## Table of contents

- 1 Important 3
- 1.1 Safety 3
- 1.2 Care of the screen 3
- 1.3 Recycling 3
- 2 Your TV 4
- 2.1 Television overview 4
- 2.2 Product highlights 5
- 3 Getting started 5
- 3.1 Position the TV 5
- 3.2 Wall mounting VESA 6
- 3.3 Remote control batteries 7
- 3.4 Antenna cable 7
- 3.5 Connect the mains 7
- 3.6 First time installation 7
- 4 Use your TV 7
- 4.1 Switch on or off Standby 7
- 4.2 Watch TV 8
- 4.3 Watch channels from a digital receiver 8
- 4.4 Watch connected devices 8
- 4.5 Watch a DVD 9
- 4.6 Select a Teletext page 9
- 5 Use more of your TV 10
- 5.1 Remote Control overview 10
- 5.2 TV menu overview 11
- 5.3 Picture and sound settings 13
- 5.4 Teletext 17
- 5.5 Create favourite channel lists 18
- 5.6 Timers and locks 18
- 5.7 Subtitles 19
- 5.8 View and play photos, MP3... 20
- 5.9 Software update 22
- 6 Channel installation 24
- 6.1 Automatic channel installation 24
- 6.2 Manual channel installation 25
- 6.3 Rearrange stored channels 25
- 6.4 Automatic channel management 26
- 6.5 Factory settings 26

7 Connections (DVD, receiver, ...) 27

- 7.1 Connections overview 27
- 7.2 About connecting 28
- 7.3 Connect your devices 30
- 7.4 Connections setup 35
- 8 Technical data 36
- 9 Troubleshooting 37
- 10 Index 39

Register your product and get support at www.philips.com/welcome.

Table of contents

2007 © Koninklijke Philips Electronics N.V. All rights reserved. Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips Electronics N.V. or their respective owners.

Philips reserves the right to change products at any time without being obliged to adjust earlier supplies accordingly.

The material in this manual is believed adequate for the intended use of the system. If the product, or its individual modules or procedures, are used for purposes other than those specified herein, confirmation of their validity and suitability must be obtained. Philips warrants that the material itself does not infringe any United States patents. No further warranty is expressed or implied.

#### Warranty

No components are user-serviceable. Do not open or remove covers to the inside of the product. Repairs may only be done by Philips Service Centres and official repairshops. Failure to do so shall void any warranty, stated or implied. Any operation expressly prohibited in this manual, any adjustments, or assembly procedures not recommended or authorised in this manual shall void the warranty

#### Pixel characteristics

This LCD product has a high number of colour pixels. Although it has effective pixels of 99,999% or more, black dots or bright points of light (red, green or blue) may appear constantly on the screen. This is a structural property of the display (within common industry standards) and is not a malfunction.

#### Open source software

This television contains open source software. Philips hereby offers to deliver or make available, upon request, for a charge no more than the cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code on a medium customarily used for software interchange.

This offer is valid for a period of 3 years after the date of purchase of this product. To obtain the source code, write to

Philips Innovative Applications N.V. Ass. to the Development Manager Pathoekeweg 11 B-8000 Brugge Belgium

#### Compliance with EMF

Koninklijke Philips Electronics N.V. manufactures and sells many products targeted at consumers, which, like any electronic apparatus, in general have the ability to emit and receive electromagnetic signals.

One of Philips' leading Business Principles is to take all necessary health and safety measures for our products, to comply with all applicable legal requirements and to stay well within the EMF standards applicable at the time of producing the

Philips is committed to develop, produce and market products that cause no adverse health effects.

Philips confirms that if its products are handled properly for their intended use, they are safe to use according to scientific evidence available today.

Philips plays an active role in the development of international EMF and safety standards, enabling Philips to anticipate further developments in standardisation for early integration in its products.

#### Copyrights



VESA, FDMI and the VESA Mounting Compliant logo are trademarks of the Video Electronics Standards Association.



Manufactured under license from Dolby Laboratories. 'Dolby', 'Pro Logic' and the double D symbol DO, are trademarks of Dolby Laboratories.

## BBE<sub>®</sub>

Manufactured under license from BBE Sound, Inc. Licensed by BBE, Inc under one or more of the following US patents: 5510752, 5736897. BBE and BBE symbol are registered trademarks of BBE Sound

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

® Windows Media is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.

Pagina 3

## **Important**

Read this user manual before you start to use this product.

Pay attention to this section and closely follow the instructions. The warranty does not apply to damage caused by not taking into account the instructions.

#### 1.1 Safety

- To avoid short circuit, do not expose the product to rain or water.
- · To avoid a risk of fire or electric shock do not place naked flame sources (e.g. lighted candles) close to the TV.
- · Leave a space of at least 10cm (4 inches) all around the TV for ventilation.
- · Keep away from radiators or other heat sources.
- Do not install the TV in a confined space such as a book case. Make sure that curtains, cupboards and so on cannot obstruct the air flow through the ventilation slots.
- Make sure the TV can not fall down. Place the TV on a solid and flat surface and only use the stand provided with the TV.
- · To prevent damaging the mains cord which may cause a fire or electric shock, do not place the TV on the cord or anything else that can pinch the cord.
- When mounted on a swivel stand or VESA wall bracket avoid force coming on the mains plugs. Partly loosened mains plugs can cause arcing or fire.

#### 1.2 Care of the screen

- Unplug the TV before cleaning.
- Clean the surface with a soft damp cloth. Do not apply any other substance (chemical or household cleaning agent). This may damage the
- Do not touch, push or rub or strike the screen with anything hard as this may scratch, mar or damage the screen permanently.
- · To avoid deformations and colour fading, wipe off water drops as soon as possible.

Stationary images

Avoid stationary images as much as possible. If you can not, reduce screen contrast and brightness to prevent damage to the screen. Stationary images are images that remain on the screen for a long time. Examples of stationary images are: on screen menus, teletext pages, black bars, stock market information, TV channel logos, time displays, and so on.

#### 1.3 Recycling

- Take the packaging to your local recycling centre.
- Dispose old batteries safely according local regulations.
- · This product is designed and manufactured for material recycling and re-use.
- This product should not be disposed with other household waste. Inform yourself or ask your dealer about local environmentally safe recycling and local regulations. Uncontrolled waste disposal harms the environment and human health. (EEC 2002/96/EC)



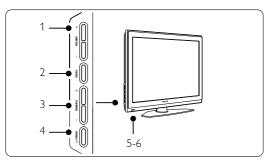
Important

## 2 Your TV

This section gives you an overview of the controls and functions of this TV.

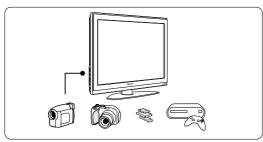
### 2.1 Television overview

#### **Side controls**



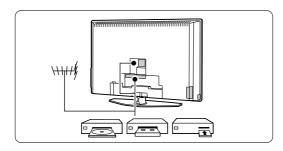
- 1 Volume up and down
- 2 Menu
- 3 Program or Channel up and down
- 4 Power switch
- 5 Led indicator (Blue: On; Red: Standby)
- 6 Remote control sensor

#### Side connectors



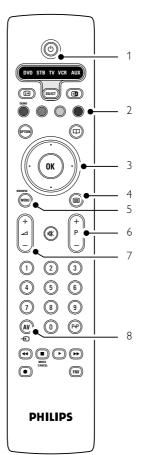
To connect a camera, game console, headphone or a USB memory device.

#### **Back connectors**



To connect the antenna, DVD, VCR or other device.

#### Remote control



- 1 Standby or On
- 2 Colour keys
- 3 Navigation key (up, down, left, right) **OK**
- 4 Teletext key
- 5 Menu key
- 6 Programme up or down
- 7 Volume up or down
- 8 DVD, VCR, ... device selection

Find more on your remote control in section **5.1** Remote control overview.

4 YourTV

#### 2.2 **Product highlights**

Your new TV is equipped with some of the most modern audio or video innovations. Your TV offers the following advantages ...

#### Perfect Pixel HD

Offers perfect picture quality from any source.

#### 100 Hz Clear LCD

Results in superior sharpness of motion reproduction, better black level, high contrast with a flicker free, quiet image and a larger viewing angle.

#### **HDMI** connectors

3 HDMI connectors for highest quality high definition connectivity.

#### USB connection

Multimedia connection for instantly view or play your photos or music.

#### **Getting started** 3

This section helps you with the positioning and the first time installation of the TV.

#### Position the TV 3.1

#### Warning

Carefully read the safety precautions in section 1.1 **Safety** before you position the TV.

Large screen TVs are heavy. Carry and handle the TV with at least two persons.

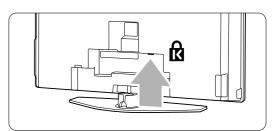
Connect your devices first before you position your TV or mount it on the wall.

The ideal viewing distance for watching TV is three times its screensize.

For ideal viewing conditions, position the TV where light does not fall directly on the screen.

#### Kensington Security Slot

Your TV is equipped with a Kensington Security Slot at the back of the TV for an anti-theft lock. An anti-theft Kensington lock has to be purchased separately.



