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 8

- 4.1 Switch on or off Standby 8
- 4.2 Watch TV 8
- 4.3 Watch channels from a digital receiver 8
- 4.4 Watch connected devices 9
- 4.5 Watch a DVD 9
- 4.6 Select a Teletext page 9

5 Use more of your TV 10

- 5.1 Remote Control 10
- 5.2 LightGuide brightness 11
- 5.3 TV menus 11
- 5.4 Picture and sound settings 12
- 5.5 Teletext 15
- 5.6 Create favourite channel lists 17
- 5.7 Timers and locks 18
- 5.8 Subtitles 19
- 5.9 Watch and play photos, MP3... 19
- 5.10 Software update 22

6 Channel installation 24

- 6.1 Automatic channel installation 24
- 6.2 Manual channel installation 25
- 6.3 Rearrange stored channels 26
- 6.4 Factory settings 26

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

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

- 7.1 Connections overview 27
- 7.2 About connections 28
- 7.3 Connect your devices with the Connection assistant 29
- 7.4 Connect your devices without the Connection assistant 29
- 7.5 Connection setup 35
- 7.6 PC network 36

8 Technical data 37

9 Troubleshooting 39

10 Index 41

Remote control setup codes at the end of this book.

2008 © 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 and do not insert objects in the ventilation slots or insert objects not suitable for the specific connectors. 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 machinereadable 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 products. 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.



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

BBE

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 Inc

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

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



logo and DNLA Certified[™] are trademarks, service marks, or certification marks of the Digital Living Network Alliance.

All other registered and unregistered trademarks are the property of their respective owners.

1 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.
- To prevent damage, do not insert any object into 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, do not place the TV, or anything else, on the cord. Damage the cord may cause a fire or electric shock.
- 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 screen.
- 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)



2 Your TV

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

2.1 Television overview

Controls



- 1 LightGuide
- 2 Indicator light
- 3 Remote control sensor
- 4 Volume up and down
- 5 Menu
- 6 Program/Channel up and down
- 7 Power switch

Connectors



1 Back connectors

2 Side connectors

For more info see section 7 Connections.

Remote control



- 1 Switch On or switch to Standby
- 2 Programme guide
- 3 Volume up + or down -
- 4 Program/Channel up + and down -
- 5 Menu On or Off
- 6 Navigation key
- 7 Colour keys

For more info see section **5.1 Remote control** overview.

ENGLISH

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 ...

Full High Definition LCD display

A full HD resolution of 1920x1080p, the highest resolution of HD sources. It offers a brilliant flicker-free progressive scan picture with optimum brightness and superb colours.

Perfect Pixel HD

Offers perfect picture quality from any source.

100Hz Clear LCD (if available)

100Hz 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

HDMI connectors for highest quality high definition connectivity.

USB connection / PC network connection

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

3 Getting started

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

3.1 Position the TV

() 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.
- The ideal viewing distance for watching TV is three times its diagonal 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.



3.2 Wall mounting - VESA

Caution

Consider the TV's weight when you wall mount it. Improper mounting could result in severe injury or damage. Koninklijke Philips Electronics N.V. bears no responsibility for improper mounting or mounting that results in accident or injury.

Your TV is prepared for VESA compliant wall mounting. This bracket is not included. You need one of the VESA codes hereunder to purchase the bracket that fits your TV.

42" / 107cm VESA MIS-F 300, 300, 8 47" / 119cm VESA MIS-F 400, 400, 8 52" / 132cm VESA MIS-F 400, 400, 8

Ask your dealer for more info on stands and wallmount brackets

The VESA fixation points

Locate the four fixation points at the back of the TV.



Unmount the TV stand

1 Locate the four screws of the TV stand.



2 Unscrew the screws.



3 Lift the TV off the stand.

3.3 Remote control batteries

ENGLISH

- 1 Open the battery cover on the back of the remote control.
- Insert the 2 batteries supplied (Type AAA-LR03-1,5V). 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 do not use the remote control for a long time.

3.4 Antenna cable

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



3.5 Power cable

Keep the mains plug at the wall socket accessible at all time.

The TV is never powered off completely and consumes energy unless the mains cord is physically unplugged.

Although this TV has a very low standby power consumption, unplug the mains cord if you do not use the TV for a long time to save energy.

- 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.



3.6 First time installation

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

Tips

- If you have selected a wrong language, press the red key.
- To rearrange the stored channels after the installation is finished, see section **6.3 Rearrange stored channels**.

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 right of the TV if the standby led is off.
- Press \bigodot on the remote control if the standby led is on.

The LightGuide flashes during start up and switches on completely when the TV is ready for use.

- To switch to standby:
- Press () on the remote control. The LightGuide switches off and the standby led is on.
- To switch off:
- Press **()** Power at the side of the TV. Both the LightGuide and the standby led switch off.





4.2 Watch TV

4.2.1 Switch channels

- 1 To switch TV channels:
 - Press a number (1 to 999) or press P+ or Pon your remote control.
 - Press **Program/Channel** or **+** on the side controls of the TV.
- 2 Press P⇔P to return to the previously viewed TV channel or connected device.



4.2.2 Adjust volume

- 1 To adjust the volume:
 - Press 🖌 + 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.

If the picture does not appear:

■ Press the Source → key on the remote control.



- Press ▲ or ▼ to select where you connected your digital receiver.
- 3 Press OK.
- **4** Use the remote control of the digital receiver to select TV channels.

G Note

When you did not connect your devices yet, press **MENU** > Setup > Installation > **Connection assistant** and follow the instructions on screen

4.4 Watch connected devices

1 Switch on the device.

The picture from your device might appear automatically.

If the picture does not appear:

- 2 Press the Source key on the remote control.
- 3 Press ▲ or ▼ to select where you connected your device.
- 4 Press OK.
- **5** Use the remote control of your device to select TV channels.

