

**SONY**<sup>®</sup>

4-206-399-13



# ***Trinitron Digital TV***

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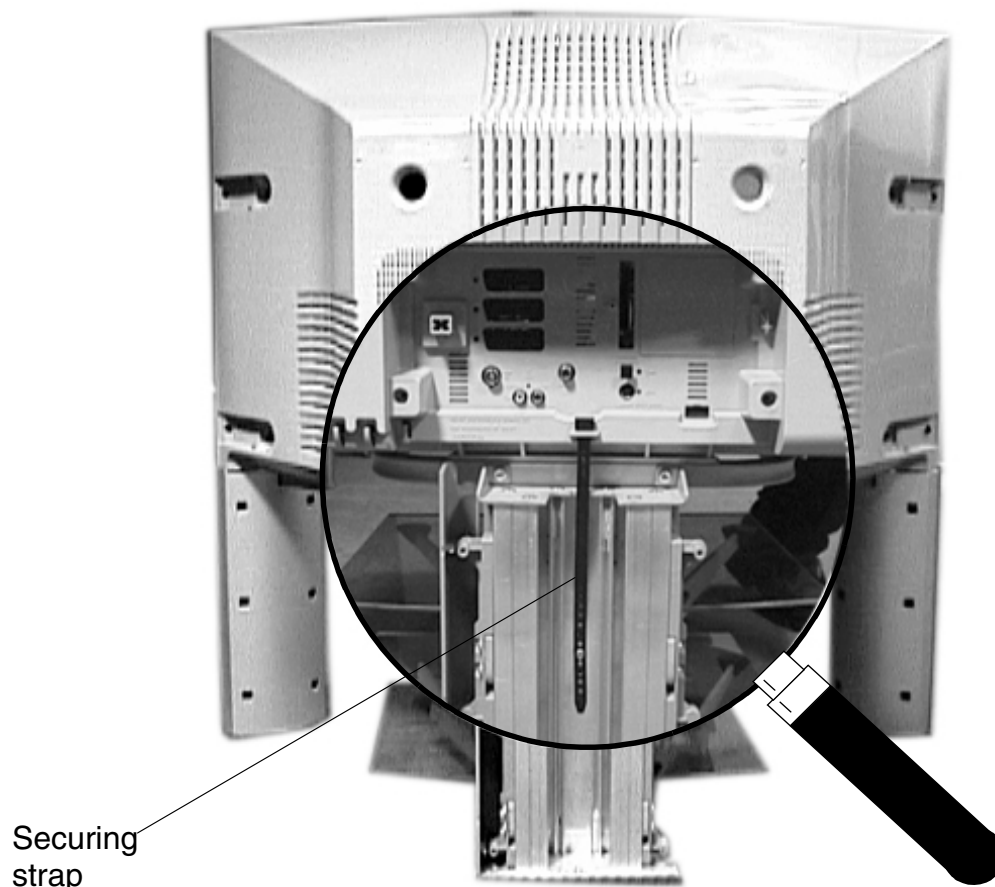
Bedienungsanleitung

**DE**

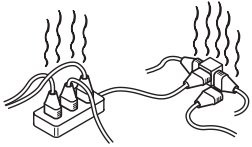
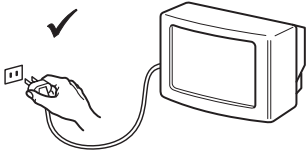
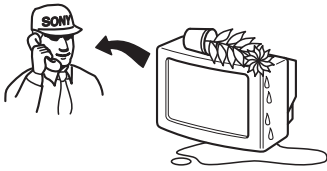

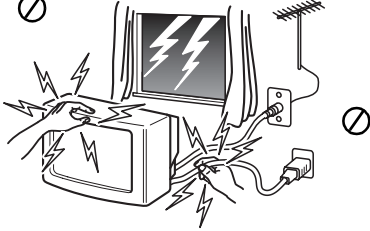
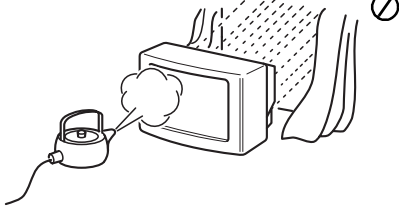
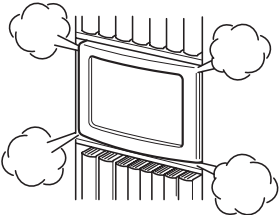
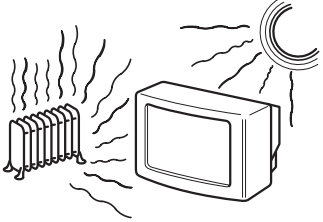
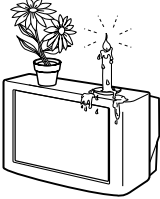
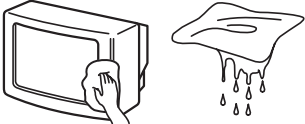
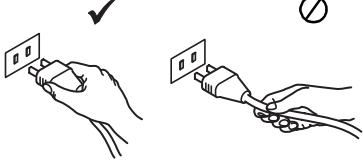
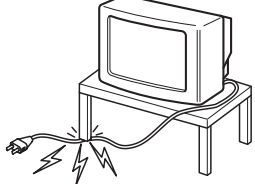


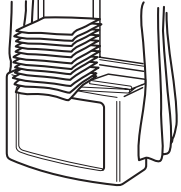
***KD-32NS100B***

If you wish to move the TV after it has been connected to the stand assembly, please observe the following precautions:

- **Never** attempt to lift the TV and the stand together.
- Before lifting the TV from the stand, you must disconnect the securing strap on the rear of the TV (see illustration below). To gain access to the strap, remove the door that conceals the rear sockets of the TV (if you have already added it), then remove the cover from the rear column of the stand.
- Take care not to trap your fingers under the TV when placing the TV onto a flat surface.





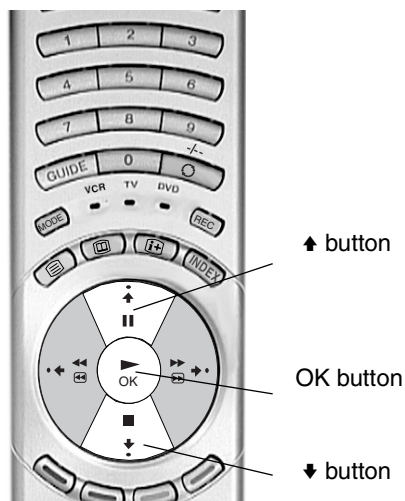
 <p>This set is to operate on a 220-240V AC supply only. Take care not to connect too many appliances to the same power socket as this could result in fire or electric shock.</p>	 <p>For environmental and safety reasons, it is recommended that the TV set is not left in standby mode when not in use. Disconnect 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 flames (e.g. candles) away from the TV.</p>
 <p>Clean the TV with a soft, lightly dampened cloth. Do not use benzene, thinner or any other chemicals to clean the TV. Do not scratch the TV screen. As a safety precaution, unplug the TV before cleaning it.</p>	 <p>Pull out the power lead by the plug. Do not pull on the power lead itself.</p>	 <p>Take care not to place heavy objects on the power lead as this could result in damage. We recommend you wind any excess lead around the holders provided on the rear of the TV.</p>
 <p>Place the TV on a secure stable stand. Do not allow children to climb on to it. Do not place the TV on its side or face up.</p>	 <p>Unplug the power lead before moving the TV. Avoid uneven surfaces, quick steps or excessive force. If the set has been dropped or damaged, have it checked immediately by qualified service personnel.</p>	 <p>Do not cover the ventilation openings of the TV with items such as curtains or newspapers etc.</p>



## Thank you for choosing this Sony television.

Please take time to read this instruction manual as it will help you to understand all the features available to you.

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## Using the menu system of this TV

All the menus of this TV are activated by the remote control handset. The **▲**, **▼**, **◀**, **▶** and **OK** buttons of the remote control are used to navigate around the menus and to store any settings you make or change.

Throughout the pages of this manual you will notice drawings of the remote control handset with certain buttons highlighted white. This indicates the buttons you will need to press when following the instructions. In the example shown the **▲**, **▼** and **OK** buttons are the buttons to be pressed.

## Follow steps 1 - 6 to install your TV and view the TV programmes

### 1. Checking the accessories supplied



Remote control



Batteries



Modem

**Note:** Please contact your local approved satellite installer for information regarding satellite and telephone connection.

### 2. Inserting batteries into the remote control handset



**1**  
Place a coin in the slot provided at the bottom of the remote control and turn anti clockwise to release battery compartment.



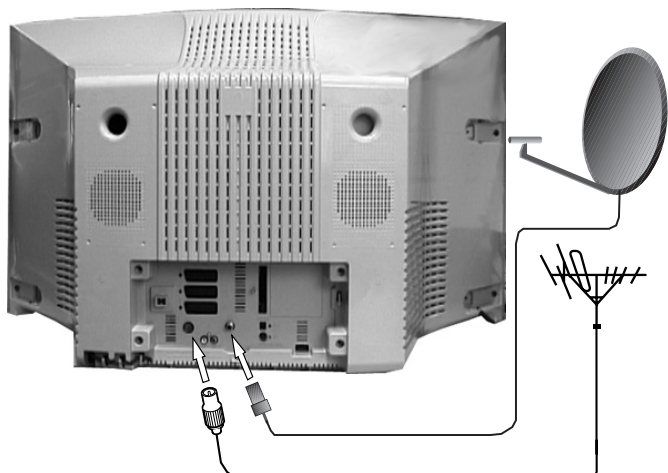
**2**  
Insert batteries as indicated in battery compartment.





**3**  
Replace battery compartment and lock in place by twisting coin clockwise in slot.

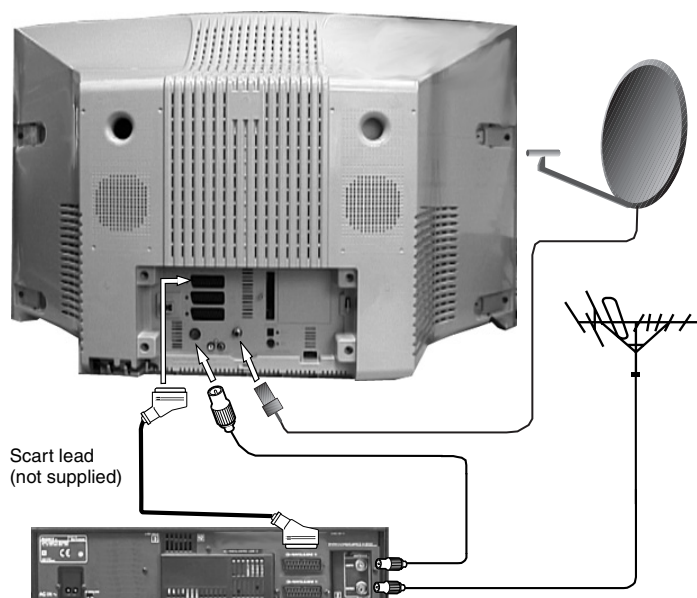
Always remember to dispose of batteries in an environmentally friendly way



### 3. Connecting your aerial and satellite



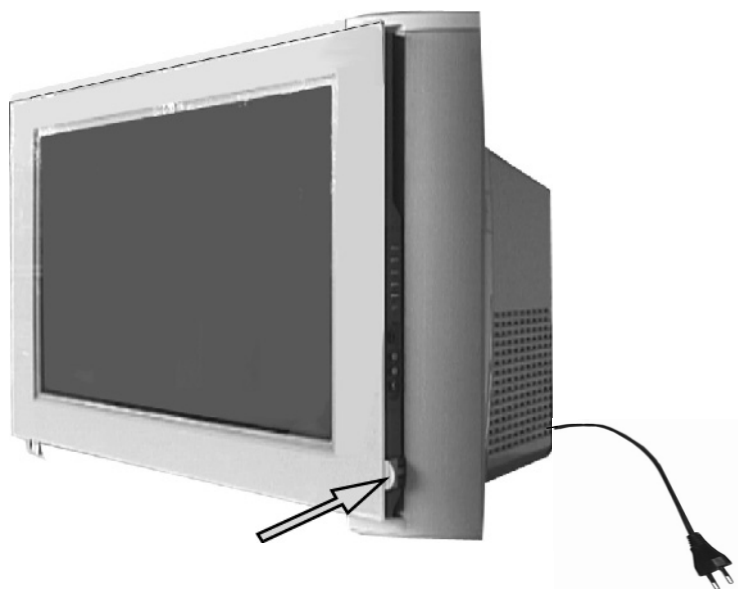
1. Connect your existing aerial to the socket marked  on the rear of the TV as shown.
2. Connect your satellite dish to the F-type socket marked .