Your TV

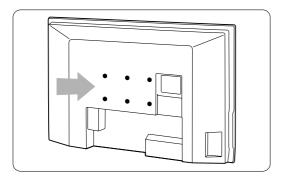
## 3.2 VESA compliant mounting

#### Caution

Use a VESA compliant bracket that meets safety standards according to the TV's weight. Closely follow the instructions that come with your VESA compliant bracket to mount the TV. Koninklijke Philips Electronics N.V. bears no responsibility for improper mounting or mounting that results in accident or injury.

The TV is prepared for VESA compliant mounting. This bracket is not included. Use a VESA compliant bracket with code VESA MIS-E, 200, 100, 4.

#### Prepare the TV for VESA compliant mounting.



Locate the 6 VESA screwholes on the back of the TV.

YourTV

### 3.3 Remote control batteries



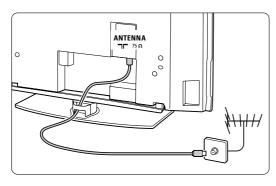
- Open the battery cover on the back of the remote control.
- 2 Insert the 2 batteries supplied (Type AA-R6-1,5V). Make sure the + and ends of the batteries line up correctly (inside of case is marked.)
- 3 Close the cover.

#### **⊜** Note

Remove the batteries if you don't use the remote control for a long time.

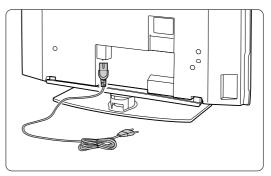
#### 3.4 Antenna cable

- 1 Locate the antenna connection at the back of the TV.
- 2 Insert the antenna cable tightly into the antenna socket **T** Antenna.



### 3.5 Connect the mains cord

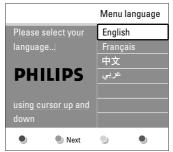
- Verify that your mains voltage corresponds with the voltage printed on the sticker at the back of the TV. Do not insert the mains cord if the voltage is different.
- 2 Insert the mains cord tightly.



The TV is never powered off completely unless the mains cord is physically unplugged. Therefore the mains plug must be accessible at all time.

#### 3.6 First time installation

The first time, and only the first time, the mains cord is inserted, the installation procedures starts up automatically. Follow the instructions on screen.



#### ♣ Tips

- If you notice you have selected a wrong language, press the red key on the remote control to return to the language selection menu.
- To rearrange the stored channels, see section **6.3** Rearrange stored channels.

Your TV 7

## 4 Use your TV

Learn how to operate your TV for daily use.

### 4.1 Switch on or off - Standby

To switch on the TV:

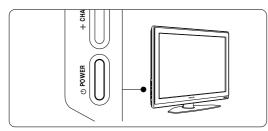
- Press **()** Power at the side of the TV if the standby led is off.
- Press (b) on the remote control if the standby led in on.

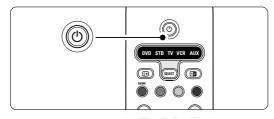
To switch to standby:

• Press (b) on the remote control.

To switch on from standby without remote control:

• Press (b) Power at the side of the TV to switch off first and press (b) Power again to switch on.





To switch off:

• Press (1) Power at the side of the TV.

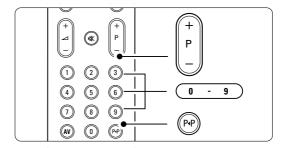
#### **⊜** Note

Energy consumption contributes to air and water pollution. As long as the mains cord is plugged in, the TV consumes energy. This TV has a very low standby power consumption.

#### 4.2 Watch TV

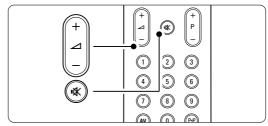
#### 4.2.1 Switch channels

- 1 To switch TV channels:
  - Press a number or press **P+** or **P-** on your remote control.
  - Press **Program/Channel** or + on the side controls of the TV.
- 2 Press PP to return to the previously viewed TV channel .



#### 4.2.2 Adjust volume

- 1 To adjust the volume:
  - ullet Press  $oldsymbol{arDelta}$  + or on the remote control
  - Press Volume + or on the side controls of your TV.
- **2** To mute the sound:
  - Press on the remote control
  - Press 🖈 again to restore the sound.



# 4.3 Watch channels from a digital receiver

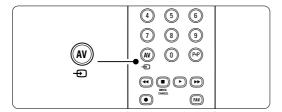
- Switch on the digital receiver.

  The picture from your receiver might appear automatically on your screen.
- 2 Use the remote control of your digital receiver to select TV channels.

Use yourTV

If the picture does not appear:

1 Press AV • on the remote control.



- Press AV repeatedly to select the device.

  Wait a few seconds until the picture appears.
- 3 Press OK.
- 4 Use the remote control of the digital receiver to select TV channels.

#### 4.4 Watch connected devices

Switch on the device.

The picture from your device might appear automatically.

If the picture does not appear:

- 2 Press AV on the remote control.
- Press AV repeatedly to select the device.

  Wait a few seconds until the picture appears.
- 4 Press OK.
- 5 Use the remote control of your device to select TV channels.

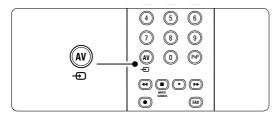
#### 4.5 Watch a DVD

- 1 Insert a DVD disc in your player.
- Press Play ▶.

  The picture from your player appears automatically on your screen.

If the picture does not appear:

**1** Press **AV →** on the remote control.



Press AV • repeatedly to select the DVD player. Wait a few seconds until the picture appears.

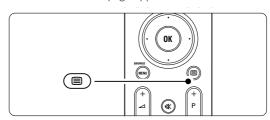
- 3 Press OK.
- 4 Press Play ▶.

## 4.6 Select a Teletext page

TV channels often broadcast information via Teletext. If Teletext is available only English Teletext is supported. China does not support this function due to no Teletext available.

To watch Teletext:

1 Press 
.
The main index page appears.



- 2 To select a page of your choice:
  - Enter the page number with the number keys.
  - Press P- or P+ or navigation key up, down to view the next or the previous page.
  - Press a colour key to select one of the colour coded items at the bottom of the screen.

#### Tip

Press PP to return to the previously viewed page.

3 Press again to switch Teletext off.

For more information on teletext, see section **5.4 Teletext**.

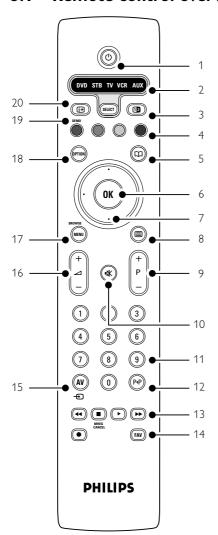
Use your TV 9

## 5 Use more of your TV

This section deals with the more advanced use of your TV:

- how to use the menus
- · to adjust the picture and sound settings
- more about Teletext (if available)
- · how to create favourite channel lists
- · how to set locks and timers
- to set subtitles and select a subtitle language
- how you can view your photos or play your favourite music from a USB memory device.

#### 5.1 Remote control overview



#### 1 Standby (1)

To switch the TV on or back to standby.

#### 2 DVD STB TV VCR AUX SELECT

To select the control of connected Philips devices or to return to TV mode.

#### 3 Dual screen 12

To show teletext on the right and the picture on the left of the screen.

#### 4 Colour keys

- Easy selection of teletext pages.
- · Easy selection of tasks.
- 5 **Guide**  no function

#### 6 **OK**

- To display the channel list.
- To activate a setting.

#### 7 Navigation key

To navigate the menu.

## 8 Teletext

To switch teletext on or off, if available.

#### 9 +P- Channel up or down

To switch to the next or previous channel in the channel list.

#### 10 **Mute ★**

To mute the sound or restore it.

#### 11 Number keys

To select a TV channel.

#### 12 Previous channel PIP

To return to the previously viewed channel.

#### 13 Audio and video keys ◀ ■ ▶ ▶ ●

To use with connected Philips devices.

### • MHEG cancel no function

14 **Favourite channel list FAV**To display the favourite channels list.

## 15 AV -€

To select a connected device.

## 16 Volume up or down ⊿

To adjust the volume.

#### 17 Menu

To switch the menu on or off.

#### 18 **Option**

To switch the Quick access menu on or off.

#### 19 Demo

To switch the Demo menu on and to get a demonstration of the features of the TV.

#### 20 On screen information [i+

To show channel or programme information if available.

See section 10 Index to find the section in the manual about a specific remote control key.

#### 5.1.2 **Operate connected Philips devices** with the TV remote control

Most of the audio and video devices from our range of products can be operated with the remote control of the TV.

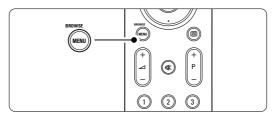
- 1 Press **SELECT** to select one of the devices you want to operate with this remote control.
- 2 Use the audio and video keys to:
  - rewind or search down (◄◄)
  - stop (**■**)
  - play or pause (▶)
  - fast forward or search up (►►)
  - record (●)

#### 5.2 TV menu overview

With the on screen menus you install your TV, adjust picture and sound settings and access features. This section gives an overview of the menus and describes how to navigate.

#### 5.2.1 The menu

- 1 Press Menu on the remote control to show the main menu.
- 2 Press Menu to quit the menu.





The main menu offers the following items:

Select this menu for installation, picture and sound settings and other feature settings.

#### · Channel list

Select this item to show the Channel list. Create your Favourite channel lists here.

