option, press →. Next:

1. Press the ↓ or ↑ button to select the programme number with the channel (TV Broadcast) you wish to rearrange, then press the → button.
2. Press the ↓ or ↑ button to select the new programme number position for your selected channel (TV Broadcast), then press **OK**.
3. Repeat steps 1 and 2 if you wish to change the order of the other channels.

PROGRAMME LABELS

This option allows you to name a channel using up to five characters (letters or numbers).

⚠ This option is only available in Analogue mode.

To do this:

1. After selecting the option, press →, then press ↓ or ↑ to select the programme number with the channel you wish to name.
2. Press →. With the first element of the **Label** column highlighted, press ↓ or ↑ to select a letter or number (select "-" for a blank), then press → to confirm this character. Select the other four characters in the same way. Finally press **OK** to store.

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AV PRESET

This option allows you to designate a name to the external equipment you have connected to the input sockets of this projection TV.

To do this:

1 Once you have entered into the "Set Up"menu as it is explained in the previous page and after selecting the option, press ➡, then press ⬇ or ⬆ to select the input source you wish to name (**AV1,** and **AV2** are for the rear Scarts and **AV3** for side connectors). Next press ➡.

2 A label automatically appears in the label column:

a) If you want to use one of the 6 predefined label (**CAM, GAME, CABLE, AV, SAT, VIDEO** or **DVD**), press ⬇ or ⬆ to select the desired label and finally press **OK** to store.

b) If you want to set a different label, select **Edit** and press ➡. Then with the first element highlighted, press ⬇ or ⬆ to select a letter, number or "-" for a blank, then press ➡ to confirm this character. Select the other four characters in the same way and finally press **OK** to store.

MANUAL PROGRAMME PRESET

⚠ This option is only available in Analogue mode.

This option allows you to:

a) Preset channels or the VCR channel one by one to the programme order of your choice.

To do this:

1 Once you have entered into the "Set Up"menu as it is explained in the previous page and after selecting the option, press ➡. Next with **Programme** option highlighted press ➡.
Press ⬇ or ⬆ to select which programme number you want to preset the channel on (for VCR, select programme number "0"). Then press ⬅.

2 After selecting the **Channel** option, press ➡. Then press the number buttons to enter directly the channel number of the TV Broadcast or the channel of the VCR signal. If you do not know the channel number, press ⬇ or ⬆ to search for it. When you have tuned the desired channel, press **OK** twice to store.

Repeat all the above steps to tune and store more channels.

b) Label a channel using up to five characters.

To do this:

Once you have entered into the "Set Up"menu as it is explained in the previous page and after selecting the option, press ➡. Next with the **Programme** option, highlighted press the **PROG +/-** button to select the programme number with the channel you wish to name. When the programme you want to name appears on the screen, select the **Label** option and press ➡. Next press ⬇ or ⬆ to select a letter, number or "-" for a blank. Press ➡ to confirm this character. Select the other four characters in the same way. After selecting all the characters, press **OK** twice to store.

c) Fine tune the broadcast reception. Normally the automatic fine tuning (AFT) will give the best possible picture, however you can manually fine tune the TV to obtain a better picture reception in case the picture is distorted.

To do this:

While watching the channel (TV Broadcast) you wish to fine tune, and once you have entered into the "Set Up"menu as it is explained in the previous page and after selecting the option, press ➡. Then select the **AFT** option and press ➡. Next press ⬇ or ⬆ to adjust the fine tuning between -15 and +15. Finally press **OK** twice to store.

d) Skip any unwanted programme numbers when they are selected with the PROG +/- buttons.

To do this:

Once you have entered into the "Set Up" menu as it is explained in the previous page and after selecting this option, press ➡. Next with the **Programme** option highlighted, press the **PROG +/-** button to select the programme number you want to skip. When the programme you want to skip appears on the screen, select the **Skip** option and press ➡. Next press ⬇ or ⬆ to select **Yes**. Finally press **OK** twice to confirm and store.

To cancel this function afterwards, select "No" instead of "Yes" in the step above.

DETAIL SET UP

Once you have entered into the "Set Up"menu as it is explained in the previous page and after selecting this option, press ➡ to acess to the "**RGB Centring**" option which allows you to readjust the horizontal position of the picture in case you need to do it when connecting an RGB source.

To do this:

While watching an RGB source select the "RGB Centring" option and press ➡. Then press ⬇ or ⬆ to adjust the centre of the picture between –10 and +10. Finally press **OK** to confirm and store.

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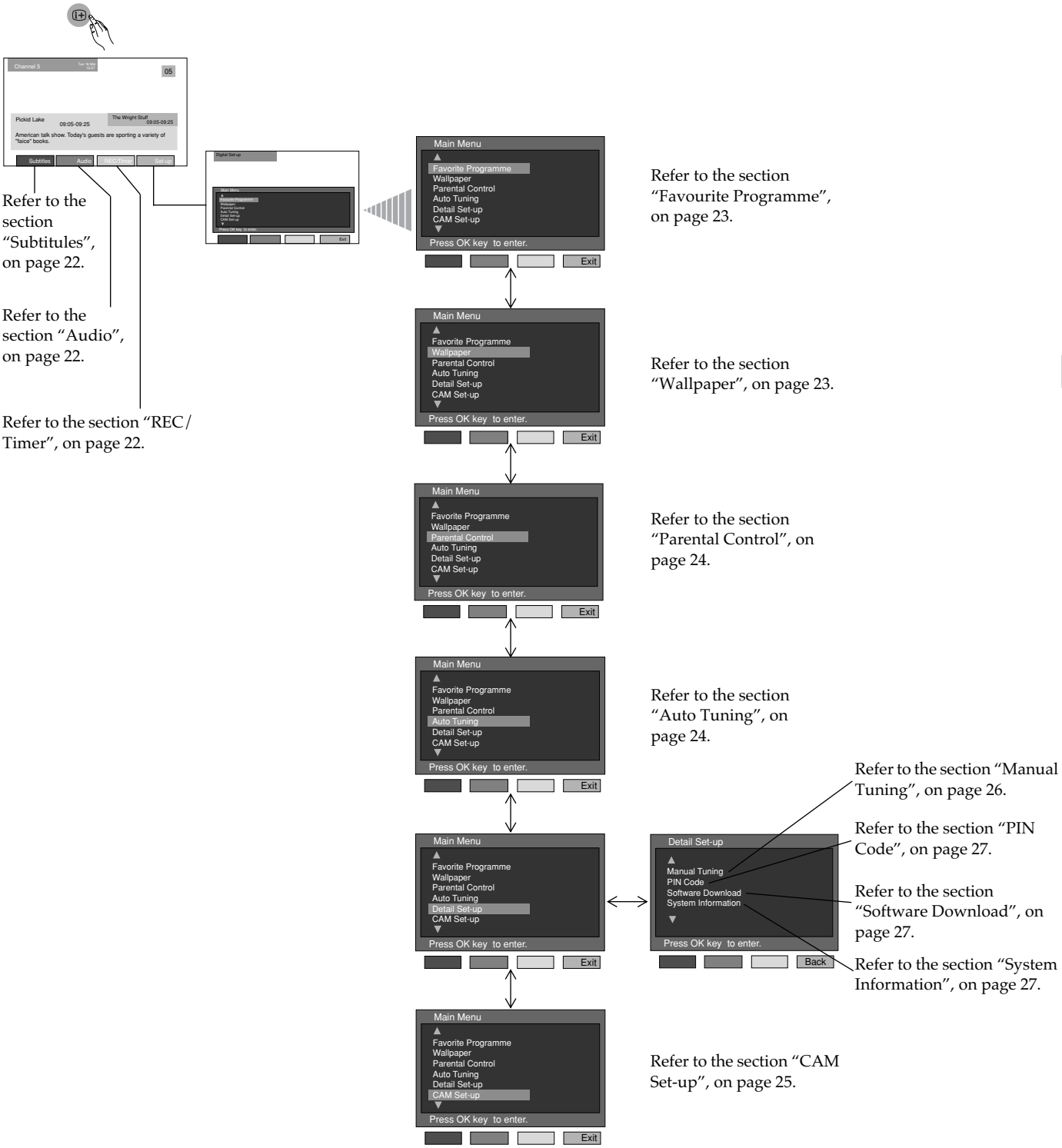
The Digital Menus

