



Let's make things better.



PHILIPS

Introduction

Thank you for purchasing this television set.
This handbook has been designed to help you install and operate your TV set.
We would strongly recommend that you read it thoroughly.
We hope this new television meets entirely with your satisfaction.

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Recycling

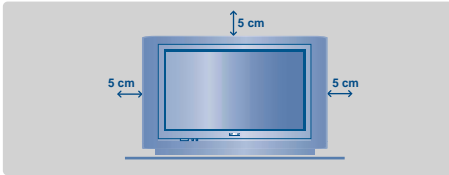
The materials used in your set are either reusable or can be recycled.
To minimise environmental waste, specialist companies collect used appliances and dismantle them after retrieving any materials that can be used again (ask your dealer for further details).

Installing your television set

1 Positioning the television set

Place your TV on a solid, stable surface, leaving a space of at least 5 cm around the appliance.

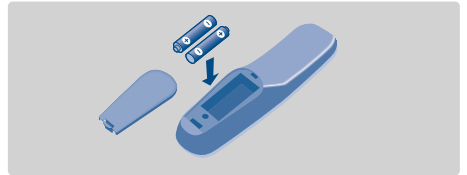
To avoid accidents, do not put anything on the set such as a cloth or cover, a container full of liquid (vase) or a heat source (lamp). The set must not be exposed to water.




4 Remote control

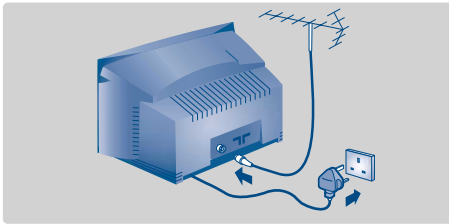
Insert the two R6-type batteries (supplied) making sure that they are the right way round.

The batteries supplied with this appliance do not contain mercury or nickel cadmium. If you have access to a recycling facility, please do not discard your used batteries (if in doubt, consult your dealer). When the batteries are replaced, use the same type.



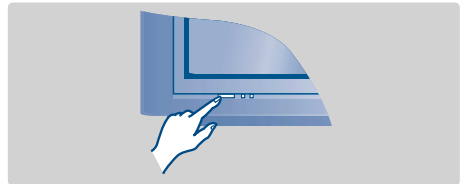
2 Connections

- Insert the aerial plug into the  socket at the rear of the set.
- Insert the mains plug into a wall socket (220-240 V / 50 Hz).




5 Switching on

To switch on the set, press the on/off key. A red indicator comes on and the screen lights up. Go straight to the chapter **Switch on for the first time**, on page 4.



3 Optional Surround loudspeakers

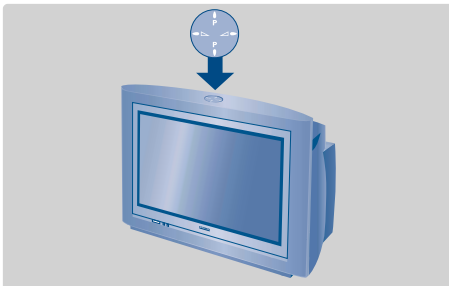
To connect the optional surround loudspeakers see the detailed informations, on page 18.


If the television remains in standby mode, press P  on the remote control.

The indicator will flashe when you use the remote control.




The keys on the TV set



The television set has 4 keys which are located on the front or the top of the set depending on the model.



The VOLUME - + (-  +) keys are used to adjust sound levels.

The PROGRAM - + (- P +) keys are used to select the required programmes.

To access the menus, simultaneously hold down the  - and  + keys. The PROGRAM - + keys may then be used to select an adjustment and the -  + keys to make that adjustment.

To exit from the menus, hold down the 2  - and  + keys.

Note: when the CHILD LOCK function is activated, these keys are unavailable (refer to FEATURES menu on page 13).

The remote control keys

Screen information

To display / remove the programme number, the name (if it exists), the time, the sound mode and the time remaining on the timer. Hold down for 5 seconds to permanently display the analogue programme number on the screen. The volume level and the smart control adjustments are then displayed each time they are used.

Mode selector

To activate the remote control in VCR (video recorder) or DVD mode (see p. 15).

Teletext (p. 12)

TV Menu
To display or exit from the analogues menus

Select

In digital mode this displays/clears the list of programmes. Use the keys \uparrow \downarrow to select a programme and the \odot (or OK) key to display it.

The symbol L is displayed alongside all programmes which are locked (p. 7, 11).

Volume

To adjust the sound level

Mute

To disable or enable the sound.

16:9 formats (p. 13)

Surround sound

To activate / deactivate the Virtual Dolby Surround* effect. In stereo, you can obtain Dolby Surround Pro Logic sound quality. In mono, a stereo spatial effect is simulated.

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

Smart picture controls

To access a series of settings: **RICH**, **NATURAL**, **SOFT**, **MULTIMEDIA** and return to **PERSONAL**.

Sleeptimer

To select the length of time before the set automatically switches to standby (from 0 to 240 minutes)

Sound mode

To switch from STEREO to MONO or to choose between different languages (Dual I, Dual II, ...).

When the sound mode is switched to MONO, the indication is displayed in red.

Select EXT sockets

Press several times to select EXT1, EXT2, EXT3, S-VHS2 and S-VHS3 (see p. 14).

Standby

To set the TV to standby mode.

To switch the TV set on again, press $\text{P} \ominus \oplus$ or $\text{0} \text{9}$.

Teletext features (p. 12)

and VCR/DVD keys (p.15).

Programme list (analogue mode)
or **Programme guide (digital mode)**

Digital Menu

To display or exit from the digital menus (when TV is in digital mode).

Analogue or Digital mode

To switch the television into analogue or digital mode.

Cursor

These 4 keys are used to move within the menus or to have direct access to the 16:9 formats (p 13).

Selecting TV programmes

To move up or down a programme.

Previous programme

To access the previously viewed programme.

Numerical keys

For direct access to programmes.

For a 2 (3) digit programme number, the 2nd (3rd) digit must be entered before the dash disappears.