### Connecting a VCR to the TV




1. Connect your satellite dish to the F-type socket marked  on the rear of the TV as shown.
2. Connect your existing aerial to the RF IN socket on your VCR.
3. Connect a lead from the RF output of your VCR to the analogue socket marked  then connect a scart lead as shown.
4. Connect the VCR to the mains socket and switch on.
5. Insert a pre-recorded tape into the VCR and press the 'PLAY' button. This enables the TV to locate and store the video channel during the 'Automatically tuning the TV' procedure.

### 4. Switching on the TV



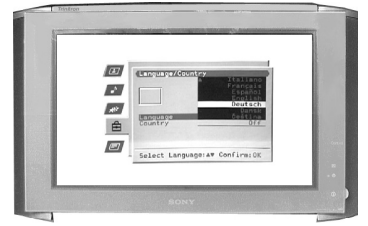
1. Connect the TV plug to your mains socket (220 - 240 V AC, 50 Hz).
2. Press the on/off switch in a forward direction to switch on the TV.

**Note:** If the red indicator on the front of the TV is lit the TV is in standby mode. Press the TV  button on the remote control to switch on the TV. Please be patient as the picture may take a few moments to appear on screen.

## 5. Automatically tuning the TV



1. When you switch on this TV for the first time, the Language/Country menu appears on screen with the word 'English' highlighted. Press the  $\blacktriangle$  or  $\blacktriangledown$  buttons on the remote control to choose the language you require then press the OK button to confirm.

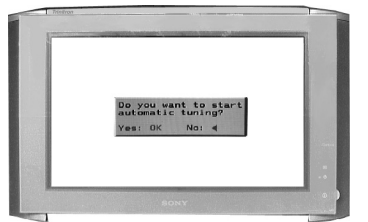


2. The word Country is now highlighted. Press the  $\blacktriangle$  or  $\blacktriangledown$  buttons to choose the country in which you wish to operate the TV, then press the OK button to confirm.

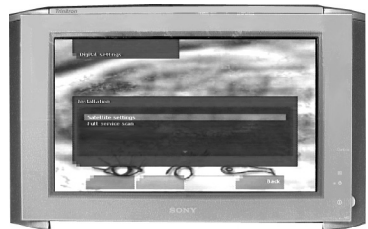


Note: The digital features of this set are designed for use in Germany only.

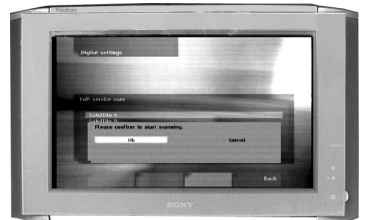
3. The autotune prompt screen appears. Press the OK button to select Yes.



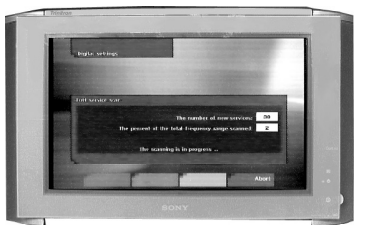
4. The Main Menu is now displayed. Press the  $\blacktriangledown$  button to highlight 'Quick tuning' or 'Full tuning', then press the OK button twice.



5. A display appears asking you to press OK to begin scanning.



Whilst scanning is taking place a progress menu is displayed showing the number of services stored and the percentage of scanning completed. The full scan will take some time so please be patient. When the scanning percentage reaches 100%, the on-screen message 'Auto tuning successfully completed' is displayed.



**Note:** During all subsequent scans, only new channels will be added to the original scan.



6. Press the BLUE button repeatedly to remove all digital menus from the TV screen.

The analogue tuning display appears automatically and the TV begins to search for analogue signals.

Once all signals have been captured and stored, the TV returns to normal operation and displays the digital programme captured on programme number 1.

7. If no signals are captured, a menu appears asking you to confirm your aerial is connected. Check your aerials are connected, then press OK to start the search procedure again.

**Note:** If no digital signals were captured, then the analogue programme stored on programme number 1 is displayed.

8. To view programmes, press the PROG+/- buttons or the numbered buttons on the remote control.



## Switching between digital and analogue programmes

To check if you are watching a digital or an analogue programme press the **INFO** button on the remote control. If you are watching a digital programme an Info display appears on screen providing brief details for both the current and next programme. To change to analogue programmes press the DIGITAL/ **□** button.

When you wish to return to digital programmes press the DIGITAL/ **□** button once more.

## 6. Finding your video channel



If you connected a VCR to your TV when following the 'Connecting your aerial and satellite instructions', you now need to find your video channel.

1. First ensure the TV is in analogue mode. If not press the DIGITAL/ **□** button on the remote control.
2. Press the PROG+/- button until the picture from your pre-recorded tape appears on screen.

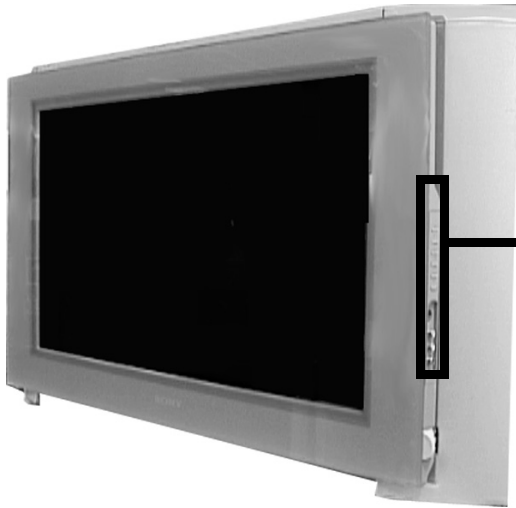
**Note:** If you wish to move your video channel to a different programme number, refer to the 'Re-arranging your channels' section of this manual.

If you have connected your VCR using a scart lead, press the **SCART** button repeatedly on the remote control until the picture from the tape appears on the TV screen.



## Overview of the TV buttons

The control buttons can be found on the right side of the TV. An expanded view is shown below.



**Programme Up or Down buttons**  
Press to move to the next or preceding channel.

**Volume control buttons**  
Press to increase or decrease the volume.

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

**Reset button**  
Press to return picture and sound levels to their factory settings.

## Overview of the remote control buttons

### Mute button

Press to mute the sound. Press again to restore.

### DIGITAL/ button

Press to switch between digital or analogue mode.

### Screen format button

Press repeatedly to change the screen format.

### Buttons 0-9

Press to input the required channel number. For numbers 10 and above, enter the next digit within 2 seconds.

### GUIDE button

Occasionally the broadcaster transmits information such as a TV Guide which can be displayed on screen. You will be asked to press the GUIDE button when this happens.

### MODE button

This remote operates not only Sony DVDs and VCRs, but also those made by other manufacturers. Press this button to select the type of equipment you want to control. A green light appears momentarily to indicate the mode selected.

**Note:** Before operating your VCR or DVD, you must enter the correct configuration code. Please refer to the section 'Remote Control Configuration for VCR/ DVD'.

### Text button

Press to enter text mode.

### EPG button

Press to display the Electronic Programme Guide when in Digital mode.

### Control pad

Use these buttons to navigate through the menu system of the TV.

**Note:** When the MODE button has been set to VCR or DVD, the control pad operates the main functions of your VCR or DVD.

### Coloured buttons

These buttons are used for text and Digital menus. Refer to the relevant sections in this instruction manual.



### VIDEO button

Press to switch off your VCR or DVD temporarily. Press again to return to normal operation.

### TV button

Press to switch off your TV temporarily. The Red indicator on the front of the TV will illuminate. Press again to return to normal operation.

### Input button /Hold button

Press to select signals from equipment connected to the TV sockets (refer to 'Connecting optional equipment to the TV'). In Text mode press to keep a page on display. Press again to cancel.

### Previous channel button

Press to return to the previous channel you were watching (providing you watched it for at least 5 seconds).

**Note:** If the MODE button is set to VCR, use this button to select double digit numbers on your VCR, e.g. press this button, then press 2 and 3 for 23.

### REC button

When the MODE button is set to VCR, press this button to place your VCR in record mode.

### Info button

Press to display the INFO menu in Digital mode. When watching analogue programmes press to reveal information such as programme number. When in text mode, press to reveal hidden information such as answers on quiz pages. Press once more to clear hidden information.

### INDEX button

Occasionally the broadcaster transmits information which can be displayed on screen. You will be asked to press the INDEX button when this happens.

### PROG +/- button

Press to select the next or previous programme. In Text mode, press to select the next page or the previous page.

### Volume + and - button

Press to adjust the volume to the desired level.






### MENU button

Press to enter the menu system of this TV.




## Viewing a Digital text service

Most digital TV channels broadcast information via their text service. This digital service includes high quality text and graphics along with advanced navigation options. Additionally, this TV has access to dedicated text channels transmitted by the broadcasting authorities.

The appearance, content and navigation methods of all Digital text services are decided by the broadcaster. For example, the RTL Digital text service may look different to ZDF's Digital text. Most of the Digital text services currently available use simple navigation methods based on the following buttons:

- The text button  to load up the Digital text,
- The , ,  and  buttons (to move around the screen),
- The OK button or the numbered buttons (to select items on screen),
- The four coloured buttons (to access shortcuts).


### Selecting a dedicated Digital text channel

1. Press the  button on the remote control to check if you are in digital mode. If you are watching a digital programme an Info display appears on screen providing brief details for the current and next programme. If the display does not appear, press the DIGITAL/  button to switch to digital mode.
2. Press the  button to remove the Info display from the TV screen then select the programme number that is broadcasting the dedicated Digital text channel by using the numbered buttons on the remote control. If you do not know the channel number of a dedicated Digital text channel, you can use the 'Channel Index menu' to find one. (Please refer to the 'Channel index menu' section of this manual.)












3. Once the text page is displayed, follow the on-screen instructions to obtain your required selection.

Note: On some pages the TV programme may also be displayed on the text screen. On-screen instructions will inform you how to change the displayed programme.

4. If you are instructed to press 'OK' or 'Select' when viewing the text pages, press the OK button.
5. When you have finished viewing the text service, press the  button to exit.

### Selecting a text service from other Digital channels

Normal text services may also be available on other digital channels. This is sometimes indicated by a small symbol on your TV screen, superimposed on the programme 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 instructed to use the numbered or coloured buttons on your remote control to display the various pages of text information. If you are instructed to press 'OK' or 'Select' when viewing the text pages, press the OK button.
3. Once the text information is displayed, you can access required information by using the , ,  or  buttons, the coloured buttons and/or the numbered buttons of the remote control.
4. When you have finished viewing the text service, press the  button to exit.






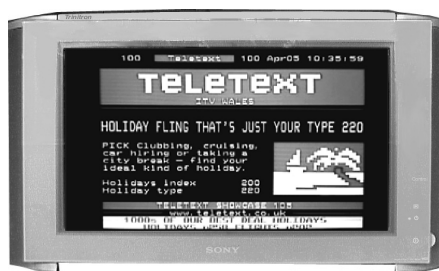



## Viewing a traditional text service

Most analogue TV channels broadcast a text service. The index page (usually page 100) provides information on how to use the service. Please ensure you are receiving a strong signal or some text errors may occur.

### Switching on the text service











1. Press the  button on the remote control to check if you are in analogue mode. If you are watching a digital programme an Info display appears on screen providing brief details for the current and next programme. To change to analogue programmes press the DIGITAL/  button.
2. Select the TV programme which carries the text service you wish to view.
3. Press the  button to enter the text mode.
4. Press the numbered buttons to enter a three digit number for the text page you wish to view. Your selected page appears on screen.



5. Enter more 3 digit page numbers as requested.
6. When you have finished viewing the text service, press the DIGITAL/  button to remove the text display from the screen.