This menu system gives you information on the programmes currently being shown as well as the those programmes which are on next. It also allows you to customise the Digital side of you TV.

- The “Digital Menus” are only available when watching Digital Channels.
- If the TV is not already in Digital mode, press the DIGITAL/ button on the remote control.

On Screen Display Guide for the “Digital Menus”



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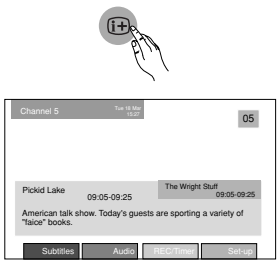
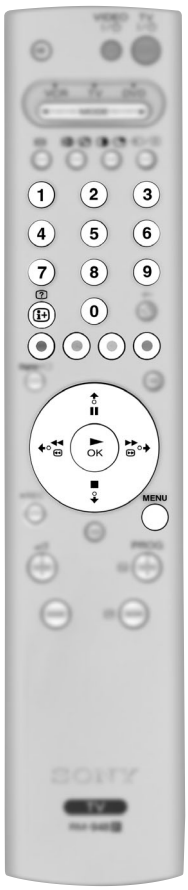
The Digital INFO Menu



The "Digital INFO" menu gives you information on the programmes currently being shown as well as the those programmes which are on next.

To do this:
With the TV in Digital mode, press the i+ button to access this menu. Next read below how to operate each option.



DIGITAL INFO DISPLAY

This display gives you a brief description of the next programme in the schedule.

To do this:
Press the ➡ button. If the programme box is blank, there is no information currently available. To return to the starting point, press the ⬅ button repeatedly until the description for the current programme reappears.

To change channels while the "Digital INFO display" is on screen, press the relevant numbered buttons on the remote control.

*Press the **MENU** button to exit from this display.*

SUBTITLES

This feature will place Digital subtitles on the screen (similar to selecting p.888 in analogue Teletext mode).

To do this:
With the "Digital INFO display" on the TV screen, press the **RED** button to access the "**Subtitles**" pop-up menu. Press the ⬆ or ⬇ button to highlight the language required then press **OK** to select.

To remove subtitles from the TV screen, access the "Subtitles" pop-up menu and select "Off".

*Press the **MENU** button to exit from this menu.*

AUDIO

This feature allows you to listen to the broadcast in different languages when the programme is broadcast in multiple languages.

To do this:
With the "Digital INFO display" on the TV screen, press the **GREEN** button to access the "**Audio**" pop-up menu. Press the ⬆ or ⬇ button to highlight the language required then press **OK** to select.
*Press the **MENU** button to exit from this menu.*

REC/TIMER

If you highlight a current programme, the REC feature allows you to automatically set your VCR to record the selected programme**.

To do this:
With the "Digital INFO display" on the TV screen, press the **YELLOW** button to access the "**REC**" pop-up menu. If your VCR does not have Smartlink a message is displayed reminding you to manually set your VCR. Press the **RED** button to continue or press the **BLUE** button to return to the INFO display.
If you highlight a future programme, the Timer feature allows you to automatically set your VCR to record the selected programme, or have the TV switch to the correct channel automatically when the selected programme starts.
Press the **RED** button and your VCR will automatically record the selected programme when it starts (only if your VCR has SmartLink facility), or press the **GREEN** button if you wish the programme to appear on your TV screen when transmission begins.
*Press the **MENU** button to exit from this menu.*

- ** Only for SmartLink VCRs.
- Do not switch off the TV once a programme has been set to record. If you do not wish to view the programme being recorded, press the **TV** I/⏻ button on the remote control to switch the TV into standby mode.
- Do not change channels or switch the TV to analogue mode once a programme has started recording or the recording will be cancelled.
- When a programme has been set to record and the TV is in standby mode, the standby indicator on the front of the TV will flash green and red periodically to remind you that a programme has been set to record.

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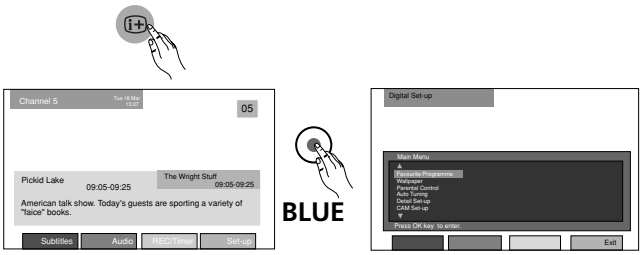
The Digital Set-up Menu



This menu contains several features that will allow you to customise the Digital side of your TV.

To do this:
With the TV in Digital mode, press the button to access the "Digital INFO display" on the TV screen, then press the **BLUE** button to access the "Set-up" ("Main Menu"). Next read below how to operate each option.

FAVOURITE PROGRAMME

This option allows you to store your favourite channels (TV Broadcast) in a list for quick access.

To do this:

1 Once you have entered into the "Main Menu" press the ▲ or ▼ button to highlight "**Favourite Programme**" then press the **OK** button to display the "Favourite Programme Set" menu.

2 Press the ▲ or ▼ button to scroll through the list until the channel you wish to store as a favourite is highlighted. If you do not wish to select one of these channels as a favourite, press the **RED** or **GREEN** button to display the previous or next 5 channels in the list.

3 When you have found and highlighted a programme you want to register as a favourite, press the **OK** button. A tick appears alongside that programme in the display.

- Press the **OK** button again to cancel your selection.
- Press the **YELLOW** button if you wish to delete (clear) all favorite settings

4 Repeat steps 2 and 3 to store other programmes as favourites.

5 Press the **BLUE** button to return to the "Main Menu" or press the **MENU** button to exit from the menu.

WALLPAPER

This option allows you customise the background pattern of the Digital menus.

To do this:

1 Once you have entered into the "Main Menu", press the ▲ or ▼ button to highlight "**Wallpaper**" then press the **OK** button to display the "Wallpaper" menu.

2 Press the ▲ or ▼ button to select your choice of wall paper (4 different choices) followed by the **OK** button to store.

3 Press the **BLUE** button to return to the "Main Menu" or press the **MENU** button to exit from the menu.

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PARENTAL CONTROL

In order to use the "Parental Control" feature you must first set your PIN code.