G Note

When you did not connect your devices yet, go to **MENU** > Setup > Installation > **Connection assistant** and follow the instructions on screen.

4.5 Watch a DVD

- 1 Switch on your DVD player.
- Insert a DVD disc in your player. The DVD picture might automatically appear on your screen.
- Press Play ➤ on the DVD player. The picture from your player appears automatically on your screen.

If the picture does not appear:

Press the Source → key on the remote control.



- 2 Press ▲ or ▼ to select where you connected your DVD player.
- 3 Press OK.

Wait a few seconds until the picture appears.

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 TELETEXT.

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 ▲ or ▼ or the ⇒ key 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 **P**ℑ**P** to return to the previously viewed page.

3 Press TELETEXT again to switch Teletext off.

For more information on teletext, see section **5.5** Teletext.

5 Use more of your TV

This section deals with the more advanced use of your $\ensuremath{\mathsf{TV}}$:

- how to use the menus
- to adjust the picture and sound settings
- more about Teletext (if available)
- how to create favourite channel lists

5.1 Remote control

5.1.1 Remote control overview



- 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 or from your PC or PC network.

1 Standby ()

To switch the TV on or back to standby.

2 Source -

- To switch the Source menu on or off.
- To select a connected device or to return to TV.

3 TELETEXT

To switch teletext on or off.

4 Demo

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

5 Colour keys

- Easy selection of teletext pages.
- Easy selection of tasks.
- 6 Guide 🖽
- no function
- 7 Navigation key

To navigate (\blacktriangle , \blacktriangledown , \blacklozenge , \blacktriangleright) to go through lists or settings.

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

9 Back key 🕁

To select the previous programme or the previous TXT page. To remove the channel list.

10 Volume

To adjust the volume.

11 Mute 🔣

To mute the sound or restore it.

- 12 Number keys
 - To select a TV channel.
- 13 MHEG cancel no function
- 14 **Previous channel P≎P** To return to the previously viewed channel
- 15 +P- Channel up or down To switch to the next or previous channel in the channel list.
- 16 **MENU**

To switch the menu on or off

17 On screen information INFO

To show channel or programme information if available.

18 Dual screen 12

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

19 SUBTITLE

To activate or deactivate the subtitle mode.

20 Widescreen Picture format Diselect a picture format.

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

5.2 LightGuide brightness

The LightGuide at the front of the TV indicates the start up of the TV.

After start up the LightGuide is lit constantly. You can set the light intensity or let it switch off after start up.

- Press MENU > Setup > Installation > Preferences > LightGuide brightness.
- 2 Press ► to enter the list.
- 3 Press ▲ or ▼ to select the brightness level from 0 (off) to 4.

5.3 TV menus

The on screen menus help 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.

5.3.1 The menu

- Press **MENU** on the remote control to show the TV menu.
- 2 Press MENU to quit the TV menu.



The **TV** menu offers the following items:

| TV menu |
|--------------------|
| Smart settings |
| Picture |
| Sound |
| Settings assistant |
| Features |
| Setup |

• Smart settings

Select this item to set the TV to one of the predefined settings. Each setting combines picture and sound.

Picture

Select this menu item to adjust all picture settings.

• Sound

Select this menu item to adjust all sound settings.

Settings assistant

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

Features

Select this item for other feature settings.

- Setup
 - Select this item
 - for installation and for updating the TV software;
 - to make use of the connection assistant which will help you to connect your devices to the TV.

5.3.2 Use of the menu

Learn to use the menus with this example. 1 Press MENU on the remote control. The TV menu appears on the screen.

| TV menu |
|--------------------|
| Smart settings |
| Picture |
| Sound |
| Settings assistant |
| Features |
| Setup |

2 Press ▲ or ▼ to select Picture. **3** Press ► to enter the picture settings.



4 Press ▼ to select Brightness



5 Press \blacktriangleright to enter the brightness setting.



6 Press \blacktriangle or \checkmark to adjust the setting. 7 Press ◀ to return to the Picture settings or press MENU to quit the TV menu.

5.4 **Picture and Sound settings**

The first time you switched on your TV you have selected your preferred settings for picture and sound. The following sections describe how to modify or readjust those settings.

5.4.1 Smart settings

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

- 1 Press MENU on the remote control and select Smart settings.
- **2** Press \blacktriangleright to enter the list.
- **3** Press \blacktriangle or \checkmark to select a setting.
- 4 Press OK.

5 Press MENU to guit the TV menu.

Smart settings: Personal, Vivid, Standard, Movie, Energy saving, Game.

5.4.2 Settings assistant

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

1 Press MENU on the remote control, select Settings assistant and press ► to enter.

2 Press the green key on the remote control to start the assistant.

- **3** Press *◄* or *▶* to select the left or right side to make your choice.
- 4 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.
- 5 Press the green key to store all your settings.

5.4.3 Picture settings

This section describes how to adjust all picture settings individually.

- Press MENU on the remote control and select **Picture**.
- 2 Press ► to enter the list.
- **3** Press \blacktriangle or \checkmark to select a setting.

| | TV menu | Picture |
|---|--------------------|------------------|
| | Smart settings | Contrast |
| ſ | Picture | Brightness |
| | Sound | Colour |
| | Settings assistant | Hue |
| | Features | Sharpness |
| | Setup | Noise reduction |
| | | Tint |
| | | Perfect Pixel HD |
| | | Active control |
| | | |
| | | Picture format |

Auto format mod

• 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.

Noise reduction

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

• Tint

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

Custom

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

Controls the advanced settings of the Perfect Pixel HD Engine, resulting in best sharpness, contrast, colour and motion.

| Picture | Perfect Pixel HD |
|------------------|-------------------|
| | HD Natural Motion |
| Sharpness | 100 Hz Clear LCD |
| Tint | Advanced sharpn |
| Perfect Pixel HD | Dynamic contrast |
| Active control | Dynamic backlight |
| Light sensor | MPEG artefact red |
| Picture format | Colour enhance |
| Auto format mode | |

- HD Natural Motion

Removes motion judder and reproduces smooth movement especially in movies.

