



**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 'Tips' at the end of this booklet.

### Interference

The Department of Trade and Industry operates a Radio Interference Investigation Service to help TV license 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 13AMP plug. Should it become necessary to replace the mains fuse, this must be replaced with a fuse of the same value as indicated on the plug.

1. Remove fuse cover and fuse.
2. The replacement fuse must comply with BS 1362 and have the ASTA approval mark.  
If the fuse is lost, make contact with your retailer in order to verify the correct 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 x 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 or set-top aerials are unlikely to give adequate 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 you consult your dealer on the best method of connection.

### 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.

## 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 our technology meets entirely with your satisfaction.

## Table of Contents

### Help?

*If this instruction manual does not give an answer or if 'Tips' do not solve your TV problem, you can call your Local Philips Customer or Service Centre. See the supplied World-wide guarantee booklet.*

*Please, have the Model and Product number which you can find at the back of your television set or on the packaging, ready, before calling the Philips helpline.*

Model: 37PF7320  
42PF7320  
42PF7420  
42PF5320

Product No:

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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).

### Care of the screen

Do not touch, push or rub or strike the screen with anything hard as this may scratch, mar or damage the screen permanently. Do not rub with dust clothes with chemical treatment. Do not touch the surface with bare hands or greasy cloth (some cosmetics are detrimental to the screen). Unplug the TV before cleaning the screen. When the surface becomes dusty, please wipe gently with absorbent cotton or other soft materials like chamois soaks. Do not use acetone, toluene and alcohol because they cause chemical damage. Do not use liquid cleaners or aerosol cleaners. Wipe off saliva or water drops as soon as possible. Their long time contact with the screen causes deformations and colour fading.

### Warning concerning stationary images on the TV screen

A characteristic of Plasma Display Panels is that displaying the same image for a long time can cause a permanent after-image to remain on the screen. This is called phosphor burn in. Normal use of the TV should involve the showing of pictures that contain constantly moving and changing images that fill the screen.

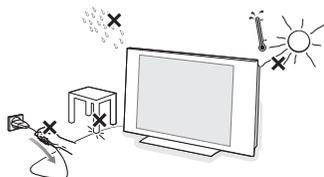
## Preparation

### 1 Table stand instructions

How to mount the supplied stand, see the supplied Quick Start Guide.

Note: Other (not supplied) stands are optional accessories. Consult your dealer.

### 2 For ventilation, leave at least 5 cm free all around the TV.

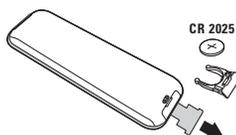


To prevent any unsafe situations, no naked flame sources, such as lighted candles, should be placed in the vicinity. Avoid heat, direct sunlight and exposure to rain or water. The equipment shall not be exposed to dripping or splashing.

### 3 Insert the aerial plug firmly into the aerial socket at the bottom of the TV. For best picture quality use the suppressor-aerial cable supplied.

### 4 Insert the mains cord supplied into the mains at the bottom of the TV and in the wall socket having a mains voltage of 220-240V 50/60Hz. To prevent damaging the power (AC) cord which could cause a fire or electric shock, do not place the TV on the cord.

### 5 Remote control: Pull out the plastic insulation sheet from the battery, this will activate the remote control.



The battery supplied with the appliance does not contain mercury or nickel cadmium so as to protect the environment. Please do not discard your used batteries, but use the recycling methods available (consult your distributor).

### 6 To switch on the set, press the key on the TV. An indicator comes on and the screen lights up. Go straight to the Quick Installation chapter, p. 5.

If the TV remains in standby mode (red indicator), press the **-P+** key on the remote control.

The indicator will flash when you use the remote control.

## Use of the remote control

### Pixel Plus demo on/off

(Only available on certain versions.)

- Press the  key.  
The screen is divided into 2 parts:
  - in the left part Pixel Plus is switched off;
  - In the right part Pixel Plus is switched on.
- Press the  key again to switch the Pixel Plus demo off.



Video recorder or DVD keys.  
See p. 13.



### Surround mode

#### Virtual Dolby\* Surround

Optimal with Dolby surround signals.

Enables you to experience the effect of Dolby surround Pro Logic, reproducing a rear sound effect. See Sound menu, Dolby Virtual, p. 7.

Note: You can make the same selection in the Sound menu, p. 7.

**AV** To display the **Source** list to select TV or peripheral equipment connected to **EXT1, EXT2/SVHS2, AV/SVHS3, PC** or **HD**.  
See also p. 11.



#### Active control

Optimizes the picture quality depending on the quality of the incoming signal.

Press this key to switch between **On, On with sensor** and **Off**.

**MENU** To call up or exit the menus.

#### Cursor keys

Press the keys     to navigate through the menus.

**VOL** To adjust the volume.

#### 0/9 Digit keys

For direct access to programmes.  
For a two digit programme number, enter the second digit before the dash disappears.

### Standby

Press to switch the TV on or off.

### PIP (Picture in Picture) on/off (p. 10)

### List of programmes

To display/clear the list of programmes. Use the keys   to select a programme and the key  to display it.

### I-II Sound mode

Used to force programmes in **Stereo** and **Nicam Stereo** to **Mono** or, for bilingual programmes, to choose between **Dual I** or **Dual II**.

The Mono indication is red when in forced position.

### Teletext

Teletext functions. See p. 8.

**OK** Only applicable for **DVD** or **AUX** mode. See p. 13.

 Interrupt the sound or restore it.

### Smart picture and sound

Used to access a series of predefined picture and sound settings.

