User Manual

65PUT6703



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Get Support

1.1

1

Identify and Register your TV

Identify your TV - TV model number and serial

number

You might be asked to provide the TV product model number and serial number. Find these numbers on the packaging label or on the type label on the back or bottom of the TV.

Register your TV

Register your TV and enjoy a range of benefits including full support (including downloads), privileged access to information about new products, exclusive offers and discounts, the chance to win prizes and even participate in special surveys about new releases.

Go to <u>www.philips.com/TVsupport</u>

TV Help and User Manual

Settings > Help

You can use Help function to diagnose and get more information about your TV.

• How to - You can see instructions on how to install channels, sort channels, update TV software, connect external devices and use Smart functions on your TV.

• Check the TV – You can check if the picture, sound, Ambilight* are working fine during playing a short video clip.

• Check the network – Check the network connection.

• Update software - Check available software updates.

• User manual - Read the user manual for TV information.

• Troubleshooting - Find a solution for frequent ask questions.

• Factory settings - Reset all settings to factory settings.

• **Reinstall TV** – Reinstall and redo the complete TV installation.

• Contact info - Show the telephone number or web address for your country or region.

* Ambilight setting is only for models which support Ambilight function.

^{1.3} On-line Help and User Manual

To solve any Philips TV related problem, you can consult our online support. You can select your language and enter your product model number.

Go to www.philips.com/TVsupport.

On the support site you can find your country's telephone number to contact us as well as answers to frequently asked questions (FAQs). In some countries, you can chat with one of our collaborators and ask your question directly or send a question by email. You can download new TV software or the manual to read on your computer.

For more TV troubleshooting and frequently asked questions (FAQs)...

Go

to <u>http://philips-tvconsumercare.kxondemand.com/</u> <u>portal/en/ModelSelect</u>

TV Help on your tablet, smartphone or computer

To carry out extended sequences of instructions more easily, you can download the TV Help in PDF format to read on your smartphone, tablet or computer. Alternatively, you can print the relevant Help page from your computer. To download the Help (user manual) go to www.philips.com/TVsupport

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Consumer Care / Repair

For support and repair, call the Consumer Care hotline in your country. Our service engineers will take care of a repair, if necessary.

Find the telephone number in the printed documentation that came with the TV. Or consult our website <u>www.philips.com/TVsupport</u> and select your country if needed.

TV model number and serial number

You might be asked to provide the TV product model number and serial number. Find these numbers on the packaging label or on the type label on the back or bottom of the TV.

A Warning

Do not attemp to repair the TV yourself. This may cause severe injury, irrepairable damage to your TV or void your warranty.

Software

^{2.1} Update Software

Search for Updates

Update from Internet

♠ (Home) > Settings > Update software > Search for updates > Internet (Recommended)

Look for a software update yourself.

• If the TV is connected to the Internet, you may receive a message to update the TV software. You need a high-speed (broadband) Internet connection. If you receive this message, we recommend you to carry out the update.

During the software update, there is no picture and the TV will switch off and on again. This might happen several times. The update can take a few minutes.
Wait until the TV picture comes back up. Do not press the power switch **O** on the TV or on the remote control during the software update.

Update from USB

♠ (Home) > Settings > Update software > Search for updates > USB

• You need a computer with an high-speed Internet connection and a USB memory device to upload the software on the TV.

• Use a USB memory device with 512MB free space. Make sure that write protection is switched off.

1 - Start the update on TV

Select Update software > Search for updates > USB, then press OK.

2 - Identify the TV

Insert the USB memory into one of the USB connections of the TV.

Select **Start** and press **OK**. An identification file is written on the USB memory device.

3 - Download the TV software

- Insert the USB memory into your computer.
- On the USB memory device, locate the
- file update.html and double click it.
- Click on Send ID.
- If new software is available, download the .zip file.
- After the download, unzip the file and copy the
- file autorun.upg onto the USB memory device.
- Do not place this file in a folder.
- 4 Update the TV software

Insert the USB memory into the TV again. The update starts automatically.

The TV switches itself off for 10 seconds and then

back on again. Please wait.

Do not . . .

- \cdot use the remote control
- \cdot remove the USB memory device from the TV
- press 😃 twice
- \cdot press the power switch on the TV

The TV switches itself off (for 10 seconds) and then back on again. Please wait.

The TV software has been updated. You can use the TV again.

To prevent an accidental update of the TV software, delete the autorun.upg file from the USB memory device.

Local Updates

♠ (Home) > Settings > Update software > Search for updates > USB > Local updates.

For dealers and expert users.

Look for OAD updates (Over-the-air Download)

♠ (Home) > Settings > Update

software > Search for updates > Look for OAD updates.

Scan to search for an Over-the-air software update.

2.2

Software Version

♠ (Home) > Settings > Update software > Current software info

To view the current TV software version.

³ Quick Guide

^{3.1} Remote Control

Batteries and Cleaning

Replace batteries

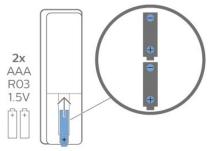
If the TV does not react on a key press on the remote control, the batteries might be empty.

To replace the batteries, open the battery compartment on the back of the remote control.

1 - Slide the battery door in the direction shown by the arrow.

2 - Replace the old batteries with 2

type AAA-R03-1.5V batteries. Make sure the + and the - ends of the batteries line up correctly.



3 - Reposition the battery door and slide it back until it clicks.

• Remove the batteries if you are not using the remote control for a long time.

• Safely dispose of your old batteries according to the end of use directions.

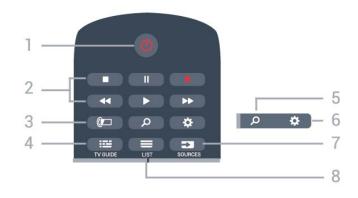
Cleaning

Your remote control is treated with a scratch-resistant coating.

To clean the remote control, use a soft damp cloth. Never use substances such as alcohol, chemicals or household cleaners on the remote control.

Key Overview

Тор



1 - 🕚 Standby / On

To switch the TV on or back to Standby.

2 - Playback and Record

- Play **b**, to playback.
- \cdot Pause II, to pause playback
- Stop ■, to stop playback
- Rewind ◀, to rewind
- Fast forward ▶▶, to go fast forward
- \cdot Record \bullet , to start recording

3 - 🕼 Ambilight

To select one of the Ambilight style or switch off Ambilight.

4 - 🖽 TV GUIDE

To open or close the TV Guide.

5 - P Search

To open the Smart TV searches page.

6 - 🌣 Settings To open the Quick settings menu.

7 - 🕽 SOURCES

To open the Sources menu.

8 - 🔳 LIST

To open or close the channel list.

Middle



1- 🕇 Home

To open the Home menu.

2 - 📡 SMART TV

To open the Smart TV start page.

3 - - - Colour keys

Direct selection of options. Blue key —, opens Help.

4 - 🗊 INFO

To open or close programme info.

5 - 🔶 BACK

To close a menu without changing a setting.

6 - 👿 - EXIT

To switch back to watch TV. To stop an interactive TV application.

7 - **幸** OPTIONS

To open or close the Options menu.

8 - OK key

To confirm a selection or setting. To open the channel list while watching TV.

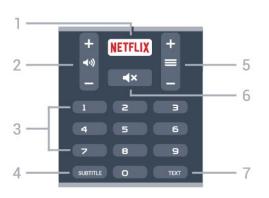
9 - Arrow / navigation keys

To navigate up, down, left or right.

10 - 🔳 Picture FORMAT

To open or close the Picture Format menu.

Bottom



1 - NETFLIX

To open the Netflix App directly. With the TV switched on or from standby.

• If you have a Netflix menbership subscription, you can enjoy Netflix on this TV. Your TV must be connected to the Internet.

• To open Netflix, press **NETFLIX** to open the Netflix App. You can open Netflix immediately from a TV in standby.

www.netflix.com

2 - 📢 Volume

To adjust the volume level.

3 - Number keys

To select a channel directly.

4 - SUBTITLE

To switch subtitles on, off or to show automatically.

5 - 🚍 Channel

To switch to the next or previous channel in the

channel list. To open the next or previous page in Text/Teletext. To start the next or previous chapter on a disc.

6 - 🛋 🛪 Mute

To mute the sound or to restore it.

7 - TEXT

To open or close Text/Teletext.

3.2 IR sensor

The TV can receive commands from a remote control that uses IR (infrared) to send commands. If you use such a remote control, always make sure you point the remote control at the infrared sensor on the front of the TV.



▲ Warning

Do not put any objects in front of IR sensor of the TV, it may block the IR signal.

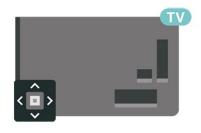
3.3

Joystick – Local Control

Keys on TV

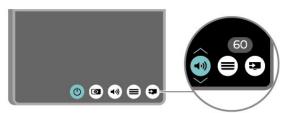
If you lost the remote control or its batteries are empty, you can still do some basic TV operations.

To open the basic menu...



1 - With the TV switched on, press the joystick key on the back of the TV to bring up the basic menu.

2 - Press left or right to



3 - Press up or down to adjust the volume or tune to the next or previous channel. Press up or down to go through the list of sources, including the tuner selection.

7

The menu will disappear automatically.

⁴ Setting Up

4.1

Read Safety

Read the safety instructions first before you use the TV.

To read the instructions, in Help > User manual, press the colour key — Keywords and look up Safety and Care.

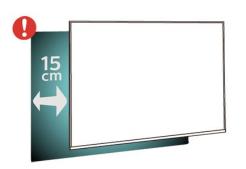
4.2 TV Placement

Tips on Placement

• Position the TV where light does not shine directly on the screen.

 \cdot Position the TV up to 15 cm away from the wall.

• The ideal distance to watch Ultra HD TV is 2 to 5 times of its screen height. When seated, your eyes should be level with the centre of the screen.



TV Stand

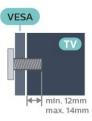
You can find the instructions for mounting the TV stand in the Quick Start Guide that came with the TV. In case you lost this guide, you can download it from www.philips.com/TVsupport.

Use the model number of the TV to look for the **Quick Start Guide** to download.

Wall Mounting

Your TV is also prepared for a VESA-compliant wall mount bracket (sold separately).

Use the following VESA code when purchasing the wall mount . . .



• 65PUT6703 VESA MIS-F 400x200, M6 (Minimum 10 mm, Maximum 16 mm)

Preparation

First remove the 4 plastic screw caps out of the threaded bushes on the back of the TV. Make sure that the metal screws, to mount the TV to the VESA-compliant bracket, go about 10mm deep inside the threaded bushes of the TV.

Caution

Wall mounting the TV requires special skills and should only be performed by qualified personnel. The TV wall mounting should meet safety standards according to the TVs weight. Also read the safety precautions before positioning the TV. TP Vision Europe B.V. bears no responsibility for improper mounting or any mounting that results in accident or injury.

4.3

Turn on TV

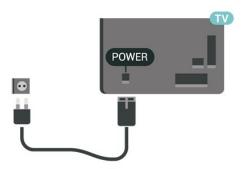
Connect Power Cable

• Insert the power cable into the **POWER** connector on the back of the TV.

• Make sure the power cable is securely inserted in the connector.

• Make sure that the power plug, in the wall socket, is accessible at all times.

• When you unplug the power cable, always pull the plug, never pull the cable.



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

On or Standby

Before you switch on the TV, make sure you plugged in the mains power in the **POWER** connector on the back of the TV.

Switch On

• Press the small joystick key on the back of the TV.



Switch to standby

To switch the TV to standby, press **(**) on the remote control. You can also press the small joystick key on the back of the TV.

In standby mode, the TV is still connected to the mains power but consumes very little energy.

To switch off the TV completely, disconnect the power plug.

When disconnecting the power plug, always pull the power plug, never the cord. Ensure that you have full access to the power plug, power cord and outlet socket at all times.

Connections

5.1 Connectivity guide

Always connect a device to the TV with the highest quality connection available. Also, use good quality cables to ensure a good transfer of picture and sound.

When you connect a device, the TV recognizes its type and gives each device a correct type name. You can change the type name if you wish. If a correct type name for a device is set, the TV automatically switches to the ideal TV settings when you switch to this device in the Sources menu.

5.2 Antenna

Insert the antenna plug firmly into the Antenna socket at the back of the TV.

You can connect your own antenna or an antenna signal from an antenna distribution system. Use an IEC Coax 75 Ohm RF antenna connector.

Use this antenna connection for DVB-T and DVB-C input signals.

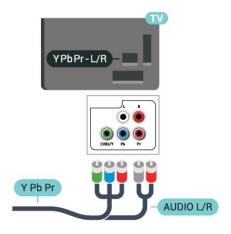
HDMI ports support HDCP (High-bandwidth Digital Content Protection). HDCP is a copy protection signal that prevents copying content from a DVD disc or Bluray Disc. Also referred to as DRM (Digital Rights Management).

Component

Y Pb Pr - Component Video is a high quality connection.

The YPbPr connection can be used for High Definition (HD) TV signals. Next to the Y, Pb and Pr signals add the Audio Left and Right signals for sound.

Match the YPbPr (green, blue, red) connector colours with the cable plugs when you connect. Use an Audio L/R cinch cable if your device also has sound.



5.3 Video Device

HDMI

An HDMI connection has the best picture and sound quality.

For best signal quality transfer, use a High speed HDMI cable and do not use an HDMI cable longer than 5 m, and also connect devices supporting HDR on HDMI 2/HDMI 3.

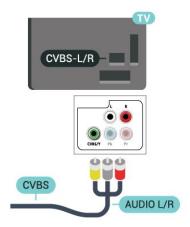


Copy protection

Composite

CVBS - Composite Video is a standard quality connection. Next to the CVBS signal adds the Audio Left and Right signals for sound.

- Y shares the same jack with CVBS.
- · Component and Composite share audio jacks.