This option allows you to set an age limit for programmes on the TV. If any films or programmes classed above the age limit you have set are broadcast, you will be requested to enter your PIN code before viewing is allowed.

To do this:

a) If you have not already set a PIN code:

1. Once you have entered into the "Main Menu" as it is explained in the previous page, press the ⬆ or ⬇ button to highlight "**Parental Control**" then press the **OK** button to display the "Parental Control" menu.
2. Press the **RED** button to display the PIN entry box on screen.
3. Using the numbered buttons on the remote control, enter a 4-digit number of your choice. As you enter each digit it will be represented by a * in the PIN entry box. Enter the code again to confirm.

   This will be your PIN number for the future - please use a number you can easily remember.
4. Press the **OK** button to confirm your PIN code.
5. Press the **BLUE** button twice to return to the "Main menu".
6. Finally follow steps 2-4 of the instructions below.

b) If you have already set a PIN code:

1. Once you have entered into the "Main Menu" as it is explained in the previous page, press the ⬆ or ⬇ button to highlight "**Parental Control**" then press the **OK** button to display the "Parental Control" menu.
2. Using the numbered buttons on the remote control, enter your 4-digit PIN code. As you enter each digit it will be represented by a * in the PIN entry box.

   If you have forgotten your PIN code, please use 9999. This PIN code will always be accepted.
3. With the "Age" box highlighted, press the ⬆ or ⬇ button to set the age limit you desire then press the **OK** button to confirm your setting.
4. Press the **BLUE** button to return to the "Main Menu" or press the **MENU** button to exit from this menu.

AUTO TUNING

This option allows you to automatically re-tune all available Digital channels.

To do this:

1. Once you have entered into the "Main Menu" as it is explained in the previous page, press ⬆ or ⬇ button to highlight "**Auto Tuning**" then press the **OK** button to display the "Auto Tuning" menu.
2. Next, press the **RED** button to begin tuning in all available Digital channels.

   - If you wish to cancel the "Auto Tuning" process, press the **BLUE** button.
   - Press the **BLUE** button to return to the "Main Menu" or press the **MENU** button to exit from the menu.

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DETAIL SET-UP

This option access to a new menu window which contains the following features: “Manual Tuning”, “PIN Code”, “Software Download” and “System Information”.

All these features are explained from next page on.

CAM SET UP

⚠ Always switch the TV off before inserting or removing the CAM.

This option allows you to access a Pay Per View service once you have obtained a Conditional Access Module (CAM) and a viewing card. Please contact your nearest Pay-Per-View supplier for details.

To do this:

1 Switch off the TV and unplug from the mains.

2 Unscrew and remove the CAM slot cover.

3 Insert the CAM into the slot on the rear of the Projection TV as shown. Take care not to damage the CAM when inserting.

4 Insert your viewing card into the CAM.

5 After inserting the CAM and the viewing card, replace the cover.

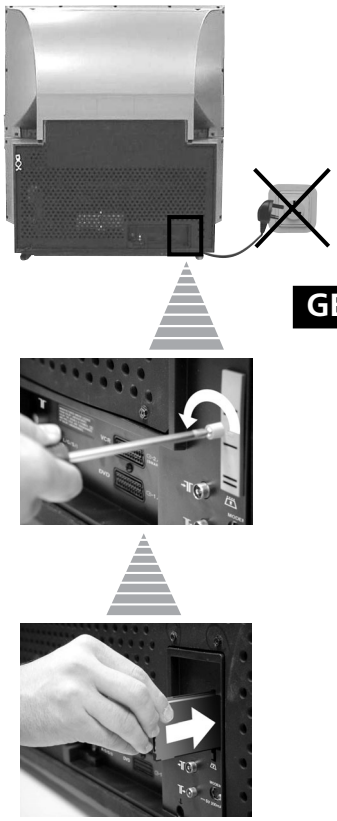
6 Connect the TV to the mains and switch on.

7 With the TV in Digital mode, press the button on the remote control to display the “Digital INFO display”. Press the **BLUE** button to display the “Main Menu”.

8 Press the ↑ or ↓ button to highlight “**Detail Set-up**” then press the **OK** button to display the “Detail Set-up” menu.

9 Press the ↑ or ↓ button to highlight “**CAM Set-up**”, then press the **OK** button to display the CAM set up menu.

⚠ For further information regarding the CAM and services available, please contact your nearest Pay-Per-View supplier.



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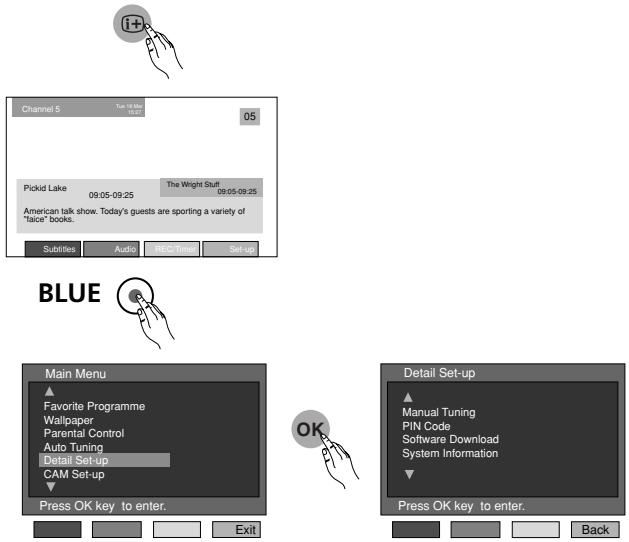
The Digital Detail Set-up Menu



The "Detail Set-up" menu allows you to further customise your TV.

To do this:
With the TV in Digital mode, press the button. Next press the **BLUE** button to access the "Main Menu". Then press ▲ or ▼ to select "Detail Set-up" and press the **OK** button. Next read below now to operate each option.

MANUAL TUNING

This option allows you to select a channel number from the displayed list and change the digital services of that channel.

To do this:

1 Once you have entered into the "Detail Set-up" menu, press the ▲ or ▼ button to highlight "Manual Tuning" then press the **OK** button to display the "**Manual Tuning**" menu.

2 Press the ▲ or ▼ button to highlight the chosen channel number for your new channel. If you do not wish to select any of the programme numbers listed, press the **RED** or **GREEN** button to display the previous or next 5 programme numbers on the list.

3 With your channel number highlighted, press the **OK** button to display the "Manual Programme Search" screen.

4 Press the ▲ or ▼ button if you wish to change the channel number, then press the ➡ button to make the select search box active.

5 Press the ▲ or ▼ button to begin the search process. The words "Searching Down" or "Searching Up" appear in the select search box to indicate that the TV is searching. If no Digital services are found on the channel you have chosen, the channel number changes up or down automatically and the search continues. When all services allocated to the selected channel have been found, the service selection screen is displayed.

6 Press the ▲ or ▼ button to find and highlight the service you wish to allocate to the channel number selected in Step 2, then press the **OK** button to display the channel selection screen.

7 Repeat Steps 2 to 6 if you wish to manually add more channels to your TV.

8 Press the **BLUE** button to return to the "Digital Set-up" menu or press the **MENU** button to exit from this menu.

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PIN CODE

This option allows you to set a 4-digit PIN code.