- **100 Hz Clear LCD** (if present) Results in superior sharpness of motion reproduction, better black level, high contrast with a flicker-free, quiet image and a larger viewing angle.

Advanced sharpness

Enables superior sharpness, especially on lines and contours in the picture.

- Dynamic contrast

Sets the level at which the TV automatically enhances the details in dark, middle and light areas of the picture.

- Dynamic backlight

Sets the level at which power consumption can be reduced by dimming the brightness intensity of the screen.

Choose for the best power consumption or for the picture with the best brightness intensity.

- **MPEG artefact reduction** Smoothens the transitions on digital contents.
- Colour enhancement

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

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 of the room. Switches Light sensor on or off.

Picture format

See section 5.4.4 Widescreen picture format.

5.4.4 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 🕞 to switch on the Picture format menu.



2 Press ▲ or ▼ to select an available picture format.

3 Press OK.

4 Press ▲ to shift the picture upwards to make partly covered subtitles visible.

🗘 Тір

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. You can set Auto format in two different modes.

- In the TV menu, select Picture > Auto format mode.
- 2 Select Auto-fill to fill the screen as much as possible. Select Auto-zoom to keep the original picture format but black bars may be 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 the format to 14:9.







- Movie expand 16:9 (Not for HD.) Scales the format to 16:9.
- Wide screen Stretches the 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 **7.5.1 Naming your devices**.

5.4.5 Sound settings

This section describes how to adjust all sound settings.

- Press MENU on the remote control and select Sound.
- 2 Press ► to enter the list.
- **3** Press \blacktriangle or \checkmark to select a setting.

| TV menu | Sound |
|--------------------|-------------------|
| Smart settings | Equalizer |
| Picture | Volume |
| Sound | Balance |
| Settings assistant | Dual I/II |
| Features | Mono/Stereo |
| Setup | TV speakers |
| | Surround mode |
| | Headphone volume |
| | Auto volume level |
| | |
| | |

• Equalizer

Changes the bass and treble of the sound. Select each bar to change the setting.

Volume

Changes the volume. When adjusting the volume with \checkmark a volume bar appears. If you do not want it to appear go to MENU > Setup > Installation > **Preferences** and press \blacktriangleright to enter the list and select Volume bar off.

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.

• TV speakers

If you have connected an audio system to your TV, you can switch off the TV speakers.

If your audio system supports Easylink, see section **7.2.2 Easylink**.

Select **Automatic** to have the sound from your TV automatically reproduced by your audio system.

• 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 \mathbf{k} on the remote control.

Auto volume levelling

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.

- **1** 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 dependant on the broadcast.

Select on or off.

5.5 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**.

5.5.1 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 TELETEXT.
- 2 Select a teletext page.
- 3 Press ◀ or ► to select a subpage.



5.5.2 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 TELETEXT.
- 2 Press INFO.

The T.O.P. overview appears.

- 3 Use \blacktriangleleft or \blacktriangleright , \blacktriangle or \blacktriangledown to select a subject.
- 4 Press **OK** to view the page.



5.5.3 Dual screen teletext

View the TV channel and teletext next to each other.

- 1 Press 12 for Dual screen teletext.
- 2 Press **TELETEXT** again to show normal teletext.
- **3** Press **TELETEXT** to switch off teletext.

5.5.4 Search teletext

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

- 1 Press TELETEXT.
- 2 Press OK to highlight the first word or number.
- 4 Press **OK** to search a page which holds the highlighted word or number.
- S Press ▲ until no word or number is highlighted to quit Search.

5.5.5 Enlarge teletext pages

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

- 1 Press **TELETEXT** and select a teletext page.
- Press on the remote control to enlarge the top part of the page.
- **3** Press **•** again to view the enlarged lower part of the page.
- Press ▲ or ▼ to scroll through the enlarged page.
- 5 Press again to return to the normal page size.



5.5.6 Teletext menu

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

Reveal

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.

• Language

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

- 1 Press TELETEXT.
- 2 Press MENU.

| Teletext menu | |
|----------------|--------|
| Reveal | Off |
| Cycle subpages | Off |
| Language | Gr. II |
| | |

- **3** Press \blacktriangle or \blacktriangledown to select an option.
- 4 Press OK to change a setting.
- 5 Press MENU to quit the teletext menu.
- 6 Press **TELETEXT** to switch off teletext.

5.5.7 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.

- Press MENU on the remote control and select Setup > Installation > Preferences > Teletext
 - **2.5** and press ► to enter the list.
- 2 Select on or off.

ENGLISH

5.6 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.

5.6.1 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.

All channels

| All chalineis |
|---------------|
| |
| AV 3 |
| HDMI |
| 1 Channel 1 |
| 2 Channel 2 |
| 3 Channel 3 |
| 4 Channel 4 |
| |
| Select list |

- 2 Press the red key to show all favourite lists.
- **3** Press \blacktriangle or \blacktriangledown to select a list.
- 4 Press OK.

The selected favourite list appears.

5 Press OK again to quit.

5.6.2 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 \blacktriangle or \blacktriangledown to select a list.
- 4 Press OK.
- Press the green key to enter the Edit mode. The selected list brings up a full channel list.
- 6 Press \blacktriangle or \checkmark to highlight a channel.
- 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.

5.6.3 Select a channel from a favourite list Press OK.

- The last selected channel list appears.
- 2 Use ▲ or to highlight a channel.
- 3 Press OK.
 - The TV tunes to that channel.

🗘 Тір

- 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.

5.7 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.

5.7.1 Automatically switch to standby

Sleeptimer switches the TV to standby after a time.

- Press MENU on the remote control and select Features > Sleeptimer and press ► to enter the sleeptimer bar.
- Press ▲ or ▼ 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.