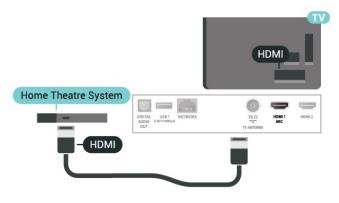
5

^{5.4} Audio Device

HDMI ARC

Only HDMI 1 on the TV have HDMI ARC (Audio Return Channel).

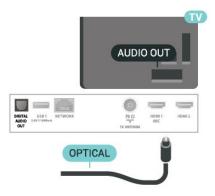
If the device, typically a Home Theatre System (HTS), also has the HDMI ARC connection, connect it to HDMI 1 connection on this TV. With the HDMI ARC connection, you do not need to connect the extra audio cable that sends the sound of the TV picture to the HTS. The HDMI ARC connection combines both signals.



Digital Audio Out - Optical

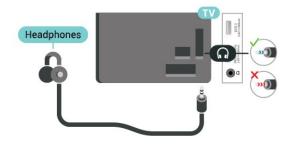
Audio Out - Optical is a high quality sound connection.

This optical connection can carry 5.1 audio channels. If your device, typically a Home Theatre System (HTS), has no HDMI ARC connection, you can use this connection with the Audio In – Optical connection on the HTS. The Audio Out – Optical connection sends the sound from the TV to the HTS.



Headphones

You can connect a set of headphones to the **(**) connection on the side of the TV. The connection is a mini-jack 3.5mm. You can adjust the volume of the headphones separately.



5.5 Mobile Device

Wi-Fi Direct / Miracast

About Wi-Fi Miracast

You can view your photos or play your music and videos from a mobile device on your TV with Wi-Fi Miracast[™]. The mobile device and the TV should be within range, which usually means being in the same room.

Check if your mobile device is ready for Miracast.

Your TV is a Wi-Fi CERTIFIED Miracast[™] device. With Miracast[™], you can watch and share the screen of your smartphone, tablet or computer on your TV screen wirelessly. You can stream videos (audio and video), share photos or anything else that's on screen of the device. No need to connect the device to your home network. Both the TV and the device must be Wi-Fi CERTIFIED Miracast[™] devices and have Miracast switched on.

Miracast on this TV is subject to the HDCP protocol and cannot display copy-protected premium content sent by a device. The maximum video resolution supported is 720p for 2.4GHz Wi-Fi or 1080p for 5GHz Wi-Fi.

For more information on Wi-Fi CERTIFIED Miracast™ go to <u>www.wi-fi.org</u>

Wi-Fi®, the Wi-Fi CERTIFIED logo, the Wi-Fi logo are registered trademarks of the Wi-Fi Alliance. Wi-Fi CERTIFIED Miracast[™], Miracast[™] are trademarks of the Wi-Fi Alliance.

Using Miracast

Switch on Miracast

Press SOURCES > Miracast

Share a Screen on TV

1 - Activate Miracast (Screen mirroring) on your mobile device.

2 - On your mobile device, select the TV. (This TV will be displayed as TV model name)

3 - Select the TV name on your mobile device, after connection, you can enjoy using Miracast.

Stop Sharing

You can stop sharing a screen from the TV or from the mobile device.

From the device

With the application you use to start Miracast, you can disconnect and stop watching the screen of the device on TV. The TV will switch back to the last selected programme.

From the TV

To stop watching the screen of the device on TV, you can . . .

• press 👿 EXIT to watch a TV broadcast

 \cdot press \clubsuit (Home) to start another activity on TV

• press SOURCES to open the Sources menu and select a connected device.

Reset Wi-Fi Miracast connections

All previously connected devices are stored in the Wi-Fi Miracast list of connections.

To clear all connected Miracast devices...

♠ (Home) > Settings > All settings > Network > Reset Wi-Fi Miracast connections.

Screen Delay

The normal delay when sharing a screen with Miracast is about 1 second. The delay might be longer if you are using older devices with less processing power.

MHL

This TV is MHL[™] compliant.

If your mobile device is also MHL compliant, you can connect your mobile device with a MHL cable to the TV. With the MHL cable connected you can share what's on your mobile device on the TV screen. Your mobile device charges its battery at the same time. The MHL connection is ideal for watching movies or playing games from your mobile device on TV for a longer time.

Charging

With the MHL cable connected, your device will charge while the TV is switched on (not in standby).

MHL Cable

You need a passive MHL cable (HDMI to Micro USB) to connect your mobile device to the TV. You might need an extra adapter to connect to your mobile device. To connect the MHL cable to the TV use the HDMI 3 MHL connection.



MHL, Mobile High-Definition Link and the MHL Logo are trademarks or registered trademarks of the MHL, LLC.

Apps - Philips TV Remote App

The new **Philips TV Remote App** on your smartphone or tablet is your new TV buddy.

With the TV Remote App, you master your media around you. Send photos, music or videos to your big TV screen. Look up what you want to watch on the TV Guide and watch it on your TV. With the TV Remote App you can use your phone as a remote control, TV can be switched on or off via your phone.

Download the Philips TV Remote App from your favourite app store today.

The Philips TV Remote App is available for iOS and Android and is free of charge.

^{5.6} Other Device

USB Flash Drive

You can view photos or play your music and videos from a connected USB flash drive. Insert a USB flash drive in one of the **USB** connections on the TV while the TV is switched on.

The TV detects the flash drive and opens a list showing its content.

If the contents list does not appear automatically, press SOURCES and select USB.



For more information on watching or playing content from a USB flash drive, in Help, press the colour key — Keywords and look up Photos, Videos and Music.

USB Hard Drive

Installation

If you connect a USB Hard Drive, you can pause or record a TV broadcast. The TV broadcast must be a digital broadcast (DVB broadcast or similar).

Before you can pause or record a broadcast, you must connect and format a USB Hard Drive. Formatting removes all files from the USB Hard Drive.

To Pause

To pause a broadcast, you need a USB compatible Hard Drive with a minimum of 4GB disk space.

To Record

To pause and record a broadcast, you need a minimum of 250GB disk space. If you want to record a broadcast with TV guide data from the Internet, you need to have the Internet connection installed on your TV before you install the USB Hard Drive.

1 - Connect the USB Hard Drive to one of the **USB** connections on the TV. Do not connect another USB device to the other USB ports when formatting.

- 2 Switch on the USB Hard Drive and the TV.
- 3 When the TV is tuned to a digital TV channel,

press II (Pause). Trying to pause will start the formatting.

Follow the instructions on screen.

When the USB Hard Drive is formatted, leave it connected permanently.

Warning

The USB Hard Drive is formatted exclusively for this TV, you cannot use the stored recordings on another TV or PC. Do not copy or change recording files on the USB Hard Drive with any PC application. This will corrupt your recordings. When you format another USB Hard Drive, the content on the former will be lost. A USB Hard Drive installed on your TV will need reformatting for use with a computer.

To read the instructions, in Help, press the colour key **— Keywords** and look up **USB Hard Drive**.

Formatting

Before you can pause or record a broadcast, you must connect and format a USB Hard Drive. Formatting removes all files from the USB Hard Drive. If you want to record broadcasts with TV Guide data from the Internet, you must setup the Internet connection first before you install the USB Hard Drive.

Warning

The USB Hard Drive is formatted exclusively for this TV, you cannot use the stored recordings on another TV or PC. Do not copy or change recording files on the USB Hard Drive with any PC application. This will corrupt your recordings. When you format another USB Hard Drive, the content on the former will be lost. A USB Hard Drive installed on your TV will need reformatting for use with a computer.

To format a USB Hard Drive...

1 - Connect the USB Hard Drive to one of the USB connections on the TV. Do not connect another USB device to the other USB ports when formatting.

2 - Switch on the USB Hard Drive and the TV.
3 - When the TV is tuned to a digital TV channel, press II (Pause). Trying to pause will start the formatting. Follow the instructions on screen.
4 - The TV will ask if you want to use the USB Hard Drive to store apps, agree to the question if you do.
5 - When the USB Hard Drive is formatted, leave it connected permanently.

⁶ Switch Source

^{6.1} Source List

To open the sources menu, press SOURCES.
 To switch to a connected device, select the device with the arrows > (Right) or < (Left) and press OK.
 To close the source menu without switching to a device, press SOURCES again.

6.2

Rename Device

• Only CVBS, YPbPr, HDMI sources can be renamed or replace device icon.

♠ (Home) > Settings > All settings > General settings > Input sources > Source > Edit

1 - Select one of the device icons and press OK, the preset name appears in the typing field.

2 - Press \land (up) to move to the typing field, press

OK, then enter new name using on-screen keyboard.

- Press (red) key to enter with lower-case
- Press (green) key to enter with upper-case

- Press — (yellow) key to enter number and symbol

- Press - (blue) key to delete a character

3 - Select Done when complete the editing.

. Channels

7.1

About Channels and Switch Channels

To watch TV channels

• Press IN. The TV tunes to the TV channel you last watched.

• Press **f** (Home) > TV > Channels and press OK.

• Press ≡+ or ≡ - to switch channels.

• If you know the channel number, type in the number with the number keys. Press **OK** after you entered the number to switch channels.

• To switch back to the previously tuned channel, press **& BACK** .

To switch to a channel from a channel list

• While watching a TV channel, press \equiv LIST to open the channel lists.

The channel list can have several pages with channels. To view the next or previous page, press ## + or ## -.

• To close the channel lists without switching channels, press \equiv LIST again.

Channel icons

After an Automatic channel update of the channel list, newly found channels are marked with a \bigstar (star). If you lock a channel, it will be marked with a \bigoplus (lock).

Radio channels

If digital broadcasting is available, digital radio stations are installed during installation. Switch to a radio channel just like you switch to a TV channel.

This TV can receive digital television standard DVB. TV may not work properly with some operators of digital television , non-compliance with requirements of the standard in full.

^{7.2} Install Channel

Antenna and Cable

Manually Search for Channels and Channel Settings

Search for Channels

Update channels

♠ (Home) > Settings > Install

Channels > Antenna/cable installlation > Search

for channels

1 - Select Start now and press OK.

2 - Select **Update channels** to only add new digital channels.

3 - Select **Start** and press **OK** to update channels. This can take a few minutes.

Quick reinstall

♠ (Home) > Settings > Install

Channels > Antenna/cable installlation > Search for channels

1 - Select Start now and press OK.

2 - Select **Quick reinstall** to install all channels again with default settings.

3 - Select **Start** and press **OK** to update channels. This can take a few minutes.

Advanced reinstall

♠ (Home) > Settings > Install

Channels > Antenna/cable installlation > Search for channels

1 - Select Start now and press OK.

2 - Select Advanced reinstall to do a full re-

installation which takes you through each step.

3 - Select **Start** and press **OK** to update channels. This can take a few minutes.

Channel Settings

♠ (Home) > Settings > Install

Channels > Antenna/cable installlation > Search for channels > Advanced reinstall

1 - Select Start now and press OK.

2 - Select Advanced reinstall to do a full re-

installation which takes you through each step.

3 - Select Start and press OK.

4 - Select the country where you are now and press **OK**.

5

- Select Antenna (DVB-T) or

Cable (DVB-C) , and select one item you need to re-install.

6 - Select Digital and analogue channels, Only digital channels, or Only analogue channels.

7 - Select Settings and press OK.

8 - Press — Reset to reset, or press — Done when complete the settings.

Frequency scan

Select the method of searching for channels.

• Quick: select the faster method and use the predefined settings used by most cable providers in your country.

• Full: If this results in having no channels installed or if some channels are missing, you can select the extended Full method. This method will take more time to search for and install channels. • Advanced: If you received a specific network frequency value to search for channels, select Advanced.

Frequency step size

The TV searches for channels in steps of **8MHz**. If this results in having no channels installed or if some channels are missing, you can search in smaller steps of **1MHz**. Using the 1MHz steps will take more time to search for and install channels.

Network frequency mode

If you intend to use the fast **Quick** method in **Frequency scan** to search for channels, select **Automatic**. The TV will use 1 of the predefined network frequencies (or HC – homing channel) as used by most cable providers in your country. If you received a specific network frequency value to search for channels, select **Manual**.

Network frequency

With the Network frequency mode set to Manual, you can enter the network frequency value received from your cable provider here. To enter the value, use the number keys.

Network ID

Enter the network ID supplied by your cable provider.

Symbol rate mode

If your cable provider did not give you a specific symbol rate value to install the TV channels, leave the Symbol rate mode setting on Automatic. If you received a specific symbol rate value, select Manual.

Symbol rate

With the **Symbol rate mode** set to **Manual**, you can enter the symbol rate value by using the number keys.

Automatically Search for Channels

♠ (Home) > Settings > Install

Channels > Antenna/cable installlation > Automatic channel update

If you receive digital channels, you can set the TV to automatically update the list with new channels.

Alternatively, you can start a channel update yourself.

Automatic channel update

Once a day, at 6 AM, the TV updates the channels and stores new channels. New channels are stored in the All channels list but also in the New channels list. Empty channels are removed.

If new channels are found or if channels are updated or removed, a message is shown at TV start up. The TV must be in standby to automatically update channels.

Channel Update Message

♠ (Home) > Settings > Install

Channels > Antenna/cable installlation > Channel update message

When new channels are found or if channels are updated or removed, a message is shown at TV start up. To avoid this message to appear after every channel update, you can switch it off.

Digital: Reception Test

♠ (Home) > Settings > Install Channels > Antenna/cable installation > Digital: reception test

The digital frequency is shown for this channel. If the reception is poor, you can reposition your antenna. To check the signal quality of this frequency again, select **Search** and press **OK**. To enter a specific digital frequency yourself, use the remote control digit keys. Alternatively, select the frequency, position the arrows on a number with \triangleleft and \rightarrow and change the number with \triangleleft and \checkmark . To check the frequency, select **Search** and press **OK**.