To do this:

1. Once you have entered into the "Detail Set-up" menu as it is explained in the previous page, press the ↑ or ↓ button to highlight "**PIN Code**" then press the **OK** button to display the "PIN Code" menu.
2. Enter your PIN code using the numbered buttons on the remote control. If you enter a wrong number, press the **RED** button to clear and start again.
3. Once you have entered a 4-digit code a cursor will appear in the second PIN Code box. Enter your new PIN code once again as confirmation.
4. When both PIN codes match, a message appears to inform you that your new PIN code has been accepted. This is the PIN code you must use in future.
5. Press the **BLUE** button to return to the "Digital Set-up" menu or press the **MENU** button to exit from this menu.

SOFTWARE DOWNLOAD

Periodically Sony issues updates for the software that controls your TV. This option allows you to automatically receive updates free through your existing aerial.

To do this:

1. Once you have entered into the "Detail Set-up" menu as it is explained in the previous page, press the ↑ or ↓ button to highlight "**Software Download**" then press the **OK** button to display the "Software Download" menu.
2. Press the ↑ or ↓ button to change the "Current Setting". If you wish to receive downloads, the "Current Setting" should be set to "**ON**". If you do not wish to receive downloads, the "Current Setting" should be set to "**OFF**".
3. Press the **OK** button to confirm your selection.
4. Press the **BLUE** button to return to the "Digital Set-up" menu or press the **MENU** button to exit from this menu.

SYSTEM INFORMATION

This is an information screen only. It tells you the current version of the software in your TV together with the signal strength, as indicated by the coloured bar in the display.

To do this:

1. Once you have entered into the "Detail Set-up" menu as it is explained in the previous page, press the ↑ or ↓ button to highlight "**System Information**" then press the **OK** button to display the "System Information" menu.
2. Press the **BLUE** button to return to the "Digital Set-up" menu or press the **MENU** button to exit from this menu.

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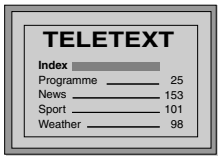
Analogue Teletext

Teletext is an information service transmitted by most Analogue TV stations. The index page of the teletext service (usually page 100) gives you information on how to use the service. To operate teletext, use the remote control buttons as indicated below.

- Teletext errors may occur if you use a channel (TV Broadcast) with a weak signal.
- After 5 minutes viewing the same teletext page and without any button being pressed, the brightness level of the picture automatically decreases noticably to avoid any damage to the picture tube. Press any button of the remote control to reset the brightness level.

To switch on Teletext :

After selecting the Analogue TV channel which carries the teletext service you wish to view, press .



To select a Teletext page:

Input 3 digits for the page number, using the numbered buttons.

- *If you make a mistake, retype the correct page number.*
- *If the counter on the screen continues searching, it is because the page is not available. If this is the case, input another page number*

To access the next or preceding page:

Press **PROG +** ( ) or **PROG -** ( ).

To superimpose teletext on to the TV:

Whilst you are viewing teletext, press . Press it again to cancel teletext mode.

To freeze a teletext page:

Press / . Press it again to cancel the freeze.

To reveal concealed information (e.g: answer to a quiz):

Press / . Press it again to conceal the information.

To select a sub page:

A teletext page may consist of several sub pages. In this case the page number that appears on the upper left corner will change from white to green and one or more arrows will appear next to the page number. Repeatedly press the ← or → buttons on the remote control to watch the desired sub page.

To Switch Off Teletext:

Press **DIGITAL/** .

Fastext

Fastext service lets you access Teletext pages with one button push.
When you are in Teletext mode and Fastext is broadcast, a colour coded menu appears at the bottom of the teletext page. Press the appropriate coloured button (red, green, yellow or blue) to access the page corresponding to your menu choice.

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Digital Teletext

- The "Digital Teletext" is only available when watching Digital channels.
- If the TV is not already in Digital mode, press the DIGITAL/ ▢ button on the remote control.
- Many Digital broadcasters now provide a Digital Teletext service in the form of a dedicated Teletext channel. This Digital service includes high quality text and graphics along with advanced navigation options.

- The appearance, content and navigation methods of all Digital Text services are decided by the broadcaster. For example, Digital Text from the BBC may look different to Digital Text from ITV which may use different navigation methods.
- Most of the Digital Text services currently available use simple navigation methods based on the following buttons:
  - The ☰ button to load Digital Teletext.
  - The ↑, ↓, ← and → buttons (to move around the screen),
  - The **OK** button (to select items on screen),
  - The ↻ button (to cancel a selection or exit Digital Teletext),
  - The four coloured buttons (to access shortcuts).
  - The DIGITAL/ ▢ button to exit Digital Teletext.

Dedicated Digital Teletext channels

1 With the TV in Digital mode, press the numbered buttons on the remote control to select a dedicated Teletext channel number. To find out the channel number of a dedicated Digital Teletext channel, use the "Channel Index menu". (Please refer to "The Channel Index menu" section of this instruction manual, on page 11)

2 Once the Teletext channel is displayed, follow the on-screen instructions to access the required information.

On some pages the TV programme is also displayed. Instructions on-screen will tell you how to change the displayed programme.

3 If when viewing the Teletext pages, you are requested to select "OK" or "Cancel", press the **OK** button for "OK" and the ↻ button for "Cancel".

4 When you have finished viewing Teletext, press the **DIGITAL/** ▢ button to exit.

Selecting Teletext from 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.

1 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" and 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 **DIGITAL/** ▢ button and then select an alternative Digital channel.

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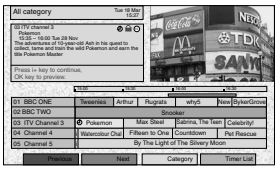
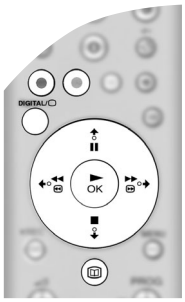
EPG



- The EPG menu is only available when watching Digital channels.
- If the TV is not already in Digital mode, press the DIGITAL/ button on the remote control.

The EPG menu (Electronic Programme Guide) is an onscreen electronic programme guide that provides you with a quick and easy way to: View a complete list of the programmes available with a preview of the programmes currently being broadcast, reduce the size of the list by selecting a category of programme, e.g. Sports or Movies, and record programmes.

To do this:
With the TV in Digital mode, press the button to access to the EPG. Next read below how to operate each option.



LIST OF PROGRAMMES

This screen consists of an information window, a preview window, a 2 hour timer bar (divided into 30 minute intervals) and a 5 channel programme list covering the 2 hour period. You can select different programmes to get information.

To do this:

1 With the EPG menu on screen by pressing , press the ▲ or ▼ buttons to move the coloured cursor bar up or down the programme list and the ➡ or ⬅ buttons to move left and right. If you press the ➡ button once more after highlighting the last programme on the right, the programmes scheduled for the next 2 hour period are displayed.
As each programme is highlighted, a brief description of the programme appears in the event information box at the top left of the screen.
If you do not wish to select a programme from the 5 channels listed, press the **GREEN** button to display the next 5 channels or **RED** button to display the previous 5 channels.

2 If a programme you highlight is currently being broadcast, press the **OK** button to obtain a preview in the preview window. If you have previously set a viewing age limit in the "Parental Control" option (see page 24), and the programme exceeds that age limit, you will be asked to enter your PIN code before the preview is allowed.