5.7.2 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 Features > On timer and press ► to enter the On timer menu.
- 2 Use < or >, ▲ or ▼ 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 **Off** in the On timer menu.

5.7.3 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 Features > Set or Change code and press ► 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 ►.
- **3** Enter the overriding code 8-8-8-8.
- 4 Enter a new personal code.
- Confirm your new entered code. The previous code is erased and the new code is stored.

5.7.4 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.

- Press MENU on the remote control and select Features > Child lock and press ► to enter your code.
- 2 Enter your code with the number keys.
- **3** Select one of the options.
- 4 Press ►.

Lock or unlock all channels and connected devices Select Lock or Unlock.

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.

- 2 Press ► to enter the Custom lock menu.
- 3 Press ► again to enter the Lock after menu.
- 4 Select **On** to switch on the Timer lock.
- 5 Press ◀.
- 6 Select Time.
- 7 Press ►.
- 8 Enter the time with \blacktriangle or \checkmark and \triangleright .
- 9 Press OK.

Lock one or more channels and connected devices Select Custom lock.

- 2 Press ► to enter.
- 3 Press ▲ or ▼ to select Channel lock.
- 4 Press ►.
- S Press ▲ or ▼ to select the channel(s) you want to lock or unlock.
- 6 Each time press **OK** to lock or unlock the channel.

5.8 Subtitles

For each TV channel, subtitles can be set, coming from Teletext (if available).

5.8.1 Subtitling from analogue TV channels

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

Note

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

5.8.2 Activate or deactivate subtitling

- Press MENU on the remote control and select Features > Subtitle and press ► to enter the list.
- Press ▲ or ▼ 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 ◀ to return to the Features menu.

| TV menu | Features |
|--------------------|-----------------|
| Smart settings | Subtitle |
| Picture | Sleeptimer |
| Sound | Child lock |
| Settings assistant | Set/Change code |
| Features | On timer |
| Setup | Demo |
| | |
| | |

5.9 Watch and play your photos and music

Watch pictures or listen to music stored on a USB device (not supplied with the TV), a camcorder (only for photos) or from your PC network. Watch your pictures as a slideshow or listen to a self made music playlist.

Note

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

5.9.1 Insert the USB device

 Insert a device at the side of the TV while the TV is switched on.

A message appears that a USB device has been detected and the USB device automatically breaks in.

Note

In case the USB device does not automatically break in, press Source $- \mathbf{E} >$ USB/Memory cards and press **OK**.

Select **Side** and press **OK** to display your camcorder content.

5.9.2 Remove the USB device

- 1 Press Source -
- 2 Remove the USB device.
- **3** Select TV or another connected device to watch a programme.

5.9.3 Watch your pictures, start a slideshow and play music

Look up your pictures in the Picture album of your USB device.

1 Select the Picture folder for the picture files you have stored on your USB device.

| USB | Picture |
|-----------|---------------|
| 🖆 Picture | 🗂 Afrika_2001 |
| 🗂 Music | Paris_2006 |
| | 🖸 My_car.jpg |
| | 🖸 Jean.jpg |
| | 🖸 Mary.jpg |

- 2 Press ► to enter the Picture folder.
- 3 Press ▲ or ▼ to select a picture or a picture album.

| Picture | Afrika_2001 |
|---------------|----------------|
| 🖆 Afrika_2001 | 🖸 Kenya.jpg |
| Paris_2005 | 🖸 Congo.jpg |
| 🖸 My_car.jpg | 🖸 Victoria.jpg |
| 🖸 Jean.jpg | 🖸 Dakar.jpg |
| 🖸 Mary.jpg | 🖸 Cairo.jpg |

| Afrika_2001 | Afrika_2001 |
|----------------|-------------|
| 🖸 Kenya.jpg | |
| 🖸 Congo.jpg | |
| 🖸 Victoria.jpg | |
| 🖸 Dakar.jpg | Kenya.jpg |
| 🖸 Cairo.jpg | |

- 4 Press OK to watch 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. If the function bar at the bottom disappeared, press any colour key to let it reappear.
- **7** Press **4** 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 ▲ or ▼ 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.

Start/Show/Pause

To stop, pause and restart the slideshow.

Thumbnails

Watch the pictures of a selected album in an overview.

- 1 Select a picture album.
- 2 Press ► to enter the picture list.
- 3 Press the blue key.
- 4 Press \blacktriangle or \checkmark , \triangleleft or \triangleright to highlight a picture.
- 5 Press OK to watch the picture.
- 6 Press ◀ to return to the thumbnail overview.

7 Press the blue key again to go back to the picture list.



Listen to music

Look up your songs in the Music album of your USB device.

- 1 Select the Music folder for the music files you have stored on your USB device.
- 2 Press ► to enter the Music folder.
- 3 Press ▲ or ▼ 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.

Watch a 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.

5.9.4 Watch photos or listen to music from your PC

To watch photos and listen to music from a connected PC, make sure:

- your router and PC are switched on
- a media server software is running on your PC. See section 7.6 PC network.

⁵ Press one of the colour keys on the remote control to perform the corresponding function shown at the bottom of the screen. If the function bar at the bottom disappeared, press any colour key to let it reappear.

- Press the Source → key on the remote control.
- 2 Select PC network and press ►. Wait until the PC content comes on.
- 3 Select the content you want to watch or listen to and press ►.
- 4 Use ◄ or ►, ▲ or ▼ to go through the photo or music files or folders.
- 5 Press OK to watch or listen.
- 6 Press \blacktriangleleft to go back to the previous list.

See section **9 Troubleshooting** in case of problems playing files or in case your PC does not appear in the PC network menu.

5.10 Software update

Philips continually 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).

Verify that your USB memory device has at least 48Mb free space. Make sure the write protection is switched off. Some USB devices do not work with our TV.

5.10.1 Update assistant

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

Step 1:TV identification

The TV has to identify with your USB memory device.