### How to use Text features

Text Features	How to select
To select the next or preceding page	Press the  or  button.
To select a sub page	A Text page can consist of several sub pages. In this case an information box is displayed at the bottom of the screen showing the number of sub pages available. Select the sub pages by pressing the  or  button.
To keep a page on display	Press the  button. Press again to cancel.
To use mix mode	When in Text mode press the  button. The Text page is superimposed onto the picture. Press the  button again to return to TV mode. <b>Note:</b> When a sub page is being viewed, the  button needs to be pressed twice to obtain the mix mode.
To use Fastext	Fastext allows you to access pages with one button push. When Fastext is available, four coloured items appear at the bottom of the screen. Press the corresponding button on the remote control to display the page.
To use the Page Catching feature	Select a page that contains several page numbers (e.g. the index page), then press the OK button. Press the  or  button to highlight the page number required, then press the OK button again. Your selected page appears on screen.




## Teletext

### Using the text menu










You can access more features by using the Text menu:

1. Press the  button on your remote control to enter Text mode.
2. With the Text display on screen, press the MENU button to display the 'Text' menu.




3. Press the  or  button to highlight your desired feature, then press the  button to select.
4. Press the MENU button to remove the Text menu from the screen.

The following table explains each feature and its function.

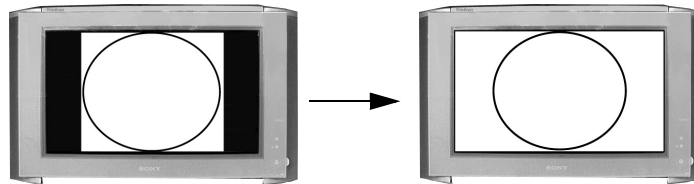
Feature	Function
Top/Bottom/Full	This feature allows you to enlarge sections of the displayed page. Press the  button to enlarge upper half of the page or  to enlarge the bottom half. Press the OK button to return page to normal size. Press  button to return to the Text menu.
Text Clear	Use this feature to view the TV programme whilst Text is searching for a page. Once the page has been found, a blue  symbol appears in the top left corner of the screen. Press the  button to view the page.
Reveal	Select this to reveal hidden information on the page (such as answers to a quiz).
Time Page	This feature allows a time-coded Text page (such as an alarm page), to be displayed at a set time. When selected, the 'Time Page' sub menu is displayed. Enter the desired page number and the time you want the page to appear using the remote control buttons 0 - 9, then press OK button to confirm the settings. The TV then exits Text mode and the time is displayed in the top left corner of the screen. Note: This function is dependant on the broadcasters transmission.
Page Overview (Only for TOPText broadcasts)	TOP-Text pages are divided into two columns. The first column shows 'blocks' of pages and the second shows 'groups' of pages. Press  or  button to select the desired column, then press  or  button to select the relevant 'group' or 'block' of pages. Press the OK button to display the chosen pages.

## Changing the screen format manually

You can change the screen format manually to suit the broadcast you are watching. By pressing the  button on the remote control you can choose from the 5 formats listed below.

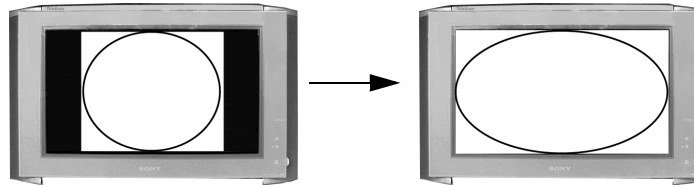


**Wide-**



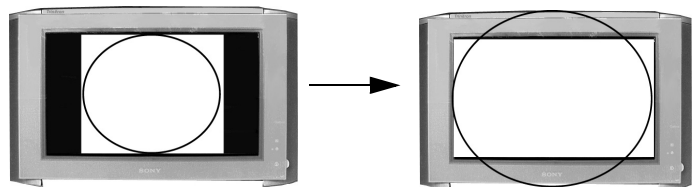
For 16:9 broadcasts.

**Zoom-**



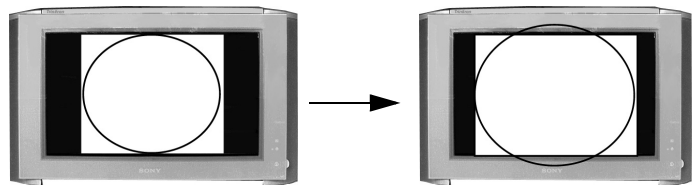
For 4:3 broadcasts.

**14:9-**



Imitation of wide screen effect for movies broadcast in cinemascope (letter box) format.

**4:3-**





Compromise between the 4:3 and 16:9 format.

**Smart-**



Conventional screen format.

Imitation of wide screen effect for 4:3 broadcasts.

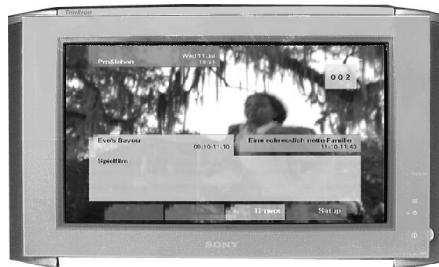
**Note:** In Smart, Zoom and 14:9 modes parts of the top and bottom of the screen are cut off. Press the  or  button to adjust the position of the image on screen (eg to read subtitles).

## The Info display

This display gives you information both on the current programme being shown and on future programmes when available from the broadcaster (up to 24 hours ahead). The Info display provides a brief description of the current programme, its channel number and the start and end time. The title of the next programme and its start and end time is displayed in a smaller box to the right of the current programme's information.



1. Press the **i+** button on the remote control to view the Info display. If the display does not appear, press the DIGITAL/ **□** button to switch to digital mode then press the **i+** button to view the Info display.



2. Use the **←** and **→** buttons to move around the display.

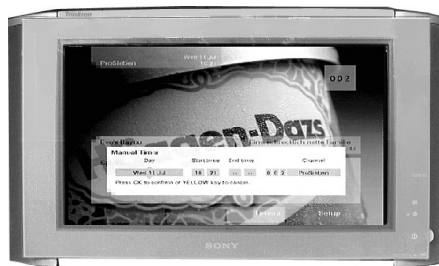
The coloured buttons give you access to further options:-

**RED button-** When pressed a pop-up menu allows you to change the language for the subtitles (when available). Press the **▲** or **▼** button to select the language required, then press the OK button to confirm.

**GREEN button-** When pressed a pop-up menu allows you to select the language in which you wish to hear the broadcast (when available). Press the **▲** or **▼** button to select the language required, then press the OK button to confirm.

**YELLOW button-** Allows you to record a programme from the Info display, or to set a programme to automatically appear on screen when it starts. Press the **←** or **→** buttons to select a future programme from the Info display, then press the YELLOW button to display the Timers pop-up menu. You can now choose from a) Record b) Wakeup or c) Manual.

- a) Record** Highlight Record and press OK to automatically set your VCR to record the selected programme (this will only work if your VCR has SmartLink facility and is connected to AV3 socket **↔3/↔3** on the rear of this TV).
- b) Wakeup** Highlight Wakeup and press OK if you wish the future programme you selected to appear on-screen when transmission begins.
- c) Manual** Highlight Manual and press OK if you wish the TV to output a channel to your VCR for recording. The following display appears.



Press the **▲** or **▼** button to set the day of recording, then press the **→** button to move to the start time. Repeat this procedure to set the start and stop times and the channel number, then press the OK button to store and return to the Info menu. Press the **i+** button to remove the Info menu from the screen. Unless you have a Smartlink VCR, you must now set the timer recording function of your VCR to switch on and off to correspond with the programme you have stored for recording.

### Notes on recording:

The 'Manual' feature only works if you have connected your VCR to the AV3 socket **↔3/↔3** on the rear of the TV. After you have programmed a recording you can put the TV into its standby mode, but do not switch off completely or the recording will be cancelled. If you put the TV into standby mode, the standby indicator on the front of the TV flashes green periodically to remind you a recording has been programmed. Once a programme has started recording, do not change channels or switch to analogue mode or the recording will be cancelled.

**BLUE button-** Press to display the Main Menu (see next page).



## The Main Menu

The following pages explain the digital menus and their operation. To check you are in digital mode, press the **i+** button on your remote control. An Info display appears on screen providing brief details of both the current and next programme. If the display does not appear, press the DIGITAL/ **□** button on the remote control before proceeding.

### Favourite Programmes

Use this option to create a list of your favourite programmes in one of three personal folders, which can then be accessed using the Electronic Programme Guide (EPG) or Channel Index feature of this TV.

1. With the Info display on screen, press the BLUE button on your remote control to display the Main Menu.
2. Press the **▲** or **▼** button to highlight 'Favourite Programmes' then press the OK button. A display appears giving you the choice of three personal folders.



3. Press the **▲** or **▼** button to select the folder you wish to use, then press OK to display the programme listing for that folder.
4. Press the **▲** or **▼** buttons to scroll through the list until the programme you wish to store as a favourite is highlighted, then press the OK button. The **√** symbol appears alongside the programme to indicate it is now stored as a favourite. Repeat this procedure to store other favourite programmes.

**To deselect a favourite programme:** Highlight the programme, then press the OK button. The **√** symbol disappears from the TV screen.

**To deselect all favourite programmes:** Press the YELLOW button.

**To rename a favourite folder:** Press the BLUE button to return to the 'Favourite Programmes' display, then press the **▲** or **▼** button to highlight the folder you wish to rename. Press the YELLOW button to display an on-screen keyboard. Press the RED button to clear the existing name, then using the **▲**, **▼**, **←** and **→** buttons, select the first letter you require and press OK. The letter appears in the favourite name box. Repeat this procedure until the name is complete, then after using the **▲**, **▼**, **←** and **→** buttons to highlight DONE, press OK.

Note: If you make a mistake whilst renaming the folder, press the GREEN button to return to the original name.

5. Press the BLUE button repeatedly to remove all menus from the TV screen.

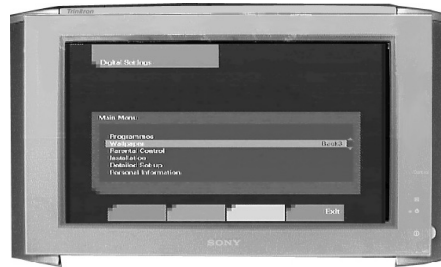


## The Main Menu

### Wallpaper

This feature allows you to customise the background pattern for all the Digital menus.

1. Press the **(i+)** button, then press the BLUE button on the remote control to display the Main Menu.

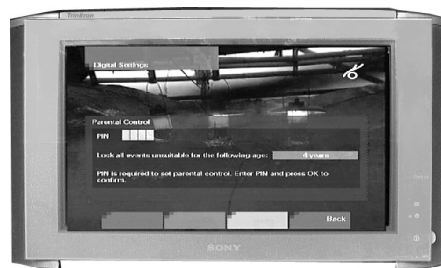


2. Press the **↓** button to highlight 'Wallpaper' then press the OK button to confirm.
3. Press the **↑** or **↓** button to select your choice of wallpaper, then press OK to store.
4. Press the BLUE button repeatedly to remove all menus from the TV screen.

### Parental Control

This option allows you to set an age limit above which a PIN number is required before viewing is allowed.

1. Press the **(i+)** button, then press the BLUE button on the remote control to display the Main Menu.
2. Press the **↓** button to highlight 'Parental Control' then press OK button to display the Parental Control menu.



3. Enter your existing PIN code using buttons 0 - 9. The PIN code has been preset to 1234, but this can be changed later in the 'Detailed Set-up' menu.
4. The age box now becomes active. Press the **↑** or **↓** button to set the age limit you desire or set to 'None' for unrestricted viewing. Press the OK button to confirm the setting.
5. Press the BLUE button repeatedly to remove all menus from the TV screen.

## The Main menu

### Installation

This option allows you to allocate a name to your satellite, change the settings, tune in the programmes or change the order of the stored programmes.

1. Press the **(f+)** button, then press the BLUE button on the remote control to display the Main Menu.
2. Press the **▲** or **▼** buttons to select 'Installation' then press the OK button to display the Installation menu.



3. Press the **▲** or **▼** buttons to select your chosen item on the menu screen then press the OK button to display the relevant sub menu.

#### Satellite Set-up

This menu gives an overview of the settings for your satellite(s). Press the **▲** or **▼** buttons to select your chosen satellite then press the OK button to display the 'Satellite Set-up' screen. If you wish to change any of the settings, use the **▲** or **▼** buttons to highlight the item you wish to change, then press the OK button to confirm. Press the **▲** or **▼** buttons to alter the setting then press the OK button to store the new setting. Press the BLUE button to return to the Installation menu.

