

**SONY**<sup>®</sup>

4-205-744-64



420574464

# ***Trinitron Colour Television***

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Operating Instructions \_\_\_\_\_

**GB**

***KV-28FX65 U  
KV-32FX65 U***

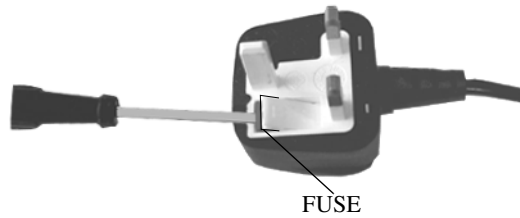
## NOTICE FOR CUSTOMERS IN THE UNITED KINGDOM

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 13 AMP fuse approved by ASTA or BSI to BS 1362 (i.e. marked with  $\diamond$  or  $\heartsuit$ ) must be used.

When an alternative type of plug is used it should be fitted with a 13 AMP FUSE, otherwise the circuit should be protected by a 13 AMP FUSE at the distribution board.

If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. Never use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest Sony service station.



### How to replace the Fuse

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

- **IMPORTANT**

If the plug supplied is not suitable for the socket outlet in your home, it should be cut off and an appropriate plug fitted in accordance with the following instructions:

The wires in this mains lead are coloured in accordance with the following code:

Blue      Neutral

Brown     Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

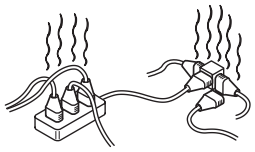
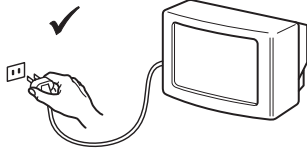
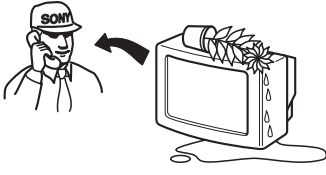
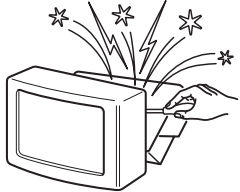
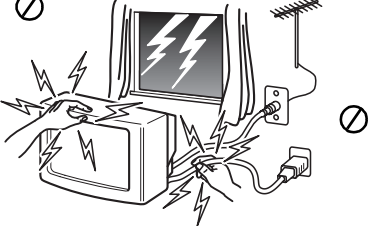
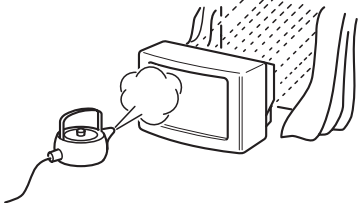
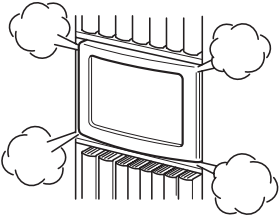
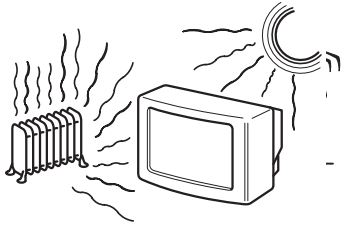
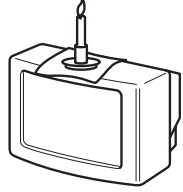
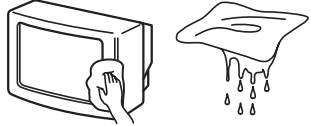
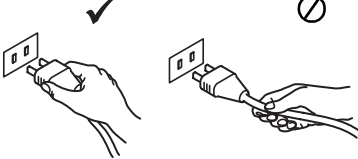
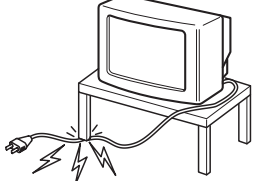
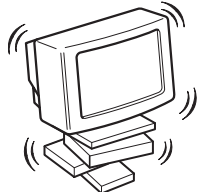


The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red. Do not connect either wire to the earth terminal in the plug which is marked by the letter E or by the safety earth symbol  $\perp$  or coloured green or green and yellow.

### **WARNING**

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



# For your safety

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

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# Installation

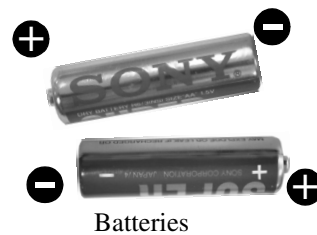


**Follow steps 1-6 to install the TV and view TV programmes.**

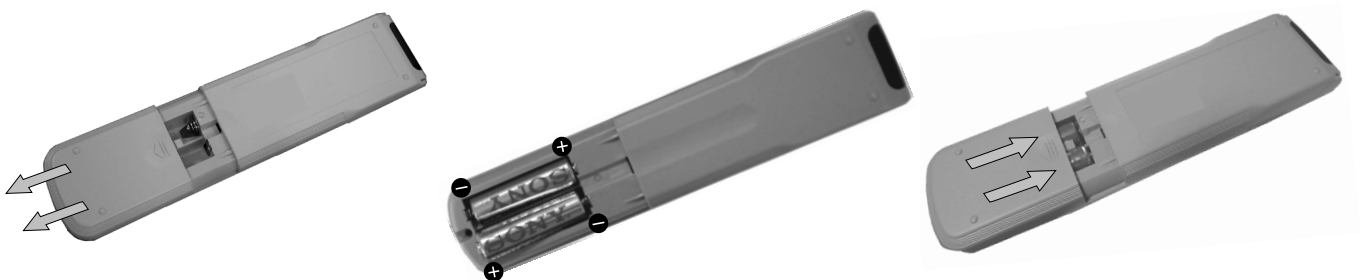
## 1. Checking the accessories supplied



Remote control



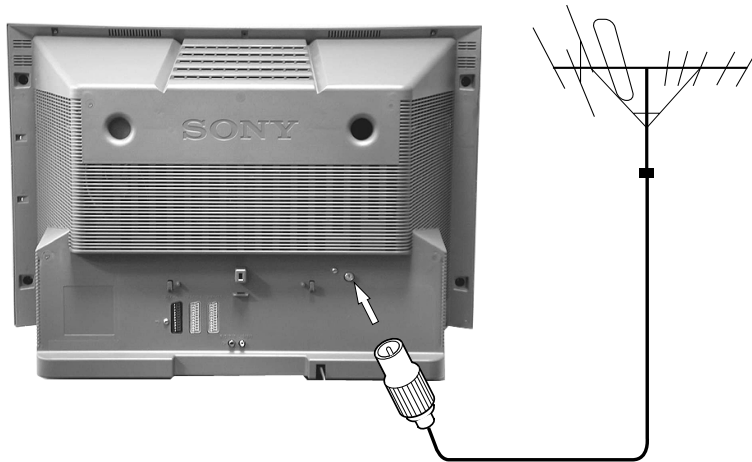
## 2. Inserting batteries into the remote control



Always observe the correct polarity when inserting batteries.  
Always remember to dispose of used batteries in an environmentally friendly way.