1 Press MENU > Setup.

- 2 Press ►.
- **3** Press \blacktriangle or \checkmark to select **Software update**.
- 4 Press ►.

| Setup | Software update |
|-----------------|------------------|
| Installation | Update assistant |
| Software update | Current software |
| | Local updates |
| | |
| | |
| | |
| | |
| | |

- **5** Press \blacktriangle or \checkmark to select **Update assistant**.
- 6 Press ►.

device.

- 7 Press OK to activate.
- Insert a USB memory device into the USB connector at the side of the TV.
 The TV menu appears.

Press the green key to proceed.
 A message appears that the TV has successfully written its identification file to the USB memory

- 10 Press the green key again to finish.
- 11 Remove the USB memory device from the TV.

Step 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.

If new software is available, the update is downloaded on the USB memory device.

4 Remove the USB memory device from your PC.

Step 3: Software update transfer 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 from the TV 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.



Switch on the LV.
 Insert the USB memory device to the USB

connector at the side of the TV.



3 The TV switches off. The screen stays black for about 10 seconds. Wait and do not use the power switch (1) on the TV.







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



5 Remove the USB memory device from the TV.



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



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



8 The TV switches back on again. The update is done.



Channel installation 6

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

This chapter provides instructions on how to reinstall channels as well as other useful channel installation features.

Note:

Re-installation will modify the All channels list and new added channels will not be added to any favourite list.

6.1 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 Setup > Installation > Language

- 2 Press ► to enter the menu language.
- **3** Press \blacktriangle or \checkmark to select your language.
- 4 Press OK to confirm.
- 5 Press ◀ to return to the Installation menu.

| Installation | Language | |
|------------------|------------|--|
| Language | ⊙ English | |
| Channel install | O Français | |
| Preferences | ○ 中文 | |
| Connections | عربي 🔾 | |
| Factory settings | | |
| | | |
| | | |

Step 2: Install TV channels

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

- 1 Press ▼ to select Channel installation.
- 2 Press ► to enter the Channel installation menu. Automatic installation is highlighted.
- 3 Press ► to select Start now.
- 4 Press OK.
- 5 Press 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. 5 Press MENU to guit the menu.

🗘 Tip

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

ENGLISH

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 Setup > Installation > Channel installation > Manual installation.
- 2 Press ► to enter the Manual installation menu. System is highlighted.
- 3 Press ► to enter the System list.
- 4 Press ▲ or ▼ to select TV system: PAL BG, PAL I, PAL DK or NTSC M.

| Channel install | Manual installation |
|---------------------|---------------------|
| Automatic install | System |
| Manual installation | Search |
| Rearrange | Fine tune |
| | Store current ch |
| | Store as new ch |
| | |
| | |

6.2.2 Search for and store a new channel

- Press MENU on the remote control and select Setup > Installation > Channel installation > Manual installation > Search.
- **2** Press \blacktriangleright to enter the Search menu.
- Press the red key to enter the frequency yourself or press the green key to search for a next channel.

🗘 Tip

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

- **5** Select **Store as new channel** to store the new channel under a new channel number.
- 6 Press ► to enter.
- 7 Press OK.
 - Done appears.
- 8 Press MENU to quit the channel installation menu.

6.2.3 Fine tune a channel

Fine tune a found channel when the reception is poor.

- Press MENU on the remote control and select Setup > Installation > Channel installation > Analogue: manual installation > Fine tune.
- **2** Press \blacktriangleright to enter the Fine tune menu.
- 3 Press \blacktriangle or \blacktriangledown to adjust the frequency
- 4 Press \blacktriangleleft when you finished fine tuning.
- **5** Select **Store current channel** to store the fine tuned channel under the current channel number.
- 6 Press ► 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.

6.3.1 Rename a channel

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



- 2 Press ► to enter the channel list.
- 3 Press ▲ or ▼ in the channel list to select the channel you want to rename.
- 4 Press the red key.
- 5 Press
 or ► to select a character or
 or
 to change the characters. Space, numbers and other special characters are located between z and A.
- 6 Press the green key or **OK** to finish.

🗘 Тір

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

6.3.2 Uninstall or reinstall a channel

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

Reinstall an earlier uninstalled channel.

- Press MENU on the remote control and select Setup > Installation > Channel installation > Rearrange.
- 2 Press ► to enter the channel list.
- 3 Press ▲ or ▼ 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.

- Press MENU on the remote control and select Setup > Installation > Channel installation > Rearrange.
- 2 Press ► to enter the channel list.
- 3 Press ▲ or ▼ in the channel list to select the channel you want to reorder.
- 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.
 Press MENUL to guit the manual

6 Press **MENU** to quit the menu.

6.4 Factory settings

You might want to return to the original factory settings. Only picture and sound settings will be reset.

Press MENU on the remote control and select Setup > Installation > Factory settings.

2 Press ► to enter the Factory settings menu.
3 Press OK.

3 Press OK

4 Press **MENU** to quit the menu.

7 Connections

7.1 Connection overview



Side connectors

1 Headphones

Stereo Mini jack

2 Audio L/R

Audio L/R input to be used together with Video or S-Video on the side of the TV.

3 Video

Video input to be used together with the Audio L/R on the side of the TV.

4 S-Video

S-Video input to be used together with the Audio L/R on the side of the TV.

5 USB

USB connector.

6 HDMI Side HDMI input

Back connectors

7 AV1

AV connector for DVD, VCR, Digital receiver, Game console, etc.

- 8 AV2 Second AV connector. VGA connector for a PC
- 9 Service UART For service only.

10 **Digital Audio Out** Sound output cinch connector for a Home Theatre System, etc.

11 Audio Out L/R Sound output cinch connectors for a Home Theatre System, etc.

12 **AV3**

Third AV connector.

- 13 Antenna input
- 14 Network

Home network connector.