#### • Multimedia

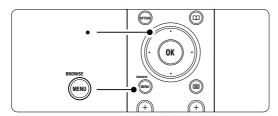
Select this item to view photos or play music stored on a USB device. See section 5.8 View and play photos, MP3, ...

Use more of your  $\mathsf{TV}$ 11

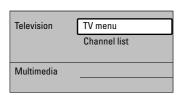
#### 5.2.2 Use of the menu

Learn to use the menus with this example.

1 Press Menu on the remote control.



The main menu appears on the screen.



Press navigation key right to enter the TV menu.

TV menu	TV settings
TV settings	Settings assistant
Features	Reset to standard
Installation	Picture
Software update	Sound

3 Press navigation key right to enter the TV settings menu.

Settings assistant
Start now

4 Press navigation key down to select **Picture**.

TV settings	Picture
Settings assistent	Contrast
Reset to standard	Brightness
Picture	Colour
Sound	Hue
Ambilight	Sharpness
	Tint
	Perfect Pixel HD

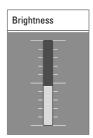
**5** Press navigation key right to enter the picture settings.

Picture		Contrast
Contrast	90	
Brightness	47	
Colour	52	
Hue	0	
Sharpness	4	
Tint		

6 Press navigation key down to select **Brightness**.

Picture		Brightness
Contrast	98	
Brightness	47	
Colour	52	
Hue	0	
Sharpness	4	
Tint		

**7** Press navigation key right to enter the Brightness setting.

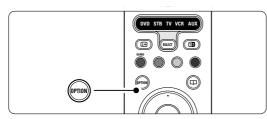


- 8 Press navigation key up or down to adjust the setting.
- **9** Press navigation key left to return to the Picture settings or press **Menu** to quit the menu.

#### 5.2.3 Quick access menu

The Quick access menu gives direct access to some often needed menu items.

- 1 Press Option on the remote control.
- **2** Press navigation key up or down to select an option.
- 3 Press OK to show the selected option menu.
- 4 Press navigation key up, down, left, right to adjust the settings in the menu.
- 5 Press Option to quit the menu.



• Subtitles

See section 5.7 Subtitles.

Picture format

See section 5.3.4 Widescreen picture format.

· Equalizer

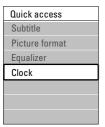
See section 5.3.5 Sound settings.

Clock

Not applicable in case of no Teletext present.

#### Display the clock

- 1 Press OK to display the clock permanently.
- 2 Press Option and press navigation key up or down to select Clock again.
- 3 Press **OK** to hide the clock.



## 5.3 Picture and Sound settings

This section describes how to adjust picture and sound in the menus.

#### 5.3.1 Settings assistant

Use the Settings assistant to guide you through basic picture and sound settings in an easy way.

- Press Menu on the remote control and select TV menu > TV settings > Settings assistant and press navigation key right to enter.
- 2 Press OK.
- 3 Press the green key on the remote control to start the assistant.
- 4 Press navigation key left or right to select the left or right side to make your choice.
- Press the green key to go to the next setting. You will go through several settings. When finished the TV will ask you to store these settings.
- 6 Press the green key to store all your settings.
- 7 Press Menu to quit the menu.

#### 5.3.2 Reset to standards

Sets the TV to one of the predefined settings. Each setting combines picture and sound.

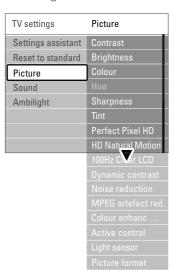
- 1 Press Menu on the remote control and select TV menu > TV settings > Reset to standard and press navigation key right to enter the list.
- **2** Press navigation key up or down to select a setting.
- **3** Press the green key to store your selection.
- 4 Press **Menu** to quit the menu.

Standard settings: Current, Natural, Vivid, Movie

#### 5.3.3 Picture settings

This section describes how to adjust all picture settings.

- 1 Press **Menu** on the remote control and select TV menu > TV settings > **Picture** and press navigation key right to enter the list.
- **2** Press navigation key up or down to select a setting.



#### Contrast

Changes the level of bright parts in the picture but keeps the dark parts unchanged.

### • Brightness

Changes the level of light of the total picture.

#### Colour

Changes the level of saturation.

#### Hue

If NTSC is broadcasted, this level compensates the colour variations.

#### Sharpness

Changes the level of sharpness of fine details.

#### Tint

Sets the colours to Normal, Warm (reddish) or Cool (bluish). Select Custom to make a setting of your own in the Custom tint menu.

#### • Custom tint

If Custom is selected in the Tint menu you can make a setting of your own here.

Press the green key to select each bar to change the value of:

- R-WP red whitepoint
- G-WP green whitepoint
- B-WP blue whitepoint
- R-BL red blacklevel
- G-BL green blacklevel

#### · Perfect Pixel HD

Enables or disables Perfect Pixel HD, the most ideal picture setting.

#### • HD Natural Motion

Reduces the field and line flicker and reproduces smooth movement especially in movies. Set the level to Minimum, Maximum or Off.

#### • 100 Hz Clear LCD

Switches 100 Hz Clear LCD on or off.

#### · Dynamic contrast

Enhances the contrast in the picture as the image on the screen changes.

Set the level to Minimum, Medium, Maximum or Off. The level medium is recommended.

#### Noise reduction

Filters out and reduces the noise in the picture. Set the level to Minimum, Medium, Maximum or Off.

#### • MPEG artefact reduction

Smoothens the transitions on digital pictures. Switches MPEG artefact reduction on or off.

#### · Colour enhancement

Makes the colours more vivid and improves the resolution of details in bright colours.

Set the level to Minimum, Medium, Maximum or

#### Active control

Corrects all incoming signals in order to provide the best picture possible.

Switches Active control on or off.

#### • Light sensor

Adjusts the picture settings on the lighting conditions in the room.

Switches Light sensor on or off.

#### · Picture format

See section 5.3.4 Widescreen picture format.

Pagina 15

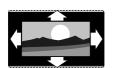
#### Widescreen picture format

Avoid black bars on the sides or on top and bottom of the picture. Change the picture format to a format that fills the screen.

- 1 Press Menu on the remote control and select TV menu > TV settings > Picture > **Picture** format and press navigation key right to enter
- 2 Press navigation key up or down to select an available picture format.
- 3 Press navigation key up to shift the picture upwards to make partly covered subtitles visible.



The Auto format setting is recommended for minimal distortion.



Auto format (Not for PC) Enlarges the picture automatically to fill the screen. Subtitles remain visible.



**Super zoom** (Not for HD) Removes the black bars on the side of 4:3 broadcasts. There is a minimal distortion.



4:3 (Not for HD) Shows the classical 4:3 format



#### Movie expand 14:9

(Not for HD) Scales classical 4:3 format to 14:9



#### Movie expand 16:9

(Not for HD) Scales classical 4:3 format to 16:9.



#### Wide screen

Stretches 4:3 format to 16:9.



#### Unscaled

(Only for HD and PC.) Maximum sharpness. Distortion may appear on borders. Black bars may appear with pictures from your PC.

#### Note

Do not forget to name the connection in the Connection menu. See section 7.4.3 Naming your devices.

#### 5.3.5 Sound settings

This section describes how to adjust all sound settings.

- 1 Press Menu on the remote control and select TV menu > TV settings > **Sound** and press navigation key right to enter the list.
- 2 Press navigation key up or down to select a

TV settings	Sound
Settings assistant	Equalizer
Reset to standard	Volume
Picture	Balance
Sound	Dual I/II
	Mono/Stereo
	Surround mode
	Headphone volume
	Auto volume level.
	Delta vo <b>v</b> me

#### • Equalizer

Changes the bass and treble of the sound. Select each bar to change the setting. See also section 5.2.3 Quick access menu.

#### Volume

Changes the volume.

When adjusting the volume with ightharpoonup a volume bar appears. If you don't want it to appear go to TV menu > Installation > Preferences and press navigation key right to enter the list and select Volume bar off.

- 1 Press navigation key up or down to select Volume bar.
- **2** Press navigation key right to enter.
- 3 Select On to activate the temporarily display of the volume bar when adjusting the volume.

#### • Balance

Sets the balance of the left and right loudspeakers to fit best your listening position.

#### • Dual I/II

If broadcasted, you can choose between two different languages.

#### Mono/stereo

If stereo broadcasting is available, you can select Mono or Stereo per TV channel.

#### Surround mode

To select a more spatial sound if broadcasted or if available from a connected device.

#### · Headphone volume

Changes the volume of the headphone. You can mute the TV speakers with **M** on the remote control.

#### · Automatic volume leveller

Reduces sudden volume differences like at the beginning of commercials or when switching from one channel to another.

Select on or off.

#### · Delta volume

Levels out volume differences between channels or connected devices.

- Switch to the channel or device you want to level out the volume difference.
- 2 Select **Delta volume** in the Sound menu and change the volume level.

#### · Auto surround

Switches the TV automatically to the best surround sound mode broadcasted. Select on or off.

#### 5.4 Teletext

If available only English Teletext is supported. China does not support this function due to no Teletext available.

Your TV has a 1200 pages memory that stores broadcasted teletext pages and subpages to reduce waiting time.

To select a teletext page see section **4.6 Select a Teletext page**.

#### 5.4.1 Select pagenumber subpages

A teletext page number can hold several subpages. The pages are shown on a bar next to the main pagenumber.

- 1 Press
- 2 Select a teletext page.
- 3 Press navigation key left or right to select a subpage.