Analogue: Manual Installation

♠ (Home) > Settings > Install Channels > Antenna/cable installlation > Analogue: manual installation

Analogue TV channels can be manually installed, channel by channel.

System

To set up the TV system, select **System**. Select your country or the part of the world where you are now and press **OK**.

\cdot Search Channel

To find a channel, select **Search Channel** and press **OK**. You can enter a frequency yourself to find a channel or let the TV search for a channel. Press **OK**, select **Search** and press **OK** to search for a channel automatically. The found channel is shown on screen and if the reception is poor, press **Search** again. If you want to store the channel, select **Done** and press **OK**.

\cdot Fine tune

To fine tune a channel, select Fine tune and press OK. You can fine tune the channel with \checkmark or \checkmark . If you want to store the channel found, select Done and press OK.

\cdot Store

You can store the channel on the current channel number or as a new channel number. Select **Store** and press **OK**. The new channel number is shown briefly.

You can redo these steps until you have found all available analogue TV channels.

Channel List copy

Introduction

Channel list copy is intended for dealers and expert users.

With **Channel list copy**, you can copy the channels installed on one TV onto another Philips TV of the same range. With **Channel list copy**, you avoid the time-consuming channel search by uploading a predefined channel list on a TV. Use a USB flash drive of minimum 1 GB.

Conditions

• Both TVs are from the same year range.

• Both TVs have the same hardware type. Check the hardware type on the TV type plate on the back of the TV.

· Both TVs have compatible software versions.

Copy a Channel List, Check Channel List Version

Copy a channel list to USB flash drive

♠ (Home) > Settings > All settings > Channels
 > Expert mode settings > Channel list
 copy > Copy to USB

Check channel list version

♠ (Home) > Settings > All settings > Channels
 > Expert mode settings > Channel list
 copy > Current version

Upload a Channel List

To not Installed TVs

Depending on whether your TV is already installed or not, you must use a different method to upload a channel list.

To a TV that is not yet installed

1 - Plug in the power plug to start the installation and select language and country. You can skip the channel search. Finish the installation.

2 - Plug in the USB flash drive that holds the channel list of the other TV.

3 - To start the channel list upload,

press A (Home) > Settings > All settings > Channels > Expert mode settings > Channel List Copy > Copy to TV and press OK. Enter your PIN code if necessary. 4 - The TV notifies you if the channel list is copied to the TV successfully. Unplug the USB flash drive.

To Installed TVs

Depending on whether your TV is already installed or not, you must use a different method to upload a channel list.

To an already installed TV

1 - Verify the country setting of the TV. (To verify this setting, see chapter Re-install channels. Start this procedure until you reach the country setting.
Press ← BACK to cancel the installation.)
If the country is correct continue with step 2.
If the country is not correct, you need to start a reinstallation. See chapter Re-install channels and start the installation. Select the correct country and skip the channels search. Finish the installation. When done, continue with step 2.

2 - Plug in the USB flash drive that holds the channel list of the other TV.

3 - To start the channel list upload,

press 🕈 (Home) > Settings > All

settings > Channels > Expert mode

settings > Channel List Copy > Copy to TV and press OK. Enter your PIN code if necessary.

4 - The TV notifies you if the channel list is copied to the TV successfully. Unplug the USB flash drive.

Channel Options

Open Options

While watching a channel, you can set some options.

Depending on the type of channel you are watching or depending on the TV settings you made, some options are available.

To open the options menu...

- 1 While watching a channel, press 😅 OPTIONS.
- 2 Press 😅 OPTIONS again to close.

Subtitles

To switch on Subtitles, press SUBTITLE.

You can switch

subtitles **Subtitle on** or **Subtitle off**. Alternatively you can select **Automatic**.

Automatic

If language information is part of the digital broadcast

and the broadcasted programme is not in your language (the language set on TV), the TV can show subtitles automatically in one of your preferred subtitle languages. One of these subtitle languages must also be part of the broadcast.

You can select your preferred subtitle languages in **Subtitle language**.

Subtitles Language

If none of the preferred subtitle languages are available, you can select another subtitle language if available. If no subtitle languages are available, you cannot select this option.

To read more information, in Help, press the colour key **— Keywords** and look up **Subtitle Language**.

Audio Language

If none of the preferred audio languages are available, you can select another audio language if available. If no audio languages are available, you cannot select this option.

To read more information, in Help, press the colour key **— Keywords** and look up **Audio Language**.

Dual I-II

If an audio signal contains two audio languages but one language or both has no language indication, this option is available.

Mono / Stereo

You can switch the sound of an analogue channel to Mono or Stereo.

To switch to Mono or Stereo...

Tune to an analoge channel.

1 - Press **幸** OPTIONS, select Mono/Stereo and press **>** (right).

2 - Select Mono or Stereo and press OK.

3 - Press < (left) repeatedly if necessary, to close the menu.

Status

Select **Status** to view technical information on the channel or a connected device you are watching.

Universal Access

Only available when Universal access set to On.

♠ (Home) > Settings > All settings > Universal access > Universal access > On.

To read more information, in Help, press the colour key **— Keywords** and look up **Universal Access**.

Share

Enables the user to communicate his activity with his social networks (such as Twitter or email).

Video Selection

Digital TV channels can offer multi video signals (multifeed broadcast), different camera viewpoints or angles of the same event or different programmes on one TV channel. The TV shows a message if any such TV channels are available.

7.3 Channel List

Open Channel List

To open the current channel list...

- 1 Press w, to switch to TV.
- 2 Press \equiv LIST to open the current channel list.
- 3 Press **= OPTIONS** > **Select channel list**, and

select one channel list you want to watch.

4 - Press \blacksquare LIST again to close the channel list.

Channel List Options

Open Option Menu

To open the channel list option menu...

- Press w, to switch to TV.
- \cdot Press \equiv LIST to open the current channel list.
- \cdot Press rightarrow COPTIONS , and select one of options.
- \cdot Press \equiv LIST again to close the channel list.

Rename Channel

- 1 Press 👿, to switch to TV.
- 2 Press \blacksquare LIST to open the current channel list.
- 3 Select one channel you want to rename.

4 - Press **幸** OPTIONS > Rename channel, and press OK.

5 - In the typing field, press OK to open on-screen keyboard, or press ← BACK to hide the on-screen

keyboard.

6 - Use navigation keys to select a character, then press OK.

- Press (red) key to enter with lower-case
- Press (green) key to enter with upper-case
- Press (yellow) key to enter number and symbol
- Press 🛑 (blue) key to delete a character
- 7 Select Done when complete the editing.
- 8 Press 🚍 LIST again to close the channel list.

Select Channel Filter

■ LIST > 幸 OPTIONS > Digital/analogue

Select one of channel combinations showing in the channel list.

Create or Edit Favourites Channel List

■ LIST > 幸 OPTIONS > Create favourites list

Select a channel then press **OK** to add in a favourites channel list, once completed, press **— Done**.

 \equiv LIST > \equiv OPTIONS > Edit favourites

Select a channel then press **OK** to add in or remove from a favourites channel list, once completed, press **— Done**.

Select Channel Range

■ LIST > 幸 OPTIONS > Select channel range

Select a range of channels in a favourites channel list, once completed, press OK.

Select Channel List

≡ LIST > ≢ OPTIONS > Select channel list

Select a range of channels in a favourites channel list, once completed, press OK.

Search Channels

■ LIST > 幸 OPTIONS > Search channel

You can search for a channel to find it in a long list of channels.

- 1 Press 🕎, to switch to TV.
- 2 Press \blacksquare LIST to open the current channel list.
- 3 Press **幸** OPTIONS > Search channel, and press OK.

4 - In the typing field, press OK to open on-screen keyboard, or press + BACK to hide the on-screen

keyboard.

5 - Use navigation keys to select a character, then press **OK**.

- Press (red) key to enter with lower-case
- Press (green) key to enter with upper-case
- Press (yellow) key to enter number and symbol
- Press 🛑 (blue) key to delete a character
- 6 Select Done when complete the editing.
- 7 Press \blacksquare LIST again to close the channel list.

Lock or Unlock Channel

≡ LIST > ≢ OPTIONS > Lock channel, Unlock channel

To prevent children from watching a channel, you can lock a channel. To watch a locked channel, you must enter the 4 digit **Child Lock** PIN code first. You cannot lock programmes from connected devices.

The locked channel will have final next to the channel logo.

Remove Favourite List

■ LIST > 록 OPTIONS > Remove favourite list

To remove existing favourite list, select **Yes**.

7.4

Favourite Channels

About Favourite Channels

You can create a favourite channel list that only holds the channels you want to watch. With the Favourite channel list selected, you will only see your favourite channels when you switch through channels.

Create a Favourites List

1 - While watching a TV channel, press \equiv LIST to open the channel list.

2 - Select the channel, and press — Mark as favourites to mark as favourite.

3 - The selected channel is marked with a \blacklozenge .

4 - To finish, press \leftarrow BACK . The channels are added to the Favourites list.

Remove Channel from the Favourites List

To remove a channel from the favourites list, select the channel with ♥, then press — Unmark as favourite again to unmark as favourite.

Reorder Channels

You can reorder — reposition — channels in the Favourite channel list.

1 - While watching a TV channel,

press \equiv LIST > \equiv OPTIONS > Select channel list.

2 - Select Antenna favourite or Cable Favourite, and press OK.

3 - Select the channel to reorder and press OK.

4 - Press the Navigation buttons to move the highlighted channel to another location and press OK.

5 - Once completed, press OK.

Favourites List on TV Guide

You can link the TV Guide for your Favourite List.

1 - While watching a TV channel,

press \equiv LIST > \equiv OPTIONS > Select channel list.

2 - Select Antenna favourite or Cable Favourite, and press OK.

3 - Press III TV GUIDE to open it.

With the TV Guide you can view a list of the current and scheduled TV programmes of your favourite channels. Along with your favourite channels, the first 3 most used channels from the broadcasters' default list will be appended after your favourite channels for your preview. You need to add these channels into your favourite list to enable its operation (refer to "TV Guide" chapter).

On each page of TV Guide, there is a "Did you know" grid inserted on your favourite channel list. The "Did you know"-channel provides useful tips to improve the way you use your TV.

7.5 Text / Teletext

Subtitles from Text

If you tune to an analogue channel, you need to make the subtitles available for each channel manually.

1 - Switch to a channel and press **TEXT** to open Text.

2 - Enter the page number for subtitles, usually 888.

3 - Press TEXT again, to close Text.

If you select **On** in the Subtitle menu when watching this analogue channel, subtitles will be shown if available.

To know if a channel is analogue or digital, switch to the channel and press **1** INFO .

Text Pages

To open Text/Teletext press TEXT, while you are watching TV channels. To close Text, press TEXT again.

Select a Text page

To select a page . . .

- 1 Enter the page number with the number keys.
- 2 Use the arrow keys to navigate.

3 - Press a colour key to select a colour-coded subject at the bottom of the screen.

Text sub-pages

A Text page number can hold several subpages. The subpage numbers are shown on a bar next to the main page number.

To select a subpage, press \triangleleft or \rightarrow .

T.O.P. Text pages

Some broadcasters offer T.O.P. Text. To open T.O.P. Text pages within Text, press **幸 OPTIONS** and select **T.O.P. overview**.

* The teletext can only be reached when the channels are installed directly on the TV's internal tuner and the set is on TV mode. If a set-top box is being used, the teletext will be unavailable via TV. In that case, the set-top box's teletext can be used instead.

Text Options

In Text/Teletext, press rightarrow CPTIONS to select the following...

 \cdot Freeze page

To stop the automatic rotation of subpages.

- \cdot Dual screen / Full screen
- To show the TV channel and Text alongside each other.
- \cdot T.O.P. overview

To open T.O.P. Text.

• Enlarge

To enlarge the Text page for comfortable reading.

 \cdot Reveal

To unhide hidden information on a page.

 \cdot Cycle subpages

To cycle subpages when these are available.

Language

To switch the group of characters that Text uses to display correctly.

• Text 2.5

To activate the Text 2.5 for more colours and better graphics.

Text Setup

Text language

Some digital TV broadcasters have several Text languages available.

Set teletex preference language

♠ (Home) > Settings > All settings > Region and language > Language > Primary text, Secondary text

Text 2.5

If available, Text 2.5 offers more colours and better graphics. Text 2.5 is activated as a standard factory setting.

To switch off Text 2.5...

3 - Select Text 2.5 > Off.

4 - Press < (left) repeatedly if necessary, to close the menu.

[®] TV Guide

^{8.1} What You Need

With the TV guide you can view a list of the current and scheduled TV programmes of your channels. Depending on where the TV guide information (data) is coming from, analogue and digital channels or only digital channels are shown. Not all channels offer TV guide information.

The TV can collect TV guide information for the channels that are installed on the TV (e.g the channels you watch with Watch TV). The TV cannot collect the TV guide information for channels viewed from a digital receiver.

^{8.2} Using the TV Guide

Open the TV Guide

To open the TV guide, press 😅 TV GUIDE.

Press 🖼 TV GUIDE again to close.

The first time you open the TV Guide, the TV scans all TV channels for programme information. This may take several minutes. TV guide data is stored on TV.

Tune to a Programme

Switch to a programme

• From the TV guide, you can switch to a current programme.

• To select a programme, use the arrow keys to highlight the programme name.

• Navigate to the right to view programmes scheduled later that day.

• To switch to the programme (channel), select the programme and press OK.

View programme details

To call up the details of the selected programme, press \bigcirc INFO .

Change Day

If the TV guide information comes from the broadcaster, you can press **III** + to view the schedule of one of the next days. Press **III** - to go back to the previous day.

Alternatively, you can press **\$\$ OPTIONS** and select **Change day**.

Set a Reminder

You can set a reminder for a programme. A message will alert you at the start of the programme. You can tune to this channel immediately.