**Note:** If you select 'Satellite name' press the OK button to display the keyboard showing the existing satellite name. Press the RED button to clear the existing name, then using the **▲**, **▼**, **←** and **→** buttons, select the first letter or number you require for your new name. Press the OK button to display the letter or number in the name box. Repeat the procedure until the new name is complete then, after using the **▲**, **▼**, **←** and **→** buttons to highlight DONE, press the OK button. Finally, press the BLUE button to return to the Installation menu.

#### Quick tuning

This option will download all the recommended channels from the Astra satellite.

#### Full tuning

This option enables you to tune in all available channels for each satellite. Press the **▲** or **▼** buttons to highlight your chosen satellite then press the OK button to confirm. A message appears asking you to confirm scanning. Press OK to start the search procedure. As this may take some time, a progress menu appears on screen to show you the number of services stored.

#### Manual Tuning

With this option you can manually add channels to your TV. Press the **▲** or **▼** buttons to select your chosen satellite then press the OK button to display the 'Manual Tune' screen. If you wish to change the frequency or baudrate settings, press the **▲** or **▼** buttons to highlight 'Frequency' or 'Baudrate' then press OK to display the relevant sub menu. Enter the new settings using the numbered buttons on your remote control then press the OK button to return to the 'Manual Tune' screen. If you wish to change the Fec or Polarization details, press the **▲** or **▼** buttons to select 'Fec' or 'Polarization' then press OK to confirm. Press the **▲** or **▼** buttons to change the settings then press the OK button to confirm. Once the desired settings have been input, press the YELLOW button to display a confirmation message. Press OK to begin the search procedure.

**Note:** For further information regarding satellite settings, please contact your local approved satellite installer.

#### Programme Sorting

Use this option to change the order of the stored channels. With the 'Programme Sorting' menu displayed on the screen, press the **▲** or **▼** buttons to highlight the channel you wish to move then press the YELLOW button. Use the numbered buttons on your remote control to enter the new programme number for your chosen channel then press the OK button to confirm. Repeat this procedure to move other channels, then press BLUE button repeatedly to remove all menus from the TV screen.

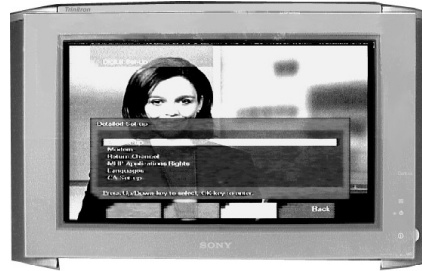
4. Once you have made all the changes you require in the Installation menu, press the BLUE button repeatedly to remove all menus from the TV screen.

## The Main Menu

### Detailed set-up

Use this option to change your PIN number, modem settings and languages etc.

1. Press the **(i+)** button, then the BLUE button on the remote control to display the Main Menu.
2. Press the **▲** or **▼** button to highlight 'Detailed Set-up', then press the OK button to display the Detailed Set-up menu.



If you wish to change any of the settings on the menu screen, press the **▲** or **▼** button to select your chosen item then press the OK button to display the relevant sub menu.

#### PIN Set-up

Enter your existing PIN and press OK. Use the numbered buttons on your remote control to enter your new number, then enter again to confirm. Press the OK button then the BLUE button to return to the Detailed Set-up menu.

#### Modem

Press the **▲** or **▼** button to select your chosen item on the screen then press the OK button to confirm. Press the **▲** or **▼** button to change the setting then press the OK button to store the new setting. Press the BLUE button to return to the Detailed Set-up menu.

#### Return Channel

Press the **▲** or **▼** buttons to select your chosen item on the menu screen then press the OK button to display the keyboard\*. Press the RED button to clear any existing name then, using the **▲**, **▼**, **◀** or **▶** buttons, select the first letter or number you require. Press the OK button to display the letter or number in the name box. Repeat the procedure until the new name is complete then, after using the **▲**, **▼**, **◀** or **▶** buttons to highlight DONE, press the OK button. Finally, press the BLUE button to return to the Detailed Set-up menu.

\* If you select 'Default ISP' or 'DNS IP Address' you need to use the numbered buttons on your remote control to input your new numbers. Once complete, press the OK button to confirm.

#### MHP Applications Rights

Press the **▲** or **▼** buttons to select your chosen item on the screen then press the OK button to confirm. Press the **▲** or **▼** button to change the setting then press the OK button to store the new setting. Press the BLUE button to return to the Detailed Set-up menu.

#### Languages

Press the **▲** or **▼** buttons to select 'Audio Language' or 'Subtitle Language' then press the OK button to confirm. Press the **▲** or **▼** buttons to change the setting then press the OK button to store the new setting. Press the BLUE button to return to the Detailed Set-up menu.

#### Manufacturer information

This is an information screen only which confirms which versions of hardware and software are available. Press the BLUE button to return to the Detailed Set-up menu.

#### Software Upgrade

Press the **▲** or **▼** buttons to set to 'Yes' or 'No'. When set to 'Yes', new operating software is automatically downloaded when released.

#### Factory setting

Press the **▲** or **▼** buttons to choose from 'Clear Personal Settings' (returns all digital settings to their factory pre-set levels) or 'Clear all channels' (removes all scanned channels from the memory).

3. Once you have made all the changes you require in the Detailed Set-up menu, press the BLUE button repeatedly to remove all menus from the TV screen.


Note: The CA Set-up is explained on the following page.



## The Main Menu






### CA Set-up

This feature 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.

1. Switch off the TV and unplug from the mains.
2. Insert the CAM into the  socket on the rear of the TV as shown. Take care not to damage the CAM when inserting.

**Note:** If you have already attached the door that covers the rear sockets, you will have to unscrew and remove this to gain access to the CAM socket.






3. Insert your viewing card into the CAM.
4. Connect the TV to the mains and switch on.
5. Press the  button, then the BLUE button on the remote control to display the Main Menu.
6. Press the  or  button to highlight 'Detailed Set-up', then press the OK button to display the Detailed Set-up menu.
7. Press the  or  button to highlight 'CA Set-up' in the Main Menu, then press the OK button to display the supplier's set up menu.















For further information regarding the available services, please contact your pay per view supplier.

### Personal Information

Use this option to enter personal information such as your e-mail name and address.

1. Press the  button, then the BLUE button on the remote control to display the Main Menu.
2. Press the  or  button to highlight 'Personal Information', then press OK to display the Personal Information menu.



3. If you wish to change your user name, address or e-mail, press the  or  button to highlight your chosen option then press the OK button to display a keyboard. Press the RED button to clear the existing name or address. Press the , ,  and  buttons to select the letter or number you require then press the OK button to display the letter/number in the name box. Repeat this procedure until the new name is complete then, after using the , ,  and  buttons to highlight DONE, press the OK button to return to the 'Personal Information' menu.
4. If you wish to change the MHP Applications Font Size, press the  or  button to highlight 'MHP Applications Font Size' then press the OK button to confirm. Press the  or  button to change the existing font size, then press the OK button to confirm.

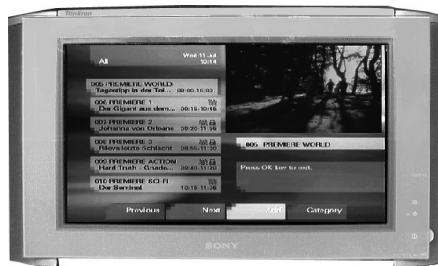
## The Channel Index menu

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

- View a complete list of the programmes available for selection.
- Obtain a preview of the programmes currently being broadcast.
- Store channels into a personal favourite list.
- Create a list relating to a category of programme, e.g. Sports or Movies.



- The Channel Index menu is only available in digital mode. To check you are in digital mode, press the **i+** button on your remote control. An Info display appears on screen providing brief details for both the current and next programme. If the display does not appear, press the DIGITAL/ button on the remote control.
- Press the **i+** button to remove the Info display from the screen then press the OK button to display the Channel Index menu. This menu contains a list of programmes, with the present programme being shown in a preview screen at the top right of the menu.



- Press the **▲** or **▼** buttons to move up and down the list to highlight your desired programme. If you do not wish to view one of the 6 programmes displayed, press the RED or GREEN button to display the previous or next 6 programmes.
- Once the programme you want is highlighted press the OK button to preview the programme on screen. If however, you have previously allocated a Parental Control age limit in the Main Menu, and the programme exceeds that limit, you will be asked to enter your PIN before the preview is allowed. Programmes that exceed the age limit are identified by a **Ⓜ** symbol.
- Press the OK button to confirm your choice and to exit the Channel Index menu.

### To store a channel as one of your favourites

- With the Channel Index menu on screen, press the **▲** or **▼** buttons to highlight the channel you want as a favourite.
- Press the YELLOW button to display the Add pop-up menu. Press the **▲** or **▼** buttons to select the personal folder in which you wish to store the channel, then press OK to confirm.
- Press the OK button to exit the Channel Index menu.

### To select a category of programme

- With the Channel index menu on screen, press the BLUE button to display the Category pop-up menu.
- Press the **▲** or **▼** buttons to select a category then press the OK button to confirm. The Channel Index will now only contain programmes relating to your chosen category.

Some examples of category types are as follows:

- My Choice** This is a list compiled from the programmes you view most often.
- Recent** This list contains the last 5 channels you have watched.
- Fav1** This list contains channels you have stored in this folder as favourites.
- Movies** This list contains all the movies available for viewing.
- All** This is a complete list of all available programmes.

- The type of programme category you choose is displayed at the top of the list along with the date and time of day.
- Press the OK button to exit the Channel Index menu.



## The EPG menu

The EPG (Electronic Programme Guide) menu provides a quick and easy way to:

- View a complete list of programmes available.
- Obtain a preview of the programmes currently being broadcast.
- Create a list relating to a category of programme, e.g. Sports or Movies.
- Record programmes.



- The EPG menu is only available in digital mode. To check you are in digital mode, press the **(i+)** button on your remote control. An Info display appears on screen providing brief details for both the current and next programme. If the display does not appear, press the DIGITAL/ **(□)** button.
- Press the **(□)** button to display the EPG menu on screen. This menu consists of an event information box, a preview screen, a 2 hour timer bar (divided into 30 minute intervals) and a 5 channel programme list covering the 2 hour period.



- Press the **↑**, **↓**, **←** and **→** buttons to move around the list. As each programme is highlighted, a brief description of the programme appears in the event box at the top left of the menu. If you press the **→** button after highlighting the last programme on the right, the programme schedule for the next 2 hour period is displayed. Press the RED or GREEN button when you wish to view the previous or next 5 channels and their programmes.
- If a programme you highlight is currently being broadcast, you will be prompted to press the OK button to obtain a preview. If however, you have previously allocated a Parental Control age limit in the Main Menu, and the programme exceeds that limit, you will be asked to enter your PIN before the preview is allowed.
- Press the OK button to confirm your choice and exit the EPG menu.

### To select a category of programme

- With the EPG menu on screen, press the BLUE button to display the Category pop-up menu.
- Press the **↑** or **↓** button to select a category of programme, then press the OK button to confirm. The EPG list will now only contain programmes relating to the chosen category.

Some examples of category types are as follows:

- My Choice-** This is a list compiled from the programmes you view most often.
- Recent-** This list contains the last 5 channels you have watched.
- Fav1-** This list contains channels you have stored in this folder as favourites
- Movies-** This list contains all the movies available for viewing.
- All-** This is a complete list of all available programmes

- Your chosen category is displayed at the top of the list along with the date and time of day.
- Press the **(□)** button to exit the EPG menu.



## The EPG menu



### To select a programme for recording or timed display

With the EPG menu displayed press the **▲**, **▼**, **◀** and **▶** buttons to highlight a future programme you want, then press the **YELLOW** button to display the Timers pop-up menu. This option allows you to choose from a) Record, b) Wakeup or c) Manual.

- a) Record** Highlight Record and press the OK button to automatically set your VCR to record the selected programme.

**Note:** This option will only work if your VCR has Smartlink capability and is connected to the AV3 socket on the rear of the TV.

When a programme has been set for recording, a solid red bar appears under the timer bar in the menu. This coloured bar shows the time allocated for recording and reminds you that you are unable to record other programmes during that time period.