### 3. Connecting the TV

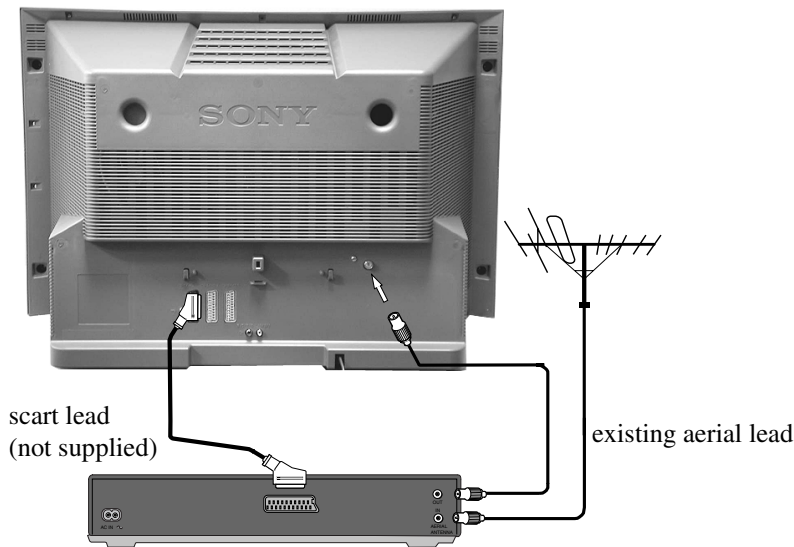
#### Connecting an aerial to your TV



**i** If you are not connecting your TV to a VCR, please connect the aerial lead (as shown left) and proceed to section '4. Switching on the TV'.  
  
If you are connecting your TV to a VCR please refer to the section below.

1. Connect your existing aerial lead to the socket marked  $\Pi$  on the rear of the TV set.

#### Connecting an aerial and VCR to your TV



**i** The scart lead is optional. If it can be used however, this additional connection can improve picture and sound quality when in play mode.

1. Connect your existing aerial lead to your VCR as shown.
2. Connect the VCR aerial lead from the RF OUT socket on the back of the VCR to the aerial socket on the back of the TV as shown.
3. Connect the scart lead (if used) to the AV2 socket on the rear of the TV set.
4. Connect the VCR set to the mains and switch on.
5. Insert a pre-recorded tape into the VCR and press the 'PLAY' button. This enables the TV set to locate and store the video channel during the 'Tuning your TV' procedure on page 7.

## 4. Switching on the TV



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



2. Push in the on/off button ① on the front of the TV.



If the standby mode indicator on the front of the TV is lit, press the TV I/O button on the remote control to switch on the TV set. Please be patient as the picture may take a few moments to appear on the TV screen.



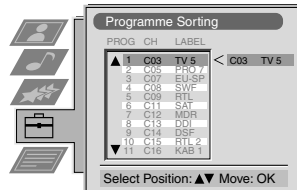
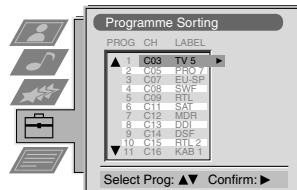
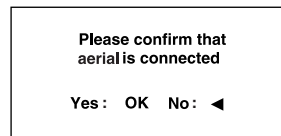
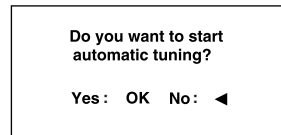
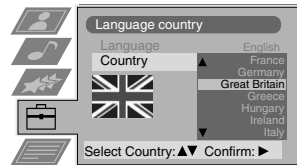
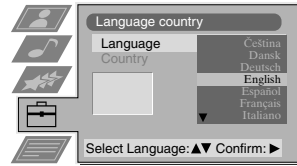


# 5. Tuning your TV

Before you tune your TV, you will be asked to set your language and country.

1. The Language/Country menu appears on the TV screen with the word 'English' highlighted.
2. Press the ▲ or ▼ buttons on the remote control to select your chosen language then press the OK button to confirm.
3. Press ▲ or ▼ to select the country in which you wish to operate the TV then press the OK button to confirm your choice. Select 'OFF' if you do not want your channels stored in a given channel sequence starting from programme position 1.
4. The 'autotune' menu appears on the TV screen in your selected language. Press the OK button to confirm.
5. Ensure the aerial is connected as instructed, then press the OK button to confirm. The TV starts to automatically search and store all available channels for you. This may take a few minutes - please be patient and do not press any buttons.
6. Once the TV has tuned all available channels the 'Programme Sorting' menu appears on the TV screen enabling you to change the order of the channels on your TV. If you wish to change the channel order, press the ▲ or ▼ buttons to select the channel you want to move, then press ►. Press the ▲ or ▼ buttons to select the new programme number position for your selected channel then press the OK button to confirm. The selected channel now moves to its new programme position and the other channels move accordingly. Repeat this procedure if you wish to sort the order of other channels on your TV.
7. Press the MENU button to remove the menu from the TV screen.
8. Press the PROGR+/- or the numbered buttons to view the TV channels.

Note: If you would like to stop the autotune process at any stage, press the OK button.



# 6. Finding your video channel

If you have connected a VCR to your TV, you now need to find your video channel. Please refer to the 'Connecting the TV' section of this manual on page 5.

1. Press the PROGR+/- buttons on the TV remote control until your video picture appears on the TV screen.

Note: If you wish to move your video channel to a different programme position, refer to the 'Re-arranging the TV channels' section of this instruction manual.

# Operation

## Overview of the TV set buttons



Press the door flap as shown.



The control panel appears.

**Video input button.**  
Press to select the input signals from VCR etc.



**Programme Up (+) or Down (-) buttons.**  
Press to select TV channels.

**Volume control buttons.**  
Press to increase (+) /decrease (-) volume.

**Master Reset button.**  
Press to return the picture and sound levels to factory settings. The Sony logo will appear on the screen followed by the 'Autotune' screen. If you do not wish to retune your TV, press the ◀ button on your remote control.

# Overview of the remote control buttons

**To mute sound**

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

**To reveal on screen information**

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

**To select channels**

Press the numbered buttons to select channels.

For double digit programme numbers, e.g.23, press -/-- first, then the buttons 2 and 3.

**To return to TV mode**

Press to return to the normal operation from teletext mode or standby mode.

**To select Teletext**

Press to switch Teletext on and off.

**To display picture menu**

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

**To display sound menu**

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

**To adjust TV volume**

Press to adjust the volume of the TV.