In the TV Guide a programme with a reminder is marked with a **で** (clock).

To set a reminder...

1 - Press 🖼 TV GUIDE and select an upcoming programme.

2 - Press - Set reminder and press OK.

To clear a reminder...

1 - Press I TV GUIDE and select a programme with the reminder, which is marked with a 𝔅 (clock). 2 - Press — Clear reminder, and select Yes, then press OK.

Search by Genre

If the information is available, you can look up scheduled programmes by genre like movies, sports, etc.

To search for programmes by genre,

press **CPTIONS** and select **Search by genre**. Select a genre and press **OK**. A list with the found programmes appears.

List of Reminders

You can view a list of the reminders you have set.

List of Reminders

To open the list of reminders...

- 1 Press 🖼 TV GUIDE.
- 2 Press **幸 OPTIONS** and select All reminders.

3 - In the list of reminders, select the reminder you want to remove, the selected reminder is marked as \checkmark .

4 - Press ← BACK , select Clear selected and press OK.

5 - Select **Close** to close the list of reminders.

Set a Recording

You can set a recording in the TV Guide.

In the TV Guide, a programme set to be recorded is marked with ${\ensuremath{\mathfrak{O}}}$.

To see the recording list, press — **Recordings** , a programme set to be recorded is marked with

a \bullet (red dot) on the front of the programme name.

To record a programme...

1 - Press **III** TV GUIDE and select a future or ongoing programme.

2 - Press the colour key - Record .

To cancel a recording...

1 - Press 🖼 TV GUIDE and select the programme set for recording.

2 - Press the colour key - Clear recording .

⁹ Recording and Pause TV

9.1

Recording

What You Need

You can record a digital TV broadcast and watch it later.

To record a TV programme you need...

 \cdot a connected USB Hard Drive formatted on this TV

 \cdot digital TV channels installed on this TV

• to receive channel information for the on screen TV Guide

• a reliable TV clock setting. If you reset the TV clock manually, recordings may fail.

You cannot record when you are using Pause TV.

In terms enforcement of copyright legislation, some DVB providers can apply different restriction by means of DRM (Digital Right Management) technology. In case of broadcasting protected channels, recording, record validity or number of views may be restricted. Recording may be completely prohibited. In case of trying to record a protected broadcasting or play back an expired recording, an error message can appear.

Record a Programme

Record Now

To record the programme you are watching right now, press • (Record) on the remote control. The recording will start immediately.

To stop the recording, press \blacksquare (Stop).

When TV Guide data is available, the programme you are watching will be recorded from the moment you pressed the recording key until the programme ends.

• If you receive TV guide information from the broadcaster, the recording starts immediately. You can adjust the end time of the recording in the list of recordings.

Schedule a Recording

You can schedule a recording of an upcoming programme for today or a few days from today (maximum of 8 days away). The TV will use the data from the TV Guide to start and end the recording. To record a programme...

1 - Press 🖼 TV GUIDE.

2 - On the TV guide, select the channel and programme you wish to record. Press \rightarrow (Right) or \checkmark (Left) to scroll through the programmes of a channel.

3 - With the programme highlighted, press the colour key — Record . The programme is scheduled for recording. A warning will show automatically when overlapping recordings are scheduled. If you plan to record a programme in your absence, remember to leave the TV switched to Standby and the USB Hard Drive switched on.

List of Recordings

You can view and manage your recordings in the list of recordings. Next to the list of recordings, there is a separate list for scheduled recordings and reminders.

To open the list or recordings...

Press 🖼 TV GUIDE.

- 1 Press the colour key Recordings .
- 2 In the list of recordings, select the

tabs New, Watched or Expired and press OK to filter your view.

3 - With a recording selected in the list, you can remove the recording with the colour

key — Remove . You can rename a recording with the colour key — Rename.

Broadcasters can limit the number of days a recording can be viewed. When this period expires, the recording will be marked as expired. A recording in the list can show the number of days before it expires.

When a scheduled recording was prevented by the broadcaster or when the broadcast was interrupted, a recording is marked as **Failed**.

Manual recording

You can schedule a recording that is not linked to a TV programme. You set the tuner type, channel and the start and end time yourself.

To schedule a recording manually...

- 1 Press 🖼 TV GUIDE.
- 2 Press the colour key Recordings .
- 3 At the top of the screen,
- select **O** Scheduled and press OK.
- 4 Press the colour key **Schedule** and press **OK**.
- 5 Select the tuner from where you want to record and press **OK**.
- 6 Select the channel to record from and press OK.
- 7 Select the day of the recording and press OK.
- 8 Set the start and end time of the recording. Select

a button and use the \land (up) or \checkmark (down) keys to set the hours and minutes.

9 - Select **Schedule** and press **OK** to schedule the manual recording.

The recording will appear in the list of scheduled recordings and reminders.

Watch a Recording

To watch a recording...

- 1 Press 🖼 TV GUIDE.
- 2 Press the colour key Recordings .

3 - In the list of recordings, select the recording you need and press **OK** to start watching.

4 - You can use the

keys II (pause), ▶ (play), ◄ (rewind), ▶ (fast forward) or ■ (stop).

5 - To switch back to watch TV, press 👿 EXIT.

9.2 Pause TV

What You Need

To pause a TV programme you need...

- \cdot a connected USB Hard Drive formatted on this TV
- \cdot digital TV channels installed on this TV

 $\boldsymbol{\cdot}$ to receive channel information for the on screen TV guide

With the USB Hard Drive connected and formatted, the TV continuously stores the TV broadcast you are watching. When you switch to another channel, the broadcast of the former channel is cleared. Also when you switch the TV to standby the broadcast is cleared.

You cannot use Pause TV when you are recording.

Pause a Programme

To pause and resume a broadcast...

• To pause a broadcast, press II (Pause). A progress bar at the bottom of the screen appears briefly.

- \cdot To call up the progress bar, press ~ II (Pause) again.
- To resume watching, press \blacktriangleright (Play).

To switch back to the actual TV broadcast, press \blacksquare (Stop).

Replay

Since the TV stores the broadcast you are watching, you can mostly replay the broadcast for a few seconds.

To replay a current broadcast...

- 1 Press II (Pause)
- 2 Press \land (Rewind). You can

press *I* repeatedly to select from where you want to start viewing the paused broadcast. Press these keys repeatedly to change speed. At one point you will reach the start of the broadcast storage or the maximum time span.

- 3 Press \blacktriangleright (Play) to watch the broadcast again.
- 4 Press (Stop) to watch the broadcast live.

¹⁰ Videos, Photos and Music

10.1

From a USB Connection

You can view your photos or play your music and videos from a connected USB flash drive or USB Hard Drive.

With the TV switched on, plug in a USB flash drive or a USB Hard Drive to one of the USB connections.

Press SOURCES, then select **USB**, you can browse your files in folder structure you have organised on the USB Hard Drive.

Warning

If you try to pause or record a programme with a USB Hard Drive connected, the TV will ask you to format the USB Hard Drive. This formatting will delete all current files on the USB Hard Drive.

^{10.2} Photos

View Photos

1 - Press I SOURCES, select ■ USB and press OK.

2 - Select **■** USB Flash Drive and press **>** (right) to select the USB device you need.

3 - Select Photo, you can press — Sort to browse your photos by date, month, year or alphabetically by name.

4 - Select one of photos, and press **OK** to view the selected photo.

• To view photos, select **Photos** in the menu bar, select a photo thumbnail and press **OK**.

• If there are several photos in the same folder, select a photo and press — Slide show to start a slide show of all photos in this folder.

Watch a photo and press
 INFO to show below:

 Progress bar, Playback control bar,
 (Jump to the previous photo in a folder),
 (Jump to the next photo in a folder),

 (Start slideshow playback),
 II (Pause the playback),

 (Start slideshow),
 (Rotate photo)

Photo Options

With a photo on screen, press 😅 OPTIONS to...

List/Thumbnails View photos with list view or thumbnails view.

Shuffle off, Shuffle on View the pictures in sequential order, or at random.

Repeat, Play once View the pictures repeatedly or once only.

Slideshow speed Set the speed of the slideshow.

Solution Set the transition from one picture to the next.

10.3

Videos

Play Videos

To play a video on TV...

Select IN Videos , and select the file name and press OK.

• To pause the video, press OK. Press OK again to continue.

• To rewind or go fast forward, press → or ← Press the keys several times to speed up - 2x, 4x, 8x, 16x, 32x.

• To jump to the next video in a folder, press OK to pause and select ► on screen and press OK.

• To stop the video playback, press \blacksquare (Stop).

 \cdot To go back to the folder, press \blacklozenge .

Open video folder

1 - Press **➡** SOURCES, select **■** USB and press OK.

2 - Select **■** USB Flash Drive and press **>** (right) to select the USB device you need.

3 - Select Videos and select one of video, you can press OK to play the selected video.

• Select a video and press **1** INFO to show file information.

• Playback a video and press **()** INFO to show below:

Progress bar, Playback control bar, I (Jump to the previous video in a folder), I (Jump to the next video in a

Video Options

During the video playback, press 😅 OPTIONS to...

Subtitles

Display the subtitles if available, select **On**, **Off**, or **On during mute**.

Charater set Select one of system for charater.

Audio language Play the audio language if available.

Status

Display file information, like sound mode.

Repeat, Play once Play videos repeatedly or once.

^{10.4} Music

Play Music

Open music folder

1 - Press ➤ SOURCES, select ● USB and press OK.
2 - Select ● USB Flash Drive and press > (right) to select the USB device you need.
3 - Select Music and select one of music, you can press OK to play the selected music.
Select a music and press ● INFO to show file information.
Playback a music and press ● INFO to show below:
Progress bar, Playback control bar, I (Jump to the previous music in a folder), > (Jump to the next music in a folder), > (Playback), < (Rewind), > (Fast forward), II (Pause the playback),

Music Options

one)

Options for playing music...

Repeat, Play once Play songs repeatedly or once.

Open TV Setting Menus

11.1

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Home Menu Overview

Press \clubsuit (Home) to select one of below menus, then press OK.

Sources

This row contains available sources in this TV.

Watch TV

This row contains TV functions which are available for user.

Apps

This row contains number of apps pre-installed.

Search

This row contains an interface to perform the search within this TV.

Settings

This row contains settings which are available for user.

You can reorder the icons on **Home** menus. To reposition icons, press **OK**. Alternatively, you can select the icon you want to reorder, and hold the OK key for 3 seconds until the arrows appear around the icon. Use navigation keys to move the highlighted icon to another location, then press OK. Press the BACK key to exit.

Frequent settings and All settings

Settings menu:

Press SETUP key on the remote control to find frequent settings.

 How to - Instructions on how to install channels, sort channels, update TV software, connect external devices and use Smart functions on your TV.
 Install channels - Update channels or start a

complete new channel installation.

• Picture style - Select one of preset picture styles for ideal picture viewing.

• Picture format - Select one of preset picture format which fits the screen.

Sound style - Select one of preset sound styles for

ideal sound settings.

• Audio out - Set the TV to play the sound on TV or on the connected audio system.

• Ambilight style* - Select one of preset Ambilight styles.

• Ambilight+hue* - Switch Ambilight+hue on or off.

• Sleep timer - Set the TV to switch to standby automatically after a preset time.

• Screen off – If you only listen to music on TV, you can switch off the TV screen.

· All settings - View all settings menu.

• Help - Diagnose and get more information about your TV. For more information, in Help, press the colour key — Keywords and look up Help Menu for more information.

All settings menu:

Press **†** (home) key on the remote control, select **Settings** > **All settings**, and press **OK**.

* Ambilight setting is only for models which support Ambilight function.

^{11.3} All Settings

Picture Settings

Picture Style

Select a style

For easy picture adjustment, you can select a preset picture style.

♠ (Home) > Settings > Picture style, press OK to change to next available option.

The available Picture styles are ...

• **Personal** – The picture preferences you set during the first start up

- \cdot Vivid Ideal for daylight viewing
- \cdot Natural Natural picture settings
- \cdot Standard Most energy conscious setting
- \cdot Movie Ideal for watching movies
- \cdot Game Ideal for gaming*
- \cdot Monitor Ideal for computer monitor

* Picture style - Game is not available for some video sources.

Custom a style

You can adjust and stored picture settings in in the currently selected picture style, like **Colour**, **Contrast** or **Sharpness**.

Restore a style

Connect HDMI devices supportings HDR on HDMI 2/HDMI 3.

The styles for HDR content are...

- \cdot HDR Personal
- HDR Vivid
- \cdot HDR Natural
- HDR Movie
- HDR Game

Colour, Contrast, Sharpness, Brightness

Adjust the picture colour

♠ (Home) > Settings > All settings > Picture > Colour

Press the arrows \land (up) or \checkmark (down) to adjust the colour saturation value of the picture.

Adjust the picture contrast

♠ (Home) > Settings > All settings > Picture > Contrast

Press the arrows \land (up) or \checkmark (down) to adjust the contrast value of the picture.

You can decrease contrast value to reduce power consumption.

Adjust the picture sharpness

♠ (Home) > Settings > All settings > Picture > Sharpness

Press the arrows \land (up) or \checkmark (down) to adjust the sharpness value of the picture.

Adjust the picture brightness

♠ (Home) > Settings > All settings > Picture > Brightness

Press the arrows \land (up) or \checkmark (down) to set the level of brightness of the picture signal.

Note: Setting of brightness much away from reference value (50) may result lower contrast.

Expert mode picture settings

Colour Settings

♠ (Home) > Settings > All settings > Picture > Expert mode settings

Adjust the tint seting

♠ (Home) > Settings > All settings > Picture > Expert mode settings > Tint

Press the arrows \land (up) or \checkmark (down) to adjust the value of tint setting.

Adjust the colour enhancement

♠ (Home) > Settings > All settings > Picture > Expert mode settings > Colour enhancement

Select Maximum, Medium, or Minimum to set the level of the colour intensity and the details in bright colours.