The number, the name (and the sound mode, in analogue mode) are displayed for a few seconds.

Smart sound controls

To access a series of settings: **VOICE**, **MUSIC**, **THEATRE** and return to **PERSONAL**

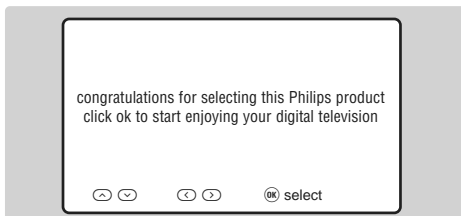


Digital or Analogue channels ?

To receive TV channels, your television is equipped with 2 tuners. One is for digital channels, the other is for analogue channels. Use the A/D key of the remote control to switch the TV between analogue or digital mode. Then use the $\text{P} \ominus \oplus$ or $\text{0} \text{9}$ keys to select channels.

Switch on for the first time

The first time the TV set is switched on, the **congratulation** message appears on the screen:



- 1 Press the **OK** key on the remote control to activate. The main menu is displayed.

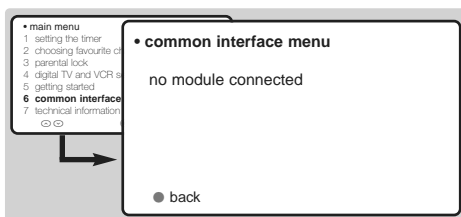
Note: not all sub menus will be accessible until the installation is complete.

- 2 Press the **5** key to get started. The **store channel** menu is displayed. All the digital and analogue programmes are search for and stored automatically. The operation takes approximately 20 minutes. When the search is complete, the **digital channel list** menu is automatically displayed.
- 3 You can check what digital channels have been found by using the **^** **v** keys.
- 4 Press the **EXIT** key. The television then displays the current programme being broadcast on channel 1. The installation is now complete.

Common interface menu

(only available in digital mode)

- 1 From digital mode, press the **DIGITAL** MENU key.



- 2 Press **6** to select **common interface menu**. The name of the module which is connected is indicated.
- 3 Press the **EXIT** key to leave the menu.

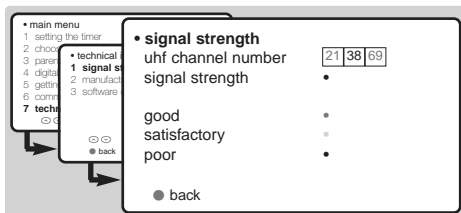
Technical information

(only available in digital mode)

- 1 From digital mode, press the **DIGITAL** MENU key.
- 2 Press **7** to select **technical informations**.
- 3 Press **1**, **2** or **3** to select **signal strength**, **manufacturer date** or **software download**.
- 4 Press the **EXIT** key to leave the menu.

Signal strength

This menu allows you to check the strength of the signal you are receiving through your aerial.



The number of diamonds indicates the signal strength, the colour of the diamond indicates the signal quality.

Manufacturer data

This screen shows informations about the digital hardware and software your television contains.

Software download

This option can update the software used in your digital TV. Normally the product will detect if an update is available while it is in standby mode. Next time the television is turned on a banner will appear at the bottom of the screen indicating new software is available. Selecting **OK** activates the software download. The software download menu will give a description of the software together with the date and time of the download. This may update certain menus, functions or add new features, but the general way in which the TV operate will not change. Once accepted the download will take place at the designated time and date.

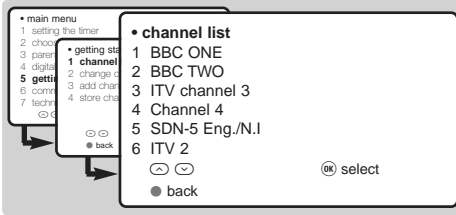
Note: The TV must be put into standby when the download is due in order for it to take place.

Channels list

(only available in digital mode)

This menu list all the stored and available digital channels.

- 1 From digital mode, press the **DIGITAL** MENU key.
- 2 Press **5** to select **getting started**.



- 3 Press **1** to display the **channels list** :
The symbols alongside the channel numbers indicate whether the channel has been selected as a favourite channel (heart symbol) or as a locked channel (padlock symbol).
To lock channels or to select channel as favourite, see page 6.
- 4 Use the **^** **v** keys to move through the channel list and the **<** **>** keys to move a whole page at a time.
- 5 Press the **OK** key to view the selected channel and exit from the menu.

Change channels numbers

(for analogue see Sort on page 8)

This menu allows you to change the order of the stored digital channels. This is done by exchanging the position of the channels.

- 1 From digital mode, press the **DIGITAL** MENU key.
- 2 Press **5** to select **getting started**.
- 3 Press **2** to select **change channel numbers**.
- 4 Use the **^** **v** keys to select the channel you want to exchange.

- 5 Press **OK** to activate.
- 6 Select (**^** **v**) the new channel number you want to exchange it with.
- 7 Press **OK** to confirm. The exchange is done.
- 8 Repeat the operations **4** to **7** until all the channels are in your preferred order.
- 9 Press the **EXIT** key to leave the menu.

Add channels

(only available in digital mode)

This menu allows you to search for new digital channels that have been launched by the broadcaster after the initial installation.

- 1 From digital mode, press the **DIGITAL** MENU key.
- 2 Press **5** to select **getting started**.



- 3 Press **3** to activate the **add channels** menu.
The search begins and only new channels will be stored and add to the **channel list** menu. The operation takes approximately 20 minutes. The percentage of the installation that has been complete and the number of channels found is displayed. When the search is complete, the **channel list** menu appears.
- 4 You can check what channels have been found by using the **^** **v** keys.
- 5 Press the **EXIT** key to switch the menu off.

Store channels

(only available in digital mode)

This menu allows you to store all the available digital channels.

- 1 From digital mode, press the **DIGITAL** MENU key.
- 2 Press **5** to select the **getting started** menu :
- 3 Press **4** to select the **store channels** menu.
- 4 Press **OK** to activate. All the digital channels are search for and stored automatically. The operation takes approximately 20 minutes.