This Philips TV has been set at the factory to look best in bright store environments which use fluorescent lighting. As your home will likely not be as well lit as a store, we recommend you that you cycle through the various smart picture modes to find the one that best suits your own viewing conditions. Most consumers will find that **Natural** is the correct choice.

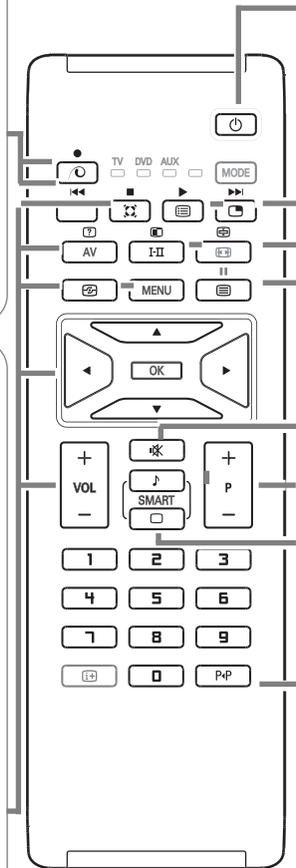
### P Programme selection

To move up or down a programme. The number and the sound modes are displayed for a few seconds.

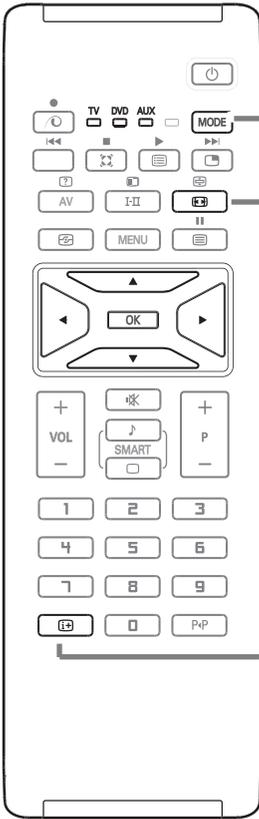
For some TV programmes the title of the programme appears at the bottom of the screen.

### P/P Previous TV channel

Press to display the previously selected TV channel.



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



**MODE\*** Press this key to switch between **TV**, **DVD** and **AUX**.

**16:9 formats**

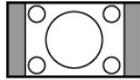
The pictures you receive may be transmitted in 16:9 format (wide screen) or 4:3 format (conventional screen).

4:3 picture sometimes have a black band at the top and the bottom of the screen (letterbox format).

This function allows you to optimise the picture display on screen.

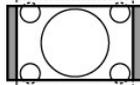
**Using the different formats**

Press the **16:9** key or use the keys **◀▶** to select the different modes: 4:3, Movie Expand 14:9, Movie Expand 16:9, Subtitle Zoom, Superzoom and Widescreen.



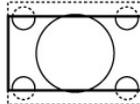
**4:3**

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



**Movie Expand 14:9**

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



**Movie Expand 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).



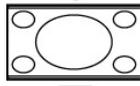
**Subtitle Zoom**

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



**Superzoom**

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



**Widescreen**

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

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

**i+ Screen information**

Press to display information (when available) about the selected TV channel and programme.

Hold down for 5 seconds to permanently display the programme number on the screen.

**\* Mode selector**

The remote control lets you control the main functions of the VCR or DVD.

Press the **MODE** key to select the required mode: **DVD** or **AUX** (VCR).

The remote control indicator lights up to display the selected mode. It switches off automatically after 20 seconds if left idle. The remote control automatically returns to TV mode.

The following keys are operational, depending on the equipment (see p. 13):

⏻, I-II, ●◀▶▶▶, OK, MENU, cursor keys, -P+, digit keys, i+, P+P.

## Quick installation

When you turn on the TV set for the first time, a menu is displayed on screen. This menu prompts you to select the country and language for the menus:



If the menu is not displayed, press the **MENU** key to display the menu.

- 1 Use the keys ▲▼ on the remote control to select your country and validate with ►.  
If your country does not appear in the list, select choice "..."
- 2 Next select your language using the keys ▲▼ and validate with ►.
- 3 The search starts automatically. All the available TV programmes will be stored. This operation takes a few minutes. The display shows the progress of the search and the number of programs found. At the end of the search, the menu disappears.

To exit or interrupt the search, press the **MENU** key. If no programme is found, consult the possible solutions. See *Tips*, p. 14.

- 4 **ATS (Automatic Tuning System):**  
If the transmitter or cable network sends the automatic sort signal, the programs will be numbered correctly. In this case, the installation is complete.

If this is not the case, you need to use the **Sort** menu to number the programs correctly.

- 5 **ACI (Automatic Channel Installation):**  
If a cable system or a TV channel which broadcasts ACI is detected, a programme list appears. Without ACI broadcast, the channels are numbered according your language and country selection. You can use the Sort menu to renumber them.

Some transmitters or cable networks broadcast their own sort parameters (region, language, etc.). In this case, indicate your choice using the keys ▲▼ and validate with ►.

## Program Sort

- 1 Press the **MENU** key.  
The TV menu is displayed on the screen.

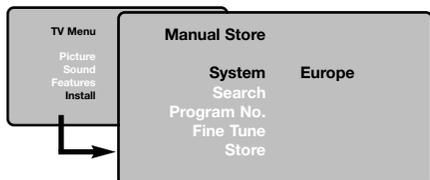


- 2 With the cursor, select the **Install** menu followed by the **Sort** menu.
- 3 Select the programme you want to move using the keys ▲▼ and press ►.
- 4 Then use the keys ▲▼ to select the new number and validate with cursor ◀.
- 5 Repeat steps 3 and 4 for each program you wish to renumber.
- 6 To quit the menus, press the **i+** key.