Select the preset colour temperature

♠ (Home) > Settings > All settings > Picture > Expert mode settings > Colour temperature

Select Normal, Warm, or Cool to set the colour temperature for your preference.

Customise colour temperature

♠ (Home) > Settings > All settings > Picture > Expert mode settings > Colour temperature > Custom colour temperature

Select Custom in Colour temperature menu to customise a colour temperature yourself. Press the arrows \land (up) or \checkmark (down) to adjust the value.

Contrast Settings

Contrast Modes

♠ (Home) > Settings > All settings > Picture > Expert mode settings > Contrast mode

Select Normal, Optimized for picture, Optimized for energy saving to set the TV automatically reduces the contrast, for best power consumption or for best picture experience, or select Off to switch off the adjustment.

HDR Plus

♠ (Home) > Settings > All

settings > Picture > Expert mode settings > HDR Plus

Set HDR Plus to Off, Minimum, Medium, Maximum to set the level at which the TV automatically shows superior contrast and brightness effect for HDR content.

Note: Available when HDR (High-Dynamic Range) signal is detected.

• The TV can play HDR programmes* from HDMI 2/HDMI 3 connections, broadcasting, from an Internet source (e.g. Netflix) or from a connected USB memory device.

* Only HDR10 and Hybrid Log Gamma HDR are supported

Dynamic Contrast

♠ (Home) > Settings > All settings > Picture > Expert mode settings > Dynamic contrast

Select Maximum, Medium, or Minimum to set the level at which the TV automatically enhances the details in the dark, middle and light areas of the picture.

Video Contrast, Gamma

Video contrast

♠ (Home) > Settings > All settings > Picture > Expert mode settings > Video contrast

Press the arrows \land (up) or \checkmark (down) to adjust the video contrast level.

Gamma

♠ (Home) > Settings > All settings > Picture > Expert mode settings > Gamma

Press the arrows \land (up) or \checkmark (down) to set a nonlinear setting for picture luminance and contrast.

Ultra resolution

♠ (Home) > Settings > All

settings > Picture > Expert mode settings > Ultra resolution

Select **On** to have a superior sharpness in line

edges and details.

Picture Clean

Noise reduction

♠ (Home) > Settings > All settings > Picture > Expert mode settings > Noise reduction

Select Maximum, Medium, Minimum to set the level for removing the noise in video content. Noise is mostly visible as small moving dots in on-screen picture.

MPEG Artefact Reduction

♠ (Home) > Settings > All settings > Picture > Expert mode settings > MPEG Artefact Reduction

Select Maximum, Medium, Minimum to have different degress of smoothing the artefects in digital video content.

MPEG artefacts are mostly visible as small blocks or jagged edges in on-screen images.

Motion Settings

Motion Styles

♠ (Home) > Settings > All settings > Picture > Expert mode settings > Motion Styles

Motion styles provides optimised motion setting modes for different video content.

Select Off to switch off or select one of the motion styles to have better viewing experience. (Movie, Sports, Standard, Smooth or Personal)

Not available for below cases:

• Network/Internet streaming Ultra HD 50Hz/60Hz videos.

Natural Motion

♠ (Home) > Settings > All settings > Picture > Expert mode settings > Natural Motion

Natural Motion makes any movement smooth and fluent.

• Select Maximum, Medium, Minimum to have different degress for reducing the motion judder, visible in movies on TV.

• Select Minimum or Off when noise appears in playing moving picture on-screen.

Picture Format

♠ (Home) > Settings > All settings > Picture > Picture format

If the picture is not filling the whole screen, if black bars are showing on the top or bottom or at both sides, you can adjust the picture to fill the screen completely.

To select one of the basic settings to fill the screen...

• Wide screen – automatically zooms in the picture to wide screen.

• Fill screen – automatically enlarges the picture to fill the screen. Picture distortion is minimal, subtitles remain visible. Not suitable for PC input. Some extreme picture formats can still show black bars.

• Fit to screen – automatically zooms in the picture to fill the screen without distortion. Black bars may be visible. Not supported for PC input.

• Original – shows the original format of the incoming picture.

♠ (Home) > Settings > All settings > Picture > Picture format > Advanced

To format the picture manually...

• Shift – select on the arrows to shift the picture. You can only shift the picture when it is zoomed in.

- Zoom select on the arrows to zoom in.
- Stretch select on the arrows to stretch the picture vertically or horizontally.

• Undo – select to return to the picture format you started with.

Quick Picture Settings

♠ (Home) > Settings > All settings > Picture > Quick picture settings

• During the first installation, you did some picture settings in a few easy steps. You can redo these steps with **Quick picture settings** menu.

• Select the picture setting you prefer and go to the next setting.

• To do these steps, make sure the TV can tune to a TV channel or can show a programme from a connected device.

Sound Settings

Sound Style

Select a style

For easy sound adjustment, you can select a preset sound style.

♠ (Home) > Settings > All settings > Sound > Sound style

The available sound styles are ...

- \cdot Original Most neutral sound setting
- Movie Ideal for watching movies
- \cdot Music Ideal for listening to music
- Game Ideal for gaming
- News Ideal for speech

• Expert mode – Select to check more advanced sound settings

Custom a style

You can adjust and stored sound settings in the currently selected sound style.

Restore a style

To restore the style to its original setting, select back to **Sound style**, then press **— Restore style**.

Expert mode sound settings

Dynamic surround

♠ (Home) > Settings > All settings > Sound > Expert mode settings > Dynamic surround

Set the surround sound effect level for the internal TV speakers.

Clear dialogue

♠ (Home) > Settings > All settings > Sound > Expert mode settings > Clear dialogue

Select On to improve the sound for speech. Ideal for news programmes.

Equalizer

♠ (Home) > Settings > All settings > Sound > Expert mode settings > Equalizer

Press the arrows \land (up) or \checkmark (down) to adjust the equalizer settings.

TV Placement

♠ (Home) > Settings > All settings > Sound > TV placement

Select **On a TV stand** or **On the wall** to have best sound reproduction according to the setting.

Advanced sound settings

Volume Control

Auto volume

♠ (Home) > Settings > All settings > Sound > Advanced > Auto volume

Select **AVL** to automatically level out sudden volume differences. Typically when you are switching channels. Select **Night mode** for a more comfortable quiet listening experience.

Delta volume

♠ (Home) > Settings > All settings > Sound > Advanced > Delta volume

Press the arrows \land (up) or \checkmark (down) to adjust the delta value for TV speaker volume.

* Note: Delta volume is available when the input source is set to HDMI or Analogue sources and the Audio out is set to **TV speakers** or **HDMI sound system**.

Audio Out Settings

♠ (Home) > Settings > All settings > Sound > Advanced > Audio out

Set the TV to play the sound on TV or on the connected audio system.

You can select where you want to hear the TV sound and how you want to control it.

• If you select **TV speakers off**, you permanently switch off the TV speakers.

• If you select **TV speakers**, the TV speakers are always on.

With an audio device connected with HDMI CEC, select **HDMI sound system**. The TV will switch off the TV speakers when the device is playing the sound.

Digital Output Settings

Digital output settings are available for SPDIF output (optical) and HDMI ARC sound signals.

Digital out fomat

♠ (Home) > Settings > All		
settings > So	ound > Advanced >	Digital out format

Set the audio out signal of the TV to fit the sound capabilities of the connected Home Theatre System.

• Stereo: If your audio playback devices have no multichannel sound processing, select to only output stereo content to your audio playback devices.

• Multichannel: Select to only output 5.1 audio content (compressed multichannel sound signal) to your audio playback devices.

• Dolby Digital Plus: Select to output Dolby Digital Plus or DTS content to your audio playback devices or Home theatre system.

- Make sure your audio playback devices support Dolby Atmos feature.

- SPDIF output (DIGITAL AUDIO OUT) will be disabled when streaming Dolby Digital Plus content.

Digital out levelling

♠ (Home) > Settings > All settings > Sound > Advanced > Digital out levelling

Adjust the loudness level from device which is connected to digital audio output (SPDIF) or HDMI.

- Select More to have louder volume.
- Select Less to have softer volume.

Digital out delay

♠ (Home) > Settings > All settings > Sound > Advanced > Digital out delay

For some Home Theatre Systems you might need to adjust the audio sync delay to synchronise the audio to the video. Select **Off** if a sound delay is set on your Home Theatre System.

Digital out offset (Only available when Digital out delay set to On)

♠ (Home) > Settings > All settings > Sound > Advanced > Digital out offset

If you cannot set a delay on the Home Theatre System, you can set the TV to sync the sound.
You can set an offset that compensates for the time

necessary for the Home Theatre System to process the sound of the TV picture.

• You can set the value in steps of 5ms. Maximum

Channels

TV Guide

♠ (Home) > Settings > All Settings > Channels > TV guide

The TV Guide receives information (data) from broadcasters. In some regions and for some channels, TV Guide information might not be available. The TV can collect TV Guide information for the channels that are installed on the TV. The TV cannot collect the TV Guide information from channels viewed from a digital receiver or decoder.

• The TV comes with the information set to From the broadcaster.

General Settings

Connection Related Settings

Format USB Hard Drive

♠ (Home) > Settings > All settings > General settings > Format SB Hard Drive

You need to set up and format a USB Hard Drive before you record a channel.

USB Keyboard Settings

♠ (Home) > Settings > All settings > General settings > USB keyboard settings

To install the USB keyboard, switch on the TV and connect the USB keyboard to one of the USB connections on the TV. When the TV detects the keyboard for the first time, you can select your keyboard lay-out and test your selection.

Mouse Settings

♠ (Home) > Settings > All settings > General settings > Mouse settings

Adjust the motion speed of the USB mouse.

HDMI-CEC Connection - EasyLink

Connect HDMI CEC-compatible devices to your TV, you can operate them with the TV remote control. EasyLink HDMI CEC must be switched on on the TV and the connected device.



Switch on EasyLink

♠ (Home) > Settings > All settings > General settings > EasyLink > EasyLink > On

Operate HDMI CEC-compatible devices with TV remote control

♠ (Home) > Settings > All settings > General settings > EasyLink > EasyLink remote control > On

Note:

- EasyLink might not work with devices from other brands.

- The HDMI CEC functionality has different names on different brands. Some examples are: Anynet, Aquos Link, Bravia Theatre Sync, Kuro Link, Simplink and Viera Link. Not all brands are fully compatible with EasyLink. Example HDMI CEC branding names are property of their respective owners.

HDMI Ultra HD

♠ (Home) > Settings > All settings > General settings > Input sources > HDMI 2/3 > HDMI Ultra HD

This TV can display Ultra HD signals. Some devices connected with HDMI - do not recognise a TV with Ultra HD and might not work correctly or show distorted picture or sound.

To avoid the malfunctioning of such a device, you can set the signal quality to a level the device can handle. If the device is not using Ultra HD signals, you can switch off Ultra HD for this HDMI connection.

• The setting **Optimal** allows maximum up to Ultra HD (50Hz or 60Hz) RGB 4:4:4 or YCbCr 4:4:4/4:2:2/4:2:0 signals.

• The setting **Standard** allows maximum up to Ultra HD (50Hz or 60Hz) YCbCr 4:2:0 signals.

- \cdot The setting Off is to watch videos with Full HD.
- * Available when Source is set to HDMI 2 or HDMI 3

Supported format for HDMI Ultra HD options:

- Resolution: 3840 x 2160
- Frame rate (Hz): 50Hz, 59.94Hz, 60Hz
- Video data sub-sampling (bit-depth)

- 8 bit: YCbCr 4:2:0, YCbCr 4:2:2*, YCbCr 4:4:4*, RGB 4:4:4*

- 10 bit: YCbCr 4:2:0*, YCbCr 4:2:2*
- 12 bit: YCbCr 4:2:0*, YCbCr 4:2:2*

* Supported only when HDMI Ultra HD is set to Optimal.

Eco Settings

Set energy saving level

♠ (Home) > Settings > All settings > General settings > Eco settings > Energy saving

Select Minimium, Medium, or Maximium to have different degress for energy saving, or select Off to switch off energy saving mode.

Set screen off to save energy consumption

♠ (Home) > Settings > All settings > General settings > Eco settings > Screen off

Select **Screen off**, the TV screen is switched off, to switch the TV screen back on, press any key on the remote control.

Set TV switch off timer

♠ (Home) > Settings > All settings > General settings > Eco settings > Switch off timer

Press the arrows \land (up) or \checkmark (down) to adjust the value. The value 0 (Off) deactivates the automatic switch off.

Select Switch off timer, the TV switches off automatically to save energy.

• TV switches off if receiving a TV signal but you don't press a key on the remote control during a 4 hour period.

• TV switches off if not receiving a TV signal nor a remote control command for 10 minutes.

• If you use the TV as a monitor or use a digital receiver to watch TV (a Set-Top Box - STB) and you do not use the remote control of the TV, you should deactivate this automatic switch off, to set the value to **0**.

• Select Shop, the picture style is switched back to Vivid, and can adjust shop settings.

• Shop mode is for in-store promotion.

Shop Setup

♠ (Home) > Settings > All settings > General settings > Shop setup

If the TV is set to **Shop**, you can view feature logos or set the availablility of a specific demo for in store use.

Adjust Picture and audio

♠ (Home) > Settings > All settings > General settings > Shop setup > Picture and audio

Select Optimized to shop or Custom settings for picture and audio settings.

Logos and banner

♠ (Home) > Settings > All settings > General settings > Shop setup > Logos and banner

Set to display Feature logos and Promotional banner.

Demo Me autostart

♠ (Home) > Settings > All settings > General settings > Shop setup > Demo Me autostart

Turn On/Off the Demo Me autostart.

