



digitaltv

Let's make things better



PHILIPS

Information for users in the UK

(Not applicable outside the UK)

Positioning the TV

For the best results, choose a position where light does not fall directly on the screen, and at some distance away from radiators or other sources of heat. Leave a space of at least 5 cm all around the TV for ventilation, making sure that curtains, cupboards etc. cannot obstruct the air flow through the ventilation apertures.

The TV is intended for use in a domestic environment only and should never be operated or stored in excessively hot or humid atmospheres.

General Points

Please take note of the section entitled 'Tips' at the end of this booklet.

Interference

The Department of Trade and Industry operates a Radio Interference Investigation Service to help TV licence holders improve reception of BBC and IBA programmes where they are being spoilt by interference.

If your dealer cannot help, ask at a main Post Office for the booklet "How to Improve Television and Radio Reception".

Mains connection

Before connecting the TV to the mains, check that the mains supply voltage corresponds to the voltage printed on the type plate on the rear panel of the TV. If the mains voltage is different, consult your dealer.

Important

This apparatus is fitted with an approved moulded 13 Amp plug. To change a fuse in this type of plug proceed as follows:

1. Remove fuse cover and fuse.
2. Fit new fuse which should be a BS1362 5A, A.S.T.A. or BSI approved type.
3. Refit the fuse cover.

In order to maintain conformity to the EMC directive, the mains plug on this product must not be removed.

Connecting the aerial

The aerial should be connected to the socket marked **TA** at the back of the set. An inferior aerial is likely to result in a poor, perhaps unstable picture with ghost images on analogue channels. Make-shift loft or set-top aerials may not give best results. Your dealer will know from experience the most suitable type for your locality.

Should you wish to use the set in conjunction with other equipment, which connects to the aerial socket such as TV games, or a video camera it is recommended that these be connected via a combiner unit to avoid repeated connection and disconnection of the aerial plug.

Fitting the stand (if provided)

Use only the stand provided with the set, making sure that the fixings are properly tightened. A diagram showing how to assemble the stand is packed with the stand. Never use a make-shift stand, or legs fixed with woodscrews.



Recycling directive

Your TV set uses materials which are reusable or which can be recycled.

To minimise the amount of waste in the environment, specialist companies recover used sets for dismantling and collection of reusable materials (consult your dealer).

Introduction

Thank you for purchasing this digital television which benefits from the latest advances in technology.

This handbook has been designed to help you install and operate your TV set.

We would strongly advise you read it thoroughly.

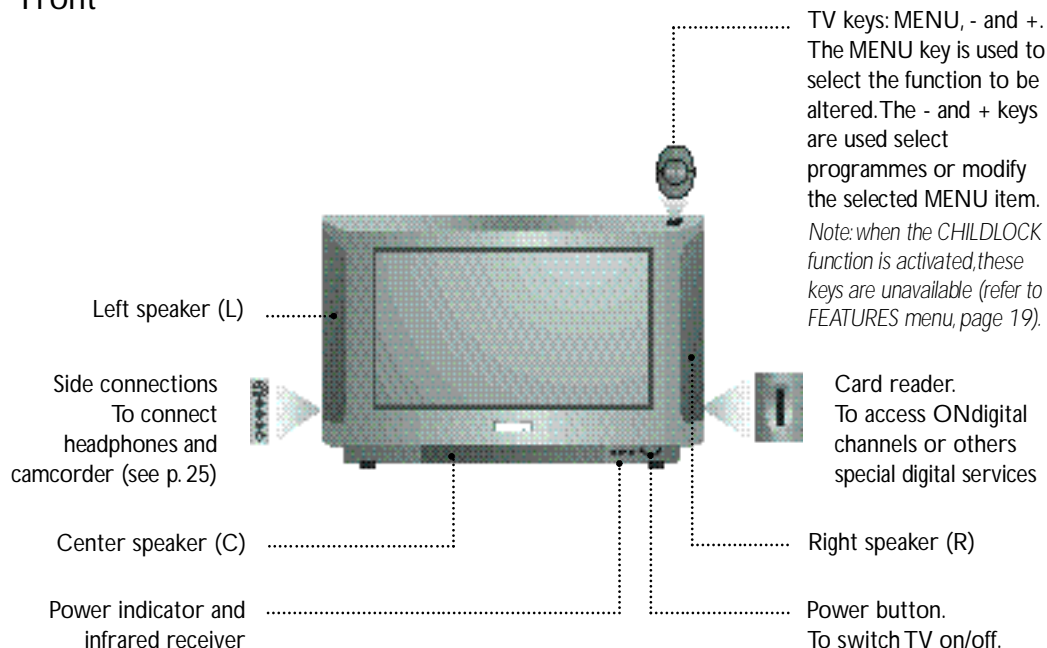
For a quick start up, we advise you to read the Easy installation guide first.

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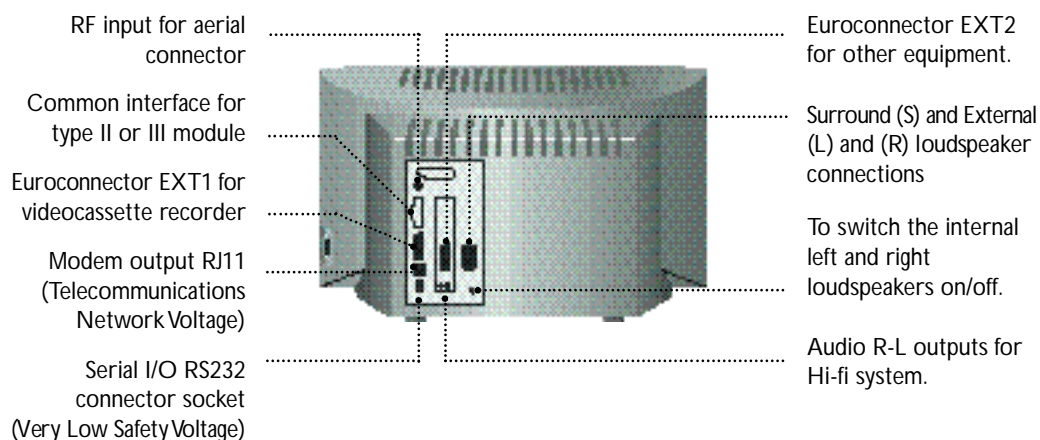
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Presentation of the TV set