3 When the programme in the preview screen is the one you wish to watch, press the button to exit the EPG menu and view the programme at full size.

THE CATEGORY POP-UP LIST

The "Category" pop-up list allows you to quickly search for a programme by choosing from different categories of programmes. For example, select the "News" option from the "Category" pop-up list to display programme information only for News channels.

To do this:

1 With the EPG menu on screen by pressing , press the **YELLOW** button to display the "Category" pop-up list.

2 Press the ▲ or ▼ buttons to highlight the category you want, then press the **OK** button. The EPG programme list will now only contain programmes of the type selected.

For information on the types of Categories along with instructions on how to add and remove programmes from the Favourite list, please refer to "The Channel Index menu" section of this instruction manual on page 11.

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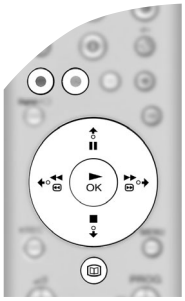
RECORDING PROGRAMMES

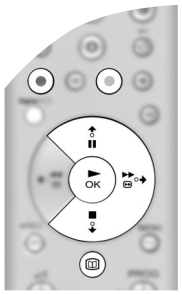


To select a programme for recording or timed display:

1 With the EPG menu on screen by pressing 📖, press the ↑, ↓, ← or → buttons to highlight a programme in the EPG menu that you wish to record, then press the **OK** button. The Timer screen appears.

2 Press the **RED** button and your VCR will automatically record the selected programme when it starts (only if your VCR has SmartLink facility), or press the **GREEN** button if you wish the programme to appear on your TV screen when transmission begins.

- If you do not have a SmartLink VCR, a message appears on screen to inform you. Press the RED button to store the programme settings on the TV, then set the timer recording function on your VCR to correspond with the programme you have stored for recording.
- When a programme has been stored for recording, a solid bar appears in the EPG display directly under the timer bar. This solid bar shows you the amount of time allocated to a recording, and reminds you that you are unable to record any other programmes during that period of time.



To set the Manual Timer:

1 With the EPG menu on screen by pressing 📖, press the **BLUE** button to display the Timer List menu.

2 Press the **RED** button to display the "Manual Timer Record" menu.

If your VCR does not have SmartLink a message will be displayed reminding you to set your VCR timer.

3 Press the ↑ or ↓ buttons to select the correct date. Press the → button to highlight the start time.

4 Press the ↑ or ↓ buttons to select the start time. Press the → button to highlight the stop time.

5 Press the ↑ or ↓ buttons to select the stop time. Press the → button to highlight the programme.

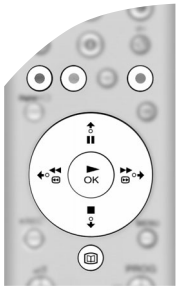
6 Press the ↑ or ↓ buttons to select the programme. Press the **OK** button to store. The Timer List menu is displayed. The event is now set to the Timer List. Press the **YELLOW** button to delete the timed event or press the **BLUE** button to return to the main EPG screen.

7 Press the **RED** button and repeat steps 3 to 6 if you wish to store further programmes for recording.

8 Press the 📖 button to return to normal TV operation.

9 Set the timer recording function on your VCR to switch on and off to correspond with the programmes you have stored for recording.

- Once a programme has started recording, do not switch channels or the recording will be cancelled.
- When a programme has been set to record and the TV is in standby mode, the standby indicator on the front of the TV will flash green and red periodically to remind you that a programme has been set to record.



To cancel a previously set event:

1 With the EPG menu on screen by pressing 📖, press the **BLUE** button to display the Timer List.

2 Press the ↑, ↓, ← or → buttons to highlight the programme/event you wish to cancel.

3 Press the **YELLOW** button to cancel the programme/event.

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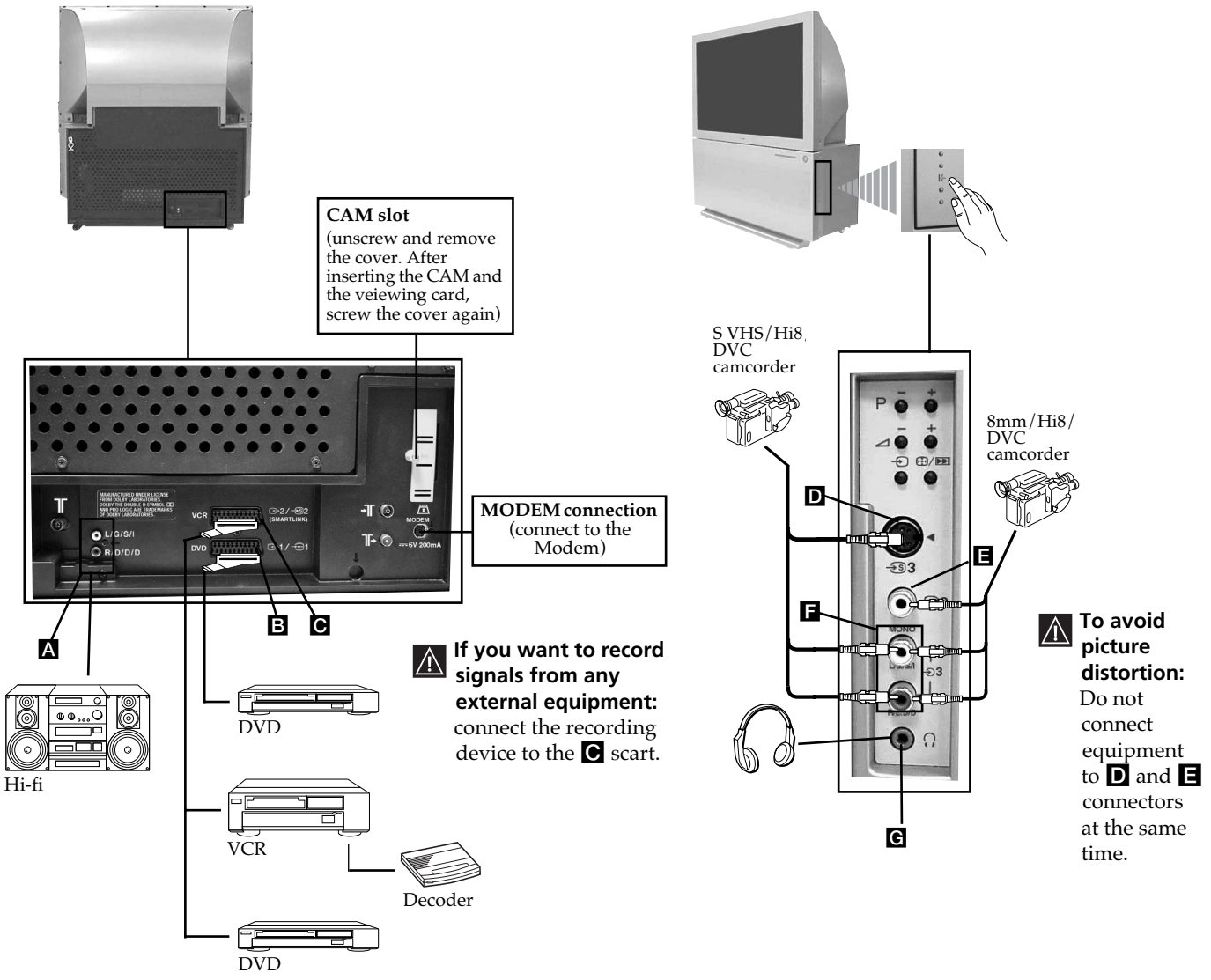
Connecting Optional Equipment

- Using the following instructions, you can connect a wide range of optional equipment to your projection TV.
- Conecting cables are not supplied.