Reset TV Settings and Reinstall TV

Reset all settings value to original TV settings

♠ (Home) > Settings > All settings > General settings > Factory settings

Redo full TV installation , and set TV status back to the first time you switch on

♠ (Home) > Settings > All settings > General settings > Reinstall TV

Enter PIN code and select **Yes**, the TV will reinstall completely. All settings will be reset and installed channels will be replaced. The installation can take a few minute

Location - Home or Shop

♠ (Home) > Settings > All settings > General settings > Location
 • Select the location of your TV

Region and Language Settings

Language

♠ (Home) > Settings > All settings > Region and language > Language

Change the language of the TV menu and messages

♠ (Home) > Settings > All settings > Region and language > Language > Menu language

Set audio preference language

♠ (Home) > Settings > All settings > Region and language > Language > Primary audio, Secondary audio

Digital TV channels can broadcast audio with several spoken languages for a programme. You can set a preferred primary and secondary audio language. If audio in one of these languages is available, the TV will switch to this audio.

Set subtitle preference language

♠ (Home) > Settings > All settings > Region and language > Language > Primary subtitle, Secondary subtitle

Digital channels can offer several subtitle languages for a programme. You can set a preferred primary and secondary subtitle language. If subtitles in one of these languages are available, the TV will show the subtitles you selected.

Set teletex preference language

♠ (Home) > Settings > All settings > Region and language > Language > Primary text, Secondary text

Some digital TV broadcasters have several Text languages available.

Clock

♠ (Home) > Settings > All settings > Region and language > Clock

Correct clock automatically

♠ (Home) > Settings > All settings > Region and language > Clock > Auto clock mode

• The standard setting for the TV clock is Automatic. The time information comes from the broadcasted UTC - Coordinated Universal Time information.

• If the clock is not correct, you can set the TV clock to **Country dependent**.

• When select Country dependent, you can set the time for Automatic, Standard time, or Daylight saving time.

Correct clock manually

♠ (Home) > Settings > All settings > Region and language > Clock > Auto clock mode > Manual

♠ (Home) > Settings > All settings > Region and language > Clock > Date, Time

Go to previous menu, and select **Date** and **Time** to adjust the value.

Note:

• If none of the automatic settings display the time correctly, you can set the time manually.

• If you schedule recordings from the TV Guide, we recommend not to change the time and date manually.

Set time zone or set a time offset for your region

♠ (Home) > Settings > All settings > Region and language > Clock > Time zone

Select one of the time zones.

Set the TV to switch to Standby automatically after a preset time

♠ (Home) > Settings > All settings > Region and language > Clock > Sleep timer.

Set the TV to switch to Standby automatically after a preset time. With the slider bar you can set the time to up to 180 minutes in increments of 5 minutes. If set to 0 minutes, the sleep timer is switched off. You can always switch off your TV earlier or reset the time during the countdown

Postal Code

♠ (Home) > Settings > All settings > Region and language > Postal code

The Early Warning System (EWS) is to warn the general public when the natural disasters are detected within the postal code area.

The TV will display the respective warning messages/alerts when triggered by the Broadcasters.

Note: This is for Indonesia only.

Universal Access Settings

♠ (Home) > Settings > All settings > Universal access

With **Universal Access** switched on, the TV is prepared for use for the deaf, hard of hearing, blind or partially sighted people.

Switch on universal access settings

♠ (Home) > Settings > All settings > Universal access > Universal access > On.

Universal access for hearing impaired people

♠ (Home) > Settings > All settings > Universal access > Hearing impaired > On

• Some digital TV channels broadcast special audio and subtitles adapted for the hard of hearing or deaf people.

• Switched on, the TV automatically switches to the adapted audio and subtitles, if available.

Universal access for blind or partially sighted people

♠ (Home) > Settings > All settings > Universal access > Audio description > Audio description > On

Digital TV channels can broadcast special audio commentary describing what is happening on screen.

♠ (Home) > Settings > All settings > Universal access > Audio description > Audio description > Mixed volume, Audio effects, Speech

Select Mixed volume, you can mix the volume of the normal audio with the audio commentary. Press the arrows (up) or (down) to adjust the value.
Set Audio effect to On for extra audio effects in the commentary audio, like stereo or fading sound.
Select Speech to set speech preference, Descriptive or Subtitles.

Lock Settings

Set Code and Change Code

♠ (Home) > Settings > All settings > Child lock > Set code, Change code

Set new code or reset change code. The child lock code is used to lock or unlock channels or programmes.

Note: If you forgot your PIN code, you can override

the current code use 8888 and enter a new code.

Lock for Programme

♠ (Home) > Settings > All settings > Child lock > Parental rating

Set a minumum age to watch rated programmes.

12 Network

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Home Network

To enjoy the full capabilities of your Philips Smart TV, vour TV must be connected to the Internet.

Connect the TV to a home network with a high-speed Internet connection. You can connect your TV wirelessly or wired to your network router.

12.2 Connect to Network

Wireless Connection

What You Need

To connect the TV to the Internet wirelessly, you need a Wi-Fi router with a connection to the Internet. Use a high-speed (broadband) connection to the Internet.



Turn Wi-Fi On or Off

(Home) > Settings > All settings > Network > Wi-Fi On/Off

Make the Connection

Make the Connection - Wireless

♠ (Home) > Settings > All settings > Network > Connect to network > Wireless

1 - In the list of found networks, select on your wireless network. If your network is not in the list because the network name is hidden (you switched off the SSID broadcast of the router), select Add New Network to enter the network name yourself. 2 - Depending on the type of router, enter your encryption key - WEP, WPA or WPA2. If you entered the encryption key for this network before, you can select **OK** to make the connection immediately. 3 - A message will be shown when the connection is successful.

Make the Connection - WPS

♠ (Home) > Settings > All settings > Network > Connect to network > WPS

If your router has WPS, you can directly connect to the router without scanning for networks. If you have devices in your wireless network that use the WEP security encryption system, you cannot use WPS.

1 - Go to the router, press the WPS button and return to the TV within 2 minutes.

2 - Select Connect to make the connection.

3 - A message will be shown when the connection is successful.

Make the Connection - WPS with PIN Code

\clubsuit (Home) > Settings > All settings > Network > Connect to network > WPS with PIN Code

If your router has WPS with a PIN code, you can directly connect to the router without scanning for networks. If you have devices in your wireless network that use the WEP security encryption system, you cannot use WPS.

1 - Write down the 8-digit PIN code shown on screen and enter it in the router software on your PC. Consult the router manual on where to enter the PIN code in the router software

2 - Select Connect to make the connection.

3 - A message will be shown when the connection is successful.

Wired Connection

What You Need

To connect the TV to the Internet, you need a network router with a connection to the Internet. Use a high-speed (broadband) connection to the Internet

Make the Connection

 \clubsuit (Home) > Settings > All settings > Network > Connect to network > Wired

1 - Connect the router to the TV with a network cable (Ethernet cable**).

2 - Make sure that the router is switched on.

3 - The TV constantly searches for the network connection.

4 - A message will be shown when the connection is successful

If the connection fails, you can check the DHCP setting of the router. DHCP should be switched on.

**To fulfill EMC regulations, use a shielded FTP Cat. 5E Ethernet cable.

^{12.3} Network Settings

View Network Settings

♠ (Home) > Settings > All settings > Network > View network settings

You can view all current network settings here. The IP and MAC address, signal strength, speed, encryption method, etc.

Network Configuration - Static IP

♠ (Home) > Settings > All settings > Network > Network Configuration > Static IP

If you are an advanced user and want to install your network with Static IP addressing, set the TV to **Static IP**.

Network Configuration - Static IP Configuration

♠ (Home) > Settings > All settings > Network > Static IP configuration

1 - Select Static IP configuration and configure the connection.

2 - You can set the number for IP Address, Netmask, Gateway, DNS 1, or DNS 2.

Switch On with Wi-Fi (WoWLAN)

♠ (Home) > Settings > All settings > Network > Switch On with Wi-Fi (WoWLAN)

You can switch this TV on from your smartphone or tablet if the TV is in Standby. The setting **Switch On with Wi-Fi (WoWLAN)** must be switched on.

Digital Media Renderer - DMR

♠ (Home) > Settings > All settings > Network > Digital Media Renderer -DMR

If your media files do not play on your TV, make sure that the Digitial Media Renderer is switched on. As a factory setting, DMR is switched on. ♠ (Home) > Settings > All settings > Network > Wi-Fi On/Off

You can switch on or off Wi-Fi connection on your TV.

Reset Wi-Fi Miracast connection

♠ (Home) > Settings > All settings > Network > Reset Wi-Fi Miracast connection

Clear the list of connected and blocked devices that are used with Miracast.

TV network name

♠ (Home) > Settings > All settings > Network > TV network name

If you have more than one TV in your home network, you can give the TV a unique name.

Netflix settings

♠ (Home) > Settings > All settings > Network > Netflix settings

With **Netflix settings**, you can view ESN number or deactive Netflix device.

Clear Internet Memory

♠ (Home) > Settings > All settings > Network > Clear Internet Memory

With Clear Internet Memory you clear your Philips server registration and parental rating settings, your video store app logins, all Philips App Gallery favourites, Internet bookmarks and history. Interactive MHEG applications can also save so-called 'cookies', on your TV. These files will also be cleared.

Switch on Wi-Fi connection

¹³ Smart TV

13.1

Setup Smart TV

The first time you open Smart TV, you need to configure your connection. Read and agree to the terms and conditions to continue.

The Smart TV start page is your link to the Internet. You can rent movies online, read newspapers, watch videos and listen to music, also shop online, or watch TV programmes when it suits you with On-line TV.

Open Smart TV

To open the Smart TV start page, press ♥ Smart TV . Alternatively, you can press ♠ (Home) > Apps, select ♥ Smart TV and press OK.

The TV connects to the Internet and opens the Smart TV start page. This may take a few seconds.

Close Smart TV

To close the Smart TV start page, press EXIT.

TP Vision Europe B.V. bears no responsibility regarding the content and the quality of the content provided by the content service providers.

13.2

Smart TV Start Page

Your Apps

You start Apps from the Smart TV start page.

Internet

The Internet App opens the World Wide Web on your TV.

On your TV, you can view any Internet website but most of them are not tailored for a TV screen.

- Some plug-ins (e.g. to view pages or videos) are not available on your TV.

- Internet pages are shown one page at a time and full screen.

^{13.3} App Gallery

Open the **App Gallery** in Smart TV to browse the Apps, the collection of tailored websites for TV.

Find the App for YouTube videos, a national newspaper, an online photo album, etc. There are Apps to rent a video from an online video store and Apps for watching programmes you missed. If the App gallery does not hold what you are looking for, try the World Wide Web and surf the Internet on TV.

Search

With Search, you can search the **App Gallery** for relevant Apps.

Enter a keyword in the text field, select $\[mu]$ and press OK to start searching. You can enter names, titles, genres and description keywords to search. Alternatively, you can leave the text field empty and search for the most popular searches/keywords for a range of categories. In the list of found keywords, select a keyword and press OK to search for items with that keyword.

Ambilight

14.1

Ambilight Style

♠ (Home) > Settings > All settings > Ambilight > Ambilight style

You can select the way Ambilight follows.

Follow Video

♠ (Home) > Settings > Ambilight > Ambilight style > Follow video

Select one of the styles that follow the dynamics of the picture on your TV screen.

- Standard Ideal for day to day TV watching
- Natural Follows the picture or sound as truthful as possible
- Football Ideal for football games
- Vivid Ideal for daylight conditions
- \cdot Game Ideal for gaming
- \cdot Comfort Ideal for a quiet evening
- Relax Ideal for a lounge feeling

Follow Audio

♠ (Home) > Settings > All

settings > Ambilight > Ambilight style > Follow audio

Select one of the styles that follow the dynamics of the sound.

- \cdot Lumina Mixes audio dynamics with video colours
- Colora Based on audio dynamics
- Retro Based on audio dynamics
- \cdot Spectrum Based on audio dynamics
- Scanner Based on audio dynamics
- Rhythm Based on audio dynamics

• **Party** – A mix of all Follow audio styles, one after the other

Follow Colour

♠ (Home) > Settings > All settings > Ambilight > Ambilight style > Follow colour

Select one of the preset colour styles.

- Hot lava Red colour variations
- Deep water Blue colour variations
- Fresh nature Green colour variations

Warm white - Warm white colour variations

· Cool white - Cool white colour variations

Follow Flag

♠ (Home) > Settings > All settings > Ambilight > Ambilight style > Follow flag

Select one of the preset flag styles.

Follow App

♠ (Home) > Settings > Ambilight > Ambilight style > Follow app

This function is available when you control Ambilight with an app.

14.2

Ambilight Brightness, Saturation

Brightness

♠ (Home) > Settings > All settings > Ambilight > Brightness

Press the arrows \land (up) or \checkmark (down) to set the level of Ambilight brightness.

Saturation

♠ (Home) > Settings > All settings > Ambilight > Saturation

Press the arrows \land (up) or \checkmark (down) to set the level of Ambilight saturation.

14.3

Lounge Light Mode

The lounge light mode of your TV allows you to switch on the Ambilight when the TV is in standby. So you can light up your room with Ambilight.

After you have switched your TV to standby and wish to switch on the Ambilight lounge light, follow these steps:

1 - Press 🕼 AMBILIGHT.

2 - After you have pressed the **(C)** AMBILIGHT, the Ambilight lounge light will be switched on.

3 - Press (AMBILIGHT again if you wish to change to a different light effect.

4 - To switch off the Ambilight lounge light, press
 Comparison AMBILIGHT until you see the lights are turned off.

You may need to press (AMBILIGHT a few times.

Ambilight+hue

Configure the Hue Bulbs

Step 1 - Network

♠ (Home) > Settings > All settings > Ambilight > Ambilight + hue > Configure the hue bulbs

In this first step, you will prepare the TV to find the **Philips Hue Bridge**. The TV and the Philips Hue Bridge must use the same network.