Front

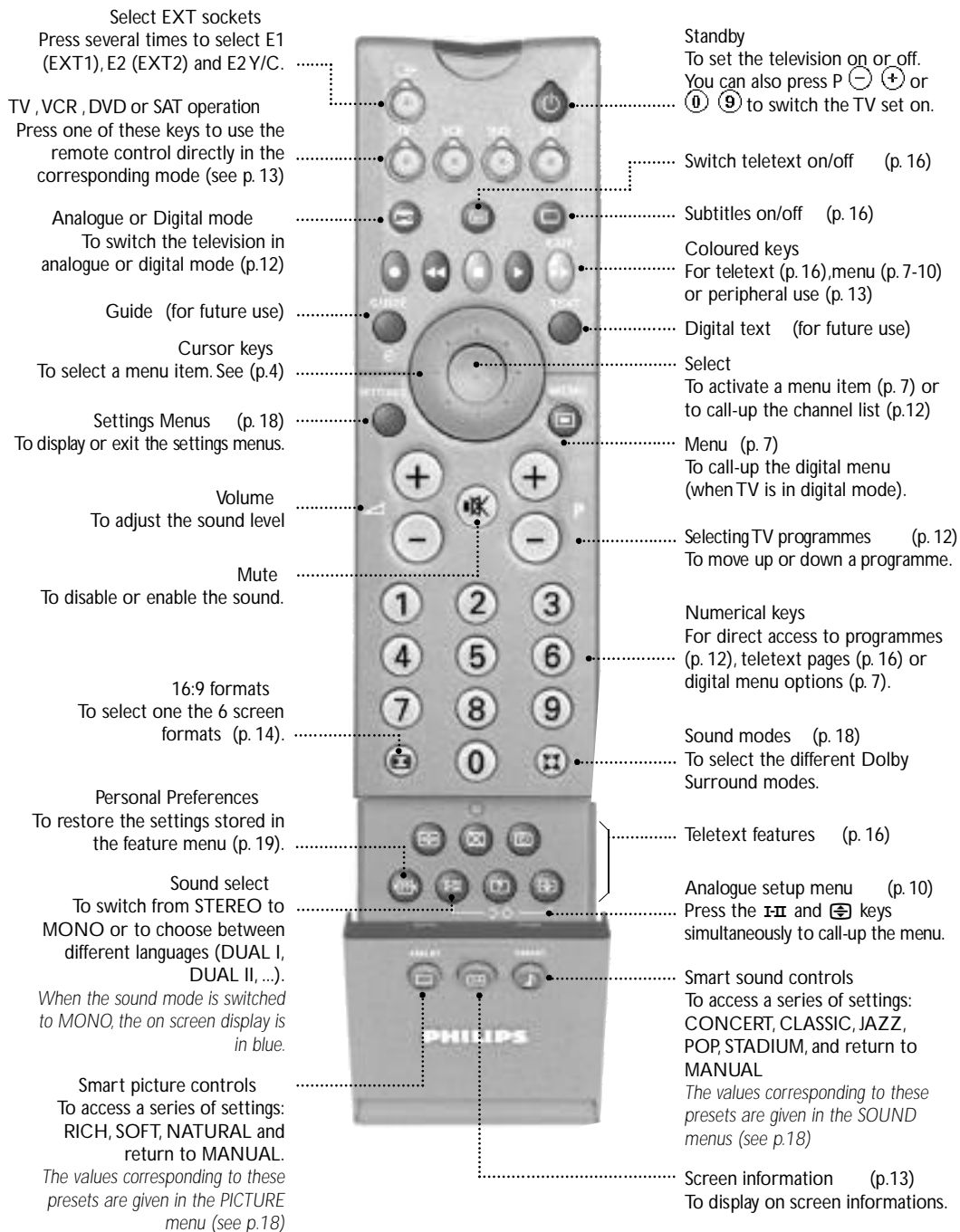


Rear



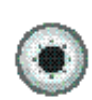
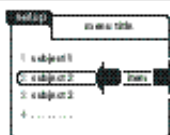
For further details about the connections see page 24.

The remote control keys

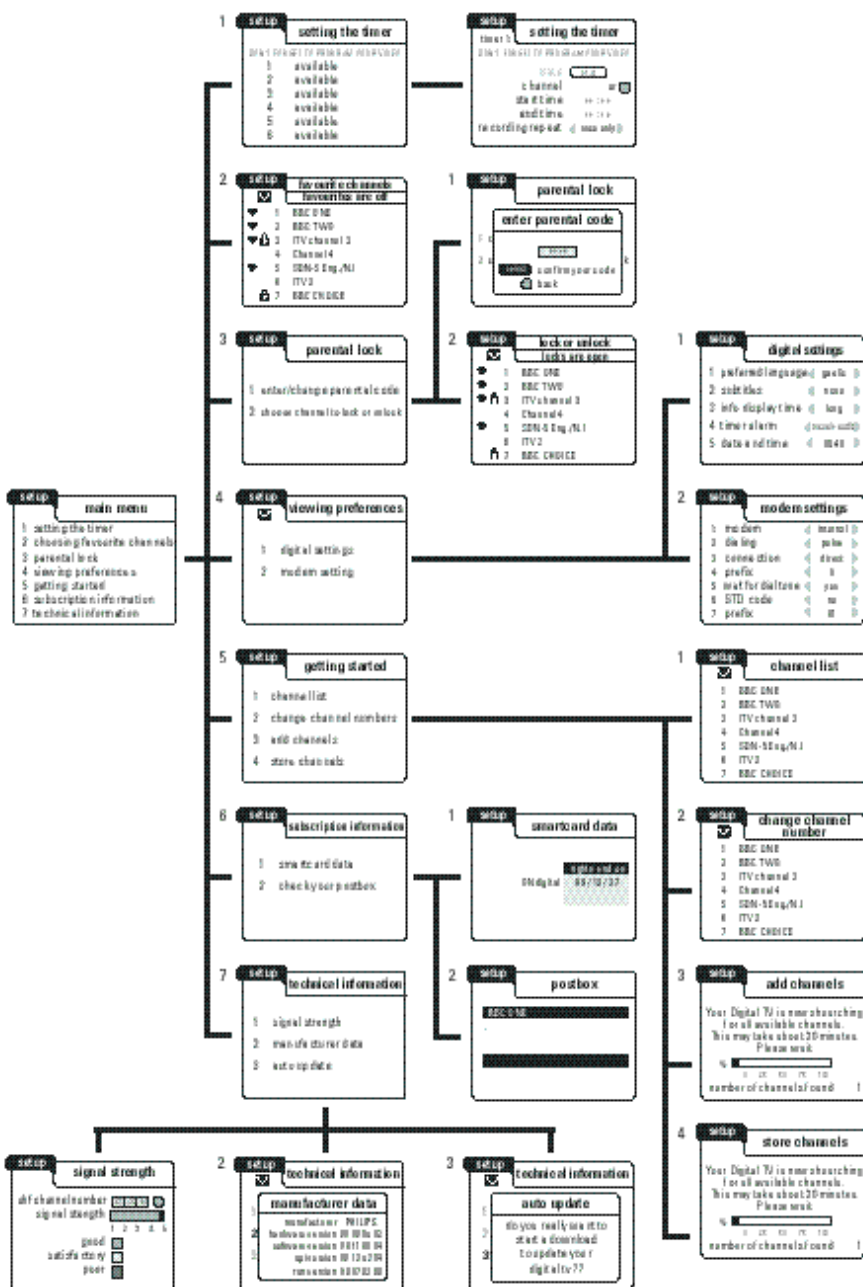
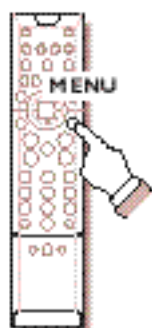


Overview of the menus

Cursor keys
to move
within
the menus



To select



Installing the television set

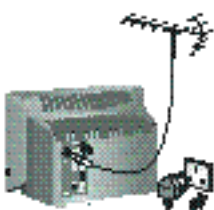
For a first time installation, we would recommend you use the quick start guide provided.




1 Positioning the television set

Place your TV on a solid, stable surface.

To avoid any dangerous situations and operating fault, do not place anything on the TV set and leave a space of at least 5cm around the appliance.



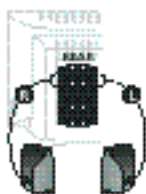
2 Connections

- Insert the aerial plug into the  socket at the rear of the set.

You can improve the picture quality by using the suppressor aerial cable supplied.

- Insert the mains plug into a wall socket (220-240 V / 50 Hz).

For the modem connection, please refer to page 25 (connection not yet required).

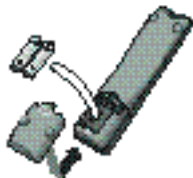


3 Surround loudspeakers

If your TV is fitted with FM cordless surround speakers, please refer to page 26.

Connect the 2 Surround loudspeakers as illustrated opposite.

The loudspeakers should be located at the rear or on either side of the listener (always connect 2 loudspeakers). The positive wire (the one with the black line) to the red loudspeaker connection, the negative wire to the black loudspeaker connection.



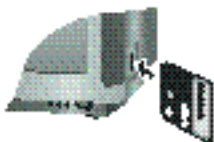
4 Remote control

- Insert the two R6-type batteries (supplied) making sure they are the right way round.

- Press the TV key of the remote control to be sure it is in the TV mode.

A green indicator lights-up around the TV key.

In an effort to help protect the environment, the batteries supplied with this television do not contain mercury or nickel cadmium. Please do not discard your used batteries if you have access to a recycling facility (if in doubt, consult your dealer).




5 Card reader

If you have a Smartcard for ONdigital channels, insert it in the slot as indicate opposite, making sure it is the right way round (gold chip facing you, arrow pointing to the slot).



6 Switching on


- Press the on/off key to switch on the television.

A green indicator comes on and the screen lights up. If the television remains in standby mode, press the P  key on the remote control.

- The first time the TV set is switched on, it will generate the following message: 'Welcome. Press select on your remote to get started'.

Press the  key in the centre of the cursor to activate.

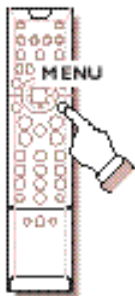
If the message does not appear, the television is in analogue mode.

Press the  key on the remote control to switch the TV from analogue to digital mode.

The TV indicator flashes when you use the remote control.

Tuning-in the digital channels

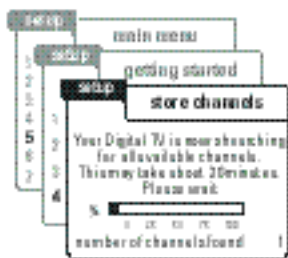
To use the digital menus



This menu enables you to make all the adjustments required to receive digital channels.