## Manual Store

This menu is used to store the programmes one at a time.

- 1 Press the **MENU** key.
- 2 With the cursor, select the **Install** menu then **Manual store**.



- 3 **System:** select Europe (automatic detection\*) or Western Europe (BG standard), Eastern Europe (DK standard), United Kingdom (I standard) or France (LL' standard).

\* Except for France (LL' standard), you must select choice France.

- 4 **Search:** press **▶**. The search starts. Once a programme is found, the scanning stops and its name is displayed (when available). Go to the next step. If you know the frequency of the required programme, this can be entered directly using the digit keys.

*If no picture is found, consult Tips, p. 14.*

- 5 **Program No.:** enter the required number with the keys **◀▶** or with the digit keys.
- 6 **Fine Tune:** if the reception is not satisfactory, adjust using the keys **◀▶**.
- 7 **Store:** press **▶**. The programme is stored.
- 8 Repeat steps 4 to 7 for each programme to store.
- 9 To quit the menus, press the **[i+]** key.

## Other settings in the Install menu

- 1 Press the **MENU** key and select the **Install** menu.
- 2 **Language:** to change the display language for the menus.
- 3 **Country:** to select your country (**GB** for Great Britain).

*This setting is used for the search, automatic programme sort and teletext display. If your country does not appear in the list, select "..."*

- 4 **Auto Store:** to start automatic search for all programmes available in your region. If the transmitter or cable network sends the automatic sort signal, the programmes will be numbered correctly. If this is not the case, you need to use the Sort menu to renumber the programmes (see p. 5).

*Some transmitters or cable networks broadcast their own sort parameters (region, language, etc.). In this case, indicate your choice using the keys **▲▼** and validate with **▶**. To quit or interrupt the search, press the **MENU** key.*

*If no picture is found, consult Tips, p. 14.*

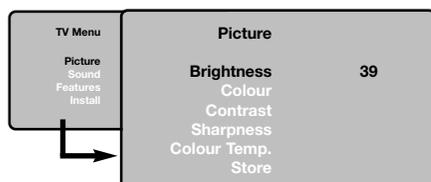
- 5 **Name:** If required, you can give a name to the programmes and external connectors. Use the keys **▲▼** to move around the name display area (5 characters) and the keys **◀▶** to select the characters. When the name has been entered, use the key **◀** to exit. The name is stored.

*Note: on installation, the programs are named automatically when an identification signal is sent.*

- 6 To quit the menus, press the **[i+]** key.

## Picture settings

- 1 Press the **MENU** key then **►**.  
The **Picture** menu is displayed.



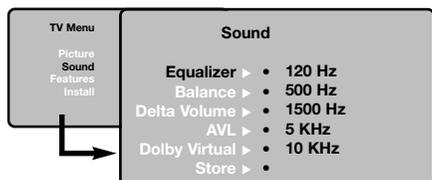
- 2 Use the keys **▲▼** to select a setting and the keys **◀▶** to adjust.
- 3 Once the adjustments have been made, select **Store** and press **►** to store them.  
Press the **i+** key to exit.

### Description of the adjustments:

- **Brightness:** this changes picture brilliance.
- **Colour:** this changes the intensity of the colour.
- **Contrast:** this changes the difference between the light and dark tones.
- **Sharpness:** this changes the picture definition.
- **Colour Temp.:** this changes the colour rendering: **Cool** (bluer), **Normal** (balanced) or **Warm** (redder).
- **Store:** to store the picture adjustments and settings.

## Sound adjustments

- 1 Press **MENU**, select **Sound** (**▼**) and press **►**.  
The **Sound** menu is displayed.



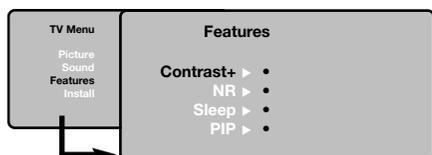
- 2 Use the keys **▲▼** to select a setting and the keys **◀▶** to adjust.
- 3 Once the adjustments have been made, select **Store** and press **►** to store these changes.  
To store *Equalizer* settings, press **MENU**, select **Store** and press **►**.
- 4 To quit the menus, press the **i+** key.

### Description of the settings:

- **Equalizer:** to adjust the sound tone (from bass: 120 Hz to treble: 10 kHz).
- **Balance:** this balances the sound on the left and right speakers.
- **Delta Volume:** this is used to compensate any volume discrepancies between the different programs or EXT sockets. This setting is available for programs 0 to 40 and the EXT sockets.
- **AVL (Automatic Volume Leveller):** this is used to limit increases in sound, especially on program change or advertising slots.
- **Dolby Virtual:** To activate/deactivate the surround sound effect  
*You can also access these settings with the  key.*
- **Store:** this is used to store the sound settings.

## Feature settings

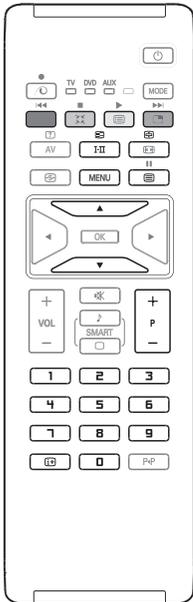
- 1 Press **MENU**, select **Features** (**▼**) and press **►**.



- 2 You can adjust:
  - **Contrast +:** automatic adjustment of the picture contrast which permanently sets the darkest part of the picture to black.
  - **NR:** attenuates picture noise (snow) in difficult reception conditions.
  - **Sleep** (*Only available on certain versions*): to select an automatic standby period.
  - **PIP:** to adjust the size and position of the PIP screen.
- 3 To quit the menus, press the **i+** key.