Acceptable input signal	Available output signal
A No inputs	Audio signal.
B Audio/video and RGB signal	Video/audio from TV tuner.
C Audio/video and S video signal	Video/audio from selected source.
D S Video signal	No output.
E Video signal	No output.
F Audio signal	No output.
G No input	Audio signal to headphones.

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Additional Information when connecting equipment

Connecting a VCR

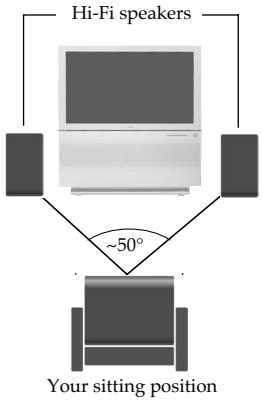
We recommend you connect your VCR to the **C** socket using a scart lead. If you do not have a scart lead, use the "Manual Programme Preset" section on page 20 to tune in the channel of the VCR test signal to TV programme number "0". Also refer to your VCR instruction manual to get the VCR test signal.

Connecting a SmartLink VCR

- SmartLink is a direct link between your projection TV set and a VCR.
- For SmartLink you need a VCR which supports SmartLink, NexTView, Easy Link* or Megalogic**
  * Easy Link is a trademark of Philips Corporation.
  ** Megalogic is a trademark of Grundig Corporation.
- For more information on SmartLink, please refer to the Instruction Manual of your VCR.
- Ensure that your SmartLink VCR is connected to the **C** socket, using a fully-wired 21-pins Scart lead.

To enjoy "Dolby Virtual" sound effect through your Hi-Fi equipment:

Place the speakers of your equipment in front of your listening position and beside the projection TV set but keeping a distance of 50 cm between each speaker and the projection TV set.
Then by using the menu system, select the menu "Sound Adjustment"and select "Dolby V" on the "Effect" option (see page 16).



Connecting to external Audio Equipment:

Plug in your Hi-Fi equipment to the audio output sockets **A** if you wish to amplify the audio output from projection TV and, using the menu system, select the "Sound Adjustment" menu and set the "TV Speakers" to "Off" (see page 16).

Audio level of the external speakers can be modified by pressing the volume buttons on the remote control. Also treble and bass settings can be modified through the "Sound Adjustment" menu.

GB

Using Optional Equipment

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 ⇨1/ 1. Press the button on the remote control repeatedly until you see the symbol 1 on the screen.

1 Connect your equipment to the designated projection TV socket, as it is indicated on the previous page.

2 Switch on the connected equipment.

3 To watch the picture of the connected equipment, press the button repeatedly until the correct input symbol appears on the screen.

Symbol	Input Signals
1	• Audio / video input signal through the Scart connector **B**
1	• RGB input signal through the Scart connector **B**. This symbol appears only if an RGB source has been connected.
2	• Audio/video input signal through the Scart connector **C**.
S 2	• S Video Input signal through the Scart connector **C**. This symbol appears only if a S Video source has been connected.
3	• Video input signal through the phono socket **E** and Audio input signal through **F**.
S 3	• S Video Input signal through the front S Video input jack **D** and Audio signal through **F**. This symbol appears only if an S Video source has been connected.

4 Press **DIGITAL/** button on the remote control to return to the normal TV picture.

For mono equipment

Connect the phono plug to the L/G/S/I socket on the side of the TV and select **3** or **S 3** input signal using the instructions above. Finally, refer to the "Sound Adjustment" section of this manual and select "Dual Sound" "A" on the sound menu screen (see page 16).

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Remote Control Configuration for VCR/DVD

In it's default condition this remote control will operate the basic functions of this Sony TV, Sony DVDs and most Sony VCRs. To control VCRs and DVDs of other manufacturers (and some Sony VCR models), please complete the following steps:

- Before you start, look up the 3 digit code for your brand of DVD or VCR from the list below. On those brands that have more than one code, enter the first code number.
- Sony will endeavour to update the software according to market changes. Therefore, please refer to code table included with the remote control for latest code set.

To do this:

1 Press the Media Selector button on the remote control repeatedly until the required green light (VCR or DVD) is lit.

If Media Selector is on TV position, code numbers will not be stored.

2 Before the green light goes out, press and hold the **YELLOW** button for approximately 6 seconds until the green light starts flashing.

3 Whilst the green light is flashing, enter all three digits of the code for your brand of VCR or DVD using the number buttons on the remote control.

If your selected code is entered correctly, all three green lights will be lit momentarily.

4 Turn on your VCR or DVD and check that the main functions work.

- If your device is not working or some of the functions do not work please check that you entered the correct code set or try the next code listed against the brand.
- Your brand codes may be lost if weak batteries are not replaced within a few minutes. To reset your brand of DVD or VCR please repeat the above steps. A small label is added inside the battery door to allow you to record your brand codes.
- Not all brands are covered and not all models of every brand may be covered.

5 When you wish to use the remote control to operate the TV again, press the Media Selector button until the TV green light illuminates. Don't forget to select VCR or DVD using the Media Selector button every time you wish to operate that equipment with this remote control.

VCR Brand List

Brand	Code
SONY (VHS)	301, 302, 303, 308, 309
SONY (BETA)	303, 307, 310
SONY (DV)	304, 305, 306
AIWA	325, 331, 351
AKAI	326, 329, 330
DAEWOO	342, 343
GRUNDIG	358, 355, 360, 361, 320, 351
HITACHI	327, 333, 334
JVC	314, 315, 322, 344, 352, 353, 354, 348, 349
LG	332, 338
LOEWE	358, 355, 360, 361, 320, 351
MATSUI	356, 357
ORION	328
PANASONIC	321, 323
PHILIPS	311, 312, 313, 316, 317, 318, 358, 359
SAMSUNG	339, 340, 341, 345
SANYO	335, 336
SHARP	324
THOMSON	319, 350
TOSHIBA	337

DVD Brand List

Brand	Code
SONY	001
AIWA	021
DENON	018, 027, 020, 002
GRUNDIG	009, 028, 023, 024, 016, 003
HITACHI	025, 026, 015, 004
JVC	006, 017
KENWOOD	008
LG	015, 014
LOEWE	009, 028, 023, 024, 016, 003
MATSUI	013, 016
ONKYO	022
PANASONIC	018, 027, 020, 002
PHILIPS	009, 028, 023, 024, 016, 003
PIONEER	004
SAMSUNG	011, 014
SANYO	007
SHARP	019, 027
THOMSON	012
TOSHIBA	003
YAMAHA	018, 027, 020, 002