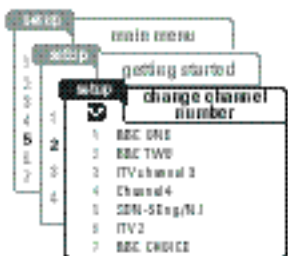
- 1 Press the MENU key on the remote control to display the main menu.
If the main menu does not appear, the television is in analogue mode. Press the (Red) key on the remote control to switch the TV in digital mode.
- 2 Use the cursor key in the up/down, left/right direction (▲▼◀▶) to select a menu item. For more information see page 4.
- 3 Press the (Enter) key in the centre of the cursor to activate.
- 4 Use the RED key or the EXIT key to return or to switch menu off.
You can also use the digital keys (0) to (9) for direct access to the menu item

Store channels



- 1 From the main menu, use the ▼ key to highlight the getting started option and press the (Enter) key in the centre of the cursor to select.
Alternatively, you can press the (5) key for direct access to this option.
- 2 Now select the store channels option (▼ key) and press (Enter).
The television begins to search for all available channels. The search operation takes approximatively 20 minutes. The display on screen will indicate the number of channels that have been found and the percentage of the installation that has been completed.
When complete, the channel list menu is automatically displayed.
- 3 You can check what channels have been found by using the ▲▼ keys to consult the list displayed on the screen.
- 4 Press the EXIT key. The television then displays the current programme being broadcast on channel 1.
If no picture is found, refer to the chapter entitled Tips on page 27.
If you want to stop the search, press the EXIT key.

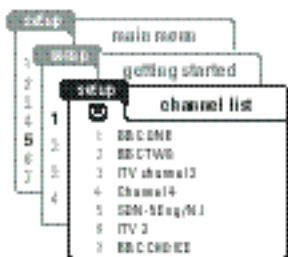
Change channel number



This menu enables you to choose the order in which your channels are stored following initial installation. You can exchange a channel from it's current position to an alternative position.

- 1 Within the getting started menu, press (2) to select change channel numbers. A menu with a complete list of channels currently available is displayed.
- 2 To move a channel to an alternative location, firstly highlight the channel using the ▲▼ keys and press (Enter) to select.
- 3 Now select the new channel location using the ▲▼ keys to highlight the channel number where you want to move the channel to.
- 4 Press the (Enter) key to move the channel to it's new location.
- 5 Repeat operations 2 to 4 to move further channels or press the EXIT key to return to a normal TV picture.

Channel list



This menu enables you to consult the list of all the available channels.

- 1 Within the getting started menu, select channel list and press . A complete list of channels currently available is displayed. Alongside these channels will be symbols to indicate whether they have been selected as your favourite channels (heart symbols) or as locked channels (padlock symbols).
- 2 Use the keys to move through the channel list. Use the keys to move a whole page at a time.
- 3 Lastly, press to view the channel selected in the list or press the RED key to return to the getting started menu.

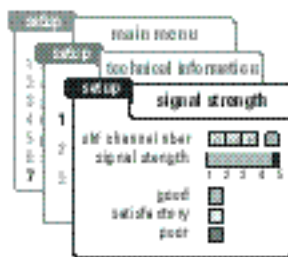
Add channels



This function is normally only used when first installing your television or to search for new digital channels that may have subsequently been launched by the broadcasters.

- 1 Within the getting started menu, press to select add channels. The search begins. The search operation takes a few minutes. Only new channels will be stored and added into the channel list. You can check what channels have been added by looking at the channel list.
- 2 When the search is complete, press the EXIT key to return to a normal TV picture.

Technical information



The options contained within the technical information menu enable you to check the status of your television. This is not something you should need to do, apart from in the unlikely event of a problem occurring with your television.

In this instance, it will help the customer services people to understand the problem and resolve it as quickly as possible.

- 1 From the main Menu, press to select technical information.
- 2 Use the keys to choose a menu item and to select :
 - signal strength: This option allows you to check the strength of the signal you are receiving through your aerial.
 - manufacturer data: This option shows various information about your television, such as its manufacturer and the versions of hardware and software that it contains.
 - auto update: This option can update the software used in your digital TV. This may update certain menus or functions of your TV, as well as add new features, but the general way in which the TV operates will not change. Normally this type of update will be broadcast to your television like any normal programme. You may be asked to start this update process by a member of the Ondigital customer services team. A message will be displayed asking you to confirm that you want to go ahead, as it may change some of the personal settings you have made on your TV, such as locked or favourite channels.
- 3 Follow the on screen instructions.



If you experience difficulties with this function and are a current ONdigital subscriber, please contact ONdigital customer services on 0870 600 9696. If you are not a subscriber but have difficulties, please call the Philips Digital help line on 0870 606 0117.

Viewing preferences

Digital settings

This menu enables you to adjust the digital settings.

- 1 From the main Menu, press 4 to select viewing preferences.
- 2 Press 1 to select digital settings.
- 3 Use the ▲ ▼ keys to select a menu item and ◀ ▶ to adjust :

- preferred language: You can select English, Welsh or Gaelic for your preferred audio language. This adjustment is also available with the (i-ii) key on the remote control.

If your chosen language is not available, the default will be English.

- subtitles: You can select English, Welsh, Gaelic or none. If any of the languages are selected, subtitles will always be displayed when they are available. You will know if subtitles are available for a programme when you look at the on screen channel information.

You can also use the (iii) key to switch the subtitles on and off.

This option also includes a setting for hard of hearing people, indicated by a symbol next to the language. This means that the subtitles will also include descriptive text, such as telling the viewer when there is laughter or applause.

- info display time: You can set the length of time that on-screen information is displayed: off, normal or long.

IMPORTANT: If this option is set to Off, certain menus, including the channel list, will no longer appear on-screen at all.

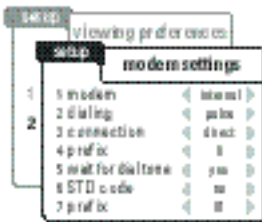
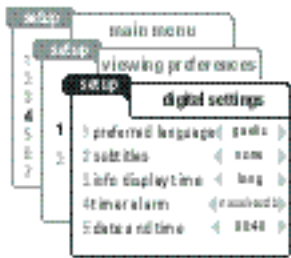
- timer alarm: You can choose either visual or audio & visual. The alarm gives a warning when a programme is about to start for which the timer has been previously set. The TV will display 'RED' and will 'beep'. Alternatively, to continue watching the current channel, press the EXIT key.
- date and time: Your television will automatically set the current time and date by taking information from broadcasters. If you wish to adjust these settings, you can do so manually using this menu.

- 4 Press the RED key to return to the viewing preferences menu.

Modem settings

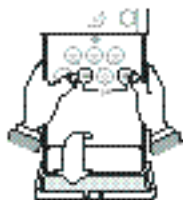
This menu enables you to adjust the modem settings.

- 1 From the Viewing preferences menu, press 2 to select modem settings.
- 2 Use the ▲ ▼ keys to select a menu item and ◀ ▶ to adjust. Normally the default values do not need to be changed. Your service provider will give you more details if necessary.
- 3 Press the EXIT key to leave the menus.



Tuning-in the analogue channels

To call up the ANALOGUE SETUP menu:



- 1 Use the **TV** key on the remote control to switch the TV to analogue mode.
- 2 Open the door of the remote control and press the **ANALOGUE** and **OK** keys at the same time. The ANALOGUE SETUP menu appears on the screen. There are two ways the analogue channels can be tuned in : automatic store or manual store (tuning - in channel by channel).

Automatic store



Carry out the above operations, then:

- 3 Select **AUTO STORE** (▼ key) and press **OK** in the centre of the cursor. The search begins. The search operation takes a few minutes. When the search is complete, the ANALOGUE SETUP menu reappears automatically.

If the transmitter or cable network broadcasts an automatic sort signal, the programmes are correctly numbered. If this is not the case, the TV channels have been numbered in the order in which they were found. Use the **SORT** menu to re-number the programmes.

To exit or interrupt the search, press the red **STOP** key.

If no picture is found, refer to the chapter entitled *Tips* on p. 27.

Manual store



This menu allows you to store each programme manually.

From the ANALOGUE SETUP menu (**TV** and **ANALOGUE** keys)

- 1 Select **MANUAL STORE** (▼ key) and press **OK**. The MANUAL STORE menu appears.
- 2 Select **CHANNEL/FREQUENCY**. Use the **◀▶** keys to select the tuning mode : **FREQ.** (frequency search) or **CHAN.C** and **CHAN.S** (channel search if you know the channel numbers on which the programmes are broadcast).
- 3 Select **SYSTEM** (▼). Use **◀▶** to select **EUROPE**, **EUR. W**, **EUR. E**, or **UK**. Selecting **EUROPE** guarantees automatic detection, with the exception of certain cases of poor reception where **EUR. W (BG)**, **EUR. E (DK)** or **UK (I)** should be selected.