**To temporarily switch off TV**

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

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

**To select input signal or freeze teletext**

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

**To return to previous channel**

Press to return to the previous channel you were watching. Note: This can be done only after watching the present channel for 5 seconds.

**To display the menu**

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

**To select menu items**

Use the OK button and arrow keys to select the options available in the menu system of this TV.

**To select Electronic Programme Guide (EPG)**

Press to switch EPG on and off.

**To change screen format**

Press to change the format of the screen. See 'Changing the screen size' section of this manual for details.

**Fastext keys**

See Teletext section of manual for details.

**To select channels**

Press to select channels.



## Operation

# NexTVView\*

\* depending on availability of service



NexTVView is an electronic programme guide with up to 1 week\* of programme information on those channels included in the selected provider.

\*If the data exceeds the memory of NexTVView, you will get information on less than 7 days.

When looking for information you can search by theme (sports, art etc.), date or time (e.g. broadcasts between 8 p.m. and 9 p.m.). When you've found a programme you can go directly to this programme, use the timer to remind you of it or preset your VCR with Smartlink.



The NexTVView provider is responsible for the contents of the guide. The TV set is responsible for the presentation, that is the menu structure and the navigation, if there is none from the provider. If there is a navigation from the provider the basic operation with the remote control is the same as described in the Sony navigation.

At first you need to select a channel providing a NexTVView service. In this case the indication "NexTVView" is displayed as soon as all data is available. When you later change the channel you can still select this NexTVView service.

## Operation using the Sony navigation




1. Press to switch NexTVView on and off.
2. Use the remote control buttons as follows
  - moving up or downwards within a column: Use ▲ or ▼.
  - going to the left columns time and date: Use ◀.
  - going to the right column icons: Use ▶.
  - Confirming a selection: Press OK.
- (a) while in the columns date, time or icon (themes), the programme list changes according to the selection.
- (b) while in the programme list, confirming a running broadcast brings you directly to the TV programme or confirming a future programme brings you to the long info menu.









### Index

- full list of selection
- personal selection
- news broadcasts
- movies
- sports
- entertainment
- children
- return to last menu





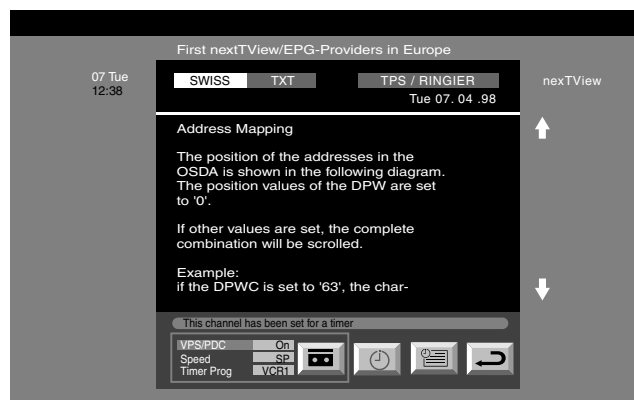
## Individual Setting

 When you select  there will be no personal pre-selection.  lets you make your own individual selection of themes, limiting the search to the marked ones.

1. Select  using  or . Push  to enter.  
The menu Individual Settings is displayed.
2. Select the item you wish to mark using  or . Confirm by pressing OK.  
Repeat step 2 for all the items you wish to have in your list.
3. When finished with the list, select  using  and press OK.



## Using the 'Long Info' menu

1. Select a future programme in the column programme list using  or . Press OK.  
The long info menu is displayed.





### You may wish to record the selected programme with your VCR.

(only with Smartlink VCRs)

2. Select  using  and press OK.  
This information is transferred to the VCR connected to your set.


### Setting up your VCR

3. Select VPS/PDC by pushing  repeatedly.

 With this setting on, you have the guaranteed recording of the whole broadcast should there be a change in the TV programme. This only works if the selected channel broadcasts a VPS/PDC signal.

- Select On or Off using OK.

4. Select Speed using .



 Select between standardplay (SP) or longplay (LP) mode. With longplay you can record twice as much on a videotape. The picture quality, however, may suffer.

- Select SP or LP using OK.

5. Select VCR Setup using .

 Select with which of the connected Smartlink VCRs you wish programme.

- Select VCR 1 or 2 using OK.

6. Select  using . Press OK.  
You are back in the last menu.

# Teletext



Most TV channels broadcast information via Teletext. The index page of the teletext service (usually page 100) gives you information on how to use the service. Please use a TV channel with a strong signal, otherwise there may be Teletext errors.

## Switching Teletext on and off

1. Select the TV channel which carries the teletext service you want to view.
2. Press the button once to get Teletext only.
3. Press twice for Mix mode.
4. Press a third time to switch off Teletext.

## Selecting a Teletext page

Input three digits for the page number using the numbered buttons on the remote control. If you make a mistake, type in any three digits then re-enter the correct page number.

## Using Other Teletext Functions

### Selecting the next or preceding page

Press the or buttons on the remote control to select the previous or next page.

### To freeze a Teletext page

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

### Revealing concealed information

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

### Using colour buttons to access pages (Fastext)

(only available if the TV station broadcasts Fastext signals)

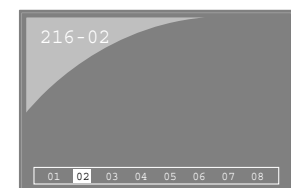
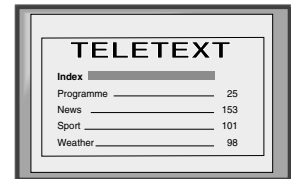
When the colour coded menu appears at the bottom of a page, press a coloured button on the remote control (green, red, yellow or blue) to access the corresponding page.

### Selecting a sub page

A teletext page may consist of several sub pages. In this case an information line is displayed, showing the number of subpages. Select the sub page by pressing or .

### Using the feature 'Page Catching'

1. Press the numbered buttons on the remote control to select a teletext page which has several page numbers on it (eg the index page).
2. Press the OK button.
3. Press or to select the desired page number then press the OK button. The requested page is displayed after some seconds.



# Teletext

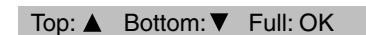
## Using the Teletext menu

1. With Teletext switched on, press the MENU button on the remote control to display the menu on the TV screen.
2. Press ▲ or ▼ to select your chosen item on the screen then press ► to display the relevant sub menu.
3. To remove the Teletext menu from the screen, press the MENU button.



### Top/Bottom/Full

The Top/Bottom/Full sub menu allows you to enlarge different sections of the Teletext page. Press ▲ to enlarge the upper half of the screen, Press ▼ to enlarge the lower half. Press the OK button to restore the page to normal size. Press ◀ to return to the Teletext menu screen.



### Text Clear

Text Clear is a function that displays a TV channel while a Teletext page is being searched for.