When the search is complete, the **channel list** menu appears.

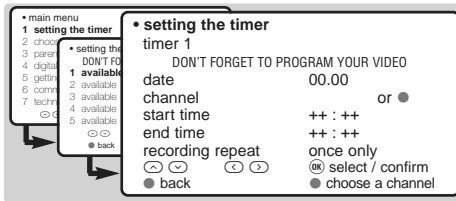
- 5 You can check what channels have been found by using the **^** **v** keys.
- 6 Press the **EXIT** key to switch the menu off. The television then displays the current programme being broadcast on channel 1.

Setting the timer (for video recording)

(only available in digital mode)

This function enables you to program the TV to provide a digital channel that can be recorded. If your video recorder is equipped with Easylink, there is no need to program it. If your vcr is not equipped with Easylink, do not forget to program it Important: The video recorder **must be connected to EXT2**. Please note that it is NOT possible to record one digital channel and watch another digital channel at the same time. You can however record a digital channel and watch an analogue channel on your TV, or vice versa.

- From digital mode, press the **(DIGITAL)** MENU key.
- Press **(1)** to select **setting the timer**. The screen show 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.
- Select a free row using the **(▲▼)** keys and press **(OK)**. The timer screen is displayed.



- Select each option with the **(▲▼)** keys :
 - date** : Use the numeric keys to enter the date, for example to enter 8th February, press 0802.
 - channel number** : with the digit keys, enter the channel number you want to record or press the green key to display the channel list and then select the channel you require.
 - start and end time** : enter the start and end time of the programme you want to record (e.g.: for 8.25pm enter 2025). You can use the **(◀▶)** keys to

select the position of the digit you want to modify.

- recording repeat** : use the **(◀▶)** keys to select the frequency of when you want to record the selected programme. You can choose **once only**, **daily** (every weekday) or **weekly**.
- Press the **(OK)** key to save the settings. Remember you still need to program your video recorder. If your video recorder is equipped with Easylink feature, it is not necessary to program it.
 - If you have finished watching television, you must leave it in standby in order for the timer settings to be activated.

Important: ever switch off the TV with power button when a recording has been programmed, but use the standby key on the remote control.

- 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 **(A/B)** key to switch the TV to analogue mode.

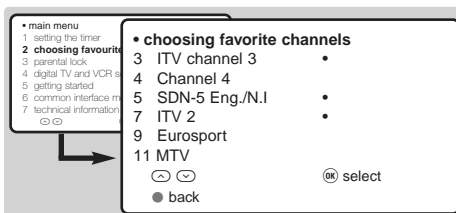
If a key is pressed when you are in digital mode and a digital recording is in progress, (REC displayed on screen) a message will be displayed asking if you wish to cancel the recording. If you reply "yes" the recording will be cancelled and the key actioned. If you answer "no" the recording will continue and the key is cancelled. If a timer starts while you are using a digital menu "RED" will be displayed on the screen, you must then leave the menu before confirming the record.

Choosing favourite channels

(only available in digital mode)

This menu enables you to select favourite channels that you can browse through by pressing the **(-P+)** keys. Only those channels which are marked as favourite will be displayed. Non favourite channels can still be selected with the digit keys.

- From digital mode, press the **(DIGITAL)** MENU key.



- Press **(2)** to select **choosing favourite channels**. The favourite channel list is displayed.
- Use the **(▲▼)** keys to select the channel you want to make favourite. The **(◀▶)** keys is used to change page.
- Press the **(OK)** key to activate (or deactivate). A heart symbol appears alongside the channels which have been selected as favourites.
- Repeat the operations **(3)** and **(4)** for every channels you want to make favourites.
- After you have selected all your favourites, press the green key, as indicated, to switch the favourite mode on or off.
- Press the **(EXIT)** key to leave the menu.

Parental lock

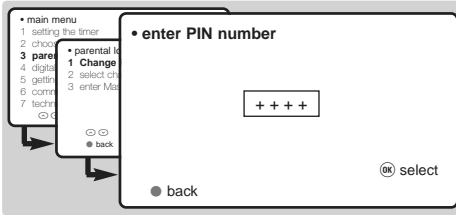
(only available in digital mode)

This menu enables you to limit access to any specific digital channel by blocking it.

To lock or unlock channels

- 1 From digital mode, press the **(DIGITAL)** MENU key.
- 2 Press **(3)** to select **parental lock**. The first time this option is selected, the menu is set to **change PIN number**. Press **(1)**. Now choose and enter your Personal Identification Number will be used to lock/unlock channels. Follow the on screen instructions.

Important : Don't forget your code !



- 3 Press **(2)** to select channels to lock or unlock.
- 4 Enter your 4 digit code with the digit keys and press **(OK)**. A list with all the channels is displayed.
- 5 Use the **(^)** **(v)** keys to select the channel you want to lock or unlock and press **(OK)**. A closed padlock appears alongside the locked channel.
- 6 Press the green colour key to open or close the lock. On top of the screen, it is indicated whether the channels are locked or not.
- 7 Press the **EXIT** key to leave the menu.

Watching your locked channels

- 1 Select the channel which has been locked.
- 2 Enter your current code then press **(OK)**. The channel remains unlocked until you select another channel or switch off your tv.

Note: When the timer is set to record a locked channel you will be asked to enter your pin code

To change your parental code

- 1 Press the **(DIGITAL)** MENU key then **(3)** followed by **(1)**.
- 2 Enter your current code then press **(OK)**. The screen will prompt the entry of a new code.
- 3 Enter your new code then press **(OK)**.
- 4 Confirm by entering it again. Your new code will be stored.

Important : Don't forget your code !

- 5 Press the **EXIT** key to leave the menu.

To temporarily unlock all channels

- 1 Press the **(DIGITAL)** MENU key then **(3)** followed by **(2)**.
- 2 Enter your current code then press **(OK)**.
- 3 With the channel list displayed, press the green key to open or close all the padlocks.
- 4 Press the **EXIT** key to leave the menu.