- b) Wake up** Highlight Wake up and press OK if you wish the future programme you selected to automatically appear on screen when transmission starts.

When you use this option a solid green bar appears under the timer bar in the menu. This indicates that a wake up request has been activated. Just before transmission begins a reminder will appear on screen asking you if you still wish to view the programme.

- c) Manual** Highlight Manual and press OK if you wish the TV to output a channel to your VCR for recording when the transmission begins. The following display appears.



Press the **▲** or **▼** button to set the day of recording, then press the **▶** button to move to the start time. Repeat this procedure to set the start and stop times and the channel number, then press the **OK** button to store and return the EPG menu. Press the **□** button to remove the EPG menu. Unless you have a Smartlink VCR, you must now set the timer recording function of your VCR to switch on and off to correspond with the programme you have stored for recording.


#### Notes on recording:

The 'Manual' feature only works if you have connected your VCR to the AV3 socket **↔3/3** on the rear of the TV. After you have programmed a recording you can put the TV into its standby mode, but do not switch off completely or the recording will be cancelled. If you put the TV into standby mode, the standby indicator on the front of the TV flashes green periodically to remind you a recording has been programmed. Once a programme has started recording, do not change channels or switch to analogue mode or the recording will be cancelled.

The Timers pop-up menu also has a 'Timer List' option. If you highlight this and press OK button, a screen is displayed showing all the programmes you have set for recording or wake up. To delete one of these programmes, proceed as follows:

1. Press the **▲** or **▼** button to highlight the programme you wish to delete, then press the **YELLOW** button to display the Timers pop-up menu.
2. Press the **▼** button to highlight 'Remove', then press the **OK** button to confirm.
3. Press **□** to return to normal TV operation, or press the **BLUE** button to return to the EPG menu.



The following pages explain the TV set up menus and their operation. Although most of these menus can be accessed whilst watching digital programmes, we recommend you switch to analogue mode to view all the menus. To check which mode you are in, press the **INFO** button on your remote control. If you are watching a digital programme, an Info display appears on screen providing brief details for both the current and next programme. If this happens, press the **DIGITAL/**  button on the remote control to switch to the traditional analogue channels.

## Using the Programme Index Table



The Programme Index Table is an easy way to search for a programme you wish to view.

1. Press the OK button to display the programme table on screen.

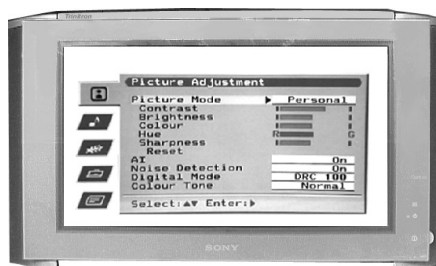


2. Press the **▲** or **▼** button to scroll through the table until the programme number you wish to view is highlighted, then press the OK button to display that programme on screen.

## Adjusting the picture



1. Press the MENU button to display the main menu, then press the **▶** button to highlight 'Picture Mode'.




2. Press the **▲** or **▼** button to highlight the option you require then press the **▶** button to confirm. The table below explains the function of each option and which buttons to press for adjustment. Once adjustment has been finalised, press the OK button to store.
3. Press the MENU button when you wish to remove the menu from the screen.

Option	Adjustment/Effect
Picture Mode	Press <b>▲</b> or <b>▼</b> button to select Live, Personal, Movie or Game mode. Live, Movie and Game have had their picture levels preset to suit their intended functions, whilst Personal mode allows you to set your own levels of brightness, colour and sharpness.
Contrast Brightness Colour	Press <b>◀</b> or <b>▶</b> button to increase or decrease the levels to suit personal taste. You can only adjust the brightness, colour and sharpness if you have selected 'Personal' in 'Picture Mode' option.
Hue	Press <b>◀</b> or <b>▶</b> button to increase or decrease the green tint of an NTSC colour broadcast. (This function is only available when receiving an NTSC colour broadcast)
Sharpness	Press <b>◀</b> or <b>▶</b> button to sharpen or soften picture content. (Only available when you select 'Personal' in 'Picture Mode' option.
Reset	Resets picture to factory preset levels.
AI (artificial intelligence)	Press <b>▲</b> or <b>▼</b> button to turn On or Off. When set to On, the TV will monitor the picture and limit any sudden increases in brightness and contrast.
Noise Detection	Press <b>▲</b> or <b>▼</b> button to switch On or Off. When set to On, this option can sometimes reduce the noise level apparent on a weak signal.
DRC Mode	Press <b>▲</b> or <b>▼</b> button to set the desired picture resolution. Set to Off for basic picture quality, DRC50 for improved resolution or DRC100 for optimum picture resolution.
Colour Tone	Press <b>▲</b> or <b>▼</b> button to alter the tint of the colour to suit your taste. Choose from Warm, Normal or Cool.



## Adjusting the sound



1. Press the MENU button to display the main menu.
2. Press the ↓ button to highlight the  icon, then press the → button to highlight 'Sound Effect'.



3. Press the ↑ or ↓ button to select the option you wish to adjust, then press the → button to confirm. The table below explains the function of each option and which buttons to press for adjustment. Once adjustment has been finalised, press the OK button to store.
4. Press the MENU button when you wish to remove the menu from the screen.


Option	Adjustment/Effect
Sound Effect	Press ↑ or ↓ button to select from *Natural, *Dynamic, Dolby V or Personal. When Dolby V. is selected, the TV simulates the full effects of Dolby Surround sound when receiving a Dolby broadcast.
Equaliser Adjustment (only available if Sound Effect is set to 'Personal').	This option allows you to alter the sound by adjusting the 5 frequency bands which control the overall sound effect. Press the ← or → buttons to select each band, then press ↑ or ↓ button to adjust the frequency level. Once the desired adjustment is made press the OK button to store.
Virtual Effect	Changes the level of surround sound effect when listening to a Dolby surround sound broadcast (only when Dolby V has been selected in Sound Effect option)
Balance	Press ← or → button to set the balance to desired level.
Auto Vol. Control	Press ↑ or ↓ button to set to On or Off. When set to On, the volume remains constant even if the broadcast level changes (during adverts for example).
Dual Sound	<b>When receiving bilingual broadcasts:</b> Press ↑ or ↓ button to choose A to listen to the first language or B to listen to the second language. <b>When receiving Stereo broadcasts:</b> Press ↑ or ↓ button to choose Mono or Stereo. <b>Note:</b> When NICAM is broadcast the word 'NICAM' appears in the menu.
 Audio-out vol.	Press ← or → button to increase or decrease the volume level to the headphone socket and/or the audio out sockets on the rear of the TV.
 Dual Sound	When receiving bilingual broadcasts press ↑ or ↓ button to select which language is output to the headphone socket. Select A to listen to the first language or B to listen to the second language.

This TV has been designed to create a Virtual Dolby Surround sound effect from a 'Dolby Surround' broadcast without the need for additional speakers. However, if you wish to connect an external amplifier to this TV, please refer to the 'Connecting external equipment' section of this manual.  
Manufactured under licence from Dolby Laboratories. 'Dolby', 'Pro Logic' and the double-D symbol are trademarks of Dolby Laboratories.

- \* Natural and Dynamic are functions of the 'BBE High definition Sound System'. This system enhances clarity, detail, presence of sound, and increases musical realism.
- \* The 'BBE High definition Sound System' is manufactured by Sony Corporation under licence from BBE Sound, Inc. It is covered by U.S. Patent No. 4,638,258 and No. 4,482,866. The word 'BBE' and the BBE symbol are trademarks of BBE Sound, Inc.





## Using the Features menu



1. Press the MENU button to display the main menu.
2. Press the ↓ button to highlight the  icon, then press the → button to highlight 'Auto Format'.



3. Press the ↑ or ↓ button to select the option you wish to adjust, then press the → button to confirm. The table below explains the function of each option and which buttons to press for adjustment. Once adjustment has been finalised, press the OK button to store.
4. Press the MENU button when you wish to remove the menu from the screen.


Option	Adjustment/Effect
Auto Format	Press ↑ or ↓ button to select between Off or On. <b>Off:</b> Picture size remains constant irrespective of broadcasting format. <b>On:</b> Picture size changes to match the broadcasting format. For example, if a conventional 14:9 broadcast changes to a Wide screen format, the TV switches formats automatically.
Format Correction (Only available when On has been selected in 'Auto Format' option)	Press ↑ or ↓ button to select Off or On. <b>Off:</b> When 4:3 and 14:9 broadcasts are received, there will be dark areas visible at each side of the screen. <b>On:</b> Smart mode is automatically selected when 4:3 and 14:9 broadcasts are received, thus eliminating the dark areas on each side of the screen.
Sleep Timer	Press ↑ or ↓ button to select a period of time before the TV switches itself into standby mode. This can be up to 90 minutes in 10 minute intervals. When you wish to return to normal TV operation press the TV I/O button.
AV3 Output	Press ↑ or ↓ button to select which input source you wish to output from the AV3 socket. This option allows you to connect a VCR to AV3 and then record whatever signals are being applied to the other sockets etc. Choose from Ana.TV, Digi.TV, AV1, AV2, AV3 or AV4. <b>Ana. TV:</b> Always outputs the tuned analogue TV signal. <b>Digi. TV:</b> Always outputs the tuned digital TV signal. <b>AV1:</b> Outputs signals from equipment connected to the  1 rear socket. <b>AV2:</b> Outputs signals from equipment connected to the  2 rear socket. <b>AV3:</b> Outputs signals from equipment connected to the  3 /  3 rear socket. <b>AV4:</b> Outputs signals from equipment connected to the side sockets of the TV.

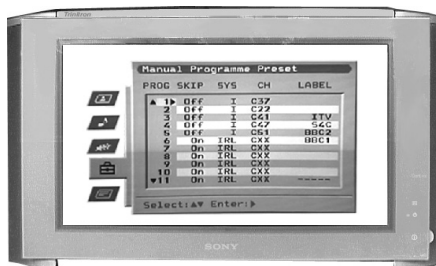
## TV menu system

### Naming a programme

With this feature you can name a programme using up to 5 characters (letters or numbers).



1. Press the MENU button to display the main menu.
2. Press the ↓ button to highlight the  icon, then press the → button to highlight 'Auto Tuning'.
3. Press the ↓ button to highlight 'Manual Set Up' then press the → button to display the Manual Set Up menu.
4. Press the ↓ button to highlight 'Manual Programme Preset' then press the → button to display the Manual Programme Preset menu.




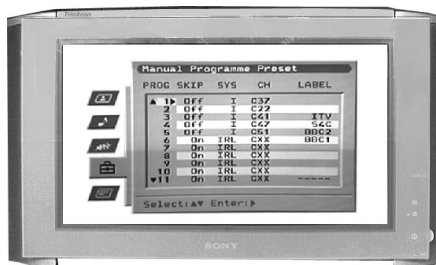
5. Press the ↑ or ↓ button to highlight the programme number that you wish to name, then press the → button until the first dash in the LABEL column is highlighted. Now press the ↑ or ↓ button until the first character you desire appears in the display (you can also insert a blank space), then press the → button to confirm.
6. Select other characters using the ↑, ↓ and → buttons, then press the OK button to store.
7. Repeat steps 5 - 6 to name other channels if desired, then press the MENU button to remove the menu from the screen.

### Skipping a programme

This feature lets you to skip unwanted programmes when they are selected using the PROG+/- button. However, the programme can still be selected using the numbered buttons on the remote control handset.



1. Press the MENU button to display the main menu.
2. Press the ↓ button to highlight the  icon, then press the → button to highlight 'Auto Tuning'.
3. Press the ↓ button to highlight 'Manual Set Up' then press the → button to display the Manual Set Up menu.
4. Press the ↓ button to highlight 'Manual Programme Preset' then press the → button to display the Manual Programme Preset menu.



5. Press the ↑ or ↓ button to highlight the programme number that you wish to skip, then press the → button to highlight the SKIP column.
6. Press the ↑ or ↓ button to select On, then press OK button to store.
7. Repeat steps 5 - 6 to skip other channels if desired, then press the MENU button to remove the menu from the screen.


To release the Skip function, follow the procedure and change On to Off in step 6.