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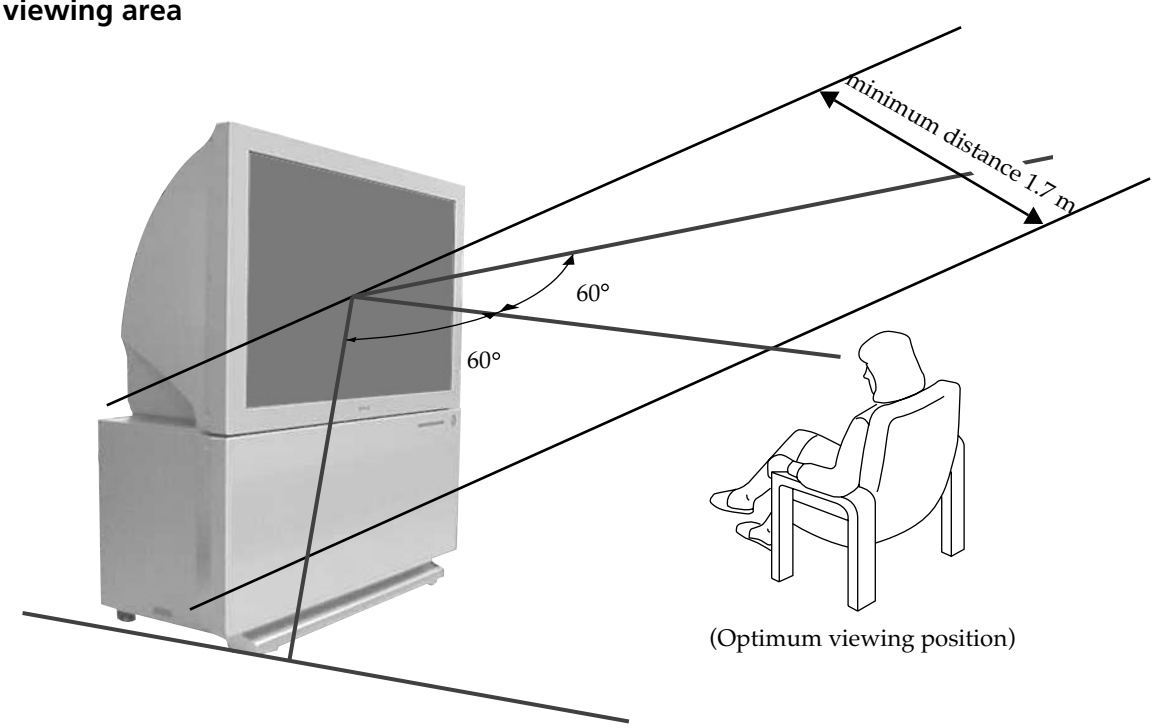
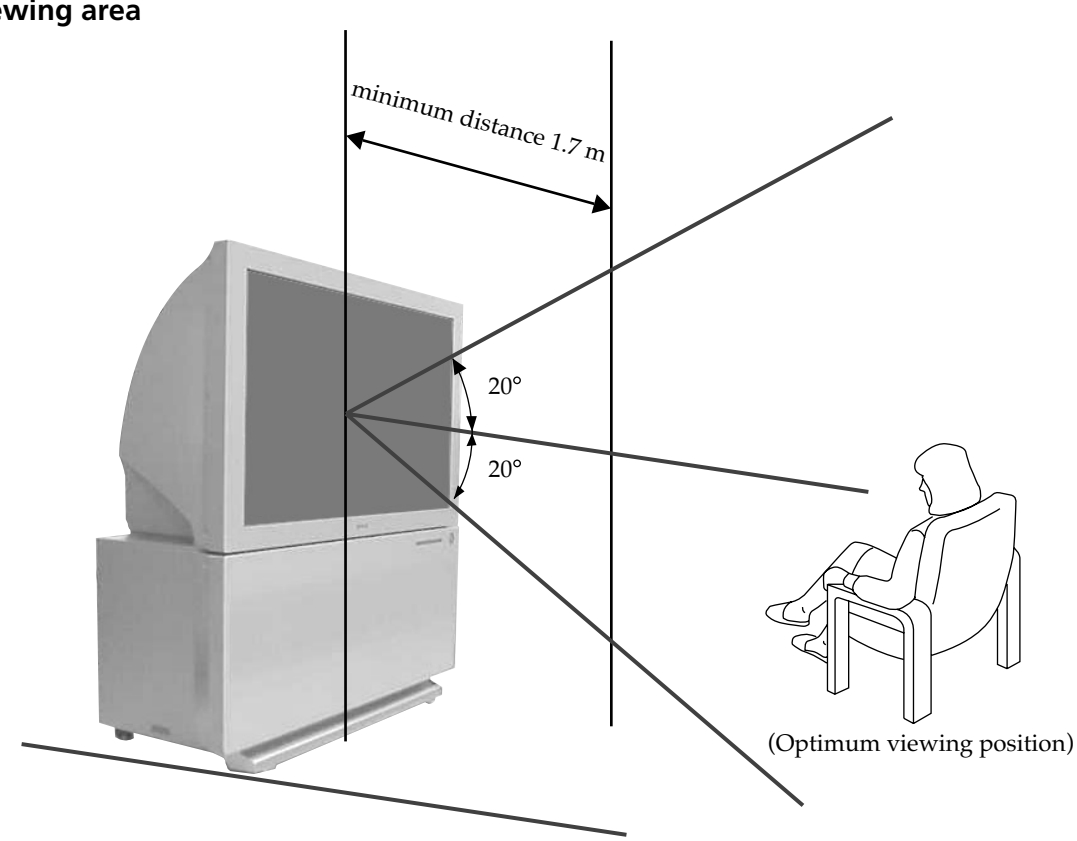
Optimum Viewing Area

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



Vertical viewing area



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Technical Specifications

TV system:
I/DVB-T

Colour system:
PAL
SECAM, NTSC 3.58, 4.43 (only Video In)
MPEG 2 MP@NL

Channel Coverage:
I: UHF B21-B69

Projected picture size:
44" (approx. 112 cm. measured diagonally)

Rear Terminals

- **1/ 1** 21-pin scart connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output.
- **2/ 2** (SMARTLINK) 21-pin Scart connector (CENELEC standard) including audio/video input, S video input, selectable audio/video output and SmartLink interface.
- audio outputs (Left/Right) - phono jacks.
- RF In (Analogue)
- RF In (Digital)
- RF Out
- CAM (Conditional Access Module) slot.
- MODEM connection.

Side Terminals:

- **3** S Video input – 4 pin DIN
- **3** video input – phono jack
- **3** audio input – phono jacks
- headphones jack

Sound Output:
2 x 30 W (music power)
2 x 15 W (RMS)

Power Consumption:
220 W

Standby Power Consumption:
1 W

Dimensions (w x h x d) :
approx. 1100 x 1160 x 536 mm.

Weight:
approx. 68 Kg.

Accessories supplied:

- 1 Remote Control (RM-948)
- 2 Batteries (IEC designated, AA size)
- 1 RF Loopthrough cable

Other features:

- Digital terrestrial reception.
- Digital Comb Filter (High resolution).
- 100 Hz picture, Digital Plus.
- Digital Teletext.
- Analogue Teletext, Fastext, TOPtext.
- NICAM.
- Sleep Timer.
- SmartLink.
- Dolby Virtual.
- BBE.
- PIP.
- Auto Format.
- CAM connection (for future use only).
- MODEM connection (for service use only).

Design and specifications are subject to change without notice.