To unlock all

This menu enables you to erase all the parental settings (locked channels + PIN number).

- 1 Press the **(DIGITAL)** MENU key then **(3)** followed by **(3)**.
- 2 Enter the Mastercode 0711 to unlock all yours settings.
- 3 Press the **EXIT** key to leave the menu.

Digital TV and VCR settings

(only available in digital mode)

This menu enables you to adjust the digital settings.

- 1 From digital mode, press the **(DIGITAL)** MENU key.
- 2 Press **(4)** to select **digital TV and VCR settings**.
- 3 Press **(1)** or **(2)** to select **digital TV setting** or **VCR setting**.
- 4 Press the **EXIT** key to leave the menu.

Digital TV settings

- 1 **preferred language** : you can select **english**, **welsh** or **gaelic**. When your preferred language is not transmitted, **english** is selected by default.
- 2 **timer alarm** : The alarm gives a warning when a programme is about to start for which the timer has been set. You have the choice between **visual** (a confirmation banner will be displayed on the screen when the timer starts) or **visual+audio** (the TV will also beep).

- 3 **date and time** : Your television automatically sets the current date and time by taking the information from digital broadcasts. If you wish, you can do so manually by using this menu. Follow the instructions on screen.

- 4 **subtitles language** : to select a language in which the subtitles will be displayed when they are available.

- 5 **subtitles : on / off**. When selected **on**, the subtitles will be displayed if they are transmitted.
Remark: the digital teletext are never displayed when the subtitles are on.

VCR settings

If you have an easylink vcr connected to the tv, set the vcr type to **easylink**. If you do not have an easylink vcr, set the vcr type to **not easylink**.

Choosing a language and country

- 1 Press the **TV** MENU key to display the main menu.
- 2 Select **INSTALL** (⏏), then press (➤).
The **INSTALL** menu appears.
The **LANGUAGE** option is activated.

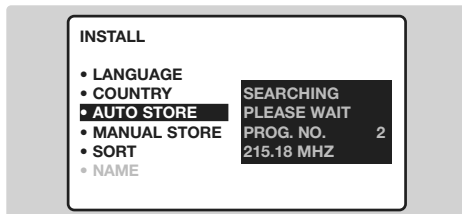


- 3 Press (➤) to go into the **LANGUAGE** menu.
 - 4 Select your language with the (⏏) (⏏) keys.
The menus will appear in the chosen language.
 - 5 Press (⏏) to exit the **LANGUAGE** menu.
 - 6 Select the option **COUNTRY** and press (➤).
 - 7 Select your country with (⏏) (⏏) keys.
If your country does not appear in the list, select OTHER.
 - 8 Press (⏏) to exit the **COUNTRY** menu.
 - 9 To exit from the menus, press (E+).
- See also: EasyLink function, page 9.

Automatic tuning of analogue programmes

This menu allows you to automatically search for all the analogue programmes available in your region (or on your cable network).

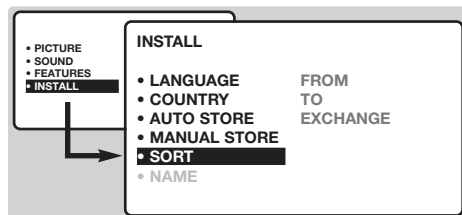
- 1 First carry out operations 1 to 8 above, then:
- 2 Press (⏏) once to select **AUTO STORE** then press (➤). The search begins.
After several minutes, the **INSTALL** menu reappears automatically.



- 3 If the transmitter or the cable network broadcasts the automatic sort signal, the programmes will be correctly numbered.
 - 4 If this is not the case, the programmes found will be numbered in descending order starting at 99, 98, 97, etc.
Use the **SORT** menu to renumber them.
*Some transmitters or cable networks broadcast their own sort parameters (region, language, etc.). Where this is the case, make your choice using the (⏏) (⏏) keys and confirm with (➤).
To exit or interrupt the search, press the (MENU) key. If no picture is found, refer to the chapter entitled Tips on p. 16.*
- See also: EasyLink function, page 9.
- 5 To exit from the menus, press (E+).

Sorting analogue programmes

- 1 Press the **TV** MENU key to display the main menu.
- 2 With the cursor, select the **INSTALL** menu, then **SORT**. The **SORT** menu appears.
The **FROM** option is activated.



- 3 Select the programme you wish to renumber using (⏏) (➤) keys or (0) to (9).
Example: to renumber programme 78 as 2 press (7) (8).

- 5 Select **TO** (using (⏏) key) and enter the new number with (⏏) (➤) keys or (0) to (9) (for the example given, enter (2)).
- 6 Select **EXCHANGE** (⏏ key) and press (➤).
The message **EXCHANGED** appears, the exchange takes place. In our example, programme 78 is renumbered as 2 (and programme 2 as 78).
- 7 Select the option **FROM** (⏏ key) and repeat stages 4 to 6 as many times as there are programmes to renumber.
See also: EasyLink function, page 9.
- 8 To exit from the menus, press (E+).

Manual tuning of analogue programmes

This menu allows you to store the analogue programmes on at time.

- 1 Press **TV** MENU.
- 2 With the cursor, select the **INSTALL** menu then **MANUAL STORE** :



- 3 **SYSTEM** : select **EUROPE** (automatic detection*) or **WEST EUR** (BG standard), **EAST EUR** (DK standard), **UK** (I standard) or **FRANCE** (LL' standard).

* Except for France (standard LL'): select the option **FRANCE**.

- 4 **SEARCH** : If you know the frequency of the programme required, enter its number directly using the **0 9** keys. Alternatively press **>**. The search begins. As soon as a programme is found, the search will stop.

If no programme is found, refer to the *Tips* chapter on page 16).

- 5 **FINE TUNE** : if the reception is not satisfactory, adjust using the **< >** keys.
- 6 **PROG. NO** : enter the required number with the **< >** or **0 9** keys.
- 7 **STORE** : press **>**. The programme is stored. See also: *EasyLink* function, below.
- 8 Repeat steps 4 to 7 for each programme to be stored.
- 9 To quit the menus, press **EXIT**.