Setting up...

1 - Connect the Philips Hue Bridge to the power outlet.

2 - Connect the Philips Hue Bridge to the same router you are using for the TV — use an Ethernet cable to connect.

3 - Switch on the Hue bulbs.

To start the configuration...

1 - Press ♠ (Home) > Settings > All settings > Ambilight > Ambilight + hue > Configure the hue bulbs.

2 - Select **Start now** and press **OK**. The TV will search for the Philips Hue Bridge. If the TV is not yet connected to your network, the TV will start the network setup first. If the Philips Hue Bridge appears in the list.

For more info on connecting the TV to your home network, in Help, press the colour key — Keywords and look up Network Settings.

Step 2 - Hue Bridge

In the next step, you will link up the TV with the **Philips Hue Bridge**.

The TV can only be linked up to one Hue Bridge.

To link the Hue Bridge...

1 - With the TV connected to your home network, it will show the available Hue Bridges. If the TV did not find your Hue Bridge yet, you can select **Scan** again and press **OK**.

If the TV found the only Hue Bridge you have, select the Hue Bridge name and press **OK**.

If you have more than one Hue Bridge available, select the Hue Bridge you want to use and press OK. 2 - Select Start and press OK.

3 - Now go to the **Philips Hue Bridge** and press the link button in the middle of the device. This will link the Hue Bridge with the TV. Do this within 30 seconds. The TV will confirm if a Hue Bridge is now linked to the TV.

4 - Select OK and press OK.

With the Philips Hue bridge linked to the TV, go to page Hue bulbs.

Step 3 - Hue Bulbs

In the next step, you will select the **Philips Hue bulbs** that have to follow the Ambilight. You can select a maximum of 9 Philips Hue bulbs for Ambilight+hue.

To select the bulbs for Ambilight+hue...

1 - In the list, mark the bulbs that have to follow the Ambilight. To mark a bulb, select the bulb name and press **OK**. When you mark a bulb, the bulb will blink once.

2 - When you're done, select OK and press OK.

Step 4 - Configure Bulb

In the following step, you will configure each **Philips Hue bulb**.

To configure each Hue bulb...

1 - Select a bulb to configure and press **OK**. The bulb you selected is flashing.

2 - Select Start and press OK.

3 - First indicate where you placed the bulb relative to the TV. A correct setting of the **Angle** will send the correct Ambilight colour to the bulb. Select the slider bar to adjust the position.

4 - Secondly, indicate the **Distance** between the bulb and the TV. The further away from the TV, the weaker the Ambilight colour. Select the slider bar to adjust the distance.

5 - Finally, set the **Brightness** of the bulb. Select the slider bar to adjust the brightness.

6 - To stop configuring this bulb, select **OK** and press **OK**.

7 - In the **Configure Ambilight+hue** menu, you can do the same for each bulb.

8 - When all Ambilight+hue bulbs are configured, select **Finish** and press **OK**.

Ambilight+hue is ready for use.

Ambilight+hue Settings

♠ (Home) > Settings > All settings > Ambilight > Ambilight + hue > Switch off

Switch off Ambilight+hue

♠ (Home) > Settings > All settings > Ambilight > Ambilight + hue > Immersion Press the arrows \land (up) or \checkmark (down) to adjust how accurate the Hue bulbs follow the Ambilight.

♠ (Home) > Settings > All

settings > Ambilight > Ambilight + hue > Lounge
light+hue

If you installed Ambilight+hue, you can let the hue bulbs follow Lounge light from Ambilight. The Philips hue lamps will expand the Lounge light effect across the room.

♠ (Home) > Settings > All settings > Ambilight > Ambilight + hue > View configuration

View current setup of the Ambilight+hue, network, Bridge and bulbs.

♠ (Home) > Settings > All settings > Ambilight > Ambilight + hue > Reset configuration

Reset current setup of the Ambilight+hue.

Advanced Ambilight Settings

Wall colour

```
♠ (Home) > Settings > All
settings > Ambilight > Advanced > Wall colour
```

 \cdot Neutralise the influence of a coloured wall on the Ambilight colours

• Select the colour of the wall behind the TV and the TV will modify the Ambilight colours to appear as they are intended.

TV switch off

♠ (Home) > Settings > All settings > Ambilight > Advanced > TV switch off

Set Ambilight to switch off immediately or slowly fade out when you switch off the TV. The slow fade out gives you some time to switch on the lights in your living room.

¹⁵ Netflix

If you have a Netflix menbership subscription, you can enjoy Netflix on this TV. Your TV must be connected to the Internet.

To open Netflix, press **NETFLIX** to open the Netflix App. You can open Netflix immediately from a TV in standby.

www.netflix.com

¹⁶ Environmental

End of Use

Disposal of your old product and batteries

Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.



When this crossed-out wheeled bin symbol is attached to a product it means that the product is covered by the European Directive 2012/19/EU.



Please inform yourself about the local separate collection system for electrical and electronic products.

Please act according to your local rules and do not dispose of your old products with your normal household waste. Correct disposal of your old product helps to prevent potential negative consequences for the environment and human health.

Your product contains batteries covered by the European Directive 2006/66/EC, which cannot be disposed with normal household waste.



Please find out for yourself about the local rules on separate collection of batteries because correct disposal will help to prevent negative consequences for the environment and human health.

⁷⁷ Specifications

17.1

Power

Product specifications are subject to change without notice. For more specification details of this product, see www.philips.com/TVsupport

Power

- Mains power : AC 220-240V +/-10%
- Ambient temperature : 5°C to 35°C

Reception

- Aerial input : 75 ohm coaxial (IEC75)
- Tuner bands : Hyperband, S-Channel, UHF, VHF
- DVB : DVB-T2, DVB-C (cable) QAM
- Analogue video playback : SECAM, PAL
- Digital video playback : MPEG2 SD/HD (ISO/IEC
- 13818-2), MPEG4 SD/HD (ISO/IEC 14496-10)
- Digital audio playback (ISO/IEC 13818-3)

^{17.3} Display Resolution

Diagonal screen size

• 65PUT6703 : 164 cm / 65 inch

Display resolution

• 3840 x 2160

17.4

Supported Input Resolution -Video

Support Timing

Video support timing also includes field/frame rate 23.976Hz, 29.97Hz and 59.94Hz.

HDMI

- 480i 60Hz
- 480p 60Hz
- 576i 50Hz
- 576p 50Hz
- 720p 50Hz, 60Hz
- 1080i 50Hz, 60Hz
- 1080p 24Hz, 25Hz, 30Hz, 50Hz, 60Hz

- 3840 x 2160p 24Hz, 25Hz, 30Hz
- 3840 x 2160p 50Hz, 60Hz (HDMI 2, HDMI3)

HDMI - UHD

♠ (Home) > Settings > General settings > Input sources > HDMI 2/3 > HDMI Ultra HD

This TV can display Ultra HD signals. Some devices connected with HDMI - do not recognise a TV with Ultra HD and might not work correctly or show distorted picture or sound.

To avoid the malfunctioning of such a device, you can set the signal quality to a level the device can handle. If the device is not using Ultra HD signals, you can switch off Ultra HD for this HDMI connection.

• The setting **Optimal*** allows maximum up to Ultra HD (50Hz or 60Hz) RGB 4:4:4 or YCbCr 4:4:4/4:2:2/4:2:0 signals.

- The setting **Standard** allows maximum up to Ultra
- HD (50Hz or 60Hz) YCbCr 4:2:0 signals.
- The setting **Off** is to watch videos with Full HD.
- * Available when Source is set to HDMI 2 or HDMI 3

Component, Composite

Composite

• PAL, NTSC, SECAM

Component

- 480i
- •480p
- 576i
- 576p
- 720p 50Hz, 60Hz
- 1080i 50Hz, 60Hz
- 1080p 50Hz, 60Hz

17.5

Supported Input Resolution -Computer

- 640 x 480 60Hz, 72Hz, 75Hz, 85Hz
- 800 x 600 60Hz, 72Hz, 75Hz, 85Hz
- 1024 x 768 60Hz, 70Hz, 75Hz
- 1280 x 768 60Hz
- 1280 x 800 60Hz
- 1280 x 960 60Hz
- 1280 x 1024 60Hz
- 1360 x 768 60Hz
- 1366 x 768 60Hz
- 1440 x 900 60Hz
- 1680 x 1050 60Hz
- 1920 x 1080 60Hz

- 1920 x 1200 60Hz
- 3840 x 2160 60Hz

17.6 Sound

- Dynamic Surround
- Clear Dialogue
- Smart Sound
- 5 Band Equalizer
- Output power (RMS) : 20W
- Dolby® Audio
- · DTS-HD (M6)

^{17.7} Multimedia

Connections

- USB 2.0 / USB 3.0
- Ethernet LAN RJ-45
- Wi-Fi 802.11n (built-in)

Supported USB file systems

 \cdot FAT, NTFS

Playback formats

· Video Codec : AVI, MKV, HEVC, H.264/MPEG-4

- AVC, MPEG1, MPEG2, MPEG4, VP9
- $\boldsymbol{\cdot}$ Audio Codec : MP3, WAV, AAC, WMA (v2 up to
- v9.2), WMA-PRO (v9 and v10)
- Subtitles :
- Format: SRT, SMI, SSA, SUB, ASS, TXT
- Character encodings : UTF-8, Central Europe and
- Eastern Europe (Windows-1250), Cyrillic (Windows-1251), Greek (Windows-1253), Turkish
- (Windows-1254), Western Europe (Windows-1252)
- Image Codec : JPEG, GIF, PNG, BMP

Wi-Fi Certified

This TV supports Miracast certified devices.

Performance may vary, depending on the capabilities of the mobile device and the software used.

T7.8 Connectivity

TV Side

- USB 2 USB 2.0
- HDMI 3 in MHL UHD HDR
- Headphones Stereo mini-jack 3.5mm

TV Rear

- YPbPr : Y Pb Pr, Audio L/R
- \cdot CVBS : CVBS, Audio L/R (Shared with YPbPr)

TV Bottom

- Digital Audio out Optical
- USB 1 USB 3.0

- Network LAN RJ45
- Antenna (75 ohm)
- HDMI 1 in ARC UHD
- HDMI 2 in UHD HDR

[®] Troubleshooting

^{18.1} Tips

If you can't find a solution for your TV problem in **Troubleshooting**, you can use **— Keywords** in **Help > User manual** to find the information you are looking for. Select a keyword to go the most relevant page in the User manual.

If the User manual doen't answer your question, you can go to the support website of Philips.

To solve any Philips TV related problem, you can consult our online support. You can select your language and enter your product model number.

Go to <u>www.philips.com/TVsupport</u>.

On the support site you can find your country's telephone number to contact us as well as answers to frequently asked questions (FAQs). In some countries, you can chat with one of our collaborators and ask your question directly or send a question by email. You can download new TV software or the manual to read on your computer.

For more TV troubleshooting and frequently asked questions (FAQs)...

Go

to <u>http://philips-tvconsumercare.kxondemand.com/</u> <u>portal/en/ModelSelect</u>

TV Help on your tablet, smartphone or computer

To carry out extended sequences of instructions more easily, you can download the TV Help in PDF format to read on your smartphone, tablet or computer. Alternatively, you can print the relevant Help page from your computer.

To download the Help (user manual) go

to www.philips.com/TVsupport

^{18.2} Switch On

The TV does not switch on

• Disconnect the power cable from the power outlet. Wait for one minute then reconnect it. Make sure that the power cable is securely connected. Try switching on again.

• Connect the TV to another wall mains socket and try switching on.

• Disconnect all connected devices from the TV and try switching on.

• If the standby light on TV is on, the TV might not

respond to the remote control.

Creaking sound at startup or switch off

When you are turning the TV on or standby, you hear a creaking sound from the TV chassis. The creaking sound is due to the normal expansion and contraction of the TV as it cools and warms up. This does not affect performance.

The TV goes back to standby after showing the Philips startup screen

When the TV is in standby, a Philips startup screen is displayed, then the TV returns to standby mode. This is normal behaviour. When the TV is disconnected and reconnected to the power supply, the startup screen is displayed at the next startup. To switch on the TV from standby, press () (Standby / On) the remote control or the TV.

The standby light keeps on blinking

Disconnect the power cable from the power outlet. Wait 5 minutes before you reconnect the power cable. If the blinking reoccurs, contact Philips TV Consumer Care.

In Help > User manual, press the colour key — Keywords and look up Contact Info.

TV switches off by itself

If the TV switches off suddenly, the setting Switch off timer might be switched on. With Switch off timer the TV switches off after 4 hours if no remote control signals were received. To avoid this automatic switch off, you can deactivate this switch off. In Help > User manual, press the colour key — Keywords and look up Switch Off Timer. Also, if the TV does not receive a TV signal nor a remote control command for 10 minutes, the TV switches off automatically.

^{18.3} Remote Control

TV does not respond to the remote control

• The TV requires some time to start up. During this time, the TV does not respond to the remote control or TV controls. This is normal behaviour.

• The batteries of the remote control might be empty. Replace the batteries with new ones.

^{18.4} Channels

No digital channels found during the installation

 \cdot Check if the TV was connected with an antenna or is

using a provider signal. Check the cable connections.

 $\boldsymbol{\cdot}$ Check if the country where you install the TV, has

digital channels available.

• Check if you selected the correct DVB (Digital Video Broadcast) system.

 $\boldsymbol{\cdot}$ Redo the installation and check if you select the correct country.

No analogue channels found during the installation • Check if the TV was connected with an antenna. Check the cable connections.

• Check if you selected the correct DVB (Digital Video Broadcast) system. Select DVB-T (terrestrial) when you use an antenna or common antenna.

 Redo the installation and select Digital and analogue channels during the installation.
 Some channels disappeared, cannot find all or some

previously installed channels

• Check if you selected the correct **Channel** list or **Favourites list** you normally use.