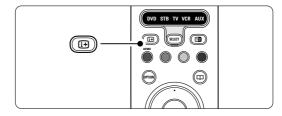
#### 5.4.2 Select T.O.P. teletext broadcasts

T.O.P. teletext (Table of Pages) is not broadcast by all TV channels. You can easily jump from one subject to another without using pagenumbers.

- 1 Press
- 2 Press (i+).

The T.O.P. overview appears.

- **3** Use navigation key left, right or up, down to select a subject.
- 4 Press **OK** to view the page.



#### 5.4.3 Dual screen teletext

View the TV channel and teletext next to each other.

- 1 Press 12 for Dual screen teletext.
- 2 Press 12 again to show normal teletext.
- 3 Press (a) to switch off teletext.

#### 5.4.4 Search teletext

Quickly jump to a subject linked to a series of pagenumbers or search for specific words in teletext pages.

1 Press

Pagina 17

- 2 Press **OK** to highlight the first word or number.
- 3 Press navigation key up or down, left or right to jump to the next word or number on the page.
- 4 Press OK the search a page which holds the highlighted word or number.
- 5 Press navigation key up until no word or number is highlighted to quit Search.

#### 5.4.5 Enlarge teletext pages

For a more comfortable reading, you can enlarge the teletext page.

- 1 Press and select a teletext page.
- 2 Press Option on the remote control to enlarge the top part of the page.
- 3 Press Option again to view the enlarged lower part of the page.
- 4 Press navigation key up or down to scroll through the enlarged page.
- 5 Press Option again to return to the normal page size.

#### Teletext menu

With the options in the teletext menu you can reveal hidden info, let cycle subpages automatically and change the character setting.

Hide or unhide hidden information on a page, such as solutions to riddles or puzzles.

### · Cycle subpages

If subpages are available for the selected page, you can make subpages cycle automatically.

Some languages use a different set of characters. Switch to the other group to show the text correctly.

- 1 Press .
- 2 Press Menu.

Teletext menu	
Reveal	Off
Cycle subpages	Off
Language	Gr. II

- 3 Press navigation key up or down to select an option.
- 4 Press **OK** to change a setting.
- 5 Press Menu to quit the teletext menu.
- 6 Press 
  to switch off teletext.

#### 5.4.6 Teletext 2.5

If broadcasted by the TV channel this teletext offers more colours and better graphics.

Teletext 2.5 is switched on as a factory setting.

- 1 Press Menu on the remote control and select TV menu > Installation > Preferences > Teletext 2.5 and press navigation key right to enter the list.
- 2 Select on or off.

#### 5.5 Create favourite channel lists

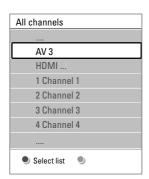
View the All channels list or set up a Favourite list of your own with your preferred TV channels. For example, each member of your family can create his or her own favourite list.

#### Select a favourite list

Learn how to select one of the favourite channel lists.

#### 1 Press OK.

The first time after you have finished the installation, the All channels list is shown. In other situations, it brings up the last selected favourite list.



- 2 Press the red key to show all favourite lists.
- 3 Press navigation key up or down to select a list.
- 4 Press OK.

The selected favourite list appears.

5 Press OK again to quit.

#### 5.5.2 To set up a favourite list

Create or modify your own favourite list.

- 1 Press OK.
  - The last selected list appears.
- 2 Press the red key to show all favourite lists.
- 3 Press navigation key up or down to select a list.

17

- 4 Press OK.
- Press the green key to enter the Edit mode. The selected list brings up a full channel list.
- 6 Press navigation key up or down to highlight a channel.
- **7** Press **OK** to mark (or unmark) the highlighted channel.

The channel is added to (or removed from) the selected list.

**8** Press the green key again to leave the Edit mode.

The modified channel list appears again.

#### 5.5.3 Select a channel from a favourite list

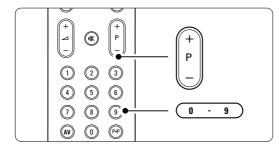
1 Press OK.

The last selected channel list appears.

- 2 Use navigation key up or down to highlight a channel.
- Press OK.
  The TV tunes to that channel.

#### Tip

- Use -P+ to go through the TV channels of the selected favourite list.
- With the number keys you can still select channels which are not marked as favourite.



#### 5.6 Timers and locks

This section describes how to switch the TV on or off at a specified time and to lock or unlock the TV.

#### 5.6.1 Automatically switch to standby

Sleeptimer switches the TV to standby after a time.

- Press **Menu** on the remote control and select TV menu > Features > **Sleeptimer** and press navigation key right to enter the sleeptimer bar.
- Press navigation key up or down to set the time up to 180 minutes in steps of 5 minutes. If set to 0 minutes, the Sleeptimer is switched off.

You can always switch off your TV earlier or reset the time during countdown.

#### 5.6.2 Automatically switch the TV on

Not applicable in case of no Teletext present. On timer switches the TV on automatically to a specified channel at a specified time, from standby.

- Press Menu on the remote control and select TV menu > Features > On timer and press navigation key right to enter the On timer menu.
- 2 Use navigation key up or down, left or right to select and enter the menu items one by one to set a channel, a day of the week or daily, and a starting time.
- 3 Press OK to confirm.
- 4 Press **Menu** to quit the menu.

#### ♠ Tip

To switch off the On timer, select  ${\bf Off}$  in the On timer menu.

#### 5.6.3 Lock TV channels and programmes

Lock TV channels and/or programmes from connected devices to prevent children from watching them. Lock and unlock with a four number code.

#### Set or change your code

- Press Menu on the remote control and select TV menu > Features > Set or Change code and press navigation key right to enter your code.
- 2 Enter your code with the number keys.
  The Features menu reappears with a message confirming that your code has been created or changed.

#### Did you forget your code ?

- 1 Select Change code.
- 2 Press navigation key right.
- 3 Enter the overriding code 8-8-8.
- 4 Enter a new personal code.
- 5 Confirm your new entered code.

The previous code is erased and the new code is stored.

#### 5.6.4 Activate or deactivate Child lock

If your code is set, you can lock all channels and devices, lock a specific channel or device, set a time after which all channels and devices are locked.

- 1 Press Menu on the remote control and select TV menu > Features > Child lock and press navigation key right to enter your code.
- 2 Enter your code with the number keys.
- 3 Select one of the options.
- 4 Press navigation key right.

Lock or unlock all channels and connected devices

- 1 Select Lock or Unlock.
- 2 Press OK.

## Lock a certain programme or all channels from a certain time

Child lock	Custom lock
Lock	Lock after
Custom lock	Channel lock
Unlock	

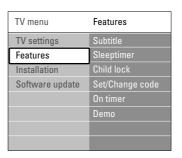
- 1 Select Custom lock.
- Press navigation key right to enter the Custom
- 3 Press navigation key right again to enter the Lock after menu.
- 4 Select **On** to switch on the Timer lock.
- 5 Press navigation key left.
- 6 Select **Time**.
- 7 Press navigation key right.
- **8** Enter the time with navigation key up or down and right.
- 9 Press OK.

#### Lock one or more channels and connected devices

- 1 Select Custom lock.
- **2** Press navigation key right to enter.
- 3 Press navigation key up or down to select Channel lock.
- 4 Press navigation key right.
- 5 Press navigation key up or down to select the channel(s) you want to lock or unlock.
- **6** Each time press **OK** to lock or unlock the channel.

#### 5.7 Subtitles

For each TV channel, subtitles can be set, coming from Teletext.



#### 5.7.1 Subtitling from TV channels

- 1 Select an TV channel.
- 2 Press to switch on Teletext.
- 3 Enter the three number pagenumber of the subtitle page.
- 4 Press 
  to switch off Teletext.

#### Note

The Teletext subtitle page must be stored for each TV channel separately.

#### 5.7.2 Activate or deactivate subtitling

- 1 Press Menu on the remote control and select TV menu > Features > Subtitle and press navigation key right to enter the list.
- Press navigation key up or down to select On to show the subtitles always or On during mute to show the subtitles only when the sound is muted with the key on the remote control.
- 3 Press navigation key left to return to the Features menu.

#### Tip

Select the Subtitle menu directly with **Option** on the remote control. See section **5.2.3 Quick access** 

# 5.8 View and play: photos, MP3, ...

Watch pictures or listen to music stored on a USB device (not supplied with the TV). Watch your pictures as a slideshow or listen to a self made music playlist.

#### **⊜** Note

Philips can not be held responsible if your USB device is not supported nor shall Philips accept any liability for damage or loss of stored data.

#### 5.8.1 Insert a USB device

Insert a device at the side of the  $\mathsf{TV}$  while the  $\mathsf{TV}$  is switched on.

The main menu appears automatically and the name of the USB device is highlighted next to **Multimedia**.



## 5.8.2 Remove the USB device • Caution

To avoid damaging the USB device always quit the menu on screen and wait five seconds before you remove the USB device.

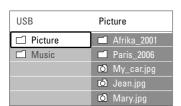
- 1 Press Menu to quit the menu.
- 2 Remove the USB device.

#### 5.8.3 View your pictures

The Multimedia menu shows the files you have stored on your USB device.

Press navigation key right to enter the Multimedia menu.

Picture is highlighted.



**2** Press navigation key right to enter the Picture folder.

Press navigation key up or down to select a picture or a picture album on the USB device.