Naming analogue programmes

If required, you can give a name to the first 40 analogue programmes (from 1 to 40) and external connectors.

- 1 Press **TV** MENU.
- 2 With the cursor, select the **INSTALL** menu, then **NAME** (concealed at the bottom of the screen) :



- 3 Select the programme you wish to name using the keys **0 9** or **- P +**.

Note: on installation, the programmes are named automatically when the correct information is transmitted by the broadcaster.

- 4 Use the **< >** keys to move within the name display area (5 characters) and the **^ v** keys to choose the characters.
- 5 When the name has been entered, press **TV** MENU. The name is stored. See also: *EasyLink* function, below.
- 6 Repeat steps 3 to 5 for each programme to be named.
- 7 To exit from the menus, press **EXIT**.

EasyLink function

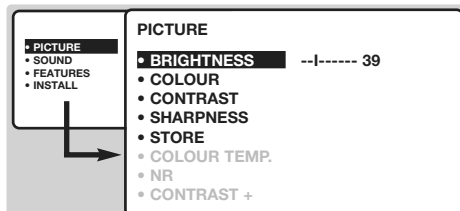
If the set is connected (by the EXT2 socket) to a video equipped with the EasyLink function, the language, country and analogue channels found are automatically transmitted to the video recorder at the time of installation. A message is displayed on-screen during loading. The list of video recorder analogue channels is then the same as those of the set. You must first check in the menus that the Easylink function is activated :

- 1 Press **TV** MENU key.
- 2 Select **OPTIONS** (**v**) and press **>**. The **OPTIONS** menu is displayed.
- 3 Use **v** key to select **EASY LINK** and press **>** to set it to **ON**. If your video recorder is not equipped with this function, set to **OFF**.
- 4 Press **EXIT** to exit the menus.

The **EASY LINK** setting is set to **OFF** by default.

Adjusting the picture

- 1 Press **TV** MENU then **>**.
The **PICTURE** menu appears :



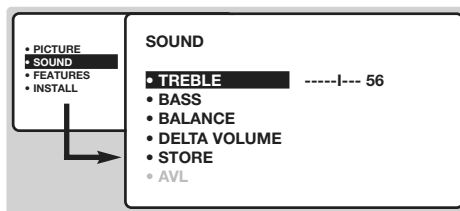
- 2 Use **▲▼** keys to select a setting and **<>** keys to adjust.
*Note: the menu is a scroll-down menu. Keep the key **▼** held down to access the settings hidden at the bottom of the screen.*
- 3 Once the adjustments have been made, select **STORE** and press **>** to store them.
- 4 To exit from the menus, press **EXIT**.

Description of the settings:

- **BRIGHTNESS**: alters the brightness of the image.
- **COLOUR**: alters the colour intensity.
- **CONTRAST**: alters the variation between light and dark tones.
- **SHARPNESS**: alters the crispness of the image.
- **STORE**: stores the picture settings.
- **COLOUR TEMP** (colour temperature): adjusts the colour temperature of the picture. Three options are available here: **COOL** (blue white), **NORMAL** (balanced) or **WARM** (red white).
- **NR** (Noise Reduction): alleviates fuzziness (snowy picture). This setting is useful when reception is difficult.
- **CONTRAST +**: automatic adjustment of the picture contrast which permanently sets the darkest part of the picture to black.

Adjusting the sound

- 1 Press **TV** MENU, select the **SOUND** option (**▼**) and press **>**. The **SOUND** menu appears :



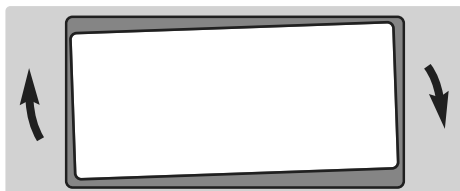
- 2 Use the cursor keys to select and adjust.
*Note: to access the AVL setting (hidden at the bottom of the screen) hold down **▼** key.*
- 3 Once the adjustments have been made, select **STORE** and press **>** to store them.
- 4 To exit from the menus, press **EXIT**.

Description of the settings:

- **TREBLE**: alters the level of the high frequency sound.
- **BASS**: alters the level of the low frequency sound.
- **BALANCE**: to balance the sound between the left and right speakers.
- **DELTA VOLUME** (volume difference): allows you to compensate for the volume differences between the different programmes or the EXT sockets. This setting is available for programmes 1 - 40 and the EXT sockets.
- **STORE**: stores the sound settings.
- **AVL** (Automatic Volume Leveller): automatic volume control used to avoid sudden increases in volume, particularly when changing programmes or during advertisements

Rotating the picture

Larger screens are sensitive to variations in the earth's magnetic field. This setting makes it



possible to compensate for this phenomenon.

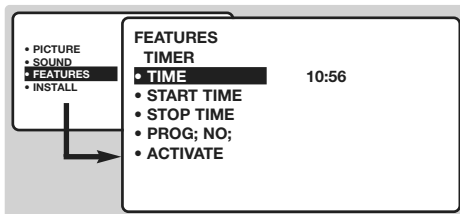
- 1 Press **TV** MENU key.
- 2 Select **FEATURES** (**▼**) and press **>**.
The **FEATURES** menu appears.
- 3 Use **▼** key to select **ROTATION** and use **<>** keys to alter the angle of the image.
- 4 Press **EXIT** to exit from the menus.

Timer function

This menu allows you to use your TV as an alarm clock.

- 1 Press **TV** MENU.
- 2 Select **FEATURES** (⏏) and press (➤) twice.

The **TIMER** menu appears :



- 3 Press (➤) to enter and exit the sub-menus and use keys (⏏) (⏏) to adjust:

- 4 **TIME**: enter current time.

Note: the time is updated automatically each time

the set is switched on using information taken from the digital module.