For more information see glossary on p. 28.

- 4 Select **SEARCH** (▼) and press **OK**. The search begins. As soon as a programme is found, the search will stop. If you know the frequency (or the channel) of the programme required, enter its number directly using the **0-9** keys and go to chapter 5.

If no programme is found, refer to the *Tips* chapter on page 27).

- 5 If reception is un-satisfactory, select **FINE TUNE** and hold down key **◀** or **▶**.
- 6 Select **PR. NUMBER** (▼) and use the **◀▶** or **0-9** keys to enter the desired channel number.
- 7 Select **STORE** (▼) and press **OK**. The OK message appears.

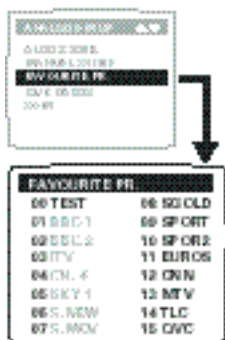
The programme and its name (if it has one) are stored.

Repeat operations 4, 6, 7 for each programme to be stored.

To exit: press the red **STOP** key twice.

Favourite channels

This menu allows you to choose which analogue channels can be accessed using the \odot P \oplus keys on the remote control.



From the ANALOGUE SETUP menu (F1 and F2 keys):

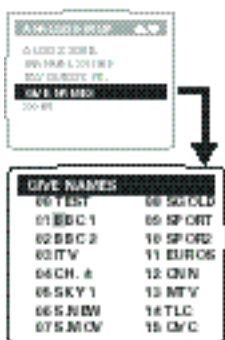
- 1 Select FAVOURITE PRG (\blacktriangledown) and press \odot in the centre of the cursor. The FAVOURITE PR. menu appears. All programmes found during the search are automatically included in the menu and appear in green.
- 2 Use the \blacktriangledown \blacktriangle keys to select any programme you wish to remove from the list of favourites.
- 3 Press \odot to de-select (or select) a programme. The de-selected programmes appear in white, the selected programmes appear in green. Only the programmes and EXT sockets that are displayed in green in this menu can be accessed using the \odot P \oplus keys.

Warning: If all programmes are de-selected, the \odot P \oplus keys will cease to function.

To return to the ANALOGUE SETUP menu: press the red RECALL key once.
To exit: press the red EXIT key twice.

Give names

This menu allows you to name and modify names for analogue channels and EXT sockets.

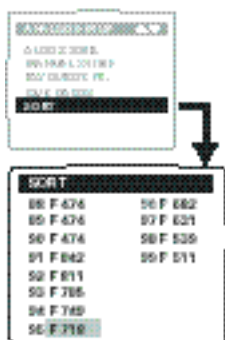


- 1 From the ANALOGUE SETUP menu, select GIVE NAMES (\blacktriangledown) and press A . The GIVE NAMES menu appears with the list of analogue channels found automatically during installation. Certain channels may not be named (the signal needed for identification is not always transmitted) or may be inappropriately named (only 5 characters are displayed).
- 2 Use the \odot P \oplus keys to select the required channel.
- 3 Use the \blacktriangleleft \blacktriangleright keys to move to the area in which the channel name appears (up to 5 characters). A yellow rectangle appears in the chosen area.
- 4 Use the \blacktriangledown \blacktriangle keys to select or modify the character.
- 5 Use the \odot P \oplus keys to move to the next channel.

To return to the ANALOGUE SETUP menu: press the red RECALL key once.
To exit: press the red EXIT key twice.

Sort

This menu allows you to re-number the analogue channels in the order you prefer.



- 1 From the ANALOGUE SETUP menu, select SORT (\blacktriangledown) and press \odot . The SORT menu appears. The menu provides a list of all the programme numbers with their names (where provided), or frequencies/channels.
- 2 Using the \blacktriangledown \blacktriangle keys, select the programme to be re-numbered. If, for example, you want to re-number programme 12 as 8: Select 12 using \blacktriangledown \blacktriangle keys (or type 1 2).
- 3 The number chosen (12) will appear in blue in the list.
- 4 Press the \odot key to select. A yellow rectangle appears on the name of the programme (or on its frequency or channel).
- 5 Enter the new number using keys 0 to 9. In our example, type 8. Programme 08 appears. The number (08) appears in blue in the list.
- 6 Press the \odot key to select.

The exchange is now complete. In our example, programme No. 12 has become No. 08 (and programme No. 08 has become No. 12).

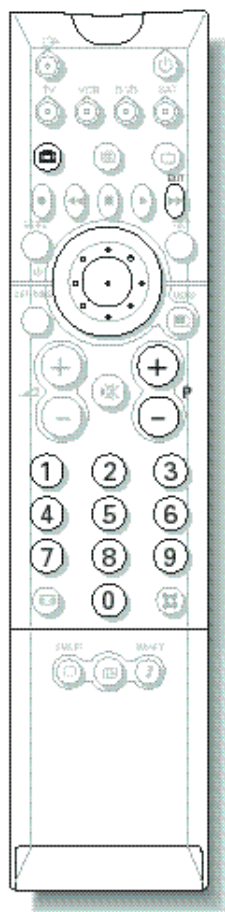
Repeat operations 2 to 6 for as many programmes as you wish to re-number.

To exit from the

ANALOGUE SETUP

menu: Press the red EXIT key twice.

Using the basic functions



Analogue or Digital mode

To receive TV channels, your television is equipped with 2 different receivers, one is for digital channels, the other is for analogue channels. The key of the remote control enables you to switch the TV between analogue or digital mode. 'DIGITAL' appears briefly on the screen when you switch to digital mode.

For more information, see glossary page 28.

Selecting analogue channels

To select an analogue channel, you can either use the number keys to or the keys. You have access to 100 channels (0 to 99). For a 2 digit number, the second digit must be entered before the dash disappears.

IMPORTANT: only channels activated in the FAVOURITE PRGS menu can be accessed with the keys (see p.11).

Selecting digital channels

There are three ways to select digital channels on your television. In all cases, the receiver will wait approximately 1 second before changing channels after the selection has been made.

Using number keys

When using the number keys, a channel number of up to 3 digits can be entered. To select a multiple digit channel number, simply press the other number keys immediately after the first.

Important: Using the number keys will enable you to select ALL channels, regardless of whether they have been selected as your favourite channels.

Using the channel list

The channel list is an alternative way of viewing what channels are available on your digital receiver. The list will be displayed over the programme you are currently watching and will also indicate which channels have been selected as your favourites or have been locked.


- ❶ To display the Channel list, press the key whilst viewing any channel. The display will show a total of 6 channels at a time, along with symbols that identify the status of particular channels, such as favourite and/or locked channel. The channel you are currently viewing will be highlighted on the list.
- ❷ To move through the Channel list, press the keys indicated on screen. The selected channel will be highlighted. When you reach the bottom of one screen, continue to press the key to scroll to the next screen. Alternatively, press the keys to move a whole page at a time.
- ❸ At any stage, you can press the EXIT key to remove the channel list from the screen, or alternatively, with the required channel highlighted, you can change to that channel by pressing the key.

Using the P / P keys


- In normal viewing mode, pressing P or P selects the next or previous channel to the one you are currently watching.
- In favourite channel mode, pressing P or P selects the next or previous channel to the one you are currently watching only from those channels in the favourite list, for more information see page 23.

Screen information

Analogue channels





Pressing the  key enables you to display the channel number, name, 16:9 mode and sound mode for a few seconds.

Digital channels

Press the  key to display or exit the on-screen tv guide.

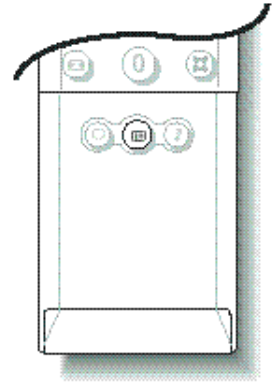
The top half of the screen shows the channel number, channel name, the name of the current programme and the time.

The bottom half of the screen initially shows the same information and additionally, the name and start time of the current and next programme. It also shows options to view more information.

- The  or  to  keys give access to programme information for other channels, without changing the channel you are watching. The top part of the screen will continue to display information for the channel you are watching.
- The YELLOW or BLUE key give access to additional information about the current or next programme. Press the same coloured key a second time to remove it.
- If you want to change the channels whilst these menus are displayed, press the SELECT key  when the bottom half of the screen is showing programme information that you want to watch.