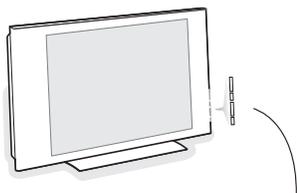
## Teletext

Teletext is an information system broadcast by certain channels which can be consulted like a newspaper. It also offers access to subtitles for viewers with hearing problems or who are not familiar with the transmission language (cable networks, satellite channels, etc.).



Press:	You will obtain:
 <b>Teletext on/off</b>	<p>This is used to call teletext, and then exit. The summary appears with a list of items that can be accessed. Each item has a corresponding 3 digit page number.</p> <p><i>If the channel selected does not broadcast teletext, the indication 100 will be displayed and the screen will remain blank (in this case, exit teletext and select another channel).</i></p>
<b>0/9 -P+</b>	<p>Enter the number of the page required using the 0 to 9 or -P+ keys. 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.</p> <p><i>If the counter continues to search, this means that the page is not transmitted. Select another number.</i></p>
<b>0000</b>	<p><b>Direct access to the items</b></p> <p>Coloured areas are displayed at the bottom of the screen. The 4 coloured keys are used to access the items or corresponding pages.</p> <p><i>The coloured areas flash when the item or the page is not yet available.</i></p>
	<p><b>Contents</b> This returns you to the contents page (usually page 100).</p>
<b>cursor ▲ ▼</b>	<p><b>Enlarge a page</b> This allows you to display the top or bottom part of the page and then return to normal size.</p>
	<p><b>Stop subpage acquisition</b> Certain pages contain subpages which are automatically displayed successively. This key is used to stop or resume subpage acquisition. The indication  appears top left.</p>
 <b>I-II</b>	<p><b>Double page teletext</b> To activate or deactivate the double page teletext display mode. The active page is displayed on the left and the following page is displayed on the right. Press  if you want to hold a page (i.e. the contents page). The active page is then displayed on the right. To return to normal mode, press <b>I-II</b>.</p>
<b>MENU</b> <b>0000</b> 	<p><b>Favourite pages</b> 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.</p> <ol style="list-style-type: none"> <li>➊ Press the <b>MENU</b> key to change the favourite pages mode.</li> <li>➋ Display the teletext page that you want to store.</li> <li>➌ Press the coloured key of your choice for 5 seconds. The page is stored.</li> <li>➍ Repeat steps ➋ to ➌ for the other coloured keys.</li> <li>➎ Now when you consult teletext, your favourite pages will appear in colour at the bottom of the screen; to temporarily retrieve the standard items, press <b>MENU</b>. <i>To clear everything and return to the standard items as the default, press  for 5 seconds.</i></li> </ol>

## Keys on the right side of the TV



Should your remote be lost or broken you can still change some of the basic settings with the keys on the right side of your TV.

Press:

- **POWER** : to switch the TV on or off.
- **+ VOLUME -** : to adjust sound level.
- **+ PROGRAM -** : to select programmes.
- **MENU** : to access or close menus.

The **+ PROGRAM -** keys can be used to select an adjustment and the **+ VOLUME -** keys to make that adjustment.

## Using in PC monitor mode

### NOTE

- When using your TV as a PC monitor, slight diagonal interference lines may be observed when it is operated under electromagnetic interference environment but will not affect the performance of this product.
- For better performance, good quality DVI/VGA cable with good noise isolation filter is recommended.

Your TV can be used as a computer monitor.

*Note: You must first of all connect the computer and adjust the resolution (see p.12).*

- ❶ Press the **AV** key on the remote control to display the **Source list**.
- ❷ Use the keys **▲▼** to select **PC** and then press **▶** to switch the TV to PC mode (**DVI**).
- ❸ To return to TV mode, repeat steps ❶ and ❷, but select **TV** instead.

### Using the PC menus

Press the **MENU** key to access the specific settings of the PC monitor mode. Use the cursor to adjust them (the settings are automatically saved):

#### Picture

- **Brightness/Contrast**: to adjust the brightness and contrast.
- **Horizontal/Vertical\***: to adjust the horizontal and vertical placing of the image.
- **Colour Temp**: to adjust the colours (cool, normal or warm).

### Audio selection

To choose the sound reproduced on the TV (**PC** or **TV**).

#### Features

- **Phase/Clock\***: eliminates the horizontal (**Phase**) and vertical (**Clock**) interfering lines.
- **Format**: to choose between Full screen or Native format.
- **PIP**: to adjust the size and position of the PIP screen.
- **Auto adjust\***: position is set automatically.

### Reset to Factory

To return to the factory settings (default settings).

*\* These adjustments are not available when a computer is connected to the **DVI** input.*

## Using in HD (High Definition) mode

The HD (High Definition) mode allows you to enjoy clearer and sharper pictures through the DVI inputs if you are using a HD receiver/ equipment that can transmit high definition programming.

*You must first of all connect the HD equipment (see p.12).*

- 1 Press the **AV** key on the remote control to display the **Source list**.
- 2 Use the keys **▲▼** to select **HD** and then press **▶** to switch the TV to HD mode.
- 3 To return to TV mode, repeat steps **1** and **2**, but select **TV** instead.