- 5 **START TIME**: enter the start time.
- 6 **STOP TIME**: enter the stop time.
- 7 **PROG. NO.:** enter the number of the programme required.
- 8 **ACTIVATE**: you can set the alarm to be activated :
 - **ONCE ONLY** for a one-off alarm,
 - **DAILY** for a daily alarm or
 - **STOP** to cancel.
- 9 Press (⏏) to set the TV to standby. It will automatically switch on at the time programmed. If you leave the TV switched on, it will only change programme at the time indicated.

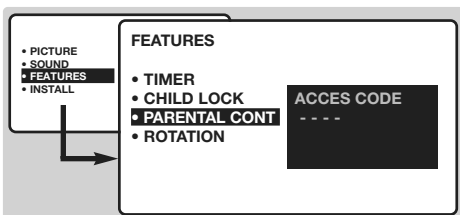
The combination of the CHILD LOCK and TIMER functions may be used to limit the length of time your television is in use, for example, by your children.

Locking the set

You can bar access to certain programmes or completely lock the set by locking the keys.

Locking programmes

- 1 Press **TV** MENU.
- 2 Select **FEATURES** (⏏) and press (➤).
- 3 Select **PARENTAL CONT.** (⏏) and press (➤).



- 4 Enter your confidential access code. The first time, enter the code 0711 then confirm by re-entering 0711. The menu appears.
- 5 Press (➤) to go into the menu.
- 6 Use keys (⏏) (⏏) to select the required programme and confirm with (➤). The symbol **⏏** is displayed alongside the programmes or sockets that have been locked.
- 7 Press (⏏) to exit.

To watch a programme which has been locked you will now need to enter the confidential code; otherwise the screen will remain blank.

The INSTALL menu access is also locked.

Caution: in the case of encrypted programmes which use an external decoder, it is necessary to lock the corresponding EXT socket.

To unlock all programmes

Repeat stages 1 to 4 above, then select **CLEAR ALL** and press (➤).

To change the confidential code

Repeat stages 1 to 4 above, then:

- 5 Select **CHANGE CODE** and enter your own 4-digit number.
- 6 Confirm by entering it again. Your new code will be stored.
- 7 Press (⏏) to exit from the menus.

If you have forgotten your confidential code, enter the universal code 0711 twice.

Locking the keys

- 1 Press **TV** MENU, select **FEATURES** (⏏) and press (➤).
- 2 Select **CHILD LOCK** (⏏) and press (➤) to set the lock to **ON**.
- 3 Switch off the set and put the remote control out of sight.

The set cannot be used (it can only be switched on using the remote control).
- 4 To cancel: switch **CHILD LOCK** to **OFF**.

Analogue Teletext

Teletext is an information system, broadcast by most of analogue TV channels. It also provides subtitles for people with hearing difficulties.



Press :

You will obtain:



Teletext call

To call up or exit from teletext. When first pressed, the main index page appears with a list of the items available. Each page has a corresponding 3-figure number.

Some digital programmes may also include analogue teletext. If this is the case, it can be accessed by pressing the teletext key for 4 seconds.

If no teletext is available, 100 will appear and the screen will remain blank (in this case, exit from teletext and choose another channel).



Selecting a page

Use the 0 to 9 or P+ or ^ v keys to enter the page number required. Example: page 120, enter 1 2 0. The number is displayed top left, the counter turns and then the page is displayed. Repeat this operation to view another page.

If the counter continues to search, this means that the page is not transmitted. Select another number.



Direct access to the items

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

The coloured areas flash when the item or the page is not yet available.



Contents

This returns you to the contents page (usually page 100).



Direct selection of sub-pages

Certain pages contain sub-pages. For example, if page 120 contains sub-pages 1/3, 2/3 and 3/3, the page number is displayed in green and preceded by the symbols ▶, ◀ or ◀ ▶. Use the keys < > to directly access the sub-pages of your choice.



Text overlaying & double page text

To activate or deactivate teletext overlay on the picture. To activate or deactivate the dual page text display.



Double height teletext

Press this key several times to display the upper, then the lower part of the screen and then return to the normal size teletext page.



Hidden information

To display or hide the concealed information (games solutions).



Favourite pages

Instead of the standard coloured areas displayed at the bottom of the screen, you can store 4 favourite pages on the first 40 channels which can then be accessed using the coloured keys (red, green, yellow, blue). Once set, these favourite pages will become the default every time teletext is selected.

- 1 Press the TV MENU key to change to favourite pages mode.
- 2 Display the teletext page that you want to store.
- 3 Press the TV MENU key then the coloured key of your choice. The page is stored.
- 4 Repeat steps 2 and 3 for the other coloured keys.
- 5 Now when you consult teletext, your favourite pages appear in colour at the bottom of the screen. To temporarily retrieve the standard items, press the TV MENU key.

To clear everything, and return the standard items as the default, press the TV MENU key for 5 seconds.

Digital Teletext

Some digital channels, which you select like any other channel, offer dedicated teletext services (for instance BBCTEXT). Some digital channels also offer information on the programme being broadcast (a message may appear at the bottom of the screen).

Remark: when subtitles are on, the digital teletext is not available (see Digital TV settings, page 7).

- 1 To use the digital teletext, follow the instructions on screen.
- 2 Depending on the service, you can be asked to use the cursor and **SELECT** keys (OK), the coloured keys, the **TEXT** key (Ⓜ) and sometimes the numerical keys.
- 3 When you have finished watching teletext, select a different channel with **⊖ P ⊕** keys or follow the on screen instructions to return to picture.

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.

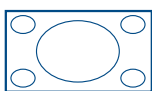
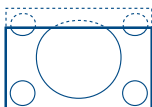
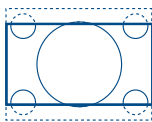
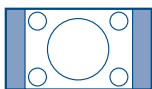
This automatic format can also be modified manually.

Using the different screen formats

Press the **Ⓜ** to select the different modes:

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

*With analogue programs only, you can access directly these settings with the **<** and **>** key.*



4:3 Mode

The picture is reproduced in 4:3 format and a black band is displayed on either side of the picture. With analogue programs only, the picture may be progressively enlarged using the **⤴** **⤵** keys.