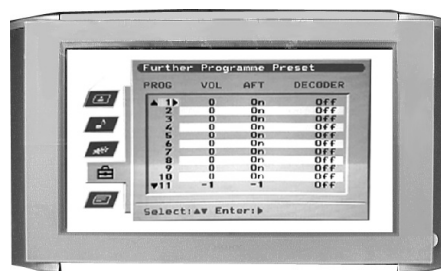


## Using the Further Programme Preset menu



The Further Programme Preset menu allows you to: a) set the volume level of an individual programme to be different from the rest, b) fine tune a programme to improve its reception or c) preset a scrambled signal applied to one of the AV sockets on the rear of the TV (e.g. from a pay decoder) so it is displayed on a programme number of your choice.

1. Press the MENU button to display the main menu.
2. Press the  $\downarrow$  button to highlight the  icon, then press the  $\rightarrow$  button to highlight 'Auto Tuning'.
3. Press the  $\downarrow$  button to highlight 'Manual Set Up' then press the  $\rightarrow$  button to display the Manual Set Up menu.
4. Press the  $\downarrow$  button to highlight 'Further Programme Preset' then press the  $\rightarrow$  button to display the Further Programme Preset menu.




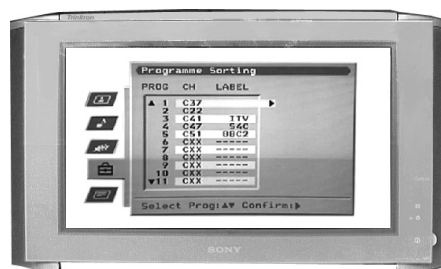
5. Press the  $\uparrow$  or  $\downarrow$  button to highlight the programme number you require then press the  $\rightarrow$  button to select: a) VOL b) AFT or c) DECODER.
6. a) **VOL (Volume level offset)**  
Press the  $\uparrow$  or  $\downarrow$  button to adjust the volume level of the programme (between -7 to +7), then press OK to store.  
Repeat steps 5 and 6a for other programmes.
- b) **AFT (Automatic Fine Tuning)**  
Press the  $\uparrow$  or  $\downarrow$  button to adjust the tuning frequency over a range of -15 to +15, then press OK to store.  
Repeat steps 5 and 6b for other programmes.
- c) **DECODER**  
Press the  $\uparrow$  or  $\downarrow$  button to select Off, AV1 or AV2 for the programme number you have chosen, then press OK button. You can now attach a decoder to the selected socket and the unscrambled signal will appear on the chosen programme number.  
Repeat steps 5 and 6c to select your preferred AV input for other programme numbers.
7. Press the MENU button to return to normal operation.

## Re-arranging your channels

You can use this feature to change the order in which the channels are stored on your TV.



1. Press the MENU button to display the main menu.
2. Press the  $\downarrow$  button to highlight the  icon, then press the  $\rightarrow$  button to highlight 'Auto Tuning'.
3. Press the  $\downarrow$  button to highlight 'Programme Sorting', then press the  $\rightarrow$  button to display the Programme Sorting menu.




4. Press the  $\downarrow$  or  $\uparrow$  button to highlight the channel you want to move then press the  $\rightarrow$  button to confirm.
5. Press the  $\downarrow$  or  $\uparrow$  button to select a new programme position for your chosen channel, then press the OK button to confirm. Your chosen channel has now moved to the new position.
6. Repeat steps 4 and 5 to move other channels as required.
7. Press the MENU button to remove the menu from the screen.

## Adjusting the picture rotation

Due to the Earth's magnetic field the picture can sometimes slant. This feature can correct this.



1. Press the MENU button to display the main menu.
2. Press the  $\downarrow$  button to highlight the  icon, then press the  $\rightarrow$  button to highlight 'Auto Tuning'.
3. Press the  $\downarrow$  button to highlight 'Manual Set Up' then press the  $\rightarrow$  button to display the Manual Set Up menu.
4. Press the  $\downarrow$  button to highlight 'Picture Rotation' then press the  $\rightarrow$  button to select.




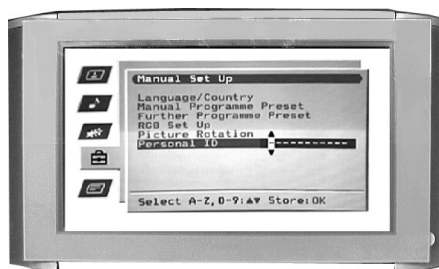
5. Press the  $\uparrow$  or  $\downarrow$  button to rotate the picture over a range of -5 to +5 then press the OK button to store.
6. Press the MENU button to remove the menu from the screen.

## Setting your personal ID

This feature allows you to enter a safety code to the TV, which would help you to be traced if the TV is stolen and recovered. This code can only be entered once, so please make a note of it and keep it safe.



1. Press the MENU button to display the main menu.
2. Press the  $\downarrow$  button to highlight the  icon, then press the  $\rightarrow$  button to highlight 'Auto Tuning'.
3. Press the  $\downarrow$  button to highlight 'Manual Set Up', then press the  $\rightarrow$  button to display the Manual Set Up menu.
4. Press the  $\downarrow$  button to highlight 'Personal ID' then press the  $\rightarrow$  button to select.













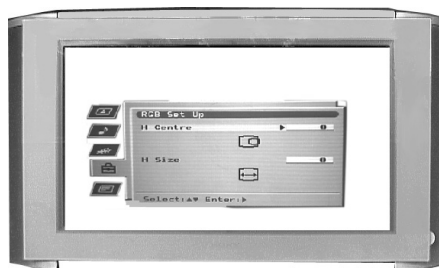
5. Press the  $\uparrow$  or  $\downarrow$  button to display the first character you require (letter or number), then press the  $\rightarrow$  button to select.
6. Repeat the procedure to complete your ID code, then press the OK button. A box appears requesting your confirmation. Press OK to confirm and save.
7. Press the MENU button to remove the menu from the screen.







## Adjusting the picture geometry for an RGB source

When viewing signals from an RGB source such as a Sony Playstation, it may be necessary to adjust the picture geometry.



1. Press the  button on the remote control until the RGB input from equipment you have connected to the  or  socket of the TV is displayed.
2. Press the MENU button to display the main menu.
3. Press the  button to highlight the  icon, then press the  button to highlight 'Auto Tuning'.
4. Press the  button to highlight 'Manual Set Up' then press the  button to display the Manual Set Up menu.
5. Press the  button to highlight 'RGB Set Up' then press the  button to display the RGB Set Up menu.









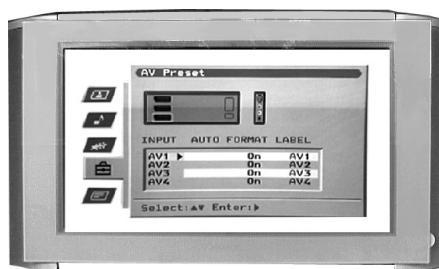
6. Press the  button to select H Centre, then press the  or  button to centralise the picture over a range of -10 to +10. Press OK button to store new setting.
7. Press the  button to select H Size then press the  or  button to adjust the picture size over a range of -10 to +10. Press OK button to store, then press the MENU button to remove menu from the screen.










## Presetting and naming inputs from external equipment

Use this feature to give a name to each piece of equipment connected to the Audio/Video (AV) sockets of your TV. These names will be displayed on screen briefly when the equipment is selected.



1. Press the MENU button to display the main menu.
2. Press the  button to highlight the  icon, then press the  button to highlight 'Auto Tuning'.
3. Press the  or  button to highlight 'AV Preset' then press the  button to display the AV Preset menu.



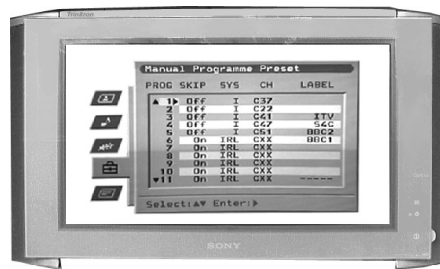
4. Press the  or  button to select the AV socket your equipment is connected to (AV1, AV2, AV3 or AV4).
5. Press the  button to select AUTO FORMAT column, then press the  or  button to select Off or On. (see 'Using the Features menu' for a description of the Auto Format function).
6. Press the  button to select LABEL column.
7. Press the  or  button to display the first character of the name you wish to use, then press the  button to select.
8. Repeat the procedure until you complete the name, then press the OK button to store.
9. Repeat steps 4 to 8 if you wish to name other equipment connected to the AV sockets, then press the MENU button to remove the menu from the screen.

## Manually tuning analogue signals

You can manually add channels one by one to your TV using the following guidelines. Manual tuning also allows you to select inputs from the scart sockets (VCRs etc.) so that they can be viewed on the programme number of your choice. Check you are in analogue mode by pressing the **+** button on your remote control. If an Info display appears on screen providing brief details of both the current and next programme, you are in digital mode. Switch to analogue mode by pressing the DIGITAL/ **□** button then proceed as follows:



1. Press the MENU button to display the main menu.
2. Press the **↓** button to highlight the **☰** icon, then press the **→** button to highlight 'Auto Tuning'.
3. Press the **↓** button to highlight 'Manual Set Up' then press the **→** button to display the Manual Set Up menu.
4. Press the **↓** button to highlight 'Manual Programme Preset' then press the **→** button to display the Manual Programme Preset menu.



5. Press the **↑** or **↓** button to highlight the programme number you require, then press the **→** button to highlight the SKIP column.
6. Press the **↑** or **↓** button to set to OFF, then press the **→** button to highlight SYS column.
7. Press the **↑** or **↓** button to select your system requirement. For example, choose B/G for the TV broadcasts or 'EXT' if you wish to view signals from your VCR or other equipment you have connected to the scart sockets (AV1, AV2 etc.). Press **→** button to confirm your choice.

### If you selected a TV broadcast system:

Press the **↑** or **↓** button to select 'C' for terrestrial channels, 'S' for cable channels or 'F' for direct frequency input, then press **→** button to confirm your choice.

If you know the channel number or frequency number you require, use buttons 0 - 9 on the remote control to enter the number, otherwise press the **↑** or **↓** button to search for the next available broadcast. If the broadcast found is not the one you desire, press the **↑** or **↓** button to repeat the search.

### If you have selected EXT:

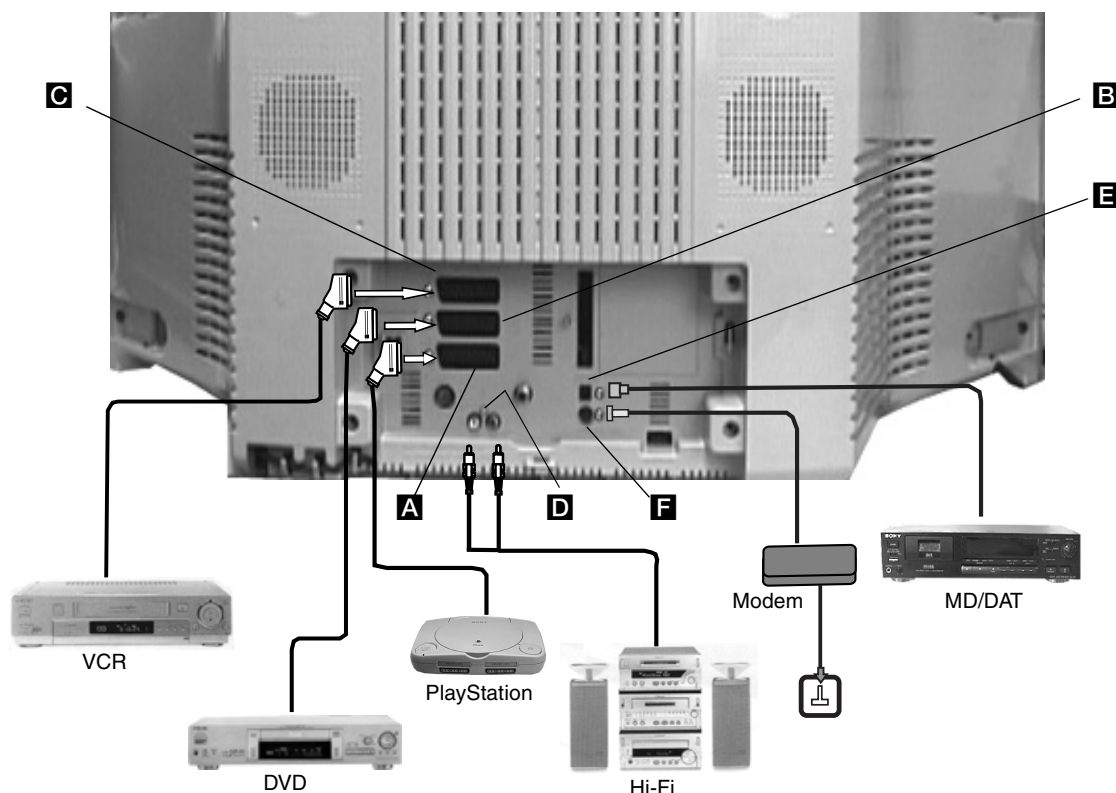
Press the **↑** or **↓** button to select the AV socket whose input you wish to view on the programme number chosen in step 5.