Note: The channel cannot be changed however if you are viewing information for the next programme.
















The lower section of the on-screen tv guide also indicates whether subtitles are available on a particular programme, whether it is broadcast in mono or stereo and also the type of programme. (such as film, drama or comedy.)



TV, VCR, DVD or SAT operation

The remote control enables you to operate other equipments like a videorecorder, a digital versatile disk driver (DVD) or a satellite receiver.

- 1 Press the TV, VCR, DVD or SAT key to switch the remote control to the corresponding mode. Each time a key is pressed, the TV, VCR, DVD or SAT key lights up in green reminding you which mode is selected.
- 2 Press one of the following key to access the desired function (when available on the device) :

-  external selection,
-  standby,
-  teletext,
-  subtitles,
-  record,
-  rewind,
-  stop,
-  play,
-  fast forward,
-  programming,
- SETTINGS to call a menu,
- Cursor to select a menu item,
-  SELECT or OK feature (in the center of the cursor),
-  programme selection,
-  enter a number or a programme number,
-  screen format,
-  screen information.

These keys function with devices from our range of products which use the RC5 signalling standard.



16:9 Formats

The pictures you receive may be transmitted in 16:9 format (wide screen) or 4:3 format (conventional screen). 4:3 pictures sometimes have a black band at the top and bottom of the screen (letterbox format). This function allows you to optimise the picture display on screen.

Automatic switching

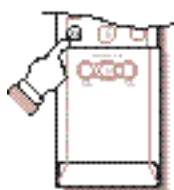
This TV set is also equipped with automatic switching which will select the correct-screen format, provided the specific signals are transmitted with the programmes.

This automatic format can also be modified manually.

Using the different screen formats

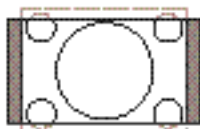
Press the  key to select the different modes:

4:3, ZOOM 14:9, ZOOM 16:9, SUBTITLE ZOOM, SUPER ZOOM and WIDE SCREEN.



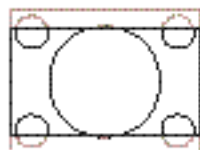
4:3 Mode

The picture is reproduced in 4:3 format and a black band is displayed on either side of the picture.



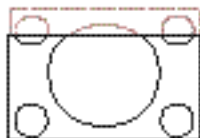
ZOOM 14:9 Mode

The picture is enlarged to 14:9 format, a thin black band remains on both sides of the picture.



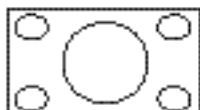
ZOOM 16:9 Mode

The picture is enlarged to 16:9 format. This mode is recommended when displaying pictures which have black bands at the top and bottom (letterbox format).



SUBTITLE ZOOM Mode

This mode is used to display 4:3 pictures using the full surface of the screen leaving the sub-titles visible.



SUPER ZOOM Mode

This mode is used to display 4:3 pictures using the full surface of the screen by enlarging the sides of the picture.



WIDE SCREEN Mode

This mode restores the correct proportions of pictures transmitted in 16:9 using full screen display.

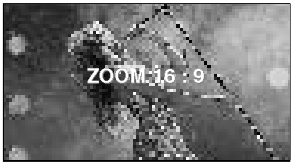
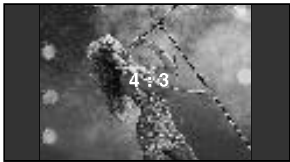
Note: If you display a 4:3 picture in this mode, it will be enlarged horizontally.

Selecting the correct mode

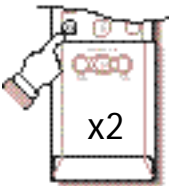
Different modes can be selected to suit different picture formats, use the following diagrams as a guide to which mode to use.

1 4:3 Picture

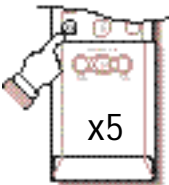
There are 4 possible modes for this type of picture



2 4:3 Picture Letterbox



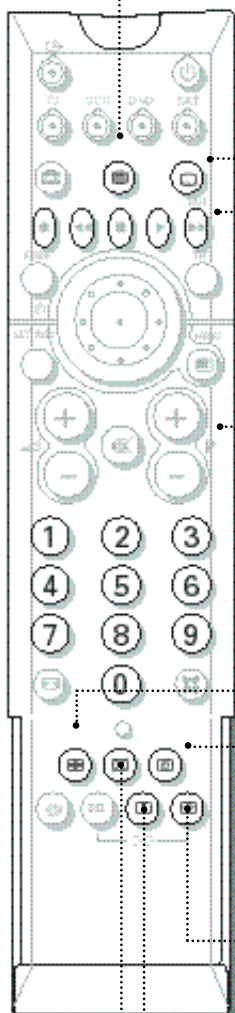
3 16:9 Picture



Teletext

Teletext is an information system broadcast on certain TV channels which can be used like a newspaper. It can also provide subtitles for people with hearing difficulties or those unfamiliar with the programme language. This service is available on digital and analog channels in a number of different ways.

When a TV channel has teletext embedded in the video information, the following controls can be used to access the teletext irrespective of whether it is an analogue or a digital channel.



Switch teletext on / off

To call up or exit from teletext. The main index page presents a list of items to which you have access. Each item has a corresponding 3 digit page number.

If the channel selected does not broadcast teletext, the message P100 is displayed and the screen stays black (in this case, exit from teletext and select another channel).

Subtitles (teletext must be switched off)

To directly display or cancel the subtitles (if available).

For the language choice, refer to the receiver settings menu (p. 9).

Direct access to an item

Coloured zones are displayed at the bottom of the screen. The 4 coloured keys are used to access the items or their corresponding pages.


The coloured zones flash when the page or the subject are not yet available

Selecting a teletext page

Use keys \ominus P \oplus or $\textcircled{0}$ to $\textcircled{9}$ to enter the page number required. E.g.: page 120, type $\textcircled{1}$ $\textcircled{2}$ $\textcircled{0}$. The number is displayed in the top left-hand corner of the screen, the page counter starts searching and then the page is displayed. Repeat the procedure to consult another page.

If $> xxx <$ flashes briefly or the counter continues searching, this means that the selected page is not broadcast. If this is the case, choose another number.

Stop the sequence of sub-pages

Certain pages have sub-pages which follow on automatically. Pressing this key to disable and enable the sequence of sub-pages. The message  appears in the top left-hand corner of the screen when the sequence is disabled.

Time display (teletext must be switched off)

To display the time in the top right-hand corner of the screen.
This function only exists if the programme broadcasts teletext.


Enlarging a page

Press this key to display the upper part, the lower part and then to return to the normal page size.

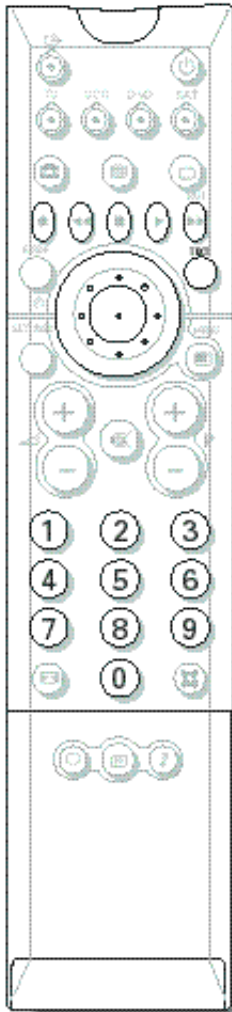
Reveal

To reveal / conceal hidden information (solutions to games).

Temporary interruption of the display

To stop or return to the teletext display. The  symbol is displayed and the TV programme reappears on the screen. This function allows you to wait when the search for a page takes a long time.

Selection of digital teletext



In addition to the teletext already described digital terrestrial television also gives access to a new and vastly improved digital teletext service, which includes high quality text and graphics as well as advanced navigation options.

These services will become available in two ways depending on whether the digital channel is dedicated to providing a digital text service, or the digital channel provides digital teletext with digital programmes.

Dedicated Digital Teletext

These dedicated teletext services will appear on their own dedicated channel numbers which you select like any other channel.

Check the channel list to see which channels these services are on.

- ❶ To view a digital teletext service, select a dedicated teletext channel.
- ❷ Individual teletext pages may now be selected by using the numeric, coloured or cursor keys.
- ❸ When you have finished watching teletext, select a different channel in the normal way.

Digital Programmes with Digital Text

To view digital teletext that is transmitted with digital programmes;

- ❶ Select a channel that is broadcasting digital text.
- ❷ Press the digital TEXT button on your remote.
- ❸ Use the numeric and coloured keys to select the different text pages.
- ❹ Press the digital TEXT button to return to watching the programme.