Picture	Afrika_2001
☐ Afrika_2001	<b>ा</b> Kenya.jpg
☐ Paris_2005	Congo.jpg
☑ My_car.jpg	☑ Victoria.jpg
🖸 Jean.jpg	🖸 Dakar.jpg
Mary.jpg	🖸 Cairo.jpg

Afrika_2001	Afrika_2001
Congo.jpg	
🗖 Dakar.jpg	Kenya.jpg
🖸 Cairo.jpg	

- Press **OK** to view the picture or to start a slideshow of the pictures in the album.
- **5** Press **OK** to pause the slideshow. Press again to restart.
- 6 Press one of the colour keys on the remote control to perform the corresponding function shown at the bottom of the screen.

  Press the blue key to stop the show and to see

more functions.

If the function bar at the bottom disappeared,

press any colour key to let it reappear.

Press pavigation key left and select another.

**7** Press navigation key left and select another picture or another album.

#### **Slideshow settings**

#### Details / More details

Shows the picture name, date, size and next picture in the slideshow.

### • Transitions

Shows the list of available transition styles of the pictures.

Press navigation key up or down to select and press **OK** to activate.

#### • Slide time

Sets the time lag for the picture transitions: Short, Medium or Long.

#### Rotate

To rotate a picture.

#### Zoom

Show a list of available zoom magnifications to select.

#### • Start/Show

To stop and restart the slideshow.

#### 5.8.4 Thumbnails

View the pictures of a selected album in an overview.

- 1 Select a picture album.
- 2 Press navigation key right to enter the picture list.
- 3 Press the green key.
- 4 Press navigation key up or down, left or right to highlight a picture.
- **5** Press **OK** to view the picture.
- 6 Press navigation key left to return to the thumbnail overview.
- **7** Press the green key again to go back to the picture list.



#### 5.8.5 Listen to music

Find your songs in the Music album of the Multimedia menu.

- 1 Highlight Music in the Multimedia menu.
- **2** Press navigation key right to enter the Music folder.
- 3 Press navigation key up or down to select a song or a music album.
- 4 Press **OK** to play the selected song or to play a song followed by the next song in the same album.

#### **Music settings**

- Details
  - Shows the file name.
- · Repeat one/all

Repeat all songs in the album until you stop a song or only repeat the one song selected until you stop the song.

• Shuffle

Play songs in a random sequence.

#### 5.8.6 Slideshow with background music

Watch a slideshow of your stored pictures accompanied with your stored background music.

- 1 Select an album of songs first and press **OK**.
- 2 Highlight the Picture folder and select an album of pictures and press **OK**.

## 5.9 Software update

Philips continuously tries to improve its products. It may be recommended for you to update the TV's software. To update your TV software you need a USB Memory device (not supplied).

#### **⊜** Note

The device must have at least 48Mb free space. Make sure the write protection is turned off. Some USB devices do not work with our TV. Contact your dealer.

#### 5.9.1 Update assistant

The Update assistant helps you to update the TV's software.

#### TV identification

The TV will identify itself to your USB memory device.

- 1 Switch the TV on.
- 2 Press Menu.
- 3 Press navigation key right.
- 4 Press navigation key up down to select Software update.
- 5 Press navigation key right.

TV menu	Update assistant
TV settings	Update assistant
Features	Current software
Installation	Local updates
Software update	

- 6 Press navigation key up down to select **Update** assistant.
- 7 Press navigation key right.
- **8** Press **OK** to activate.
- Insert a USB memory device to the USB connector at the side of the TV. The main menu appears.
- 10 Press the green key to proceed.

  A message appears the TV has successfully written the identification file to the USB memory device.
- 11 Press the green key again to finish.
- Remove the USB memory device from the TV.

# 5.9.2 Software download from the PC to the USB device

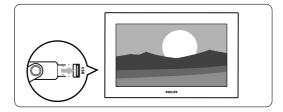
- Insert the USB memory device into a PC linked to the internet.
- 2 Locate and open the file "update.htm" on your USB device.
- 3 Read the instructions on screen and click on the Send ID button.
  - The software update is downloaded on the USB memory device.
- 4 Remove the USB memory device from your PC.

# 5.9.3 Transfer of the downloaded software update to the TV

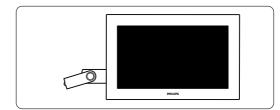
The downloaded software on the USB memory device must now be uploaded to your TV.

#### Caution

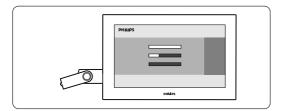
- Do not remove the USB memory device during the software update.
- If a power drop occurs during the update, do not remove the USB memory device from the TV.
   The TV will continue the update as soon as the power comes back.
- 1 Insert the USB memory device to the USB connector at the side of the TV.



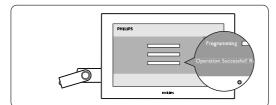
The TV switches off. The screen stays black for about 10 seconds. Wait and do not use the power switch (t) on the TV.



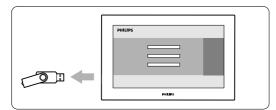
3 The update process starts automatically. Please wait.



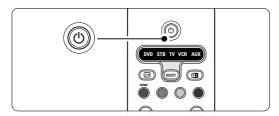
The update is finished when the message 'Operation successful' appears on the screen.



4 Remove the USB memory device from the TV.



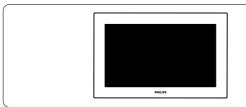
**5** Press () on the remote control.



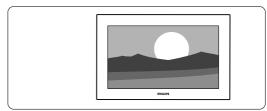
### **⊜** Note

Do not press more than once and do not use the **Power (**) switch on the TV.

6 The TV switches off. The screen stays black for about 10 seconds. Please, wait.



**7** The TV switches back on again. The update is



# 5.9.4 Verify the current software version

Updating software is only possible if the version of the new available software is different from the current one. You can verify your current software version.

- 1 Select **Software update** in the TV menu.
- **2** Press navigation key right.
- 3 Press navigation key up or down to select Current software info.

The version and the description of the current software appears.

## 6 Channel installation

The first time you switched on your TV you've selected the language of the TV menus and all the available channels have been installed.

This chapter will help you if you find it necessary to re-do the initial installation or if you want to tune in a new TV channel.

#### ♠ Notes:

6.1

- You do not have to follow every step described if it is not necessary.
- Re-installation will modify the All channels list and new added channels will not be added to any favourite list.

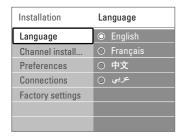
Automatic installation

This section describes how to search for and store all available channels automatically.

#### Step 1 Menu language

Sets the language of the TV menus. Go to a next step if your language settings are correct.

- Press Menu on the remote control and select TV menu > Installation > Language.
- 2 Press navigation key right to enter the menu Language.
- Press navigation key up or down to select your language.
- 4 Press OK to confirm.
- 5 Press navigation key left to return to the Installation menu.



#### Step 2 Install TV channels

Your TV will search for and store all available TV channels.

- 1 Press navigation key down to select **Channel** installation.
- 2 Press navigation key right to enter the Channel installation menu.

Automatic installation is highlighted.

- 3 Press navigation key right to select Start now.
- 4 Press OK.
- Fress the green key to start.

  The installation may take a few minutes.
- **6** When the channel search is completed, press the red key to return to the Installation menu.
- **7** Press **Menu** to quit the TV menu.

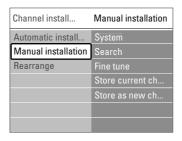
If you want to rename, reorder or uninstall stored channels, see section **6.3 Rearrange channels**.

#### 6.2 Manual installation

You can tune-in TV channels channel by channel manually with Manual installation.

#### 6.2.1 Select the system

- Press Menu on the remote control and select TV menu > Installation > Channel installation > Manual installation.
- **2** Press navigation key right to enter the Manual installation menu.
  - System is highlighted.
- 3 Press navigation key right to enter the System list.
- Press navigation key up or down to select your TV system: PAL BG, PAL I, PAL DK or NTSC M.
- 5 Press navigation key left to return to the Manual installation menu.



#### 6.2.2 Search for and store a new channel

- 1 Press Menu on the remote control and select TV menu > Installation > Channel installation > Manual installation > Search.
- **2** Press navigation key right to enter the Search menu.
- 3 Press the red key to enter the frequency yourself or press the green key to search for a next channel.

Pagina 25

#### Tip

If you know the frequency, enter the three numbers of the frequency with the number keys of the remote control.

- 4 Press navigation key left when the new channel has been found.
- 5 Select Store as new channel to store the new channel under a new channel number.
- 6 Press navigation key right to enter.
- 7 Press OK.

Done appears.

8 Press Menu to quit the channel installation menu.

#### Fine tune a channel

Fine tune a found channel when the reception is poor.

- 1 Press Menu on the remote control and select TV menu > Installation > Channel installation > Analogue: manual installation > Fine tune.
- 2 Press navigation key right to enter the Fine tune
- Press navigation key up or down to adjust the frequency
- 4 Press navigation key left when you finished fine
- Select Store current channel to store the fine tuned channel under the current channel
- 6 Press navigation key right to enter.
- 7 Press OK.

Done appears.

8 Press Menu to quit the Channel installation menu.

#### 6.3 Rearrange stored channels

To rename, reorder, uninstall or reinstall stored channels.