ZOOM 14:9

The picture is enlarged to 14:9 format, a thin black band remains on both sides of the picture. With analogue programs, the **⤴** **⤵** keys allow you to compress vertically the image to view the top or the bottom of the picture (subtitles).

ZOOM 16:9

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). With analogue programs, use the **⤴** **⤵** keys if you wish to display the top or the bottom of the picture.

SUBTITLE ZOOM

This mode is used to display 4:3 pictures using the full surface of the screen leaving the sub-titles visible. With analogue programs, use the **⤴** **⤵** keys to increase or decrease the section at the bottom of the picture.

SUPERWIDE

This mode is used to display 4:3 pictures using the full surface of the screen by enlarging the sides of the picture. With analogue programs, the **⤴** **⤵** keys allow you to move the image up or down.

WIDE SCREEN

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.

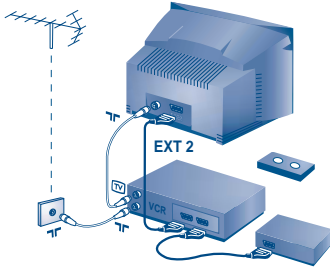
Connecting peripheral equipment

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. To record digital programmes from your TV, the VCR must be connected to EXT2.

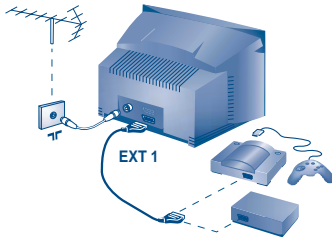
If your video recorder does not have a euroconnector socket, the only connection possible is via the aerial cable. You will therefore need to tune in your video recorder's test signal and assign it programme number 0 (refer to manual store, p. 9).

To reproduce the video recorder picture, press **0**.

Video recorder with decoder

Connect the decoder to the second euroconnector socket of the video recorder. You will then be able to record scrambled transmissions.

Other equipment

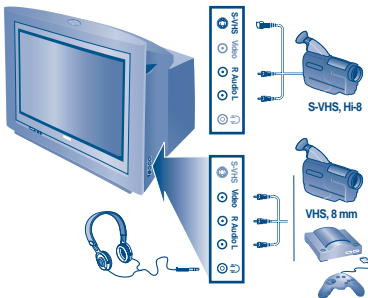


Satellite receiver, decoder, DVD, games, etc.

Carry out the connections featured opposite.

To optimise picture quality, connect the equipment which produces the RGB signals (digital decoder, games, etc.) to EXT1, and the equipment which produces the S-VHS signals (S-VHS and Hi-8 video recorders, certain DVD drives) to EXT2 and all other equipment to either EXT1 or EXT2.

Side connections



Carry out the connections featured opposite.

Using the **EXT** key, select EXT3 for a VHS or 8mm camcorder and S-VHS3 for an S-VHS or Hi-8 camcorder.

For a mono set, connect the sound signal to the AUDIO L (or AUDIO R) input. The sound automatically comes out of the left and right speakers of the TV.

Headphones

The **-** **▲** **+** keys allow you to adjust the volume on the headphones and on the set. Press **⊗** if you want to cut off the sound on the set.

The headphones must have an impedance of between 32 and 600 ohms.

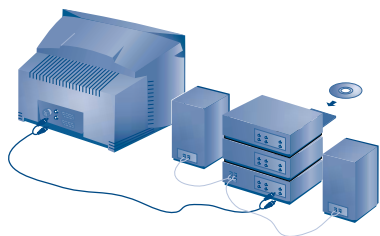


To select connected equipment

Press the **EXT** key to select EXT1, EXT2, S-VHS2 (S-VHS signals from the EXT2 socket) and EXT3 or S-VHS3 for connections on the front panel.

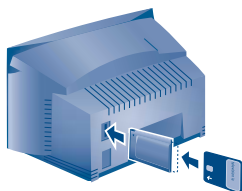
Most equipment (video recorder, etc) carries out the switching automatically.

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.

Common interface



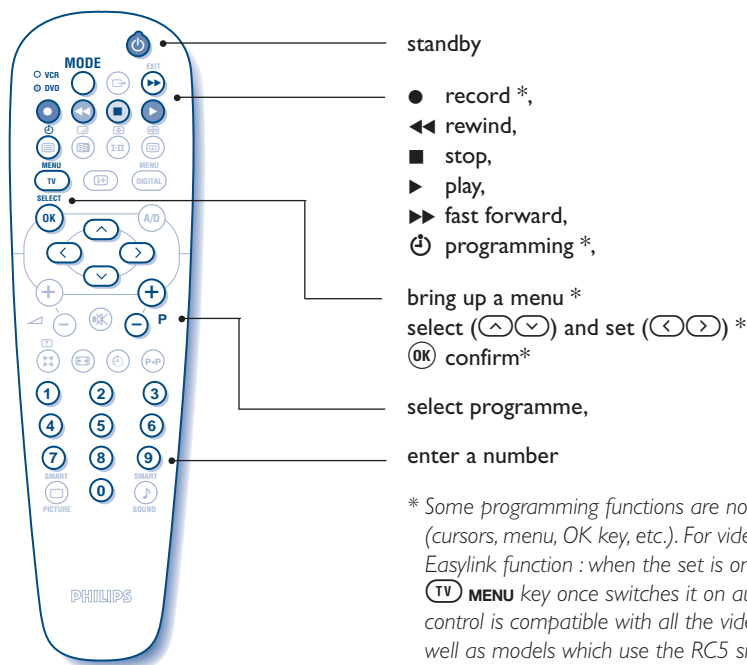
A common interface is available to connect a CAM (conditional access module) and a smartcard. Please contact your service provider to get more information about these modules.

Note: the television should always be switched off before any module is inserted in the common interface slot.

VCR / DVD mode selector

The remote control allows you to control the main functions of your video recorder or DVD.