### Using the HD menus

Press the **MENU** key to access the specific settings of the HD mode. Use the cursor to adjust them (the settings are automatically saved):

#### Picture

- **Brightness:** this changes picture brilliance.
- **Colour:** this changes the intensity of the colour.
- **Contrast:** this changes the difference between the light and dark tones.
- **Sharpness:** this changes the picture definitions.
- **Colour Temp.:** this changes the colour rendering: **Cool** (more blue), **Normal** (balanced) or **Warm** (more red).
- **Store:** to store the picture adjustments and settings.

#### Sound

- **Equalizer:** to adjust the sound tone (from bass 120 Hz to treble 10 kHz).
- **Balance:** this balances the sound on the left and right speakers.
- **Delta Volume:** this is used to compensate any volume discrepancies between the different programmes or EXT sockets. This setting is available for programmes 0 to 40 and the EXT sockets.
- **AVL (Automatic Volume Leveler):** this is used to limit increases in sound, especially on programme change or advertising slots.
- **Dolby Virtual:** to activate/deactivate the surround sound effects.

*You can also access these settings with the  key.*

- **Store:** this is used to store the sound settings.

#### Features

- **Sleep:** to select an automatic standby period.
- **PIP:** to adjust the size and position of the PIP screen.
- **Horizontal shift:** adjust the horizontal placing of the image;

## Using PIP in PC and HD mode

*(Only available on certain versions)*

While in PC or HD mode you can call up a window for TV channels.

The PIP function lets you display a superimposed image to watch the TV channels at the same time.

**Attention:** The PIP feature is only available if a computer or HD device is connected to the DVI input and if your PC or HD device has a digital output (**DVI OUT** to **DVI IN**). See p. 12.

- 1 Press the  key to display the PIP screen. The television image is reproduced in a small superimposed window.
- 2 Subsequent presses of the  key changes the size of the window, switches to dual screen and turns PIP off.
- 3 Use the **-P+** keys to change the programmes of the PIP screen.

*Note: No audio selection possible in HD PIP mode.*

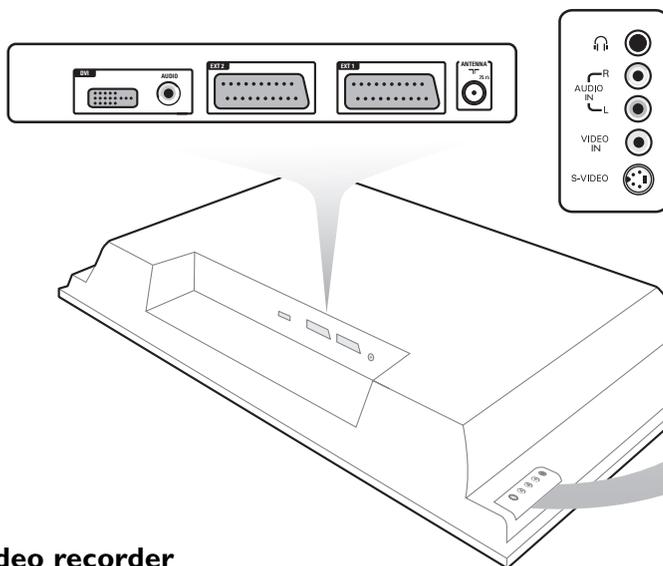
## Connecting Peripheral Equipment

The television has 3 external sockets situated at the back of the set (**EXT1**, **EXT2** and **DVI**) and sockets on the side. Press the **AV** key on the remote control to display the **Source list** and select **TV** or peripheral equipment connected to **EXT1**, **EXT2/SHVS2**, **AV/SVHS3**, **PC** or **HD**.

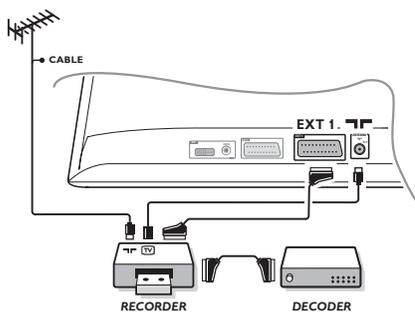
The **EXT1** socket has audio, CVBS/RGB inputs and audio, CVBS outputs.

The **EXT2** socket has audio, CVBS/S-VHS inputs and audio, CVBS outputs.

The side connections has audio inputs, CVBS/S-VHS inputs, headphone out.



### Video recorder



Carry out the connections shown opposite, using a good quality euroconnector cable.

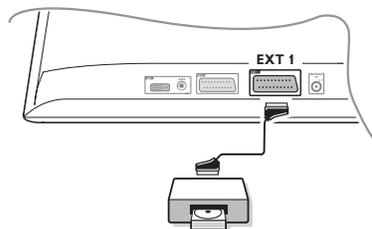
If your video recorder does not have a euroconnector socket, the only connection possible is via the aerial cable. You will therefore need to tune in your video recorder's test signal and assign it programme number 0 (refer to manual store, p. 5).

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

#### 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, DVD, decoder, CDV, games, etc.

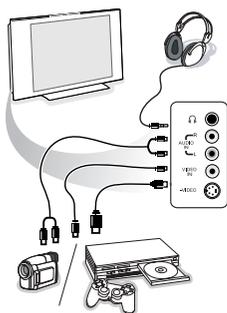
Carry out the connections shown opposite.

Connect the equipment (digital decoder, games, video recorders, certain DVD drives (with RGB)) and other equipment to **EXT1**.

#### To select connected equipment

Press the **AV** key on the remote control to select **EXT1**.

## Side connections



Make the connections as shown opposite.

With the **AV** key, select **AV/SVHS3**.