1. Press the ☰ button on the remote control to select full screen text.
2. Press the MENU button to display the 'Teletext' menu.
3. Press ▲ or ▼ to highlight 'Text Clear' and press ► to select.
4. The current TV channel is displayed. Once the text page has been found a blue ☰ symbol will appear in the top left hand corner of the screen.
5. Press the ☰ button on the remote control to view the page.

### Reveal

Some Teletext pages contain hidden information (eg for a quiz), which can be revealed.

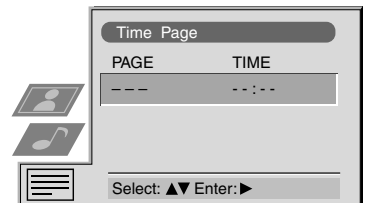
1. In text mode press the MENU button on the remote control to access the 'Teletext' menu.
2. Press ▲ or ▼ to highlight 'Reveal' and press ► to select. The hidden information is displayed on the screen.

### Time Page\*

\*depending on availability of service.

Time Page allows a time-coded Teletext page (such as an alarm page), to be displayed at a set time.

1. In Text mode press the MENU button on the remote control to access the 'Teletext' menu.
2. Press ▲ or ▼ to highlight 'Time Page' and press ► to select. The 'Time Page' sub menu is displayed.
3. Enter the desired page number using the numbered buttons on the remote control.
4. Enter the desired time using the remote control.
5. Press OK to confirm the settings. The TV will exit Teletext mode and the time will be displayed in the top left hand corner of the screen. At the requested time the desired page is displayed.



### Page Overview\*

\*only available if TOP-Text is transmitted by the TV station.

In this menu the TOP-Text pages are divided into two columns, the first column showing 'blocks' of pages and the second showing 'groups' of pages.



1. Press ◀ or ► to select the first or second column.
2. Press ▲ or ▼ to select the relevant 'group' or 'block' of pages.
3. Press the OK button to display the chosen pages.

# Using the TV menu system

The TV consists of a menu system which is based on a series of user friendly on-screen displays and menus. These displays will help you get the most from your TV, helping you to change picture and sound settings, to alter the size of the TV picture and to rearrange the TV channels etc.

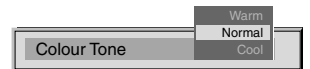
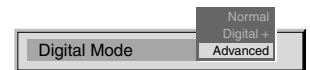
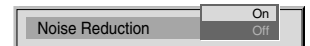
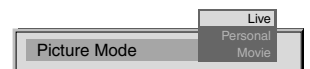
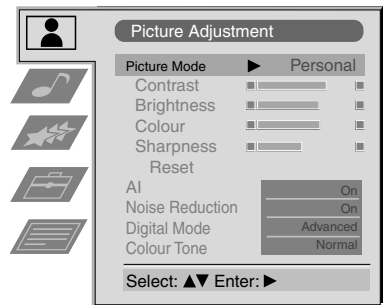
## Adjusting the picture and sound

The picture and sound are preset at the factory. You can however adjust them to suit your own taste.

1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the ▲ or ▼ buttons to select  for picture settings or  for sound settings then press ► to enter either the 'Picture Adjustment' menu or the 'Audio Adjustment' menu.
3. Press the ▲ or ▼ buttons to select the item on the screen you wish to adjust then press ► to confirm. For a description of the menu items and their effects, see the table below.
4. Press the ▲, ▼, ► or ◀ buttons to adjust your selected item.
5. As soon as you have adjusted the item, press the OK button to store the new setting.
6. Repeat steps 3-5 if you wish to adjust any of the other items.
7. Press the MENU button to remove the menu from the TV screen.

## Picture Control

Item	Effect/Operation
Picture Mode	▼ Live (for live broadcasts) Personal (for individual settings) ▲ Movie (for movie broadcasts)
Contrast	Less ◀▶ More
Brightness*	Darker ◀▶ Brighter
Colour*	Less ◀▶ More
Hue**	Reddish ◀▶ Greenish
Sharpness*	Softer ◀▶ Sharper
Reset	Resets picture to the factory preset levels
AI (Artificial Intelligence)	▼ On: Automatic optimization of contrast level according to the TV signal. ▲ Off: Normal.
Noise Reduction	▼ On: Reduces picture noise in case of a weak broadcasting signal. ▲ Off: No noise reduction.
Digital Mode	▼ Normal: Basic 100Hz picture quality. Digital +: Improved picture resolution for viewing scrolling characters. Advanced: Optimum picture resolution creating flicker-free pictures.
Colour Tone	▼ Warm: Gives a warm tint to the picture. Normal: Normal. ▲ Cool: Gives a cool tint to the picture.



\*Only available if 'Personal' is selected in 'Picture Mode'  
\*\*Only available for NTSC colour signal (eg. US video tapes)




Using the TV menu system:

## Sound Control


Item	Effect/Operation
Equaliser Mode	<ul style="list-style-type: none"> <li>▼ Personal</li> <li>Vocal</li> <li>Jazz</li> <li>Rock</li> <li>Pop</li> <li>▲ Flat (fixed setting, cannot be adjusted)</li> </ul>


**Equaliser adjustment** You can adjust the mode selected in Equaliser mode by cutting and boosting the 5 selected frequency bands. Press ◀ or ▶ to select the frequency band then ▼ or ▲ to adjust the frequency. Finally, press the OK button to store the new adjustment.


 If you want to store the new setting, you need to set the Equaliser mode to 'Personal'. Personal mode permanently stores the setting, all other modes (Vocal, Jazz, Rock, Pop) store only until the next mode change.

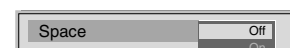
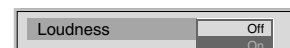
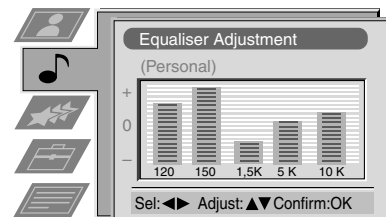
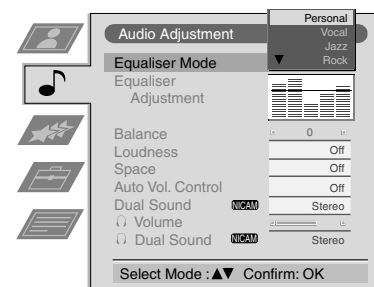
Balance	<ul style="list-style-type: none"> <li>◀ More left</li> <li>▶ More right</li> </ul>
Loudness	<ul style="list-style-type: none"> <li>▼ Off: Normal</li> <li>▲ On: For music broadcasts</li> </ul>
Space	<ul style="list-style-type: none"> <li>▼ Off: Normal</li> <li>▲ On: Special acoustic effect</li> </ul>
Auto Vol. Control	<ul style="list-style-type: none"> <li>▼ Off: Volume level changes according to the broadcast signal.</li> <li>▲ On: Volume level of the channels will stay the same independent of the broadcast signal (eg in the case of advertisements).</li> </ul>

Dual Sound	<p>For a bilingual broadcast:</p> <ul style="list-style-type: none"> <li>▼ A for channel 1</li> <li>▲ B for channel 2</li> </ul> <p>For a stereo broadcast:</p> <ul style="list-style-type: none"> <li>▼ Mono</li> <li>▲ Stereo</li> </ul>
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 When NICAM stereo is being broadcast, the indication NICAM appears briefly on the screen.