- 15 HDMI 1, HDMI 2, HDMI 3 HDMI input connectors for Blu-ray Disc player, HD Digital receiver or HD Game console, etc.
- 16 Audio L/R In [DVI to HDMI] Audio In L/R connectors to be used together with a DVI to HDMI connection.

7.2 **About connections**

7.2.1 What you need to know

Connect your device with the highest possible quality connection.

Look for the highest quality connection on your device. Use that connection to your TV.

HDMI - Highest quality $\star \star \star \star \star$

An HDMI connection has the best picture and sound quality. One cable combines video and audio signals. Use HDMI for HD (High Definition) TV signals. HDMI with EasyLink offers easy operating of your connected devices when these have the HDMI CEC standard. See section 7.2.2 EasyLink 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)

C Tip

DVI to HDMI – Higher quality $\star \star \star \star$

Use a DVI to HDMI adaptor if your device has only a DVI connection.

Connect an Audio L/R cable to Audio In L/R (DVI to HDMI) for sound.

You need to assign this Audio In (DVI to HDMI) connector to the HDMI 1, 2 or 3 connector you are using for this device. See section 7.5.2 Audio setup.

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).

YPbPr – Higher quality $\star \star \star \star$

Use the Component Video YPbPr connections together with Audio Left and Right. Match the cable colours when you connect.

YPbPr can handle HD TV signals.





Component Video YPbPr cable

- Red. Green. Blue

Audio L/R cable - Red. White

S-Video - Good quality ★★

Use an 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

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

7.2.2 **HDMI** with EasyLink

Devices connected with HDMI and which have the HDMI CEC standard can work together.

1 Press MENU > Setup > Installation >

Preferences and press ► to enter the list.

- **2** Press \blacktriangle or \checkmark to select **EasyLink**.
- **B** Press \blacktriangleright to enter.
- 4 Press ▲ or ▼ to select On or Off.
- 5 Select **On** to activate EasyLink.

EasyLink might not work with devices from other brands.

One touch play

Insert a DVD disc and press Play. The TV switches on from standby and shows the DVD programme automatically.

System standby

Press the () key on the remote control for more than 2 seconds to switch the connected devices in standby.

System audio control

When you connect an audio system you can listen to the sound from your TV through your audio system while the TV speakers are muted. See section 5.4.5 Sound settings, TV speakers.

Note

Ensure that the System audio control in your HDMI-CEC audio devices (for ex. Home Theatre System) is properly set up.

7.2.3 Display synchronised audio out

For the best match of image and sound in speech on screen, connect a Home Theatre System to Audio Out L/R or Digital Audio outputs. See diagrams 7.4.4 and 7.4.8.

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 with the Connection** assistant

(if available)

Use the Connection assistant to show you how to connect your devices to your TV. It sets all necessary settings automatically.

You can also connect your devices without the use of the Connection assistant. See section 7.4 Connect without the Connection assistant.

1 Press MENU on the remote control and select Setup > Installation > Connection assistant.

2 Press ► to start the Connection assistant.

7.4 **Connect without the Connection** assistant

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

When a device is connected the TV needs to know what connection you made. See section 7.5 Connection setup.

7.4.1 DVD player

Use an YPbPr cable and an audio L and R (cinch) cable to connect the device to the AV1 or AV2 input at the back of the TV.



7.4.2 DVD Recorder or Digital Receiver

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



7.4.3 DVD Recorder and Digital Receiver

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



7.4.4 DVD Recorder and Home Theatre System

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



7.4.5 DVD Recorder and DVD Home Theatre System

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



7.4.6 Satellite receiver

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



31

7.4.7 HD Digital receiver / HD satellite receiver

Use an HDMI cable and 2 antenna cables.



7.4.8 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 audio (cinch) cable.



7.4.9 Blu-ray Disc player

Use an HDMI cable.



7.4.10 Game console

The most practical connections for a game console are at the side of the TV.

Connected at the side of the TV

Use the HDMI connection or the S-Video and Audio L/R connections or the Video and Audio L/R connections.



Connected at the back of the TV

Use an HDMI connection or the YPbPr (AV1 or AV2) input and Audio L/R connections for HD quality.



7.4.11 Camcorder

The most practical connection for a camcorder is at the side of the TV.

Connected at the side of the TV

Use the HDMI connection or the Video and Audio L/R connections or use the S-Video and Audio L/R connections.



Connected at the back of the TV

Use an HDMI connection or the YPbPr (AV1 or AV2) input and Audio L/R connections for HD quality.



7.4.12 Personal Computer

You can connect your PC directly to the TV. The TV works as a monitor of your PC. For more features you can connect your PC in a PC network. See section **7.6 PC network**. As a monitor the PC can be connected at the side with a DVI to HDMI adaptor or with a PC to TV cable. Alternatively you can connect the PC at the back with the VGA connection.

Caution

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

🗘 Тір

Set the TV picture format to Unscaled in the Picture format menu for maximal PC picture sharpness. See section **5.4.4 Widescreen picture format**.

DVI to HDMI connection

Use a DVI to HDMI adaptor to connect to the HDMI side connection.

Connect the Audio L/R at the side for sound.



PC to TV connection

Use a PC-TV out cable to S-Video and Audio L/R cable to connect to the side of the TV.



VGA connection

Use a VGA cable to connect the PC to the AV2 connection at the back of the TV. Connect the Audio L/R to the AV2 Audio L/R.



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

7.5 Connection setup

The TV needs to know what connections you have made and which device is connected to which connector.

If you have used the Connection assistant the connection setup is already done.

7.5.1 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.

- Press MENU on the remote control and select Setup > Installation> Rename devices.
- **2** Press \blacktriangleright to enter the list.
- 3 Press \blacktriangle or \checkmark to select the connector you
- used for the device you connected.
- 4 Press ►.
- **5** Press \blacktriangle or \checkmark to select the type of device.
- 6 Press MENU to quit the menu.