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Troubleshooting

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

Problem	Solution
No picture (screen is dark) and no sound.	• Check the aerial connection. • Plug the TV in and press the ⏻ button on the front of the projection TV. • If the standby indicator ⏻ is on, press **TV** I/⏻ button on the remote control.
Poor or no picture (screen is dark), but good sound.	• Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to the factory settings (see page 15).
No Digital channels after tuning.	• Maybe there are no Digital transmissions in your area, contact a local installer to find out when digital transmissions begin in your area. • Contact a local installer to find out at which transmitter you should be pointing your aerial. • Change your aerial to cover the channels used by digital programmes. (Contact a local installer). • Ensure aerial is correctly aligned to transmitter. • Ensure aerial is plugged directly into the TV (not through other equipment).
No picture or no menu information from equipment connected to the Scart connector.	• Check that the optional equipment is on and press the ⮌ button repeatedly on the remote control until the correct input symbol is displayed on the screen (see page 33).
Good picture, no sound.	• Press the ◿ + button on the remote control. • Check that "TV Speakers" is "On" in the "Sound Adjustment" menu (see page 16). • Check that headphones are not connected.
No colour on colour programmes.	• Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to factory settings (see page 15).
When you switch on the TV the last channel you were watching before switching the TV off does not appear.	• This is not a malfunction. Press the number buttons on the remote control to select the desired channel.
Undefined picture with different colour on the outlines of the images.	• Adjust the colour registration. For more details, please refer to "Adjusting Colour Registration (Convergence)" section on page 10.
Noisy picture when viewing a TV channel.	• Using the menu system, select the "Manual Programme Preset" menu and adjust Fine Tuning (AFT) to obtain better picture reception (see page 20). • Using the menu system, select the "Noise Reduction" option in the "Picture Adjustment" menu and select "Auto" to reduce the noise in the picture (see page 15).
Distorted picture when changing programmes or selecting teletext.	• Turn off any equipment connected to the Scart connector on the rear of the projection TV.
Brightness level of the picture is notoriously decreased when viewing a teletext page.	• This is not a malfunction. After 5 minutes viewing the same teletext page and without any button being pressed, the projection TV automatically decreases the brightness level to avoid any damage to the picture tube. To reset the brightness level, press any button of the remote control.
Remote control does not function.	• Check that the Media Selector on the remote control is set to the device you are using (VCR, TV or DVD). • If the remote control does not operate the VCR or DVD even when the Media Selector has been set correctly. Enter the necessary code set as explained in the "Remote Control Configuration for VCR/DVD" section on page 34. • Replace the batteries.
The standby indicator ⏻ on the projection TV flashes even though the EPG is not programmed to record.	• Contact your nearest Sony service centre.

⚠ **• If you continue to experience problems, have your projection TV serviced by qualified personnel or you can contact the Sony UK Digital Helpline on 0870 600 1717.**
• Never open the casing yourself.

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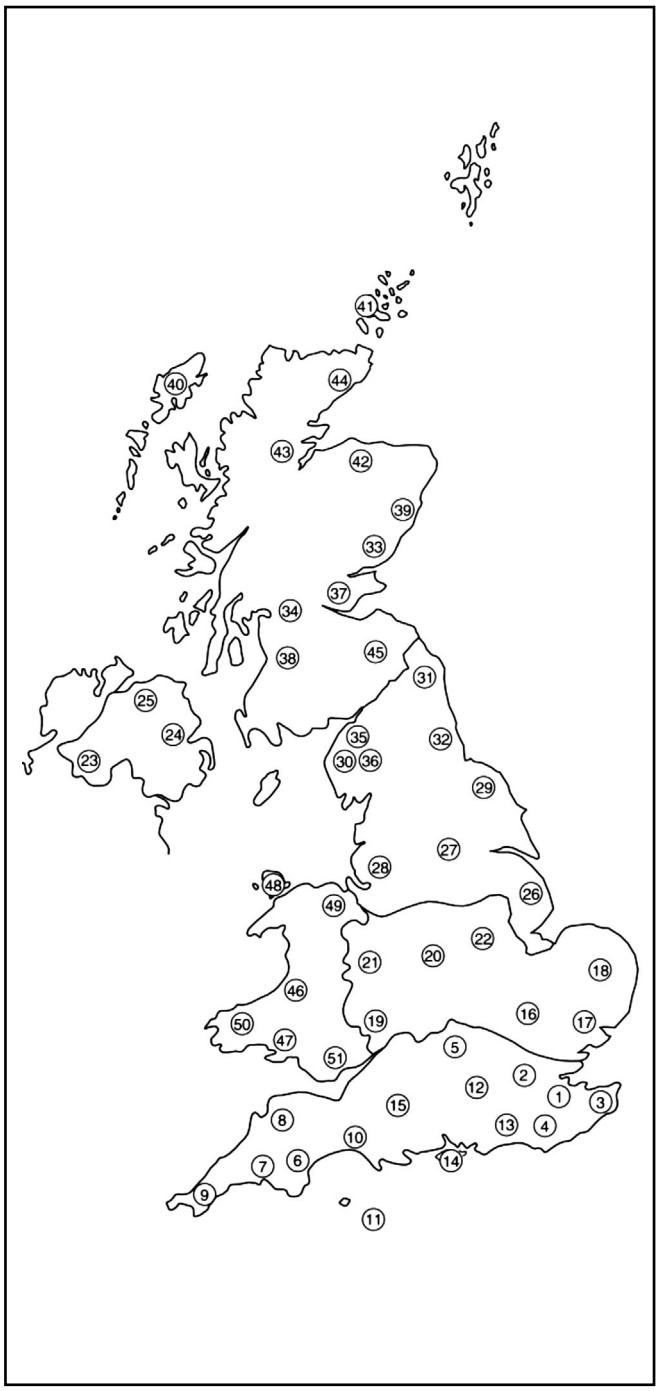
Television Channel Number Guide for Analogue channels

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
London & South East					
(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
South-West					
(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	-
Channel Islands					
(11) Fremont Point	51	44	41	47	-
South					
(12) Hannington	39	45	42	66	-
(13) Midhurst	61	55	58	68	-
(14) Rowridge	31	24	27	21	-
West					
(15) Mendip	58	64	61	54	37
East					
(16) Sandy Heath	31	27	24	21	39
(17) Sudbury	51	44	41	47	-
(18) Tacolneston	62	55	59	65	52
Midlands (West)					
(19) Ridge Hill	22	28	25	32	-
(20) Sutton Coldfield	46	40	43	50	-
(21) The Wrekin	26	33	23	29	-
Midlands (East)					
(22) Waltham	58	64	61	54	-
Northern Ireland					
(23) Brougher Mountain	22	28	25	32	-
(24) Divis	31	27	24	21	-
(25) Limavady	55	62	59	65	-
North					
(26) Belmont	22	28	25	32	56
(27) Emley Moor	44	51	47	41	37
North-West					
(28) Winter Hill	55	62	59	65	48
North-East					
(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	-
Scotland					
(33) Angus	57	63	60	53	-
(34) Black Hill	40	46	43	50	37
(35) Sandale	22	67	-	-	-
(36) Caldbeck	-	-	28	32	56
(37) Craigkelly	31	27	24	21	48
(38) Darvel	33	26	23	29	-
(39) Durris	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
Wales					
(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
(51) Wenvoe	44	51	41	47	-



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