Headphones  Volume	<p>Adjusts headphone volume.</p> <p>Can also adjust the volume level of additional equipment connected to the RCA sockets on the rear of the TV.</p>
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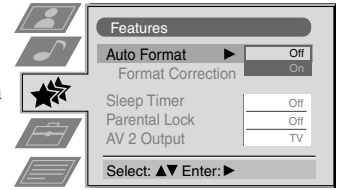
 Dual Sound	<p>For a bilingual broadcast:</p> <ul style="list-style-type: none"> <li>▼ A for channel 1</li> <li>▲ B for channel 2</li> </ul> <p>For a stereo broadcast:</p> <ul style="list-style-type: none"> <li>▼ Mono</li> <li>▲ Stereo</li> </ul>
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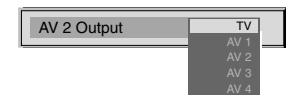
## Using the TV menu system:

### Using the Features menu

1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the ▲ or ▼ buttons to select  for the 'Features' menu then press ► to enter the 'Features' menu.
3. Press the ▲ or ▼ buttons to select the desired menu item then press ► to confirm. For a description of the menu items and their effects, see the table below.
4. Press the ▲, ▼, ► or ◀ buttons to select the desired setting.
5. Press the OK button to confirm your choice of setting.
6. Repeat steps 3-5 if you wish to select any of the other items.
7. Press the MENU button to remove the menu from the TV screen.




Item	Effect/Operation
Auto Format* *only for aerial signal	▼ Off: Size of picture does not automatically adjust. ▲ On: The TV will automatically adjust the picture size to eliminate any dark areas on the TV picture (as shown below):
Format Correction* (*only if Auto Format is set to 'On')	▼ Off: 4:3/14:9 is selected. ▲ On: Smart mode is selected automatically for 4:3/14:9 broadcasts.
Sleep Timer	You can select a time after which the TV switches itself into standby mode. ▼ Off ▲ 90 min
Parental Lock	▼ Off: No parental lock. ▲ On: This feature disables the buttons on the TV when the set is in standby mode. It is only possible to switch the set back on by pressing a button on the remote control.
AV2 Output	▼ TV audio/video signal from the aerial  . AV1 audio/video signal from scart 1. AV2 audio/video signal from scart 2. AV3 audio/video signal from scart 3. ▲ AV4 audio/video signal from connectors on front of the TV.



### Changing the screen size

This feature allows you to change the size of the TV picture.

Press the  button on the remote control repeatedly or use the ▲ or ▼ buttons to select one of the following formats then press the OK button to confirm your selection:

- Wide for 16:9 broadcasts.
- Zoom widescreen format for letterbox movies.
- 14:9 compromise between 4:3 and 16:9 picture size.
- 4:3 conventional 4:3 picture size, full picture information.
- Smart imitation of wide screen effect for 4:3 broadcasts.

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 screen (eg to read subtitles) then press the OK button to confirm.



Wide



Zoom



14:9



4:3



Smart

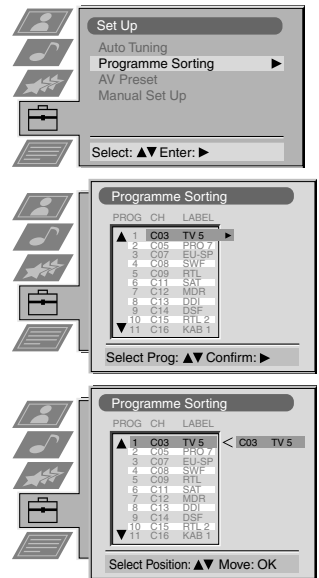
## Using the TV menu system:

### Re-arranging the TV channels



After tuning the TV, you can use this feature to change the order of the channels on the TV.

1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the ▼ button to select the symbol on the menu screen then press ► to enter the 'Set Up' menu.
3. Press the ▼ button to select 'Programme Sorting' then press ► to enter the 'Programme Sorting' menu.
4. Press the ▲ or ▼ buttons to select the channel you want to move then press ► to confirm.
5. Press the ▲ or ▼ buttons to select the new programme position (eg PROG 4) for your selected channel then press the OK button to confirm. The selected channel now moves to its new programme position and the other channels move accordingly.
6. Repeat steps 4 and 5 if you wish to sort the other channels.
7. Press the MENU button to remove the menu from the TV screen.

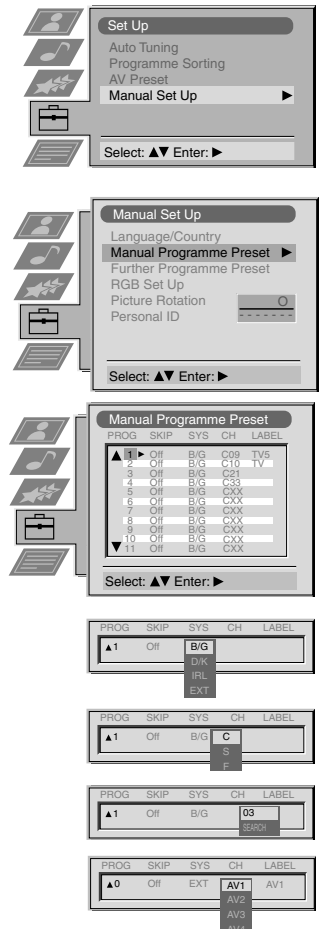


### Manually tuning the TV




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


1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the ▼ button to select the symbol on the menu screen then press ► to enter the 'Set Up' menu.
3. Press the ▼ button to select 'Manual Set Up' on the menu screen then press ► to enter the 'Manual Set Up' menu.
4. Press the ▼ button to select 'Manual Programme Preset' on the menu screen then press ► to enter the 'Manual Programme Preset' menu.
5. Press the ▲ or ▼ buttons to select a programme number for your channel (eg PROGR 1 for BBC1) then press ► to highlight the 'SKIP' column.
6. Press ▲ to select 'OFF' then press ► to highlight the 'SYS' column.
7. Press the ▲ or ▼ buttons to select the TV broadcast system or 'EXT' for a video input source (AV1, AV2, ...) then press ► to confirm.
8. Press the ▲ or ▼ buttons to select 'C' for terrestrial channels, 'S' for cable channels, or 'F' for direct frequency inputs then press ► to confirm.
9. Select the first number digit of 'CH' (channel) then the second number digit of 'CH' with the number buttons on the remote control or Press the ▼ button to search for the next available channel.
10. If you do not wish to store this channel on the programme number you selected, press the ▲ or ▼ buttons to continue searching for the desired channel.
11. If this is the channel you wish to store, press the OK button.
12. Repeat steps 5-11 if you wish to store more channels then press the MENU button to remove the menu from the TV screen.