7.5.2 Audio setup

If you use the Audio In L/R (DVI to HDMI) connector for a device connected to HDMI at the back of the TV, assign this Audio In to the HMDI 1, 2 or 3 where the device is connected.

- Press MENU on the remote control and select Setup > Installation > Audio setup.
- 2 Press ► twice.
- 3 Press ▲ or ▼ to select the HDMI connection that should be linked up with this Audio In.

| Audio setup | Audio in L/R |
|--------------|--------------|
| Audio in L/R | None |
| | HDML1 |
| | HDMI 2 |
| | HDMI 3 |
| | |
| | |
| | |
| | |

7.6 PC network

You can link up your TV on a PC network in your home. Watch your photos and listen to your music from any linked PC on the TV. The PC network feature of this TV is DLNA certified. You can use Microsoft Windows XP or Vista, Intel Mac OSX or Linux.



An example of a home PC network.

7.6.1 What you need

To set up your TV in a home PC network you need:

- a router and a computer in a home network
- a network cable
- recent media server software (Windows, media Player 11 or similar) on your computer.

For a complete list of compatible media server software see section **8 Technical data**.

7.6.2 Set up a PC network connections

On the TV no special settings are necessary to connect automatically to the network.

Connect the network xx cable from your router to the Network connector at the back of the TV.



- 2 Switch on the router. Set the router to DHCP On.
- **3** Switch on the computer and start the media server software.

4 Some media server software needs a setting to share your files with the TV.

In the media server this TV will present itself as a number - a MAC or IP number.

Have the TV and router switched on for this number to appear in the media server. Select the TV number in the media server and set the server to share files with this number. For media server software marked with an * in sections **8 Technical data**, a step by step setting instruction is available in the online User manual.

Type in your TV model number on ... www.philips.com/support.

In the extended User manual see section **7.7 PC network**.

A firewall, a security system on your computer, could also block the network connection. Allow the media server software to go to the network.

- S Press the Source key on the remote control.
- 6 Select PC network and press ►. It could take some time for the TV to connect.
- **2** Use the colour and navigation/rotation keys to browse your folders or play your files.

If the TV can not connect to the network, study the server software, router or PC manuals.

7.6.3 Manual network setup

Some expert network settings can be set on the TV. The DHCP is set to On to automatically connect to the network.

Press **MENU** > Setup > Installation > Manual network installation.

ENGLISH

8 Technical data

Picture / Display

- Display type: LCD Full HD W-UXGA
- Panel resolution: 1920x1080p
- Perfect Pixel HD picture enhancement
- 1080p 24/25/30/50/60Hz processing
- 100 Hz Clear LCD

Supported display resolutions

| Computer formation | ats |
|--|-----|
|--|-----|

| Resolution | Refresh rate |
|------------------|--------------|
| 640 × 480 | 60Hz |
| 800×600 | 60Hz |
| 1024 x 768 | 60Hz |
| 1280 × 768 | 60Hz |
| 1360 x 765 | 60Hz |
| 1920 x 1080i | 60Hz |
| 1920 ×1080p | 60Hz |
| Video formats | |
| Resolution | Refresh rate |
| 480i | 60Hz |
| | |

| 480i | 60Hz |
|-------|------------------|
| 480p | 60Hz |
| 576i | 50Hz |
| 576р | 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, (MPEG2)
- Video playback: NTSC, SECAM, PAL

Sound

- Sound system:
 - Virtual Dolby Digital
 - BBE

Multimedia

- Connections: USB
- Playback formats: MP3, Slideshow (.alb) JPEG, MPEG1, MPEG2.

Supported media server software

- Windows Media Player 11 (on Microsoft Windows XP* or Vista*)
- Philips Media Manager (on Microsoft Windows XP)
- PacketVideo Twonky Media 4.4.2 (on PC* & Intel Mac OSX*)

- Sony Vaio media server (on Microsoft Windows XP or Vista)
- TVersity v.0.9.10.3 (on Windows XP*)
- Nero 8 Nero MediaHome (on Microsoft Windows XP)
- DiXiM (on Windows XP)
- Macrovision Network Media Server (on Windows XP)
- Fuppes (on Linux)
- UShare (on Linix)
- Philips NAS SPD8020

* For this media server software a step by step setting instruction is available in the online User manual on www.philips.com/support.

Supported USB/Memory device formats

• FAT 16, FAT 32, NTFS.

Remote control

- Type: RC2143605/01
- Batteries: 2 Size AAA-LR03-1,5V type

Connectivity

Back

- AV1: Audio L/R, CVBS in, YPbPr
- AV2: Audio L/R, CVBS in, YPbPr, Video, VGA
- AV3: Video, Audio L/R in
- HDMI 1 in (HDMI 1.3a for all HDMI connections)
- HDMI 2 in
- HDMI 3 in
- Audio In L/R (DVI to HDMI)
- Audio Out L/R display synchronised
- Digital Audio out (coaxial-cinch-S/PDIF) display synchronised
- Network (RJ45)

Side

- HDMI side in
- S-Video in (Y/C)
- Video in (CVBS)
- Audio L/R in
- Headphone (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. Dimensions and weights (approx.)

| TV model | 42PFL9703/98 | 47PFL9703/98 | 52PFL9703/98 |
|------------|--------------|--------------|--------------|
| - width | 1054mm | 1167mm | 1300mm |
| - height | 658mm | 722mm | 803mm |
| - depth | 100mm | 101mm | 127,5mm |
| - weight | ±28kg | ± 35,5kg | ± 45,5kg |
| TV + stand | | | |
| - width | 1054mm | 1167mm | 1300mm |
| - height | 731mm | 795mm | 875mm |
| - depth | 265mm | 290mm | 320mm |
| - weight | ± 31kg | ± 40,5kg | ± 49kg |
| | | l | |

ENGLISH

9 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 not empty or weak. Verify their + / - orientation. You can use the keys on the TV to switch the TV on.
- Unplug the mains cord, wait a minute and plug it back in. Try again to switch on.