#### Rename a channel

Assign or change a channel name to a channel for which a name has not yet been entered.

- 1 Press Menu on the remote control and select TV menu > Installation > Channel installation > Rearrange.
- 2 Press navigation key right to enter the channel list.
- 3 Press navigation key up or down in the channel list to select the channel you want to rename.

- 4 Press the red key.
- 5 Press navigation key left or right to select a character or navigation key up or down to change the characters. Space, numbers and other special characters are located between z
- 6 Press the green key or OK to finish.

#### Tip

With the yellow key all characters can be deleted. With the blue key you can delete the character which is highlighted.

#### Uninstall or reinstall a channel 6.3.2

To uninstall a stored channel so that it is no longer possible to tune to.

Reinstall an earlier uninstalled channel.

- 1 Press Menu on the remote control and select TV menu > Installation > Channel installation > Rearrange.
- 2 Press navigation key right to enter the channel
- 3 Press navigation key up or down in the channel list to select the channel you want to uninstall or reinstall.
- 4 Press the green key to uninstall or reinstall the channel.
- 5 Press Menu to quit the menu.

#### 6.3.3 Reorder the channels

Change the order of the stored channels.

- 1 Press Menu on the remote control and select TV menu > Installation > Channel installation > Rearrange.
- 2 Press navigation key right to enter the channel
- Press navigation key up or down in the channel list to select the channel you want to reorder.
- 4 Press the yellow key to move up the highlighted channel in your channel list.
- Press the blue key to move down the highlighted channel in your channel list.
- 6 Press Menu to quit the menu.

# 6.4 Automatic channel management

Once a day, at 3 AM, all available TV channels are updated automatically. The update is done if your TV is in standby.

Earlier stored channels not found by the update will be removed from the channel list.

You can do this update yourself anytime.

- 1 Press Menu on the remote control and select TV menu > Installation > Channel installation > Installation update.
- 2 Press navigation key right to enter the Installation update menu.
- 3 Press OK.
- 4 Press the green key to start.

  The update starts and may take a few minutes.
- **5** When the update is completed, press the red key to return to the Channel installation menu.
- 6 Press Menu to quit the menu.

## 6.5 Factory settings

If you are lost in the picture and sound settings, you can reset the TV to the factory settings of picture and sound

- Press Menu on the remote control and select TV menu > Installation > Factory settings.
- **2** Press navigation key right to enter the Factory settings menu.
- 3 Press OK.
- 4 Press Menu to quit the menu.

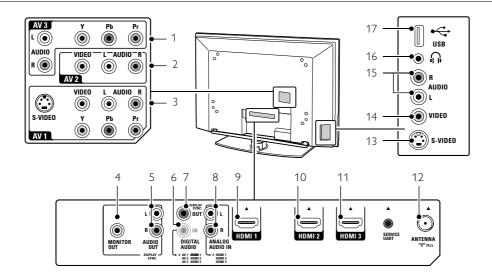
#### **⊜** Note

The channel installation settings are not changed.

Pagina 27

## **Connections**

#### 7.1 **Connection overview**



#### Back connectors

#### AV3

Component Video Y Pb Pr and Audio L/R connectors for DVD, digital receiver or game console, etc.

#### 2 AV2

Second AV connector.

#### 3 **AV1**

AV connector for DVD, VCR, digital receiver, game console, etc.

#### 4 Monitor Out

Output connector for daisy chaining or to record programmes from your TV.

#### Audio Out L/R

Sound output cinch connectors for a Home Theatre System, etc.

#### Digital Audio In (if present)

Sound input cinch connector for use with any of the HDMI connectors with a HDMI to DVI adaptor.

#### 7 Digital Audio Out

Sound output cinch connector for a Home Theatre System, etc.

### 8 Analog Audio In

Sound input cinch connectors for use with any of the HDMI connectors with a HDMI to DVI adaptor.

#### 9 HDMI 1 In

HDMI in connector for Blu-ray Disc player, HD digital receiver or HD game console, etc.

#### 10 HDMI 2 In

Second HDMI in connector.

#### 11 HDMI 3 In

Third HDMI in connector.

#### 12 Antenna input

#### Side connectors

#### 13 S-Video

S-Video input connector to be used together with Audio L/R connectors for camcorder, game console, etc.

#### 14 Video

Video input cinch connector to be used together with Audio L/R connectors for camcorder, game console, etc.

#### 15 Audio L/R in

Audio L/R for camcorder, game console, etc.

#### 16 Headphones

Stereo Mini Jack.

#### 17 **USB**

USB connector.

#### 7.2 **About connecting**

Learn here how to make the best connection for your device.

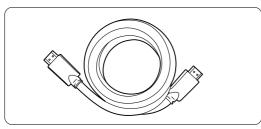
Six connections are ready to use at the back of the TV - AV1, AV2, AV3, HDMI1, HDMI2 and HDMI3. Connect your device with the highest possible quality connection. Look for the highest quality connection on your device. Use that connection to your TV.

#### Connection set up

When connecting is done the TV needs to know what connections you made, which device is connected to which connector. Use the TV menu to do this. See section 7.4 Connection set up.

#### 7.2.1 **HDMI** - Highest quality ★★★★

A HDMI connection has the best picture and sound quality. One cable combines video and audio signals. Use HDMI for HD (High Definition) TV signals. A device connected with HDMI to the TV can only send out audio and video signals to your TV. The device cannot receive or record audio and video from your TV.



HDMI cable (max. 5m)

#### Tip

Use a HDMI / DVI adaptor in case your device has only a DVI connection. An extra audio cable is needed to complete this connection.

#### Note

HDMI supports HDCP (High-bandwidth Digital Contents Protection). HDCP is a copy protection signal that comes with HD content (DVD disc or Blu-ray Disc).

#### **7.2.2 HDMI-control** (if present)

HDMI with Consumer Electronics Control (CEC) adds to the normal HDMI advantages. It offers easy operation of the TV and connected devices. These devices also have to be equipped with HDMI with

- 1 Press Menu on the remote control and select TV menu > Installation > Preferences and press navigation key right to enter the list.
- 2 Press navigation key up or down to select HDMI-control.
- **3** Press navigation key right to enter.
- 4 Select On to activate HDMI with CEC.

#### ♠ Note

HDMI-control might not work with other brands.

#### One touch play

Insert a DVD disc to watch and your TV will switch on from standby and show the DVD programme automatically when you start playing the disc.

1 Press Play ▶ on the device. The TV is switched on from standby.

#### System standby

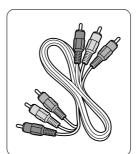
Switches off all devices with the TV remote control.

1 Press ( on the TV remote control for a few

All devices will switch to standby.

#### **7.2.2 YPbPr** - Higher quality ★★★★

Use the Component Video YPbPr connections together with the Audio L and R jack. Match the cable colours when you connect. YPbPr can handle HD TV signals.



Component Video YPbPr cable

- Red, Green, Blue

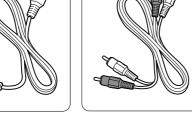


Audio L/R to Red, White cable

#### **7.2.3** S-Video - Good quality $\star\star$

Use a S-Video cable together with an Audio L/R (cinch) cable. Match the cable colours when you connect.



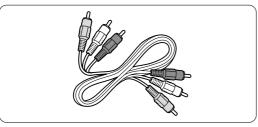


An S-Video cable

Audio L/R cable - Red, White

#### **7.2.4 Video** - Basic quality ★

Use a Video (cinch) cable together with an Audio L/R (cinch) cable. Match the cable colours when you connect  $\,$ 



Combined Video - yellow and Audio L/R cable - red and white

## 7.2.6 Display synchronised audio out

For the best match of image and sound in speech on screen, connect a Home Theatre System to Audio L/R or Digital Audio outputs.

See diagrams **7.3.4** and **7.3.8**.

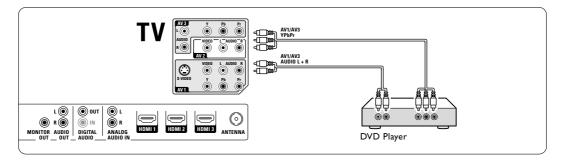
Do not connect the audio signal of a DVD player, digital receiver or other audio/video device directly to the Home Theatre System.

## 7.3 Connect your devices

The connections shown in this section are recommendations for the most used cases. Other solutions may be possible.

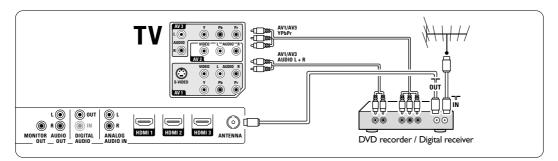
#### 7.3.1 DVD player

Use a YPbPr cable and an audio L and R (cinch) cable to connect the device to the AV1 or AV3 input at the back of the TV.



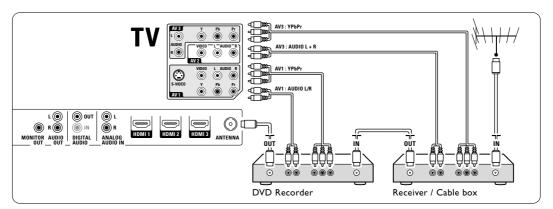
#### 7.3.2 DVD Recorder or Digital Receiver

Use a YPbPr cable and an audio L and R (cinch) cable and 2 antenna cables.