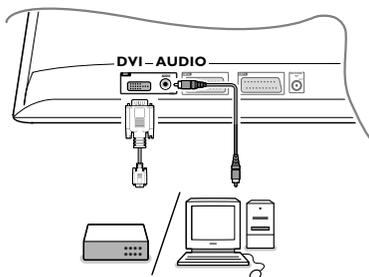
For a mono set, connect the sound signal to the **AUDIO L** (or **AUDIO R**) input. The sound automatically comes out of the left and right speakers of the set.

### Headphones

The **-VOLUME +** keys are used to adjust the volume level.

The headphone impedance must be between 32 and 600 Ohms.

## DVI connector



The DVI connector allows the following TV and monitor display modes:

<b>HD</b>	EDTV	640 x 480i	
	SDTV	640 x 480p	
		720 x 576p	
	HDTV	1920 x 1080i	
		1280 x 720p	
<b>PC</b>	VGA	640 x 480	60, 67, 72, 75 Hz
	SVGA	800 x 600	56, 60, 72, 75 Hz
	XGA	1024 x 768	60, 70, 75 Hz

Note: Configure the computer on 1024 x 768, 60 Hz for optimum resolution. If necessary, you can adjust the picture position to the centre of the screen with the keys ◀▶, ▲▼.

- 1 Select the type of connector of the device (DVD, HDTV, STB, PC, ...) you want to connect with the DVI connector of your TV.

Connector type: Device:	YPbPr / HD-A	VGA	DVI digital stream
DVD	DVD with YPbPr	---	DVD with DVI
HDTV STB	Euro 1080i	---	(future)
Computer	---	PC	PC

- 2 If necessary, use an appropriate adapter.

Connector type: Device:	YPbPr	VGA	DVI digital stream
Adapter (cable)	3 cinch to VGA cable + VGA to DVI	VGA to DVI	

- 3 Connect your device with the **DVI** connector at the bottom of the TV.
- 4 Connect the audio cable to the **DVI AUDIO** input of the TV.

**DVI**



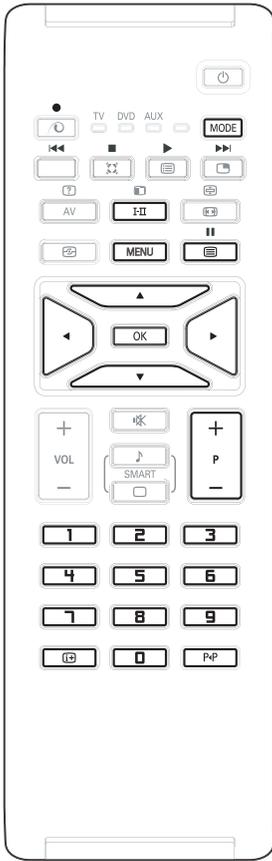
(supplied only with certain versions)

**VGA**



**YPbPr**

## Video recorder or DVD keys



The remote control lets you control the main functions of the VCR of DVD.

Press the **MODE** key to select the required mode: **DVD** or **AUX** (video recorder).

The remote control indicator lights up to display the selected mode. It switched off automatically after 20 seconds if left idle.

The remote control automatically returns to TV mode.

The following keys are operational, depending on the equipment:

	standby
	fast rewind
	fast forward
	recording
	pause
	stop
	play
<b>MENU</b>	menu
	cursor navigation and adjustments
<b>OK</b>	validation
<b>0 - 9</b>	digit entry
<b>- P +</b>	programme selection
	OSD menu
<b>P4P</b>	T-C function (DVD); index function (VCR)

*The remote control is compatible with all Philips AV equipment using the RC5 standard and all DVDs using the RC6 standard.*



Your TV is equipped with a Kensington Security Slot, to prevent it from getting stolen.

An anti-theft Kensington lock has to be purchased separately.

The Kensington lock is a plastic-coated steel cable with a lock. One end has to be fixed to the opening of the TV and locked with a special key. The other end is attached to a fixed point.

*® Kensington and MicroSaver are registred US trademarks of ACCO World Corporation with issued registrations and pending applications in other countries throughout the world. All other registred and unregistred trademarks are the property of their respective owners.*

## Tips

<b>Poor reception</b>	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 Tune (p. 6) or modify the orientation of the outside aerial. If you are using an indoor aerial, reception may be difficult in certain conditions. You can improve reception by rotating the aerial. If the reception remains poor, you will need to use an external aerial.
<b>No picture</b>	Have you connected the aerial socket properly? Have you chosen the right system? (p. 6). 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.
<b>Digital distortion</b>	The low quality of some digital picture material may be the cause of digital image distortion. In this case select the Soft setting using the Smart picture key <input type="checkbox"/> on the remote control.
<b>No sound</b>	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 amplifier connected to the TV does not deliver any sound? Check that you have not confused the audio output with the audio input.
<b>PC and PIP modes don't work ?</b>	Check that you have configured the computer on a compatible display resolution (see p. 12).
<b>Remote control</b>	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 battery.
<b>Standby</b>	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 1 W).
<b>Cleaning the set</b>	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.
<b>Still no results?</b>	Disconnect the mains plug of the TV for 30 seconds then reconnect it. If your TV set breaks down, never attempt to repair it yourself: contact your dealer's after-sales service.

## Glossary

**DVI** (Digital Visual Interface): A digital interface standard created by the Digital Display Working Group (DDWG) to convert analog signals into digital signals to accommodate both analog and digital monitors.

**VGA** (Video Graphics Array): a common standard graphics display system for PCs.

**RGB signals**: These are the three video signals, Red Green Blue, which make up the picture. Using these signals improves picture quality.