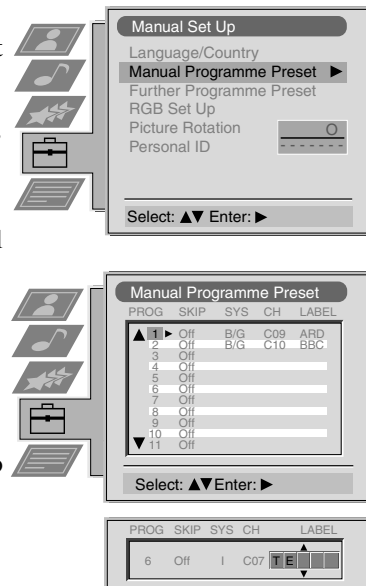


## Using the TV menu system:


### Naming a channel


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

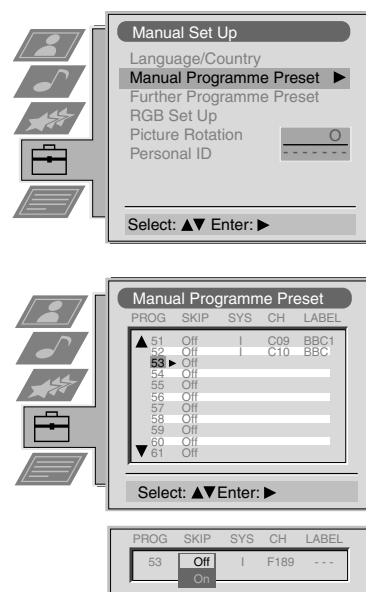
1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the ▼ button to select the  symbol on the menu screen then press ► to enter the 'Set Up' menu.
3. Press the ▼ button to select 'Manual Set Up' then press ► to enter the 'Manual Set Up' menu.
4. Press the ▼ button to select 'Manual Programme Preset' then press ► to enter the 'Manual Programme Preset' menu.
5. Press the ▲ or ▼ buttons to select the channel you wish to name.
6. Press the ► button repeatedly until the first element of the 'LABEL' column is highlighted.
7. Press the ▲ or ▼ buttons to select a letter or number (select '-' for a blank) then press ► to confirm. Select the other four characters in the same way.
8. After selecting all the characters, press the OK button.
9. Repeat steps 5 to 8 if you wish to label other channels.
10. Press the MENU button to remove the menu from the TV screen.



### Skipping programme positions

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

1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the ▼ button to select the  symbol on the menu screen then press ► to enter the 'Set Up' menu.
3. Press the ▼ button to select 'Manual Set Up' then press ► to enter the 'Manual Set Up' menu.
4. Press the ▼ button to select 'Manual Programme Preset' then press ► to enter the 'Manual Programme Preset' menu.
5. Press the ▲ or ▼ buttons to select the programme position then press ► to highlight the 'SKIP' column.
6. Press the ▲ or ▼ buttons to select 'Off' or 'On' (if you wish to skip this programme position) then press the OK button to store.
7. Repeat steps 5 and 6 if you wish to skip or unskip further programme positions.
8. Press the MENU button to remove the menu from the TV screen.




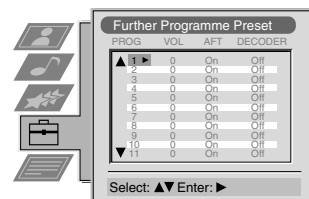
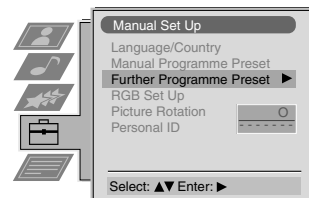
## Using the TV menu system:

### Using the Further Programme Preset feature



With this feature you can a) individually adjust the volume level of each channel, b) manually fine-tune the TV to obtain a better picture reception if the picture is distorted or c) preset the AV output for the programme positions of channels with scrambled signals (eg from a pay TV decoder). In this way a connected VCR records the unscrambled signal.

1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the ▼ button to select the  symbol on the menu screen then press ► to enter the 'Set Up' menu
3. Press the ▼ button to select 'Manual Set Up' then press ► to enter the 'Manual Set Up' menu.
4. Press the ▼ button to select 'Further Programme Preset' then press ► to enter the 'Further Programme Preset' menu.
5. Press the ▲ or ▼ buttons to select the relevant programme number then press the ► button repeatedly to select a) VOL b) AFT or c) DECODER. The selected item changes colour.
6. a) **VOL - Volume Offset**  
Press the ▲ or ▼ buttons to adjust the volume level (range -7 to +7) of the channel. Store by pressing the OK button. Repeat steps 5 and 6a if you wish to adjust the volume level of the other channels.  
  
b) **AFT - Automatic Fine Tuning**  
Press the ▲ or ▼ buttons to fine tune the channel frequency over a range of -15 to +15. Press the OK button to confirm. Repeat steps 5 and 6b if you wish to fine tune other channels.  
  
c) **DECODER**  
Press the ▲ or ▼ buttons to select AV1 or AV2 for the programme position then press the OK button to confirm. You can now attach a decoder to the AV1 or the AV2 socket on the back of the TV and the picture from that decoder will appear on this programme position. Repeat steps 5 and 6c to preset the AV output for other programme positions.
7. Press the MENU button to remove the menu from the TV screen.




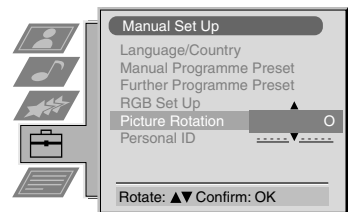
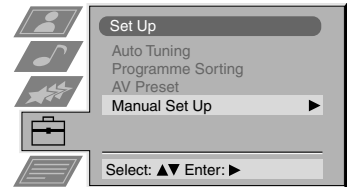
## Using the TV menu system:

### Adjusting the picture rotation



Because of the earth's magnetism the picture might slant. In this case you can readjust the picture.