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.

The TV switches off and the red light blinks

 Unplug the mains cord, wait a minute and plug it back in. 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 Care.

You forgot your code to unlock Child lock

• See section 5.9.3 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 Use ▼ to select the last menu line.
- 3 Press ► three times.
- 4 Press \blacktriangle or \checkmark to select your language.
- 5 Press OK.
- 6 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

LightGuide is on but 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.
- 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 **Smart settings** menu. See section **5.4.1**.
- Verify the connections and cables of the connected devices.

The TV does not remember my settings when I switch back on

 Verify if the TV is set to Home in the TV menu > Setup > 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 5.4.4 Widescreen picture format.

 Name your connected device in the Connections menu to obtain the best signal handling.
 See section 7.5.1 Naming your devices.

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 on the remote control. Verify the signal output of the device.

Sound

There is a picture but no sound

- Verify the volume is not set to 0.
- 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 is not a malfunction.

The sound is poor

- Verify if the sound is set to Stereo.
- Verify the Equalizer in the Sound menu.
- Select any of the Smart settings in the menu. ;

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 a DVI to HDMI 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**.

Photo and music 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**.

I can not find my PC files on my PC

- · Verify if files have been added in the folder.
- Not all file formats are supported. See section **8** Technical data.

PC files are not shown in the PC network menu

• You have to set the PC media server to share files with the TV. See section **7.6.2 Set up a PC network connection**.

PC files do not play

• See section **8 Technical data** for supported file formats.

If your problem is not solved

Switch your TV off and on again, that may help. If not, call our Consumer Care or consult our website www.philips.com/support.

Find the Consumer Care telephone numbers on the back cover of this 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.

10 Index

100 Hz Clear LCD 13

Α

Active control 13 Advanced sharpness 13 Antenna cable 7 connect 7 with devices 30 Audio setup 35 Auto format 14 Automatic installation 24 Auto surround 15 Auto Volume levelling 15 AV1,2,3 27

В

Balance sound 15 Batteries 3,7 Blacklevel 13 Blu-ray Disc 32 Brightness 13

С

Cable HDMI 28 YPbPr 28 S-Video 28 Video 28 Camcorder 33 Camera (photo) 33 Care of the screen 3 Change code 18 Channel all channels list 17 favourite list 17 installation 24 lock 18 Channel previous 10 rearrange 26 store / install 26 Child lock 18 Code 18 Colour enhancement 13 menu 13 keys 4,10

Connection assistant 29 best 28 overview 27 set up 35 Contrast 13 Custom lock 18 Custom tint 13

D

Delta volume 15 Device connecting 29 naming 35 watch 9 DHCP 36 Digital audio out 27 receiver 30 Dual I/II 15 Dual screen 10 DVD connect 30 playback 9 player 30 recorder 30,31 Dynamic backlight 13 contrast 13

Ε

EasyLink 29 Energy saving 7 Equalizer 14

F

Factory settings 26 Favourite channel lists 17 Fine tune 25

G

Game console 33

Η

HDCP 28 HDMI connection 28 HD digital receiver 32 HD natural motion 13 Headphone connect 4,27 volume 15 Home location 39 Home theatre system 31 Hue 13

Installation automatic 24 first time 7 manual 25 manual network installation 36 menu 34

К

Kensington Security Slot 5 Key(s) colour 10 on TV 4 on remote control 4,10

L

Language menu 24 LightGuide 11 Light sensor 13 Location 39 Locks 18

Μ

Mains cord 7 Manual installation 25 Menu key 11 Mono 15 Movie expand 14 MPEG artefact reduction 13 Music 20 Mute key 10

Ν

Naming devices 35 Network setup 36 Noise reduction 13

0

OK key 10 On timer 18

Ρ

Perfect Pixel HD 13 Personal Computer connect 34 display resolutions 37 Photo viewer 19 Picture folder 19 format 13 menu 13

Position the TV 5 Programme up/down 10

R

Rearrange channels 25 Recorder 30 Recycling 3 Remote control batteries 7 overview 10 Rename 35 Reorder 26

S

Safety 3 Satellite receiver 31 Screen cleaning 3 Search channels 25 teletext pages 15 Set code 18 Settings assistant 12 Sharpness 13 Sleeptimer 18 Smart settings 12 Software update 22 Sound menu 14 surround mode 15 Standby 8,10 Super zoom 14 Stationary images 3 Stereo 15 Subtitle 19 Switch on 8

Т

Table of Pages T.O.P 15 Technical data 37 Teletext 15 teletext 2.5 16 dual screen 15 language 16 menu 16 page 15 Timers 18 Tint 13 Troubleshooting 39 TV settings menu 12 TV speakers 15

U

Unscaled 14 USB connector 27 device 19 photo viewer 20

۷

VCR connect 30 VGA 33 Video cable 28 Video formats 37 Volume bar 14 key 10 menu 14

W

Whitepoint 13 Widescreen picture format 14

Y

YPbPr 28

ERRATUM

勘误表

خطأ

7.6 PC network

This PC network feature is not present in this TV model.

7.6 电脑网络

此电视型号不提供该电脑网络功能。

7.6 شبكة أجهزة كمبيوتر شخصي

إن ميزة شبكة أجهزة الكمبيوتر الشخصي ليست مضمنة في هذا الطراز من أجهزة التلفزيون



DLNA[®], the DLNA logo and DNLA Certified[™] are trademarks, service marks, or certification marks of the Digital Living Network Alliance.

受 CERTIFIED DLNA[®]、DLNA 徽标 和 DNLA Certified[™] 是 Digital Living Network Alliance 的商标、服务商标 或认证标志。

DLNA[®] إن [®]DLNA وشعار DLNA و CERTIFIED™ إن [®]DLNA certified™ DNLA Certified™ علامات خدمات أو علامات رقابة لـ Digital Living .Network Alliance