- 1 Press the **MODE** key to select the required mode : **VCR** (video recorder) or **DVD**.
A green indicator lights up to show the selected mode. It returns automatically off (TV mode) after 20 seconds without action.
- 2 Then press one of the following keys :



standby

- record *
- ◀◀ rewind,
- stop,
- ▶ play,
- ▶▶ fast forward,
- 🕒 programming *

bring up a menu *
select (↑↓) and set (←→) *
OK confirm*

select programme,

enter a number

* Some programming functions are not available on all models (cursors, menu, OK key, etc.). For video recorders equipped with the Easylink function : when the set is on standby, pressing the ▶ or TV MENU key once switches it on automatically. The remote control is compatible with all the video recorders in our range as well as models which use the RC5 signalling standard.

Glossary

CAM and Smart Card : A CAM (conditional access module) and a smart card can be connected to the television. This unit allows you to access subscription digital channels or special services from the provider.

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.

EasyLink : Digital link between the set and the video recorder which allows a direct transfer of certain information such as channel setting.

System : Analogue programmes are not broadcast in the same way in all countries. There are different standards: BG, DK, I, and L L'. The SYSTEM setting (p. 9) 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, Russia and the majority of African countries. The United States and Japan use a different system called NTSC. The inputs EXT1 and EXT2 are used to read NTSC coded recordings.

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.

Tips

Poor reception (*in analogue mode*)

The proximity of mountains or high buildings may be responsible for ghost pictures, echoing or shadows. In this case, try manually adjusting your picture: see "fine tuning" (p.9) or modify the orientation of the outside aerial. Does your antenna enable you to receive broadcasts in this frequency range (UHF or VHF band)? In the event of difficult reception (snowy picture) switch the NR on the PICTURE analogue menu to ON. (p. 10).


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. 4). 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. If it is not the case, a good quality narrow beam antenna should be professionally installed outside the property and aligned to capture the maximum digital signal strength.

No picture

Have you connected the aerial socket properly? Have you chosen the right system? (p. 9). 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.

Peripheral equipment gives a black & white picture

You have not selected the right socket with the 

key: S-VHS2 (S-VHS3) instead of EXT2 (EXT3). 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. 9).

The remote control no longer works.

Check that the mode selector on the side of the remote control is set to TV.

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.

Standby

When you switch the TV set on it remains in standby mode and the indication LOCKED is displayed when you use the keys on the TV set? The CHILD LOCK function is switched on (p. 13). If the set receives no signal for 15 mins, it automatically goes into standby mode. To save power, your set is fitted with components that give it a very low power consumption when in standby mode (less than 3 W).

Cleaning the set

Only use a clean, soft and lint-free cloth to clean the screen and the casing of your set. Do not use alcohol-based or solvent-based products.

Still no results?

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

Table of TV frequencies.
 Frequenztafel der Fernsehsender.
 Liste des fréquences TV.
 Frequentietabel TV-Zenders.
 Tabella delle frequenze TV.
 Lista de frecuencias TV.

Lista das frequências TV
 Liste over TV sanderne.
 Tabell over TV-frekvenser.
 Tabell över TV-frekvenser.
 TV-taajuustaulukko.
 Κατάλογος συχνοτήτων πομπών.

Список частот передатчиков.
 A televízió-adóállomások
 frekvenciáinak a listája.
 Lista częstotliwości stacji nadawczych.
 Seznam frekvenčních pásem vysílačů.
 Zoznam frekvenčných pásiem vysieláčov.

EUROPE					
CANAL	FREQ (MHz)	CANAL	FREQ (MHz)	CANAL	FREQ (MHz)
E2	48.25	S15	259.25	33	567.25
E3	55.25	S16	266.25	34	575.25
E4	62.25	S17	273.25	35	583.25
E5	175.25	S18	280.25	36	591.25
E6	182.25	S19	287.25	37	599.25
E7	189.25	S20	294.25	38	607.25
E8	196.25	H1	303.25	39	615.25
E9	203.25	H2	311.25	40	623.25
E10	210.25	H3	319.25	41	631.25
E11	217.25	H4	327.25	42	639.25
E12	224.25	H5	335.25	43	647.25
R1	49.75	H6	343.25	44	655.25
R2	59.25	H7	351.25	45	663.25
R3	77.25	H8	359.25	46	671.25
R4	85.25	H9	367.25	47	679.25
R5	93.25	H10	375.25	48	687.25
R6	175.25	H11	383.25	49	695.25
R7	183.25	H12	391.25	50	703.25
R8	191.25	H13	399.25	51	711.25
R9	199.25	H14	407.25	52	719.25
R10	207.25	H15	415.25	53	727.25
R11	215.25	H16	423.25	54	735.25
R12	223.25	H17	431.25	55	743.25
S1	105.25	H18	439.25	56	751.25
S2	112.25	H19	447.25	57	759.25
S3	119.25	21	471.25	58	767.25
S4	126.25	22	479.25	59	775.25
S5	133.25	23	487.25	60	783.25
S6	140.25	24	495.25	61	791.25
S7	147.25	25	503.25	62	799.25
S8	154.25	26	511.25	63	807.25
S9	161.25	27	519.25	64	815.25
S10	168.25	28	527.25	65	823.25
S11	231.25	29	535.25	66	831.25
S12	238.25	30	543.25	67	839.25
S13	245.25	31	551.25	68	839.25
S14	252.25	32	559.25	69	855.25

FRANCE	
CANAL	FREQ (MHz)
2	55.75
3	60.50
4	63.75
5	176.00
6	184.00
7	192.00
8	200.00
9	208.00
10	216.00
B	116.75
C	128.75
D	140.75
E	159.75
F	164.75
G	176.75
H	188.75
I	200.75
J	212.75
K	224.75
L	236.75
M	248.75
N	260.75
O	272.75
P	284.75
Q	296.75

ITALY	
CANALE	FREQ (MHz)
A	53.75
B	62.25
C	82.25
D	175.25
E	183.75
F	192.25
G	201.25
H	210.25
H1	217.25

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  at the back of the set. An inferior aerial is likely to result in a poor, perhaps unstable picture with ghost images and lack of contrast. Make-shift loft or set-top aerials are often inadequate. 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 wood screws.