Adjusting the settings

To display a settings menu using the cursor keys



Press SETTINGS.



Select the PICTURE, SOUND or FEATURES.



Press . The menu appears.



Use the ▼ ▲ keys to select an adjustment and ◀ ▶ to make that adjustment.
The red key is used to exit from the menu displayed.

Picture menu



You can adjust BRIGHTNESS, COLOUR, CONTRAST and :

- SHARPNESS: modifies the clarity of the picture,
- TINT: adjusts the colour temperature of the picture from COOL (blue white) to WARM (red white),
- NOISE REDUCT.: useful in case of poor reception to reduce the picture noise.
- PICTURE TILT (only on certain models) :this adjustment compensates for regional variations in the earth's magnetic field.

Sound menu



You can select SOUND MODE, SOUND LEVEL, EQUALIZER, SPATIAL and HEADPHONE.

Sound mode

This menu allows you to select the different Dolby Surround modes.

- 1 Select SOUND MODE (▼ key) and press .
- 2 Use the ◀ ▶ keys to select the NORMAL, DOLBY PRO LOGIC, DOLBY 3 STEREO or HALL SURROUND sound modes.

For each setting, the active loudspeakers are displayed on screen.

The sound modes may also be accessed using the key on the remote control.

- NORMAL: The left (L) and right (R) channels are reproduced on the left and right loudspeakers of the TV set.
- DOLBY PRO LOGIC* (with Dolby Surround sound sources): as well as the left (L) and right (R) channels, a centre channel (C) and a rear channel comprising 2 loudspeakers (S), reproduce the Dolby Pro Logic sound. This mode is used when a film or programme has been recorded or encoded in Dolby Surround sound. These films or programmes are always indicated by the symbol .
- DOLBY 3 STEREO (with Stereo sources): Dolby 3 Stereo sound is produced only on the left (L), right (R) and centre (C) channels.
- HALL SURROUND (with mono or Stereo sources): The left (L) and right (R) channels are reproduced on the left and right loudspeakers of the TV set and on the rear channel (S), creating a "Hall Surround" ambient effect. This mode is recommended for broadcasts that are not encoded in Dolby Surround if you wish to use a rear channel.

To exit from the menu : Press the red key.

Dolby Pro Logic and Dolby 3 Stereo modes are not recommended for mono transmissions (only the central channel is used).

* Manufactured under license from Dolby Laboratories Licensing Corporation.

"Dolby" "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

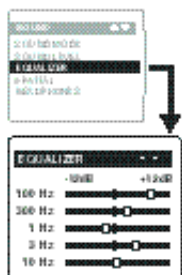


Sound level

This menu is used to balance the volume between the loudspeakers.

- 1 Select **SOUND LEVEL** (▼ key) and press **OK**.
The **SOUND LEVEL** menu appears.
- 2 Select **TEST** (▼ key) and press **OK**. A continuous sound is emitted from each channel in turn: left, right, centre and rear channel.
- 3 Use the ◀ ▶ keys to adjust the level of each channel independently: **BALANCE**, **CENTRE** and **REAR**. The sequence stops while the level is being changed and then automatically starts up again.
To stop the test : Press the red **STOP** key.

Levels may also be adjusted without using the test signal.



Equalizer

- 1 Select **EQUALIZER** (▼ key) and press **OK**.
The **EQUALIZER** menu appears.
- 2 Use the ▼ ▲ keys to select each frequency (from bass: 100 Hz to treble: 10 kHz)
- 3 Use the ◀ ▶ keys to adjust the level.

*You can view the presets corresponding to the smart sound controls by pressing the **PRESET** key on the remote control.*

To exit from the menu: Press the red **STOP** key.



Spatial

This setting increases the stereo effect giving the impression that the loudspeakers are spaced further apart.

Headphones

This setting allows the volume of the headphones to be adjusted independently from the TV set.

To exit from the menu: Press the red **STOP** key.

Features menu



You can select **CHILDLOCK**, **STORE PP**, **TIMERS** and **CORDLESS** (only applicable to some sets)

Childlock

Set to **ON** to lock the television keys. Switch off the TV and hide the remote control. The TV cannot now be used (only the remote control will enable you to switch the TV on).

To cancel: reset the **CHILDLOCK** to **OFF**.

Store PP

This function allows you to store your own picture and sound adjustments. The adjustments are restored every time your set is switched on, or by pressing the **STORE PP** key on your remote control.

- 1 First carry out your **PICTURE** and **SOUND** adjustments and adjust the volume and then:
- 2 Display the **FEATURES** menu, select **STORE PP** (▼ key) and press **OK**.
The message **OK** appears. All the **PICTURE** and **SOUND** menu adjustments as well as the volume are stored.

Features menu (continuation)

Timers

Select TIMERS (▼ key) and press ⏻. The TIMERS menu appears.



Sleeptimer

Use the ◀ ▶ keys to enter the length of time after which the TV will switch to standby mode (up to 180 mins).

To cancel: Switch SLEEPTIMER back to 0.

Press the ⏻ key to display the length of time remaining.

Programmed Switch on

The following adjustments allow you to program the TV to automatically switch on with the last viewed channel.

Select the adjustments using ▼ key:

- 1 **CLOCK**: to view the current clock (it is not possible to adjust it in this menu).
*If you want to modify the clock, please refer to the **digital settings** menu, page 9.*
- 2 **START TIME**: enter the time at which you wish the TV to switch on.
- 3 **STOP TIME**: enter the stop time (automatic stop).
- 4 **DAILY**: Set this option to ON if you want the programming to apply every day.
- 5 **TIMER ACTIVE** Set this option to ON to activate the timer.
- 6 Press ⏻ to set the TV to standby. It will automatically switch on at the time programmed.

To cancel: Switch **TIMER ACTIVE** back to OFF.

N.B.: For programming to function correctly do not use the on/off key on the front of the TV set to switch the TV off.

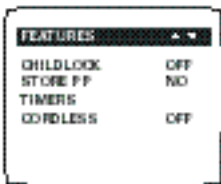
*The combination of the **CHILD LOCK** and **TIMERS** functions may be used to limit the length of time your television is in use, for example, by your children.*

Cordless (only available on certain versions)

To make use of the wireless surround loudspeakers, use the ◀ ▶ key to select the same channel as you selected on the active loudspeakers (channel 6 has been selected as the factory default).

If you should get interferences from external RF (wireless) equipment such as a headphone, RF audio, remote controls for light, ... it may be necessary to shift to another channel. In practice, only 3 or 4 channels are available because a step of at least 2 channels are necessary to have enough separation.

Always be sure that the active speakers and the cordless setting are switched to the same channel. Otherwise no sound or only distorted sound will be heard.



Additional digital functions

Setting the timer (for video recording)

This function enables you to program the television to provide a digital channel for recording. Your video recorder can then record a digital program.

Important: The VCR must be connected to EXT1.

Please note that it is NOT possible to record from one digital channel and watch an alternative digital channel at the same time. You can however record a digital channel and watch an analogue channel on your TV, or vice versa.



- 1 Press the MENU key to display the Main Menu.
- 2 Press 1 to select setting the timer. The screen shows a list of 8 program slots, each one indicating that it is either free for programming, or that it has a programme already stored in it.
- 3 Select a free row using the ▲▼ keys and press ○. The timer screen is displayed.
- 4 Use the ▲▼ keys to select each option:
 - date: Use the numeric keys to enter the date (4 digits), for example to enter 8th February, press 0802.
 - channel number: enter the channel number you want to record from. Alternatively, if you do not know the number of the channel you want to record, you can choose from the channel list by pressing the GREEN key as indicated. The channel list will then be displayed over the setting the timer menu. Use the ▲▼ keys to find the channel you require and press ○.
 - start time: enter the start time, preferably several minutes before you set your video recorder to start recording (e.g.: for 8.25pm enter 2025). You can correct the time with the ◀▶ keys.
 - end time: enter the time you want your receiver to switch off, preferably after your video will have stopped recording.
There is a 5 minute overlap on the start and stop times for example a start time of 16:30 will start at 16:25 to allow for a broadcasting margin.
 - recording repeat: use the ▲▼ keys to select the frequency of when you want the television to switch on. You can choose Once only (one off programme), daily (every weekday) or weekly.
- 5 With all the details entered, press the select key ○ to save the settings. Please remember you still need to program your video recorder.
- 6 If you have finished watching television, you must leave it in standby in order for the timer settings to be activated. The red standby indicator will then flash when a timer recording is in progress.
 - If you wish to continue watching another digital channels after setting a timer, you can do so by changing channels in the normal way.
 - If you are watching another digital channel when the timer is due to start, the timer alarm will sound and present you with the option of switching channels or continuing to watch the current channel.
 - You can also watch analogue channels while recording digital channels. Press the B key on the remote control to switch the TV to analogue mode.