8. Press the OK button to store.
9. Repeat steps 5 - 8 if you wish to tune in broadcasts to other programme numbers, then press the MENU button to remove the menu from the screen.






## Connecting additional equipment


The following illustration shows how to connect a wide range of equipment to the rear of your TV. Please note that the connecting cables are not supplied.



1. After you have connected your equipment, press the  button on the remote control until the correct symbol for your equipment appears on the TV screen (see table below).

On screen symbol	Usage
 1	For equipment connected to socket <b>A</b>
 2	For equipment connected to socket <b>B</b>
 3	For equipment connected to socket <b>C</b>

**Note:** to record digital programmes you must connect your VCR to the Scart socket **C** using a scart lead.


2. Switch on your equipment to view the signal.
3. Press the DIGITAL/ button when you wish to return to normal TV operation.

### Connecting a VCR that supports Smartlink

The Smartlink system offers a direct link between the TV and VCR. If you have a Smartlink VCR, please refer to those instructions for further information.

**Note:** To operate correctly your VCR must be connected to the **C** socket of the TV using a scart lead.

### Connecting to external audio equipment

Plug in your Hi-Fi system to socket **D** if you wish to amplify the sound from the TV. The volume level can still be adjusted using the volume button  on the remote control.

### Connecting your MD/DAT player

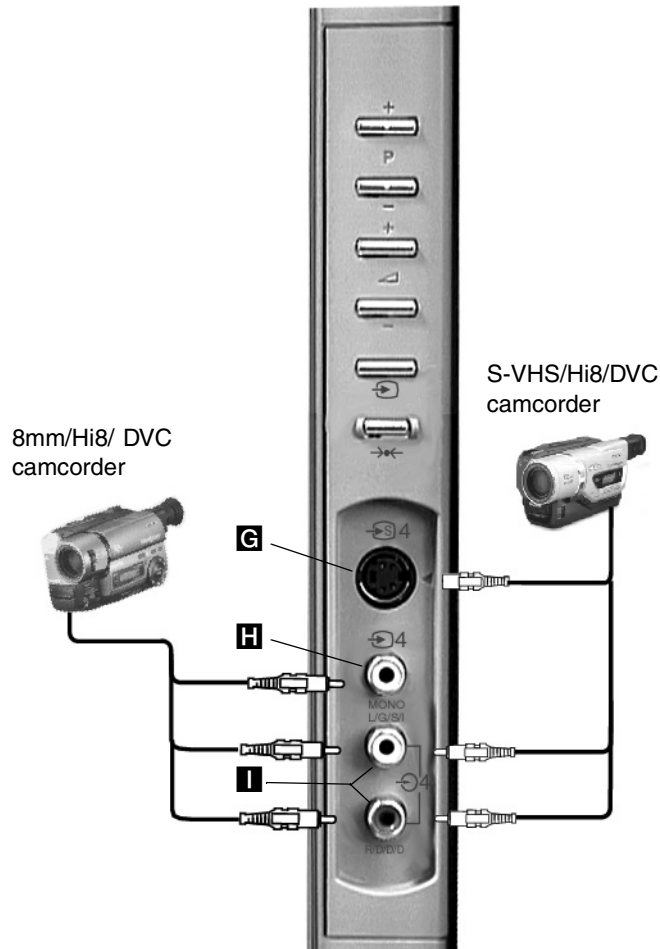
Plug in your MD/DAT player to socket **F**.

### Connecting a modem

Connect your modem to the **F** socket and your telephone socket.

## Connecting additional equipment

You can also connect equipment such as camcorders to the side panel of this TV as shown in the following illustration.



1. After you have connected your equipment, press the button on the remote control until the correct symbol for your equipment appears on the TV screen (see table below).

On screen symbol	Usage
	For equipment connected to sockets <b>G</b> and <b>I</b>
	For equipment connected to sockets <b>H</b> and <b>I</b>

2. Switch on your equipment to view the signal.
3. Press the DIGITAL/ button when you wish to return to normal TV operation.

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

### Connecting headphones

Plug in your headphones to the headphone socket. This can be found on the left hand side of the TV.

## Remote control configuration for VCR/DVD

This remote control has been configured to operate not only Sony DVDs and VCRs but also those made by other manufacturers. To operate other brands of DVD and VCR using this remote control, complete the following procedure:













1. Find the 3 digit code for your brand from the list below. If your brand has more than one code allocated to it, make a note of the first code only at this stage.
2. Press the MODE button on the remote control until either the VCR green light or the DVD green light is illuminated.
3. Whilst the required green light is illuminated, press and hold down the YELLOW button for approximately 6 seconds, until the light starts to flash.
4. Enter the 3 digit code for your DVD or VCR. Once a correct number has been entered, all three green lights will illuminate momentarily.
5. Turn on your DVD or VCR and check that the remote control operates the main functions. If not, repeat steps 2 - 4 and enter the next 3 digit code allocated to your brand of VCR or DVD.
6. When you wish to use the remote control to operate the TV again, press the MODE button until the TV green light illuminates. Don't forget to select VCR or DVD using the MODE button every time you wish to operate that equipment with this remote control.

**Note:** The brand codes you set may be lost if weak batteries are not replaced immediately. Should this happen, use the above procedure to reset the code. A small label has been attached to the inside of the battery cover for you to make a note of your brand codes.

Not all brands and models of DVDs or VCRs are covered in this list. However, Sony will endeavour to update the software periodically, so please refer to the code table provided with your remote control.

VCR Brand List		DVD Brand List	
Brand	Code	Brand	Code
SONY (VHS)	301, 302, 303, 309	SONY	001
SONY (BETA)	301, 302, 303, 309	AIWA	021
SONY (DVD)	304, 305, 306	DENON	018, 027, 020, 002
AIWA	325, 331, 351	GRUNDIG	009, 028, 023, 024, 016. 003
AKAI	326, 329, 330	HITACHI	025, 026, 015, 004
DAEWOO	342, 343	JVC	006, 017
GRUNDIG	358, 355, 360, 361, 320, 351	KENWOOD	008
HITACHI	327, 333, 334	LG	015, 014
JVC	314, 315, 322, 344, 352, 353, 354, 348, 349	LOEWE	009, 028, 023, 024, 016. 003
LG	332, 338	MATSUI	013, 016
LOEWE	358, 355, 360, 361, 320, 351	ONKYO	022
MATSUI	356, 357	PANASONIC	018, 027, 020, 002
ORION	328	PHILIPS	009, 028, 023, 024, 016. 003
PANASONIC	321, 323	PIONEER	004
PHILIPS	311, 312, 313, 316, 317, 318, 358, 359	SAMSUNG	011, 014
SAMSUNG	339, 340, 341, 345	SANYO	007
SANYO	335, 336	SHARP	019, 027
SHARP	324	THOMSON	012
THOMSON	319, 350	TOSHIBA	003
TOSHIBA	337	YAMAHA	018, 027, 020, 002

## Specifications

<b>TV system</b>	L/I, B/G/H, DK, DVB-S	
<b>Colour system</b>	PAL, SECAM NTSC 3.58/4.43 (only Video in) MPEG2 MP@ML	
<b>Channel coverage</b>	See the 'Channel Display Table' below	
<b>Picture tube</b>	82cm (32inches) FD Trinitron WIDE 102° deflection	
<b>Dimensions</b>	982mm x 564mm x 586mm (W x H x D)	
<b>Weight</b>	Approx. 74Kg	
<b>Sound output</b>	Left/Right 2 x 20W (music power) Sub Woofer 30W (music power)	
<b>Power consumption</b>	160W	
<b>Rear terminals</b>	<b>AV1 socket</b>  1 :	21-pin Euro connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output.
	<b>AV2 socket</b>  2 :	21-pin Euro connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output
	<b>AV3 socket</b>  3 /  3 :	21-pin Euro connector (CENELEC standard) including audio/video input, S-video input, selectable audio/video output.
	 <b>socket :</b>	RCA connectors (variable output for audio signals).
	 <b>socket :</b>	Conditional Access Module.
<b>Side terminals</b>	 4 <b>socket:</b>	Video input - phono jack
	 4 <b>socket:</b>	S-Video input (4pin DIN)
	 4 <b>socket:</b>	Audio inputs - phono jacks
	 <b>socket:</b>	Headphone output - stereo minijack
<b>Accessories supplied</b>	RM-935 remote control (1) IEC designated size AAA battery (2) Modem	

**Design and specification are subject to change without notice**









### Channel Display Table

	Receivable Channels	Channel Displays
B/G/H	E2..12, 21..69	C02..C12, C21..C69
KABEL-TV (1)	S1..S41	S01..S41
KABEL-TV (2)	S01..S05	S42..S46
	M1..M10	S01..S10
	U1..U10	S11.S20
ITALIEN	A, B..H, H1, H2	C13, C14..C20, C11, C12
D/K	R01..R12, R21..R69	C01..C12, C21..C69
	S01..S05	S42..S46
L	F2..F10, F21..F69	C01..C12, C21..C69
I	B21..B69	C21..C69



## Troubleshooting

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

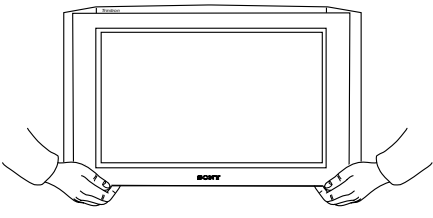
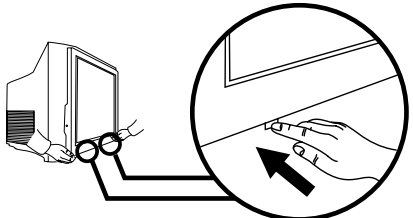
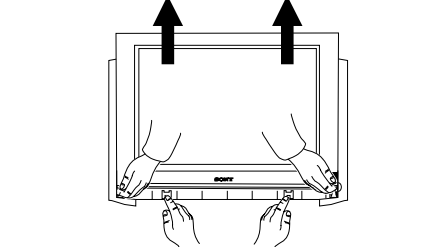
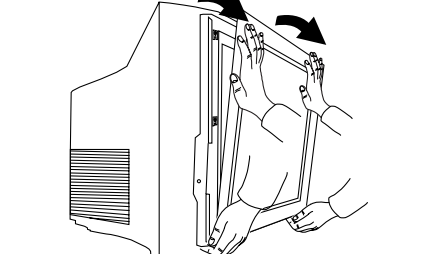
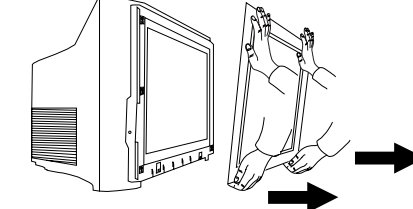
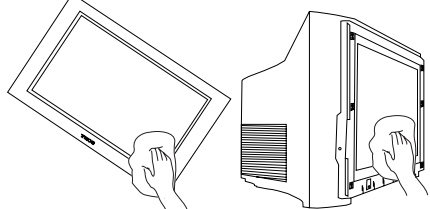
Problem	Cause
<p>No picture, no sound.</p> <p>Poor or no picture (screen is dark), but good sound. No picture on any channel after digital tuning.</p> <p>Some channels are blank.</p> <p>Standby indicator flashing.</p> <p>Good picture, no sound. Poor picture quality.</p> <p>No colour on colour programmes.</p> <p>Remote control does not function.</p> <p>Distorted picture when changing programmes or selecting Teletext.</p>	<ul style="list-style-type: none"> <li>• Power off.</li> <li>• TV in standby.</li> <li>• Aerial disconnected.</li> <li>• Picture preset level adjustment.</li> <li>• No digital transmissions in your area.</li> <li>• No digital transmissions from the transmitter you are currently using.</li> <li>• Weak signal.</li> <li>• Unsuitable aerial.</li> <li>• Scrambled/subscription-only channel.</li> <li>• Programme used only for data (no picture or sound).</li> <li>• Programme not being transmitted.</li> <li>• Digital mode Timer Record active (regular flash).</li> <li>• Fault (irregular flash).</li> <li>• Volume control.</li> <li>• Wrong external mode selected on an RGB video source.</li> <li>• Colour level setting.</li> <li>• Batteries low.</li> <li>• Inputs from external equipment not switched off.</li> </ul>
Cause	Solution
<p>Power off. TV in standby.</p> <p>Aerial disconnected.</p> <p>Picture level adjustment.</p> <p>No digital transmissions in your area.</p> <p>No digital transmissions from the transmitter you are currently using. Unsuitable aerial.</p> <p>Weak signal.</p> <p>Scrambled/subscription-only channel. Programme information without picture or sound.</p> <p>Fault.</p> <p>Volume control.</p> <p>Wrong external mode selected.</p> <p>Colour level setting.</p>	<ul style="list-style-type: none"> <li>• Plug in the TV.</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>• Select 'Picture Adjustment' menu then adjust the brightness, picture and colour levels.</li> <li>• Tune in the analogue channels available using the 'Manually tuning analogue signals' instruction in this manual, then contact a local installer to find out when digital transmissions begin in your area.</li> <li>• Contact a local installer to find out which transmitter you should be pointing your aerial at.</li> <li>• Change your aerial to cover the channels used by digital programmes. (Contact a local installer)</li> <li>• Ensure aerial is correctly aligned to transmitter.</li> <li>• Ensure aerial is plugged directly into the TV (not through other equipment).</li> <li>• Upgrade to a higher gain aerial.</li> <li>• Subscribe to pay-per-view broadcaster.</li> <li>• See 'Skipping a programme' section.</li> <li>• See 'Re-arranging your channels' section.</li> <li>• Do not open the cabinet, refer to qualified personnel.</li> <li>• Contact your nearest Sony Service Centre.</li> <li>• Press the  + button on the remote control.</li> <li>• If  is displayed on the screen, press the  button on the remote control.</li> <li>• Press the  button repeatedly until the RGB symbol  is displayed on screen.</li> <li>• Select 'Picture Adjustment' menu then adjust the colour setting.</li> </ul>