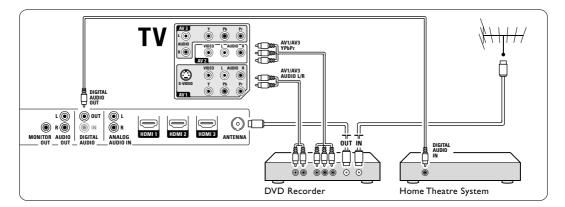
## 7.3.3 DVD Recorder and Digital Receiver

Use 3 YPbPr cables and 2 audio L and R (cinch) cables and 3 antenna cables.



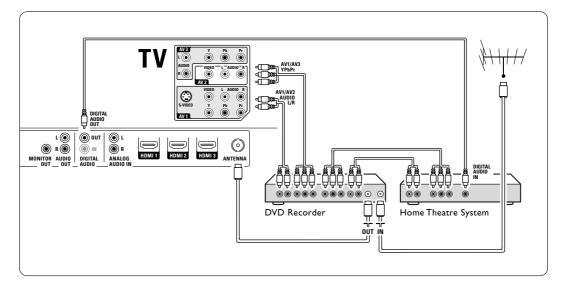
# 7.3.4 DVD Recorder and Home Theatre System

Use a YPbPr cable and an audio L and R (cinch) cable, 2 antenna cables and 1 digital audio (cinch) cable.



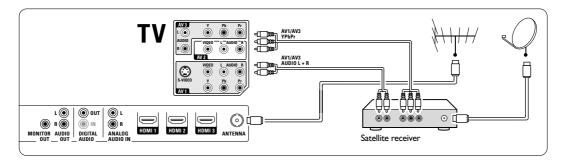
# 7.3.5 DVD Recorder and DVD Home Theatre System

Use 2 YPbPr cables and 2 audio L and R (cinch) cables, 2 antenna cables and 1 digital audio (cinch) cable.



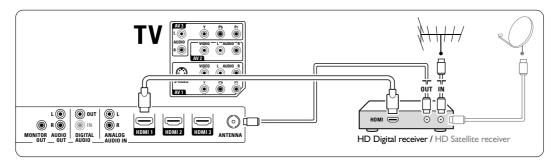
#### 7.3.6 Satellite receiver

Use a YPbPr cable and and audio L and R (cinch) cable and 2 antenna cables.



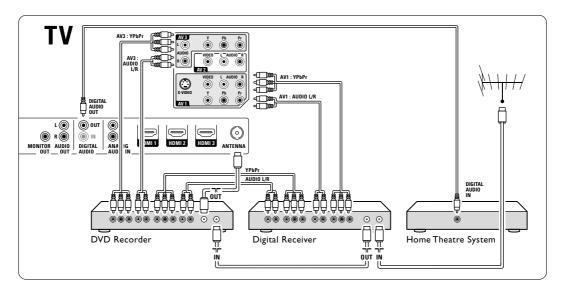
# 7.3.7 HD Digital receiver / HD satellite receiver

Use a HDMI cable and 2 antenna cables.



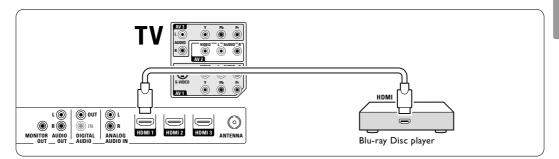
# 7.3.8 DVD-R, Home Theatre System and Digital receiver

Use 3 YPbPr cables and 3 audio L and R (cinch) cables, 3 antenna cables and 1 digital audio (cinch) cable.



#### 7.3.9 Blu-ray Disc player

Use a HDMI cable.

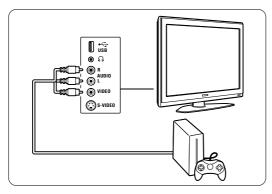


#### 7.3.10 Game console

The most practical connection for a game console is at the side of the TV. More qualitative connections are at the back of the TV.

#### Connected at the side of the TV

Use the Video and Audio L/R (cinch) connectors.



### Connected at the back of the TV

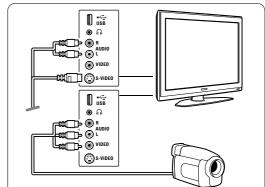
Use a HDMI or the YPbPr (AV1 or AV3) input for HD quality.

#### 7.3.11 Camcorder

The most practical connection for a camcorder is at the side of the TV. More qualitative connections are at the back of the TV.

#### Connected at the side of the TV

Use the Video and Audio L/R (cinch) connectors or use the S-Video and Audio L/R connectors.



#### Connected at the back of the TV

Use a HDMI or the YPbPr (AV1 or AV3) input for HD quality.

#### 7.3.12 Personal Computer

The best connection for a PC is at the back of the TV. A more practical connection, but only for viewing photos and films from your PC, is the connection at the side of the TV.

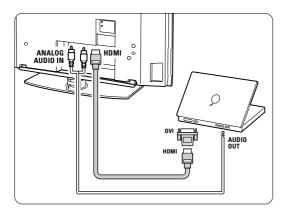
#### Caution

Before connecting the PC, set the PC monitor refresh rate to 60Hz.

#### Connected at the back of the TV

Use the DVI connection of your PC to connect to a HDMI connection of the TV. Use a HDMI to DVI cable or a HDMI-to-DVI-adaptor.

Add an Audio L and R cable and connect it to Audio L and R jacks of **ANALOG AUDIO IN** of the TV.



In the Connections menu, link this **AUDIO IN L/R** to the HDMI connector you are using. See section **7.4 Connections setup**.

### Connected at the side of the TV

If your PC has no DVI connection, use the S-Video and Audio L/R (cinch) connectors at the side of the TV. This connection is only suited for applications like Windows Media Center or similar.

#### ♣ Tip

Change the TV picture format to **Unscaled** in the Picture format menu for maximal picture sharpness. See section **5.3.4.Widescreen picture format**.

For supported PC monitor resolutions, see section 8 Technical data.

Pagina 35

## **Connections setup**

When all devices have been connected the TV needs to know what connections you have made, which device is connected to which connector.

#### Digital Audio In (if present)

If you use the Digital Audio In connection, assign this connection, in the menu, to the device from where the sound comes from.

- 1 Press Menu on the remote control and select TV menu > Installation > Connections > Digital Audio In.
- 2 Press navigation key right to enter the list.
- 3 Press navigation key up or down to select the connector used by the device.

Connections	DIGITAL AUDIO IN
	None
AV 3	AV 1
HDMI 1	AV 2
HDMI 2	AV 3
HDMI 3	HDMI 1
Side	HDMI 2
AUDIO IN L/R	HDMI 3
DIGITAL AUDIO IN	Side

#### 7.4.3 Naming your devices

Name the connected devices for easy selection and best signal handling.

Assign the type of device (DVD, VCR, Game ...) to the connector you use for that device.

- 1 Press Menu on the remote control and select TV menu > Installation > Connections > AV1.
- 2 Press navigation key right to enter the list.
- 3 Press navigation key up or down to select the type of device.
- 4 Press **Menu** to quit the menu.

Connections	AV 1
AV 1	None
AV 2	DVD
AV 3	Blu-ray
HDMI 1	HDD/DVDR
HDMI 2	HD rec.
HDMI 3	Game
Side	VCR

#### Audio In L/R

If you use the Audio In L/R connection, assign this connection, in the menu, to the device from where the sound comes from.

- 1 Press Menu on the remote control and select TV menu > Installation > Connections > Audio In L/R.
- 2 Press navigation key right to enter the list.
- 3 Press navigation key up or down to select the connector used by the device.

Connections	AUDIO IN L/R
	None
AV 3	AV 3
HDMI 1	HDMI 1
HDMI 2	HDMI 2
HDMI 3	HDMI 3
Side	
AUDIO IN L/R	

## 8 Technical data

#### Picture / Display

- Display type: LCD HD W-XGA
- Panel resolution: 1366x768p
- Perfect Pixel HD picture enhancement
- 1080p 24/25/30/50/60Hz processing

#### Supported display resolutions

• Computer formats

Resolution	Refresh rate
$640 \times 480$	60Hz
$800 \times 600$	60Hz
$1024 \times 768$	60Hz
$1280 \times 768$	60Hz
$1360 \times 768$	60Hz
1920 × 1080i	60Hz
$1920 \times 1080p$	60Hz

• Video formats

Resolution	Refresh rate
480i	60Hz
480p	60Hz
576i	50Hz
576p	50Hz
720p	50Hz, 60Hz
1080i	50Hz, 60Hz
1080p	24Hz, 25Hz, 30Hz
1080p	50Hz, 60Hz

#### Tuner / Reception / Transmission

- Antenna input: 75ohm coaxial (IEC75)
- TV system: DVD COFDM 2K/8K
- Video playback: PAL BG; PAL I, PAL DK, NTSC M
- DVD

#### Dimensions and weights (approx.)

TV model	32PFL9432
- width	804mm
- height	546mm
- depth	115mm
- weight	14kg
TV + stand	
- width	804mm
- height	609mm
- depth	210mm
- weight	17kg

#### Sound

- Sound system:
  - Virtual Dolby Digital
  - BBE

#### Multimedia

- Connection: USB
- Playback formats: MP3, LPCM, Slideshow (.alb) JPEG

#### Remote control

- Type: RC4350
- Batteries: 2 Size AA- R6 type

#### Connectivity

- AV1: Audio L/R, CVBS in, YPbPr, S-Video
- AV2: Audio L/R, CVBS in
- AV3:YPbPr, Audio L/R in
- HDMI 1
- HDMI 2
- HDMI 3
- HDMI-control 1.3a
- Analog Audio L/R out display synchronised
- Analog Audio L/R in
- Digital Audio in (coaxial-cinch-S/PDIF) (if present)
- Digital Audio out (coaxial-cinch-S/PDIF) display synchronised
- Monitor out
- Side: Audio L/R in, Video (CVBS) in, S-Video Headphone out (stereo mini jack), USB

#### Power

- Mains power: AC 220-240V (±10%)
- Power and standby power consumption:
   See technical specification on www.philips.com
- Ambient temperature: 5°C 35°C

Specifications are subject to change without notice. For more specification details of this product see www.philips.com/support.