1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the ▼ button to select the  symbol on the menu screen then press ► to enter the 'Set Up' menu.
3. Press the ▼ button to select 'Manual Set Up' then press ► to enter the 'Manual Set Up' menu.
4. Press the ▼ button to select 'Picture Rotation' then press ► to enter the 'Picture Rotation' sub menu.
5. Press the ▲ or ▼ buttons to rotate the picture over a range of -5 to +5 then press the OK button to store.
6. Press the MENU button to remove the menu from the TV screen.

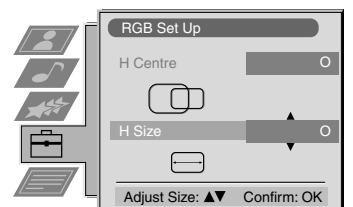
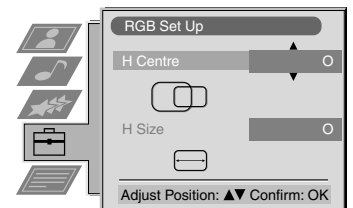


### Adjusting the picture geometry for an RGB source



When connecting an RGB source such as a Sony Playstation you may need to readjust the geometry of the picture.

1. Press the  button on the remote control to select the connected RGB source 1.
2. Press the MENU button to display the menu on the TV screen.
3. Press the ▼ button to select the  symbol on the menu screen then press ► to enter the 'Set Up' menu.
4. Press the ▼ button to select 'Manual Set Up' on the menu screen then press ► to enter the 'Manual Set Up' menu.
5. Press the ▼ button to select 'RGB Set Up' on the menu screen then press ► to enter the 'RGB Set Up' sub menu.
6. Press ► to select H Centre then press ▲ or ▼ to adjust the centre of the picture over a range of -10 to +10. Store the new range by pressing the OK button.
7. Press ► to select H Size then press ▲ or ▼ to adjust the horizontal coordinates over a range of -10 to +10. Store the new range by pressing the OK button.
8. Press the MENU button to remove the menu from the TV screen.




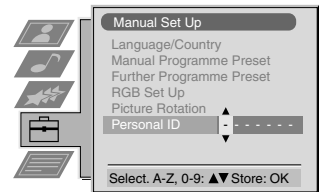
## Using the TV menu system:

### Inputting your personal ID



With this feature, you can allocate a safety code to your TV which will enable you to be traced if the TV is stolen and recovered. The safety code however can only be entered once - please make a note of it!


1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the ▼ button to select the  symbol on the menu screen then press ► to enter the 'Set Up' menu.
3. Press the ▼ button to select 'Manual Set Up' on the menu screen then press ► to enter the 'Manual Set Up' menu.
4. Press the ▼ button to select 'Personal ID' on the menu screen then press ► to enter the 'Personal ID' sub menu.
5. Press the ▲ or ▼ buttons to select the first of a total of 11 characters (letter, number + or a blank) then press ► to go to the next character.
6. Repeat step 5 to input all the characters for the code.
7. Press the OK button to store. A status box appears on screen requesting you to re-enter your code.
8. Press the OK button to store the code or press ◀ to cancel.
9. Press the MENU button to remove the menu from the TV screen.

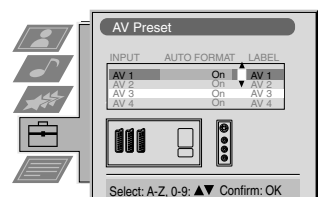
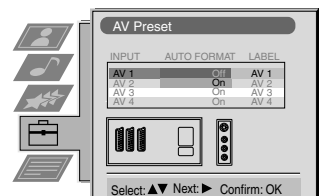
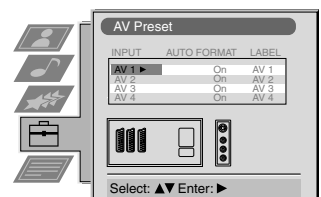


### Presetting and naming input signals



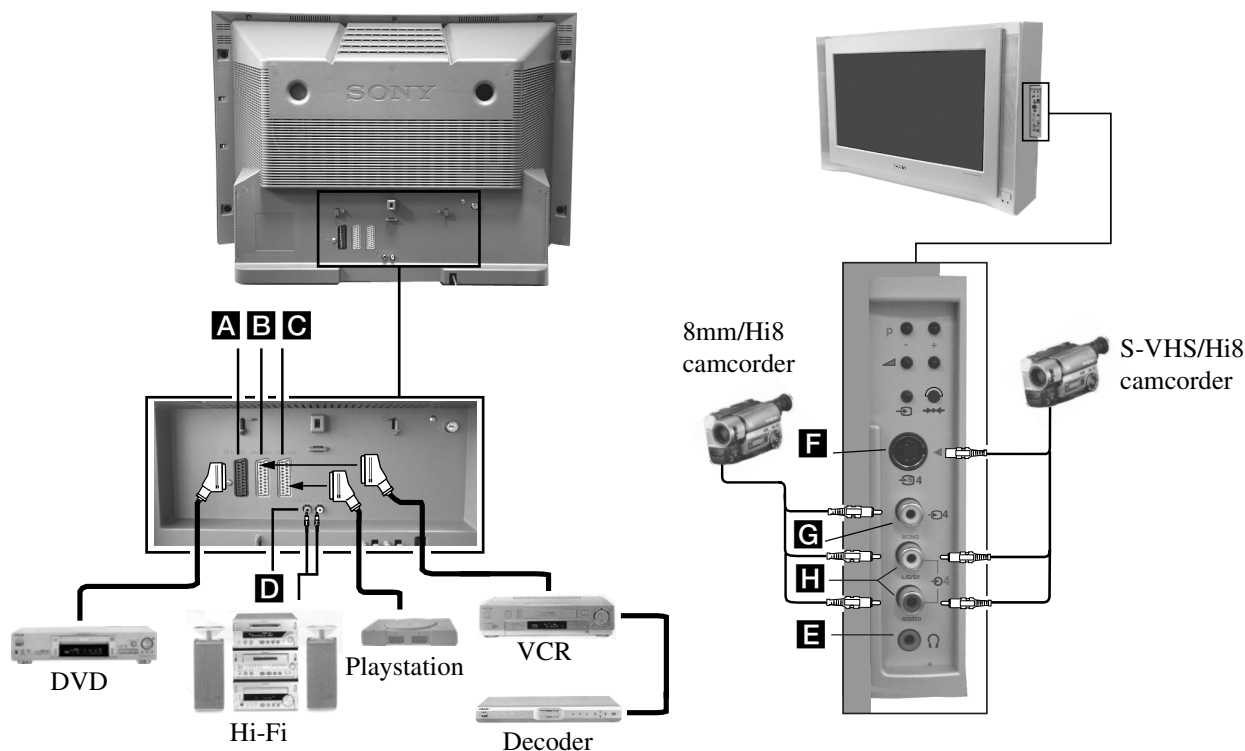
Using this feature you can label input sources.