For full details on the alarm options, see page 9.

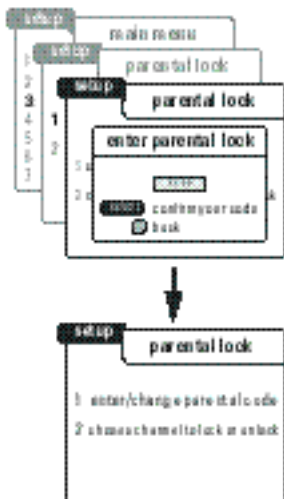
Parental lock

This feature enables you to limit the access to any particular channel by blocking it. Your unique code must then be entered before you can watch a locked channel.

Remark: this function is only accessible with a smartcard.

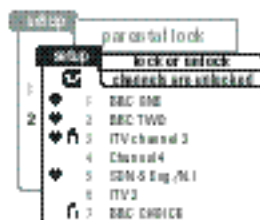
Entering your parental code for the first time

- 1 Press the MENU key to display the Main menu.
Please ensure your smartcard is inserted in the slot.
- 2 Press (3) to select the parental lock option then (1) to select the enter parental lock menu. The first time this option is selected, you will be prompted to choose your own code before you can lock a channel.
- 3 Input your 4 digit code, using the numeric keys (0) / (9) (e.g. for code 1234, type (1)(2)(3)(4)). If you enter an incorrect number, you can use the ◀ key to move back one space and make an amendment.
Important: please keep a note of the number you select for future reference.
- 4 Press the (0) key to store the code then the RED key to return to the parental lock menu. The parental lock menu is now available.



To lock or unlock channels

- 1 From the parental Lock menu, press (2) then enter your parental code. Press (0) and a complete list of all available channels is displayed.
- 3 Use the ▲▼ keys to highlight the channels that you wish to lock or unlock and press (0).
A 'closed padlock' symbol appears alongside the locked channels.
- 4 Pressing the GREEN key as indicated on-screen will open or close the locks. The top of the screen will indicate whether the channels are locked or not.
- 5 Finally, press the EXIT key to return you to a normal TV picture.



To temporarily unlock all channels:

If you temporarily want to unlock all your locked channels, this can be done from the choose channels to lock or unlock menu.

- 1 Press MENU then (3) key followed by (2) key.
- 2 Enter your current code when requested.
- 3 With the channel list displayed press the GREEN key, this will open all the padlocks. Pressing this key again will close the padlocks again.

Important: don't forget to lock your channels again after unlocking them all in this manner

Watching your locked channels

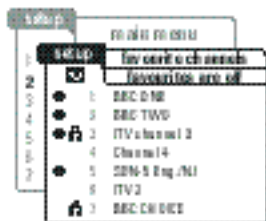
When selecting a channel that has been locked, the current channel remains displayed and you will be prompted to press (0) and enter your chosen code. Enter your 4 digit code and press (0) to view the channel.

To change your parental code

In order to change your parental code, you will need to enter the current code before a new code can be entered.

- 1 From the Parental lock menu, press (1) to select Change parental code.
- 2 Enter your current code and press (0) to confirm. If you entered the code correctly, it will be cleared and the screen will prompt the entry of a new code.
- 3 Enter your new code in the same way and press (0) to confirm.
Remember to make a note of your new code as you enter it.
- 4 Lastly, press the EXIT key to return to normal operation.

Choosing favourite channels



This function enables you to select channels that become your favourites, and are therefore easier and faster to access. When using the \odot P \oplus keys to change channels when the favourite mode is on, only those identified as your favourite channels will be available for selection. You can view a list of your chosen favourite channels by selecting the channel list or the favourite channels menu.

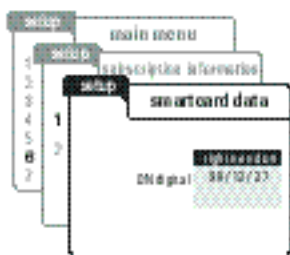
- 1 Press the MENU key to display the main menu.
- 2 Press the \odot key to select the choosing favourite channels option.
- 3 To add channels into your list of favourites highlight the channel you want to select using the \blacktriangle \blacktriangledown keys. Then press the \odot key to display the favourite channel symbol alongside the channel name.
- 4 Repeat these steps for any other channel that you wish to select as a favourite.

Note: In the diagram channels 1, 2, 3 and 5 have been selected as favourites. With the favourite mode on, the \blacktriangle \blacktriangledown keys will only select your favourite channels.

- 5 To remove any of these channels from your favourites list, use the \blacktriangle \blacktriangledown keys to highlight the channel that you want to remove, and press \odot .
- 6 After you have selected or de-selected all your favourites, press the GREEN key as indicated to activate the favourite mode. The favourite mode status is displayed on the right top part of the menu as "favourites are on" or "favourites are off".

The TV must now be put into standby to memorise the favourite channels you have set.

Subscription information



Smartcard data

This option enables you to display the current expiry date of your subscription account.

- 1 From the main menu, press \odot to select subscription information.
- 2 Press \odot to select the smartcard data option. The current expiry date of your subscription account is displayed.
- 3 To exit, press the MENU key or the RED key to step backwards through the menu.

Check your postbox

Your television has the ability to display messages that have been sent to you by a broadcaster, perhaps about a special offer or your current subscription package. You will be advised when a message is waiting to be read by the indication 'Post' appearing on the screen when switching the television to digital mode.

- 1 From the main menu, press \odot to select subscription information.
- 2 Press \odot to select the check your postbox option. The current messages is displayed, the most recent message appears at the top of the screen, with previous messages below.
- 3 If you want to check previous messages, you can scroll around the screen by pressing the \blacktriangle \blacktriangledown keys.
- 4 To exit, press the MENU key or the RED key to step backwards through the menu.

NOTE: Messages cannot be manually deleted, but the oldest messages are automatically removed as new messages are received.

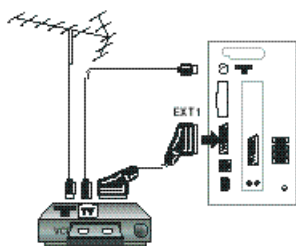
Connecting peripheral equipment

The television has 2 external sockets situated at the back of the set (EXT1 and EXT2).

The EXT1 socket has audio and video inputs/outputs and RGB inputs.

The EXT2 socket has audio and video inputs/outputs and S-VHS inputs.

Video recorder



Video recorder (only)

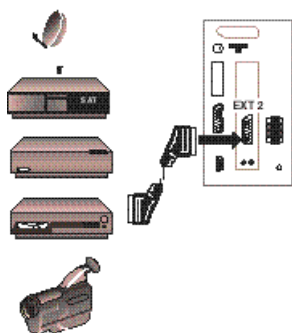
Carry out the connections featured opposite. Use a good quality euroconnector cable.

If your video recorder does not have a euroconnector socket, the only connection possible is via the aerial cable. You will therefore need to tune in your video recorder's test signal and assign it programme number 0 (refer to manual store, p. 5).

To reproduce the video recorder picture, press 0.

Important: *if your video recorder does not have A/V connections, It will not be possible to record digital channels.*

Other equipment connected to the scart




Satellite receiver, decoder, CDV, games, etc.

Carry out the connections featured opposite.

Connecting your equipment to EXT2.

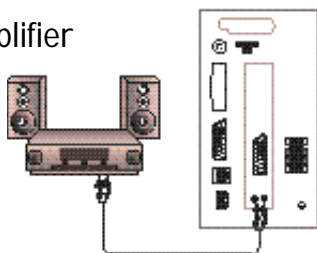


To select connected equipment

Press the  key to select E1 (EXT1), E2 (EXT2) or E2 Y/C for S-VHS or Hi-8 equipment

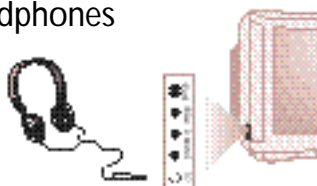
Most equipment (decoder, video recorder) carries out the switching itself.

Amplifier



To connect to a hi-fi system, use an audio connection cable and connect the "L" and "R" outputs on the TV set to the "AUDIO IN" "L" and "R" input on your hi-fi amplifier.

Headphones




The headphones socket is situated on the left-hand side of the TV set.


To adjust headphone volume, use the HEADPHONE setting in the SOUND menu (p. 7).