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

From time to time dust particles or condensation may get trapped between the glass panel and the TV screen. These instructions will guide you through the steps required to both remove and re-fit the glass panel safely.

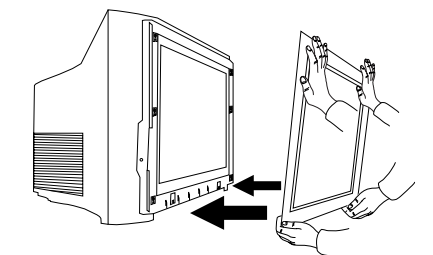
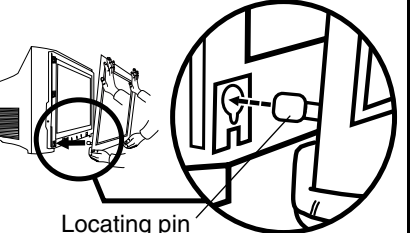
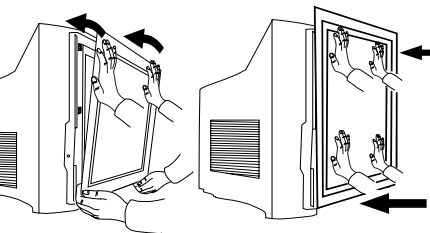
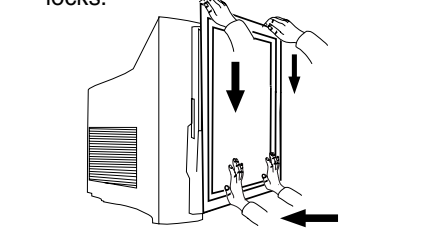
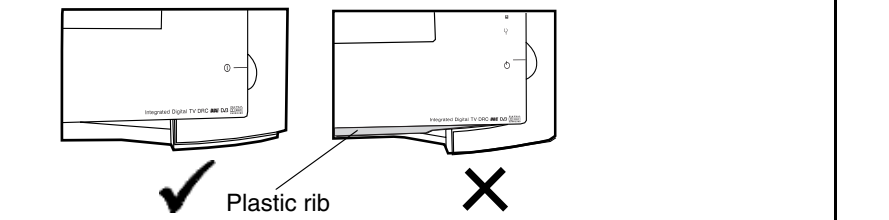
**Removing the glass panel**

**NEVER** attempt to remove the glass panel on your own - for safety reasons Sony recommends that two people carry out the following procedure at all times.

<p><b>1</b> Support the bottom of the glass panel as shown <b>AT ALL TIMES</b>.</p> 	<p><b>2</b> Push the clips located on the underside of the TV, as shown, to release the glass panel.</p> 	<p><b>3</b> Whilst pushing the release clip, slide the glass panel up.</p> 
<p><b>4</b> Supporting the glass panel, tilt it away from the TV.</p> 	<p><b>5</b> Carefully remove the glass panel and place it safely in an upright position. To avoid injury or damage, do not leave it on the floor.</p> 	<p><b>6</b> Clean both sides of the glass and the TV screen. Use a soft, damp, lint free cloth. Do not use any chemical solutions or abrasive cleaners.</p> 

**Re-fitting the glass panel**

**NEVER** attempt to re-fit the glass panel on your own - for safety reasons Sony recommends that two people carry out the following procedure at all times.

<p><b>1</b> Lift the glass, and move toward the TV.</p> 	<p><b>2</b> Insert the bottom locating pins of the glass panel into the keyhole slots on the TV.</p>  <p>Locating pin</p>	<p><b>3</b> Tilt the glass panel forwards at the top to engage all the locating pins, then push forward firmly to secure.</p> 
<p><b>4</b> While still maintaining forward pressure to the bottom of the glass, carefully slide the glass down until it locks.</p> 	<p style="text-align: center;"><b>CAUTION</b></p> <p>Before removing your hands check that you are unable to move the glass. When correctly fitted, the plastic rib shown in the drawing below should not be visible.</p>  <p style="text-align: center;">Plastic rib</p>	

**Safety Note**

The glass panel supplied complies with all relevant safety regulations. However, should the glass become damaged at any time, it is strongly recommended that a replacement is obtained from an authorised Sony dealer.



# STAATLICHES GEWERBEAUF SICHTSAMT STUTTGART

Zentrale Stelle für die Vollzugsunterstützung (ZSV)

Staatliches Gewerbeaufsichtsamt Stuttgart  
Zentrale Stelle für die Vollzugsunterstützung  
Postfach 10 17 43 • 70015 Stuttgart

**Sony International (Europe) GmbH**  
**Advanced Technology Center Stuttgart**  
**Heinrich-Hertz-Straße 1**

Stuttgart, den 21.06.2001  
Unser Zeichen: ZSV-4677.21 Bm  
Bearbeiter/in: Herr Böhm  
Durchwahl: (0711) 18 69 -638

**70327 Stuttgart**

## Zulassungsschein Nr. BW/495/97/Rö

Gemäß § 10 der Röntgenverordnung vom 08.01.1987 (BGBl. I S. 114) wird die Zulassung der Bauart durch den Bauartzulassungsbescheid vom 11.07.1997 mit den Nachträgen 1 vom 24.06.1998, 2 vom 27.02.2001 und 3 vom 21.06.2001 für die nachfolgend aufgeführten Störstrahler bescheinigt:

- Gegenstand : Fernsehgerät  
 Firmenbezeichnung : Sony Typ **KV-32F**.....  
 Typ **KV-32**.....  
 Typ **KD-32F**.....  
 Typ **KD-32**.....
- Hersteller (Produktionsstätte) : 1. Sony Manufacturing Company UK  
 Pencoed Technology Centre  
 Pencoed Technology Park  
 Pencoed, Mid Glamorgan CF35 5HZ  
 Great Britain
2. Sony Barcelona Plant  
 Poligon Ind. Can Milijans s/n  
 08232 Viladecavalls, Barcelona  
 Spain
- Bildröhre : Hersteller: Sony Corporation  
 Typ W76LLZ010X
- Betriebsbedingungen : Hersteller: Bridgend U. K.  
 Typ W76LLZ060X  
 : Hochspannung max. 32,0 kV  
 Strahlstrom 2,2 mA
- Befristung : bis 11.07.2007



Sprechzeiten nach telefonischer Vereinbarung  
Diensgebäude Koonstr. 39, 70174 Stuttgart  
DB, VVS, SSP Hallesche Hauptbahnhoft/ Amulf-Klein-Platz

Telefon: (0711) 18 69-0  
Telefax: (0711) 18 69 - 630  
E-Mail: zsv@gas.gau.bwl.de

Seite 2 zum Zulassungsschein vom 21.06.2001  
Bauartzulassung BW/495/97/Rö

### Für den Strahlenschutz wesentliche Merkmale:

1. Die Art und Qualität der Bildröhren,
2. die der Hochspannungserzeugung und -stabilisierung dienenden Bauelemente.

### Auflagen:

1. Die Fernsehgeräte sind einer Stückprüfung daraufhin zu unterziehen, ob sie bezüglich der für den Strahlenschutz wesentlichen Merkmale der Bauartzulassung entsprechen.  
Die Prüfung muß umfassen:  
a) Kontrolle der Hochspannung an jedem einzelnen Gerät,  
b) Messung der Dosisleistung nach Festlegung im Bauartzulassungsbescheid.
2. Jedem Erwerber eines Fernsehgerätes ist ein Abdruck des Zulassungsscheins auszuhängen, auf dem das Ergebnis der Stückprüfung (Maßgabe 2) bestätigt sein muß.
3. Die Fernsehgeräte sind deutlich sichtbar und dauerhaft mit dem Kennzeichen

BW/495/97/Rö

zu versehen sowie mit einem Hinweis folgenden Mindestinhaltes:

"Die in diesem Gerät entstehende Röntgenstrahlung ist ausreichend abgeschirmt. Bei schleimigungsspannung maximal 32,0 kV."

4. Jedem Fernsehgerät ist eine Betriebsanleitung beizufügen, in der insbesondere auf die dem Strahlenschutz dienenden Maßnahmen hingewiesen wird.

### Hinweis für den Benutzer des Gerätes:

Unschonbare Eingriffe, insbesondere Verändern der Hochspannung oder Auswechseln der Bildröhre können dazu führen, daß Röntgenstrahlung in erheblicher Stärke auftritt. Ein so verändertes Gerät entspricht nicht mehr dieser Zulassung und darf infolgedessen nicht mehr betrieben werden.

Die vor Ablauf der Frist in Verkehr gebrachten Geräte dürfen nach Ablauf der Frist weiter betrieben werden.



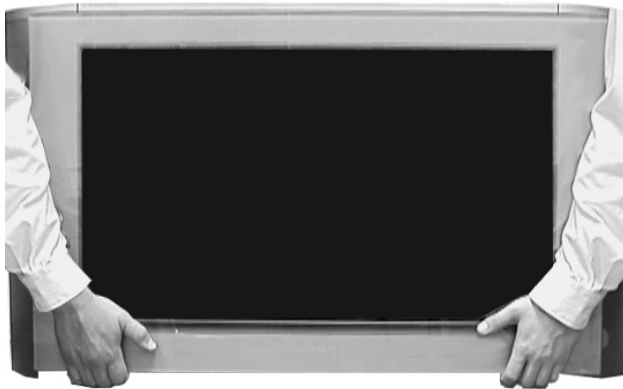
B ö h m

Die geforderte Stückprüfung hat ergeben, daß die gemessene Ortsdosis-Leistung unter dem in Prüfungsschein Nr. 6.52-F 1421 der PTB genannten Wert von 0,2 µSv/h liegt.

4-206-399-13



## How to carry this TV



- Sony strongly recommends that this TV is not lifted by less than two people.
- Always assume the correct posture when lifting.
- Standing at the side of the TV, place one hand under the glass panel on the front of the TV as shown.
- Lift and carry the TV to its required position. Do not place the TV on an unstable surface.

<http://www.world.sony.com/>

Sony Corporation Printed in UK



Recyclable