36 Technical data

## **Troubleshooting**

#### Television and remote control

#### The TV does not switch on

- · Verify the mains cord connection.
- Verify if the batteries of the remote control are flat or weak. Verify their + / - orientation. You can use the keys on the TV to switch the TV
- Unplug the mains cord, wait for one minute and plug in the mains again.

#### The TV does not react on the remote control

- · Verify if the batteries of the remote control are not empty or weak. Verify their + / - orientation.
- Clean the remote control and TV sensor lens.
- Use the side control keys to change some of the basic settings of picture and sound.
- 1 Press Volume and + to adjust the volume.
- 2 Press Program/Channel and + to go through the channels marked as favourites.
- Press Menu to show the main menu. Press Program/Channel - and + to select and adjust picture and sound menu items.

#### The red light on the TV blinks

· Unplug the mains cord for half a minute and insert it again. Verify if there is enough space for ventilation. Wait until the TV has cooled down. When the TV does not restart to standby and the blinking occurs again, call our Customer Support Centre.

#### You forgot your code to unlock Child lock

• See section 5.6.3 Set code / Change code.

#### Wrong language in the TV menu?

Follow these steps to change the language.

- 1 Press Menu on the remote control.
- 2 Press navigation key right.
- 3 Use navigation key down to highlight the third
- Press navigation key right three times.
- 5 Press navigation key up or down to select your language.
- Press **OK**.
- 7 Press Menu to quit the menus.

#### TV channels

#### Some TV channels are gone

- · Verify if the correct channel list is chosen.
- · A channel could be uninstalled in the Rearrange menu.

#### **Picture**

#### There is no picture

- Verify if the antenna is connected properly.
- Verify if the correct device is selected.

#### The sound is on, but there is no picture

• Verify the contrast or brightness setting in the menu.

#### The TV picture is poor

- Verify if the antenna is connected properly.
- Loudspeakers, non-earthed audio devices, neon lights, high buildings or mountains can influence the picture quality. Try to improve the picture by changing the antenna direction or place devices away from the TV.
- Verify if the correct TV system is chosen in the Manual installation menu.
- If only a certain channel is poor, try to fine tune this channel in the Fine tune menu. See section 6.2.3.

#### The picture has poor colour

- Verify the colour settings in the Picture menu. Select any of the Reset to standard settings in the Reset to standard menu. See section 5.3.2.
- · Verify the connections and cables of the connected devices.
- · Verify if the correct colour system (Automatic, PAL, Secam, NTSC) has been selected in the TV menu > Installation > Preferences > Colour.

#### The TV did not remember my settings when $\boldsymbol{I}$ switch back on

 Verify if the TV is set to Home in the TV menu > Installation > Preferences > Location menu.

#### The picture does not fit the screen, it is too big or too small

- · Select a more fitting picture format in the Picture format menu.
  - See section 5.3.4 Widescreen picture format.
- Name your connected device in the Connections menu to obtain the best signal handling. See section 7.4.3 Naming your devices.

37 Troubleshooting

#### The picture position on screen is not correct

• Some picture signals from some devices do not fit the screen correctly. You can shift the picture with the navigation key left, right or up, down keys on the remote control. Check the signal output of the device.

#### Sound

#### There is a picture but no sound

- Verify the volume is not set to 0.
- Verify the sound has not been muted with the \kgreen key.
- Verify if all cables are connected properly.
- If no sound signal is detected, the TV automatically switches off the sound.
   This is proper operation and does not indicate malfunction.

#### The sound is poor

- Verify if the sound is set to Stereo.
- · Verify the Equalizer settings.
- Select any of the Reset to standards settings in the Reset to standard menu. See section 5.3.2.

#### The sound comes from one speaker only

 Verify if the Balance is not set to extreme left or right.

#### **HDMI** connections

#### Trouble with devices connected with HDMI

- The HDMI HDCP procedure might take a few seconds before the TV shows the picture from a device.
- If the TV does not recognise the device and the screen shows no picture, try switching from one device to another and back again to restart the HDCP procedure.
- If sound interruptions occur persistently, see the user manual of the device to verify the output settings. If that does not help, connect an additional audio cable.
- If an HDMI-to-DVI adaptor is used, verify if an additional audio connection is in place to complete the DVI connection.

#### **USB** connection

#### The TV does not show the USB device content

 Set your device (camera) to 'Mass Storage Class' compliant.  The USB device may need specific driver software. Unfortunately this software can not be downloaded to your TV.

#### I can not see my files in the Multimedia menu.

 Not all audio and picture files are supported. See section 8 Technical data.

#### Audio and picture files do not playback smoothly

• The transfer performance of the USB device limits the transfer rate.

#### Personal computer

# The PC display on my TV is not stable or is not synchronised

• Verify if the correct resolution mode is selected on your PC. See section **8 Technical data**.

#### If your problem is not solved

Switch your TV off and on again. If the problem is not solved, call the Customer Support Centre or consult our website www.philips.com/support.

See the Customer Support Centre telephone numbers on the last page of this user manual.

# Please, have the TV Model and Product Number ready before you call.

You can find these numbers on the packaging label or on the typelabel on the back and bottom of the TV.

#### Warning

Never try to repair the TV yourself.

38 Troubleshooting

# 10 Index

A	Contrast 14	
Active Control 14	Custom lock 19	Installation
Antenna	Custom tint 14	automatic 24
cable 6		manual 24
connect 6	D	menu 24
with devices 27		
Auto format 15	Delta volume 16	K
Automatic installation 24	Device	Kensington Security Slot 5
Auto surround 16	connecting 28	Key(s)
Automatic Volume Leveler 16	naming 35	colour 10
AV1, AV2, AV3 27	watch 7	on TV 4
,,	Digital	on remote control 4,10
В	audio out 27	.,
Balance	receiver 30	
sound 15	Dual I/II 16	Language
Batteries 3,6	Dual screen 10	menu 24
Blacklevel 14	DVD	Light sensor 14
	connect 30	Location 27
Blu-ray 27,30,32		Locks 20
Brightness 14	playback 7	LOCKS 20
G	player 30	м
Cable	recorder 30	
	Dynamic contrast 14	Mains cord 7
HDMI 28	E	Manual installation 27
YPbPr 28		Menu key 11
S-Video 29	Equalizer 15	Mono 16
Video 29	<b>E</b>	Movie expand 15
Camcorder 35		MPEG artefact reduction 1
Camera (photo) 35	Factory settings 26	Music 21
Care of the screen 3	Favourite channel lists 17	Mute key 10
Change code 18	Fine tune 25	M
Channel	8	N
all channels list 17	G	Naming devices 33
favourite list 17	Game console 33	Noise reduction 14
installation 24	m	8
lock 18	Ш	0
management 25	HDCP 28	OK key 10
previous 10	HDMI	On timer 18
rearrange 25	connection 27	
store / install 25	HD digital receiver 32	P
Child lock 18	HD Natural Motion 14	Personal Computer
Clock 13	Headphone	connect 33
Code 18	connect 4,27	display resolutions 36
Colour enhancement 14	volume 16	Photo viewer 21
Colour	Home	Picture
menu 14	location 37	format 14
keys 4,10	Home theatre system 31	menu 14
Connection	Hue 14	Perfect Pixel HD 14
best 28		Position the TV 5
overview 27		Power 7
		Programme up/down 10
set up 28,33		

Index 39

Q	U
Quick access menu 13	Unscaled 15 USB
R	connector 27
Rearrange channels 25	device 20
Recorder 30	photo viewer 20
Recycling 3	1
Remote control	V
batteries 7	VCR
overview 10	connect 30
Rename 25	Video cable 29
Reorder 25	Video formats 36
Reset to standards 13	Volume
<b>F</b>	key 10
S	menu 15
Safety 3	w
Satellite receiver 32	
Screen cleaning 3 Search	Whitepoint 14 Widescreen picture format 15
channels 24	Widescreen picture format 15
teletext pages 16	Y
Set code 18	YPbPr 28
Settings assistant 13	
Sharpness 14	
Sleeptimer 18	
Software update 22	
Sound	
menu 15	
surround mode 16	
Standby 18	
Stationary images 3	
Stereo 16	
Subtitles 19	
shift 15	
Super zoom 15	
Switch on 7	
П	
Technical data 36	
Teletext 17	
teletext 2.5 17	
dual screen 16	
menu 17	
Teletext page 16	
Timers 18	
Tint 14	
Troubleshooting 37	
TV settings menu 13	

Chapter indidatlem