1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the ▼ button to select the  symbol on the menu screen then press ► to enter the 'Set Up' menu.
3. Press the ▼ button to select 'AV Preset' on the menu screen then press ► to enter the 'AV Preset' menu.
4. Press the ▲ or ▼ buttons to select the desired AV input (AV1, 2, 3 or 4)..
5. Press the ► button to select 'AUTO FORMAT' then press the ▲ or ▼ buttons to select 'Off', 'Normal' or 'Full'.
6. Press the ► button to select 'LABEL'.
7. Press the ▲ or ▼ buttons to select the first character of the name then press the ► button to move to the next character.
8. Repeat step 7 to select the other 4 characters then store by pressing the OK button.
9. Repeat steps 4-8 for the other AV input sources then press the MENU button to remove the menu from the TV screen.



# Connecting additional equipment to the TV

Using the illustrations below, you can connect a wide range of audio and video equipment to your TV.



To view the input signals of connected equipment, please follow the instructions below.

1. Using the illustrations above, connect your equipment to the appropriate TV socket.
2. Press the button repeatedly on the remote control until the correct input symbol for your equipment appears on the TV screen (see table below):

Symbol on the TV screen	Input signals from connector
	• Audio/video input signal through scart connector <b>A</b> or* RGB through scart connector <b>A</b>
	• Audio/video input signal through scart connector <b>B</b> or* S-video through scart connector <b>B</b>
	• Audio/video input signal through scart connector <b>C</b> or* S-video through scart connector <b>C</b>
	• S-video input signal through the 4-pin DIN connector <b>F</b> or* video input signal through phono jack <b>G</b> and audio input signal through phono jacks <b>H</b>

\* automatic detection of the signal according to the connected equipment

3. Switch on the connected equipment. The picture from this equipment (if any are available) will appear on the TV screen.
4. Press to return to the normal TV screen.

Note: To avoid picture distortion, do not connect equipment to the **F** and **G** sockets at the same time

## Connecting Headphones

Plug in your headphones to the socket **E** on the front of the TV set.



## Connecting Hi-fi Equipment

Plug in your external audio equipment to the output sockets **D** on the rear of the TV set.



## Additional Information

# Additional information when connecting equipment

- \* If the picture or sound is distorted, move the VCR away from the TV set.
- \* When connecting a monaural VCR, connect only the white jack to both the TV set and the VCR.
- \* For information on how to select the output signal of the scart 2 2 / 2, see page 16.
- \* When connecting external hi-fi equipment, you can adjust the volume level by adjusting the headphones setting in the sound menu - please refer to the 'Adjusting the picture and sound' section of this manual.

## Smartlink

Smartlink is a direct link between your TV and VCR.

For Smartlink you need:

- \* A VCR which supports Smartlink, NexTView Link, Easy Link or Megalogic.
- \* A fully-wired 21-pin scart cable to connect your VCR to scart 2 2 / 2 connector.

The features of Smartlink are:

- \* Tuning information such as the channel overview are downloaded from the TV set to the VCR.
- \* With NexTView you can programme your VCR easily.
- \* Direct TV recording: while watching TV you need to press just one button on the VCR to record this programme.

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

## Specifications

### TV system

I

### Colour system

PAL,  
SECAM, NTSC 3.58, 4.43 (only Video In)

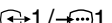

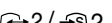

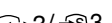


### Channel coverage

B21...B69

### Picture tube





KV-28FX65: FD Trinitron WIDE, Approx. 71cm (28 inches)  
KV-32FX65: FD Trinitron WIDE, Approx. 82cm (32 inches)

### Rear Terminals

- 1 / 1 21-pin Euro connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output.
- 2 / 2 21-pin Euro connector (CENELEC standard) including audio/video input, S-video input, Selectable audio/video output.
- 3 / 3 21-pin Euro connector (CENELEC standard) including audio/video input, S-video input, Monitor audio/video output.
-  L/G/S/I  
R/D/D/D RCA connectors, variable output for audio signals.

 RF In

### Front Terminals

- 4 Video input -phono jacks
- 4 Audio inputs - phono jacks
- 4 S video input - 4 pin DIN
-  Headphones jack - minijack stereo

### Sound output

Left/Right: 2x20W (Music Power)  
2x10W (RMS)  
Sub woofer: 30W (Music Power)  
15W (RMS)

### Power consumption

KV-28FX65: 170W  
KV-32FX65: 122W

### Dimensions (wxhxd)

KV-28FX65: Approx. 796x518x522mm  
KV-32FX65: Approx. 883x567x562mm

### Weight

KV-28FX65: Approx. 48kg  
KV-32FX65: Approx. 64kg

### Accessories supplied

RM-887 remote control (1)  
IEC designated size AA batteries (2)

### Optional accessory

TV Stand:  
KV-28FX65: SU-28FX2  
KV-32FX65: SU-32FX2









### Other features

Flat display Trinitron tube, noise reduction, graphic equaliser, 2000 page TEXT memory, personal ID, sleep timer, NexTView.

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

# Troubleshooting

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

Problem	Suggested remedy
No picture (screen is dark), no sound.	<ul style="list-style-type: none"> <li>• Plug the TV in.</li> <li>• Press the  button on the front of the TV.</li> <li>• If the  indicator is on press the  button or a numbered button on the remote control.</li> <li>• Check the aerial connection.</li> <li>• Turn the TV off for 3 or 4 seconds and then turn it on again using the  button on the front of the TV.</li> </ul>
Poor or no picture (screen is dark), but good sound.	<ul style="list-style-type: none"> <li>• Using the MENU system, select the Picture Adjustment display. Adjust the brightness, picture and colour balance levels.</li> <li>• From the Picture Adjustment display select RESET to return to the factory settings.</li> </ul>
Good picture, no sound.	<ul style="list-style-type: none"> <li>• Press the  button on the remote control.</li> <li>• If  is displayed on the screen, press the  button on the remote control.</li> </ul>
No colour on colour programmes.	<ul style="list-style-type: none"> <li>• Using the MENU system, select the Picture Adjustment display and adjust the colour setting.</li> <li>• From the Picture Adjustment display select RESET to return to the factory settings.</li> </ul>
Distorted picture when changing programmes or selecting Teletext.	<ul style="list-style-type: none"> <li>• Turn off any equipment connected to the scart connectors on the rear of the TV.</li> </ul>
Remote control does not function.	<ul style="list-style-type: none"> <li>• Replace the batteries.</li> </ul>
The standby indicator  on the TV flashes.	<ul style="list-style-type: none"> <li>• Contact your nearest Sony service centre.</li> </ul>
Interference on picture from external equipment.	<ul style="list-style-type: none"> <li>• Reduce sharpness level.</li> </ul>

- **If you continue to have these problems, have your TV serviced by qualified personnel.**
- **NEVER open the casing yourself.**