Side connections

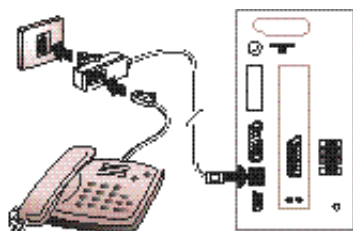


Carry out the connections featured opposite.

Using the  key, select E2 (EXT2) for a VHS or 8mm camcorder and E2 Y/C for an S-VHS or Hi-8 camcorder.

For a mono sound camcorder, connect the sound signal to the AUDIO L input. Use the  key on the remote control to reproduce the sound on the left and right loudspeakers of the television.

Modem



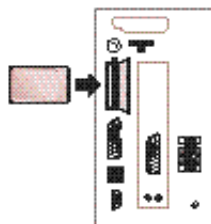
Your television is equipped with an integrated modem for digital information transfer via your telephone line.

Connect a telephone cable as illustrated opposite.

It is not necessary to make this connection until notified by your service provider.

Integrated telephone modem type V22bis, error correction V42 and dialing mode DTMF or pulse.

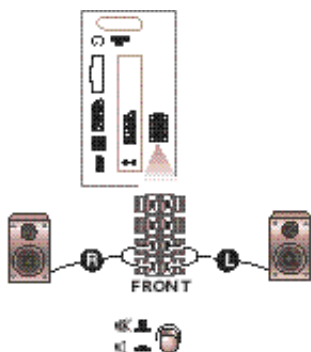
Common interface




A common interface is available for future use.

Your service provider will notify you when new services or options become available.

External loudspeakers

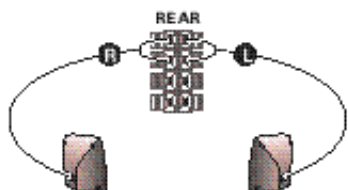


For improved sound, you can connect 2 external L and R loudspeakers in the place of the left and right loudspeakers on the TV set.

Connect as shown opposite and then switch off the internal loudspeakers on the TV set. (button in the  position)

The impedance of the loudspeakers must be between 8 and 16 Ohms.

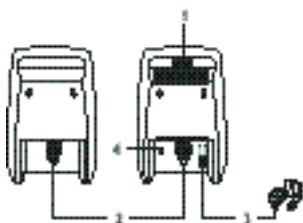
Surround loudspeakers



Connect the 2 Surround loudspeakers as illustrated opposite. The loudspeakers should be located at the rear or on either side of the listening zone (always connect 2 loudspeakers).

FM cordless surround speaker system

(only available on certain models)



Certain models are equipped with 2 FM cordless surround speakers:

- one is the active loudspeaker, including the RF receiver, a power switch, the mains supply, a channel selector, a connector clip and a cinch connector.
- the other is passive and has to be connected to the active loudspeaker.

- ➊ Set the slide channel switch (1) to channel 6 (default value).
- ➋ Set the CORDLESS item of the FEATURE menu to channel 6 (see page 20).

- ➌ Connect the active to the passive loudspeaker with the supplied speaker cable (2). The Surround speakers should always be located behind or to either side of the listener.

Remark: people moving around close to the TV may disturb the sound transmission. The maximum distance between the TV and the surround speakers should not exceed 15 m (and 6 m between the active and the passive speakers). In case the wireless transmission is disturbed or not possible, you can make a wired connection between the TV and the active speaker.

- ➍ Connect the active speaker to the mains with the supplied cable (3).
- ➎ Switch on the active speaker with the POWER switch (4). The green LED of the active speaker shows that there is a transmission. The red LED is on when the speaker is in standby.

Tips

Poor reception *(in analogue mode)*

The proximity of high buildings may be responsible for ghost pictures, echoing or shadows. In this case, try manually adjusting your picture: see "fine tuning" (p.6) or change the orientation of the outside aerial. In the event of difficult reception (snowy picture) switch the NOISE.REDUCT on the FEATURES menu to ON. (p. 7).


Bad picture *(in digital mode)*

If the picture freezes a lot, or in cases of block effect, there is a problem of poor reception. Please check with the **signal strength** menu (see p.8).

Depending on the strength of digital terrestrial signals available in your area, standard aerials used for analogue transmissions will in most cases provide satisfactory reception of digital signals. In general, set top and communal aerials will not give satisfactory results, best performance and stability of digital signals can be achieved if a high-quality aerial and wiring is installed.

If reception problems are experienced with a standard aerial, a good quality, narrow beam antenna should be professionally installed outside the property and aligned to capture the maximum digital signal strength. Loft antenna's can be used where an outside installation is not possible, however, care should be taken to mount the loft antenna as high as possible and as far away from house wiring as possible. Aerial amplifiers should only be used when absolutely necessary. Double screen coaxial cable should be installed between the aerial and television receiver and positioned to avoid close proximity to house wiring. The television receiver should be connected directly to the coaxial cable, rather than routing the signal first through other products.


No picture

Have you connected the aerial socket properly?
Have you chosen the right system? (p. 6)
Is the contrast or the brightness badly adjusted?
Press  to select one of the smart control presets.

Poorly connected euroconnector cables or aerial sockets are often the cause of picture or sound problems (sometimes the connectors can become half disconnected if the TV set is moved or turned). Check all connections.

Picture adjustment


If the picture is not adjusted properly or if you have trouble obtaining a clear picture, select

one of the smart control presets  (p.8) and store using the STORE PP ALL function in the FEATURES menu.

The picture is too blue or too red! Adjust the TINT (p. 12).

In the event of difficult reception (snowy picture) switch the NOISE.REDUCT on the PICTURE menu to ON. (p. 12).

Peripheral equipment gives a black and white picture

You have not selected the right socket with the  key: E2 instead of E2 Y/C.

To play a video cassette, check that it has been recorded under the same standard (PAL, SECAM, NTSC) which can be replayed by the video recorder.

No sound *(in analogue mode)*

If on certain channels you receive a picture but no sound, this means that you do not have the correct TV system. Modify the SYSTEM setting (p. 6).

The left and right loudspeakers on the TV set do not work? Check that the external loudspeakers switch has not been activated by mistake (p.20). The Surround Sound loudspeakers do not work? For them to function correctly it is essential that both loudspeakers are connected: check connections.

If in doubt, use the SOUND LEVEL menu (p.13) to check each channel.

Remote control

The TV set does not react to the remote control; the indicator on the set no longer flashes when you use the remote control? Replace the batteries.

Press the TV key to be sure your remote control is in the TV mode

Standby

When you switch the TV set on it remains in standby and the indication LOCKED is displayed when you use the keys on the TV set? The CHILD LOCK function is switched on (p. 7). If the set receives no signal for 15 mins, it automatically goes into standby mode.

The set consumes energy when it is switched on. To save electricity, we recommend that you switch the TV set off using the ON/OFF key.

Still no results?

If your TV set breaks down, never attempt to repair it yourself: contact your dealer's after-sales service.

Glossary

16:9: Refers to the ratio between the length and height of the screen.

Wide screen televisions have a ratio of 16/9, conventional screen TV sets have a ratio of 4/3.

Digital receiver : The television is equipped with an integrated digital tuner which enables you to receive a digital transmission with a terrestrial antenna. The tuner is able to receive Digital Video Broadcast compliant with MPEG-2, up to Main profile @ Main level

Modem : modulator-demodulator. An electronic device built into TV to allow communication between the TV and your service provider via the telephone line. Fitted to the TV for future applications.

NICAM sound: Process by which digital sound can be transmitted.

RGB Signals: These are 3 Red, Green and Blue video signals which directly drive the red, green and blue emitters in the cathode ray tube. Using these signals provides better picture quality.

Serial I/O port RS232: a connection for serial transmission/reception of data according to a standardized protocol. Fitted to the TV for dealer's repair services.

Smart Card: a card, containing an integrated electronic circuit, which together with electronics in the TV, allows you to access ONdigital channels or special services from the provider.

S-VHS Signals: These are 2 separate Y/C video signals from the S-VHS and Hi-8 recording standards. The luminance signals Y (black and white) and chrominance signals C (colour) are recorded separately on the tape. This provides better picture quality than with standard video (VHS and 8 mm) where the Y/C signals are combined to provide only one video signal.

System: Television pictures are not broadcast in the same way in all countries. There are different standards: BG, DK, I, and L L'. The SYSTEM setting (p. 10) is used to select these different standards. This is not to be confused with PAL or SECAM colour coding. Pal is used in the majority of European countries, Secam in France, the CIS and the majority of African countries. The United States and Japan use a different system called NTSC.

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