**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.

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

**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. 5) is used to select these different standards. This is not to be confused with PAL or SECAM colour coding. Pal is used in most countries in Europe, Secam in France, Russia and most African countries. The inputs **EXT1** and **EXT2** are used to read NTSC coded recordings.

**Table of TV frequencies.**  
**Frequenztafel der Fernsehsender.**  
**Liste des fréquences des émetteurs.**  
**Frequenztafel TV-Zenders.**  
**Tabella delle frequenze delle trasmissioni.**  
**Lista das frecuencias de las emisoras.**  
**Lista das frequências dos emissores.**  
**Table over TV senderne.**  
**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 pásem vysielateľov.**

EUROPE	
CH..FREQ (MHz)	
E2.....48.25	
E3.....55.25	
E4.....62.25	
E5.....175.25	
E6.....182.25	
E7.....189.25	
E8.....196.25	
E9.....203.25	
E10.....210.25	
E11.....217.25	
E12.....224.25	
S1.....105.25	
S2.....112.25	
S3.....119.25	
S4.....126.25	
S5.....133.25	
S6.....140.25	
S7.....147.25	
S8.....154.25	
S9.....161.25	
S10.....168.25	
S11.....231.25	
S12.....238.25	
S13.....245.25	
S14.....252.25	
S15.....259.25	
S16.....266.25	
S17.....273.25	
S18.....280.25	
S19.....287.25	
S20.....294.25	
H1.....301.25	
H2.....311.25	
H3.....319.25	
H4.....327.25	
H5.....335.25	
H6.....343.25	
H7.....351.25	
H8.....359.25	
H9.....367.25	
H10.....375.25	
H11.....383.25	
H12.....391.25	
H13.....399.25	
H14.....407.25	
H15.....415.25	
H16.....423.25	
H17.....431.25	
H18.....439.25	
H19.....447.25	
21.....471.25	
22.....479.25	
23.....487.25	
24.....495.25	
25.....503.25	
26.....511.25	
27.....519.25	
28.....527.25	
29.....535.25	
30.....543.25	
31.....551.25	
32.....559.25	
33.....567.25	
34.....575.25	
35.....583.25	
36.....591.25	
37.....599.25	
38.....607.25	
39.....615.25	
40.....623.25	
41.....631.25	
42.....639.25	
43.....647.25	
44.....655.25	
45.....663.25	
46.....671.25	
47.....679.25	
48.....687.25	
49.....695.25	
50.....703.25	
51.....711.25	
52.....719.25	
53.....727.25	
54.....735.25	
55.....743.25	
56.....751.25	
57.....759.25	
58.....767.25	
59.....775.25	
60.....783.25	
61.....791.25	
62.....799.25	
63.....807.25	
64.....815.25	
65.....823.25	
66.....831.25	
67.....839.25	
68.....847.25	
69.....855.25	

E-UROPE	
CAN..FREQ (MHz)	
R1.....49.75	
R2.....59.25	
R3.....77.25	
R4.....85.25	
R5.....93.25	
R6.....175.25	
R7.....183.25	
R8.....191.25	
R9.....199.25	
R10.....207.25	
R11.....215.25	
R12.....223.25	
S1.....105.25	
S2.....112.25	
S3.....119.25	
S4.....126.25	
S5.....133.25	
S6.....140.25	
S7.....147.25	
S8.....154.25	
S9.....161.25	
S10.....168.25	
S11.....231.25	
S12.....238.25	
S13.....245.25	
S14.....252.25	
S15.....259.25	
S16.....266.25	
S17.....273.25	
S18.....280.25	
S19.....287.25	
S20.....294.25	
H1.....301.25	
H2.....311.25	
H3.....319.25	
H4.....327.25	
H5.....335.25	
H6.....343.25	
H7.....351.25	
H8.....359.25	
H9.....367.25	
H10.....375.25	
H11.....383.25	
H12.....391.25	
H13.....399.25	
H14.....407.25	
H15.....415.25	
H16.....423.25	
H17.....431.25	
H18.....439.25	
H19.....447.25	
21.....471.25	
22.....479.25	
23.....487.25	
24.....495.25	
25.....503.25	
26.....511.25	
27.....519.25	
28.....527.25	
29.....535.25	
30.....543.25	
31.....551.25	
32.....559.25	
33.....567.25	
34.....575.25	
35.....583.25	
36.....591.25	
37.....599.25	
38.....607.25	
39.....615.25	
40.....623.25	
41.....631.25	
42.....639.25	
43.....647.25	
44.....655.25	
45.....663.25	
46.....671.25	
47.....679.25	
48.....687.25	
49.....695.25	
50.....703.25	
51.....711.25	
52.....719.25	
53.....727.25	
54.....735.25	
55.....743.25	
56.....751.25	
57.....759.25	
58.....767.25	
59.....775.25	
60.....783.25	
61.....791.25	
62.....799.25	
63.....807.25	
64.....815.25	
65.....823.25	
66.....831.25	
67.....839.25	
68.....847.25	
69.....855.25	

FRANCE	
CAN..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	
R11.....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	
H1.....303.25	
H2.....311.25	
H3.....319.25	
H4.....327.25	
H5.....335.25	
H6.....343.25	
H7.....351.25	
H8.....359.25	
H9.....367.25	
H10.....375.25	
H11.....383.25	
H12.....391.25	
H13.....399.25	
H14.....407.25	
H15.....415.25	
H16.....423.25	
H17.....431.25	
H18.....439.25	
H19.....447.25	
21.....471.25	
22.....479.25	
23.....487.25	
24.....495.25	
25.....503.25	
26.....511.25	
27.....519.25	
28.....527.25	
29.....535.25	
30.....543.25	
31.....551.25	
32.....559.25	
33.....567.25	
34.....575.25	
35.....583.25	
36.....591.25	
37.....599.25	
38.....607.25	
39.....615.25	
40.....623.25	
41.....631.25	
42.....639.25	
43.....647.25	
44.....655.25	
45.....663.25	
46.....671.25	
47.....679.25	
48.....687.25	
49.....695.25	
50.....703.25	
51.....711.25	
52.....719.25	
53.....727.25	
54.....735.25	
55.....743.25	
56.....751.25	
57.....759.25	
58.....767.25	
59.....775.25	
60.....783.25	
61.....791.25	
62.....799.25	
63.....807.25	
64.....815.25	
65.....823.25	
66.....831.25	
67.....839.25	
68.....847.25	
69.....855.25	

ITALY	
CAN..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	
S1.....105.25	
S2.....112.25	
S3.....119.25	
S4.....126.25	
S5.....133.25	
S6.....140.25	
S7.....147.25	
S8.....154.25	
S9.....161.25	
S10.....168.25	
S11.....231.25	
S12.....238.25	
S13.....245.25	
S14.....252.25	
S15.....259.25	
S16.....266.25	
S17.....273.25	
S18.....280.25	
S19.....287.25	
S20.....294.25	
H1.....301.25	
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H3.....319.25	
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44.....655.25	
45.....663.25	
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47.....679.25	
48.....687.25	
49.....695.25	
50.....703.25	
51.....711.25	
52.....719.25	
53.....727.25	
54.....735.25	
55.....743.25	
56.....751.25	
57.....759.25	
58.....767.25	
59.....775.25	
60.....783.25	
61.....791.25	
62.....799.25	
63.....807.25	
64.....815.25	
65.....823.25	
66.....831.25	
67.....839.25	
68.....847.25	
69.....855.25	

**GB**  
 The frequencies used by a cable company may differ from the frequencies on the table. Consult your cable company or your dealer for detailed information.

**D**  
 In Kabelfernsehanlagen können Abweichungen von den in den Frequenztabellen aufgeführten Frequenzen vorkommen. Bitte wenden Sie sich an Ihren Fachhändler oder Ihre Kabelfernsehgesellschaft, die Ihnen die zutreffenden Frequenzen mitteilt.

**F**  
 Les fréquences utilisées par une société de télédistribution peuvent être différentes de celles sur la liste des fréquences. Consultez votre société de télédistribution ou votre revendeur pour des informations plus détaillées.

**NL**  
 De frequenties die gebruikt worden door een kabelmaatschappij kunnen verschillen van deze op de tabel. Raadpleeg uw kabelexploitant of uw handelaar voor meer informatie.

**I**  
 Le frequenze usate per una società di tele Distribuzione possono essere differenti di quelle nella tabella. Consultate la società di tele Distribuzione o il vostro rivenditore per informazione specifica.

**E**  
 Las frecuencias utilizadas por las empresas de distribución de señal por cable, pueden ser diferentes de las que se encuentran en esta tabla. Consulte con su compañía de distribución de televisión por cable o con su distribuidor para que le proporcionen una información más detallada.

**P**  
 As frequências utilizadas por uma sociedade de tele Distribuição podem ser diferentes das indicadas na lista de frequências. Consultar a sociedade de tele Distribuição ou o vendedor para informações mais detalhadas.

**DK**  
 Frekvenser benyttet af kabel operatører kan være afvigende fra disse, kontakt deres kabel operatør eller forhandler for nærmere informa-tion.

**N**  
 Frekvensene som benyttes på et kabelnett kan avvike fra de som er oppført i tabellen. Kontakt ditt kabel-TV selskap eller din forhandler for nærmere opplysninger.

**S**  
 Frekvenserna som används i kabel-TV-näten kan avvika från frekvenserna i tabellen. Kontakta ditt kabel-TV-bolag eller din radiohandlare för vidare information.

**SF**  
 Kaapeliyhtiöiden käyttämät taajuudet voivat poiketa taulukossa olevista taajuuksista. Tarkat tiedot saat kaapeliyhtiöstä tai myyjältä.

**GR**  
 Οι συχνότητες που χρησιμοποιούνται από μια εταιρεία τηλεμετάδοσης είναι δυνατόν να είναι διαφορετικές από αυτές που περιέχει ο κατάλογος. (Συμβουλευθείτε την εταιρεία τηλεμετάδοσης ή τον πωλητή για λεπτομερέστερες πληροφορίες).

**CEI**  
 Частоты на которых передаёт телекампания могут отличаться от частот на данной таблице. (Обратиться к Вашей телекомпания или Вашему продавцу за дополнительной информацией).

**H**  
 Egy televízió-adóállomás sugárzásához használt frekvenciatarományai lehetnek a táblázatban közöltéktől eltérőek is. (Abban az esetben, ha bővebb információkra van szükség, forduljon az eladóhoz.)

**PL**  
 Operator sieci telewizyjnej może stosować inne częstotliwości, niż te, które figurują na tablicy (bardziej szczegółowych informacji na ten temat zapytać u operatora lub sprzedawcy).

**CZ**  
 Frekvence používané některými televizními společnostmi se mohou lišit od údajů uvedených v tomto seznamu. Informujte se blíže u příslušné společnosti nebo v prodejně, kde jste televizor koupili.

**SK**  
 Frekvencie používané niektorými spoločnosťami televízneho prenosu sa môžu líšiť od údajov uvedených v tomto zozname. Informujte sa bližšie u príslušnej spoločnosti alebo v predajni, kde ste televizor kúpili.



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