• Some channels might be moved or even deleted by the broadcaster. In the normal channels list, try to search for the channel you're missing. If the channel is still available, you can put it back in the favourites list.

• A channel can be deleted from the channel list during Automatic channel update. These automatic updates are done overnight if the TV is on standby.

Channels that do not exist anymore are deleted and new channels will be added to the channel list. Exceptionally, a channel can be deleted because the TV could not find it while checking for its presence. It

might not broadcast at night. To avoid channels being deleted during

the Automatic channel update because the TV could not find them although these channels are still there, you can switch off Automatic channel update.

♠ (Home) > Settings > All Settings > Channels > Antenna/cable installlation > Automatic channel

update

DVB-T2 HEVC channel

• See the technical specifications to make sure that your TV supports DVB-T2 HEVC in your country and reinstall DVB-T channel.

18.5

Picture

No picture / distorted picture

Check if the TV is connected with an antenna or is using a provider signal. Check the cable connections.
Check if the correct source/input is selected in the sources menu. Press Sources and select the source/input you need.

• Check if the the external device or source is properly connected.

Check if the reception is poor.

 \cdot Check if the picture is set to a minimal value.

Select Picture style and select a style and press OK.

♠ (Home) > Settings > All

settings > Picture > Picture style

To check if the TV is broken, try to play a video clip.
 Press Settings > Help > Check the TV.
 If the video clip stays black, call Philips. Wait until the clip ends and select Contact info in the Help menu.
 Call the telephone number for your country.

Sound but no picture

• Change to other video sources and then change back to current source.

• Select Picture style and select a style and press OK.

♠ (Home) > Settings > All

settings > Picture > Picture style

• Restore picture style, select back to Picture style,

then press – Restore style.

• Reset all TV settings, go

to \clubsuit (Home) > Settings > All settings > General settings > Reinstall TV.

• Check the connections of the source/input devices. Poor reception

If the TV picture is distorted or variable in quality, the input signal might be poor. A weak digital signal is seen as a picture that is breaking up in square blocks and freezes occasionally. Much sooner than a bad analogue signal, a bad digital signal will fall away.

Check if the antenna cable is properly connected.

Large loudspeakers, unearthed audio devices, neon lights, high buildings and other large objects can influence reception quality when you are using an antenna. Try to improve the reception by changing the antenna direction or moving devices away from the TV. Bad weather might deteriorate the reception.
Check if all connections, to and from your devices, are properly connected.

• If reception on only one channel is poor, fine-tune this channel with **Analogue: manual installation**. (Only for analogue channels)

♠ (Home) > Settings > Install

Channels > Antenna/cable

installation > Analogue: manual installation

• Check if the incoming digital signal is sufficiently strong. While watching a digital channel,

press **CPTIONS** and select **Status** and press **OK**. Check the **Signal strenght** and **Signal quality**.

Poor picture from a device

• Make sure that the device is connected properly. Make sure that the device's output video setting is the highest possible resolution if applicable.

 $\boldsymbol{\cdot}$ Restore picture style or change to another picture style.

Picture settings change after a while

Make sure that **Location** is set to **Home**. You can change and save settings in this mode.

♠ (Home) > Settings > All settings > General settings > Location

A banner appears

If an on screen promotion banner appears occasionally or the **Picture style** automatically switches back to **Vivid** at startup, the TV is in **Shop** location. Set the TV to **Home** location for use at home.

♠ (Home) > Settings > All settings > General settings > Location

Picture does not fit the screen / Wrong or unstable

picture size / Picture position is incorrect

• If the picture size – its aspect ratio – does not fit the screen, with black bars on the top and bottom or left and right side of the screen, press Picture Format > Fill screen.

 \cdot If the picture size changes all the

time, press Picture Format > Fit to screen. • If the position of the picture is incorrect on the screen, try to check the signal resolution and output type of the connected device, press Picture Format > Original.

Computer picture is not stable

Make sure that your PC uses the supported resolution and refresh rate.

18.6 Sound

No sound or poor sound quality

• Check if the sound settings of the TV are OK, press the ◀୬) volume or ◀× mute key.

If you use a digital receiver (set-top box), check if the volume on this receiver is not set to zero or mute.
Check if the TV - the audio signal - is properly connected with the Home Theatre System, if you use such a system for the TV sound. Check if you connected the HDMI cable to an HDMI1 ARC connection on the Home Theatre System.
Make sure that the TV audio output is connected to

the audio input on the Home Theatre System. Sound should be heard from the HTS (Home Theatre System) speakers.

Sound with loud noise

If you watch a video from a plugged in USB flash drive or connected computer, the sound from your Home Theatre System might be distorted. This noise is heard when the audio or video file has DTS sound but the Home Theatre System has no DTS sound processing. You can fix this by setting the **Digital out format** of the TV to **Stereo**.

Press **†** (Home) > Settings > All

settings > Sound > Advanced > Digital out format

18.7 HDMI – UHD

HDMI

• Note that HDCP (High-bandwidth Digital Content Protection) support can delay the time taken for a TV to display content from an HDMI device.

• If the TV does not recognise the HDMI device and no picture is displayed, switch the source from one device to another and back again.

• This is an Ultra HD TV. Some older devices – connected with HDMI – do not recognise an Ultra HD TV electronically and might not work correctly or show distorted picture or sound. To avoid the malfunctioning of such a device, you can set the signal quality to a level the device can handle. If the device is not using Ultra HD signals, you can switch off Ultra HD for this HDMI connection.

If the picture and sound of a device connected with HDMI is distorted, check if a different HDMI Ultra HD setting can solve this problem. In Help > User manual, press the colour key — Keywords and look up HDMI Ultra HD.

• If there are intermittent sound disruptions, make sure that output settings from the HDMI device are correct.

HDMI EasyLink does not work

• Check if your HDMI devices are HDMI-CEC compatible. EasyLink features only work with devices that are HDMI-CEC compatible.

No volume icon shown

• When an HDMI-CEC audio device is connected and you use the TV Remote Control to adjust the volume level from the device, this behaviour is normal.

^{18.8} USB

Photos, videos and music from a USB device do not show

• Check if the USB storage device is set to Mass Storage Class compliant, as described in the storage device's documentation.

• Check if the USB storage device is compatible with the TV.

• Check if the audio and picture file formats are supported by the TV. For more information, in Help, press the colour key — Keywords and look up Multimedia.

Choppy playback of USB files

• The transfer performance of the USB storage device may limit the data transfer rate to the TV which causes poor playback.

Wi-Fi and Internet

Wi-Fi network not found or distorted

• Check if the firewalls in your network allow access to the TV's wireless connection.

• If the wireless network does not work properly in your home, try the wired network installation.

Internet does not work

• If the connection to the router is OK, check the router connection to the Internet.

The PC and Internet connection are slow

• Look in your wireless router's user manual for information on indoor range, transfer rate and other factors of signal quality.

• Use a high-speed (broadband) Internet connection for your router.

DHCP

• If the connection fails, you can check the DHCP (Dynamic Host Configuration Protocol) setting of the router. DHCP should be switched on.

Cannot connect to Philips Smart TV server

If the Internet connection is OK, but cannot connect to Philips Smart TV server, you can perform "Clear Internet Memory" via ↑ (Home) > Settings > All settings > Network > Clear Internet Memory and try to connect again.

18.10

Wrong Menu Language

Change the language back to your language.

1 - Press ♠ (Home), select Settings > Region and language > Languages > Menu language and press OK.

2 - Select on the language you need and press OK.

3 - Press 🗲 BACK to close the menu.

¹⁹ Safety and Care

^{19.1} Safety

Important

Read and understand all safety instructions before you use the TV. If damage is caused by failure to follow instructions, the warranty does not apply.

Risk of Electric Shock or Fire

• Never expose the TV to rain or water. Never place liquid containers, such as vases, near the TV.

If liquids are spilt on or into the TV, disconnect the TV from the power outlet immediately.

Contact Philips TV Consumer Care to have the TV checked before use.

• Never expose the TV, remote control or batteries to excessive heat. Never place them near burning candles, naked flames or other heat sources, including direct sunlight.

• Never insert objects into the ventilation slots or other openings on the TV.

• Never place heavy objects on the power cord.

• Avoid force coming onto power plugs. Loose power plugs can cause arcing or fire. Ensure that no strain is exerted on the power cord when you swivel the TV screen.

• To disconnect the TV from the mains power, the power plug of the TV must be disconnected. When disconnecting the power, always pull the power plug, never the cord. Ensure that you have full access to the power plug, power cord and outlet socket at all times.

Risk of Injury or Damage to the TV

• Two people are required to lift and carry a TV that weighs more than 25 kg or 55 lbs.

• If you mount the TV on a stand, only use the supplied stand. Secure the stand to the TV tightly. Place the TV on a flat, level surface that can support the weight of the TV and the stand.

• When wall mounted, ensure that the wall mount can safely bear the weight of the TV set. TP Vision bears no responsibility for improper wall mounting that results in accident, injury or damage.

• Parts of this product are made of glass. Handle with care to avoid injury or damage.

Risk of damage to the TV !

Before you connect the TV to the power outlet,

ensure that the power voltage matches the value printed on the back of the TV. Never connect the TV to the power outlet if the voltage is different.

Risk of Injury to Children

Follow these precautions to prevent the TV from toppling over and causing injury to children:

• Never place the TV on a surface covered by a cloth or other material that can be pulled away.

 \cdot Ensure that no part of the TV hangs over the edge of the mounting surface.

• Never place the TV on tall furniture, such as a bookcase, without anchoring both the furniture and TV to the wall or a suitable support.

• Teach children about the dangers of climbing on furniture to reach the TV.

Risk of swallowing batteries !

The remote control may contain coin-type batteries which can easily be swallowed by small children. Keep these batteries out of reach of children at all times.

Risk of Overheating

Never install the TV in a confined space. Always leave a space of at least 10 cm or 4 inches around the TV for ventilation. Ensure curtains or other objects never cover the ventilation slots on the TV.

Lightning Storms

Disconnect the TV from the power outlet and antenna before lightning storms.

During lightning storms, never touch any part of the TV, power cord or antenna cable.

Risk of Hearing Damage

Avoid using earphones or headphones at high volumes or for prolonged periods of time.

Low Temperatures

If the TV is transported in temperatures below 5°C or 41°F, unpack the TV and wait until the TV temperature reaches room temperature before connecting the TV to the power outlet.

Humidity

In rare occasions, depending on temperature and humidity, minor condensation can occur on the inside of the TV glass front (on some models). To prevent this, do not expose the TV to direct sunlight, heat or extreme humidity. If condensation occurs, it will disappear spontaneously while the TV is playing for a few hours.

The condensation moisture will not harm the TV or cause malfunction.

^{19.2} Screen Care

Clean

 $\boldsymbol{\cdot}$ Never touch, push, rub or strike the screen with any object.

• Unplug the TV before cleaning.

• Clean the TV and frame with a soft damp cloth and wipe gently. Never use substances such as alcohol, chemicals or household cleaners on the TV.

• To avoid deformations and colour fading, wipe off water drops as quickly as possible.

• Avoid stationary images as much as possible. Stationary images are images that remain onscreen for extended periods of time. Stationary images include onscreen menus, black bars, time displays, etc. If you must use stationary images, reduce screen contrast and brightness to avoid screen damage.

²⁰ Terms of Use

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The written material packaged with the TV and the manual stored in the memory of the TV or downloaded from the Philips website www.philips.com/TVsupport are believed to

be adequate for the intended use of the system.

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. TP Vision warrants that the material itself does not infringe any United States patents. No further warranty is expressed or implied. TP Vision cannot be held responsible neither for any errors in the content of this document nor for any problems as a result of the content in this document. Errors reported to Philips will be adapted and published on the Philips support website as soon as possible.

Terms of warranty - Risk of injury, damage to TV or void of warranty!

Never attempt to repair the TV yourself. Use the TV and accessories only as intended by the manufacturer. The caution sign printed on the back of the TV indicates risk of electric shock. Never remove the TV cover. Always contact Philips TV Customer Care for service or repairs. Find the telephone number in the printed documentation that came with the TV. Or consult our

website www.philips.com/TVsupport and select your country if needed. Any operation expressly prohibited in this manual, or any adjustments and assembly procedures not recommended or authorised in this manual, shall void the warranty.

Pixel characteristics

This TV 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. TP Vision is committed to developing, producing and marketing products that cause no adverse health effects. TP Vision confirms that, as long as its products are handled properly for their intended use, they are safe to use according to scientific evidence available today. TP Vision plays an active role in the development of safety standards, enabling TP Vision to anticipate further developments in standardisation for early integration in its products.

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DTS-HD® offers decoding of DTS content for up to 5.1 discrete channels with support for low bit rate and streaming media. It supports transcoding of content via digital output such as HDMI for playback on legacy products.



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22.1

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This offer is valid up to three years after product purchase to anyone in receipt of this information. To obtain the source code, please write in English to .

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Open Source

bash (3.2.48)

Bash is the shell, or command language interpreter, that will appear in the GNU operating system. Bash is an sh-compatible shell that incorporates useful features from the Korn shell (ksh) and C shell (csh).

It is intended to conform to the IEEE POSIX

P1003.2/ISO 9945.2 Shell and Tools standard. It offers functional improvements over sh for both programming and interactive use. In addition, most sh scripts can be run by Bash without modification. Source: http://www.gnu.org/software/bash/

c-ares (1.10.0)

c-ares is a C library that performs DNS requests and name resolves asynchronously. Source: http://c-ares.haxx.se/

coreutils (6.9)

The GNU Core Utilities are the basic file, shell and text manipulation utilities of the GNU operating system. These are the core utilities which are expected to exist on every operating system. Source: http://www.gnu.org/software/coreutils/

e2fsprogs (2.12.2)

e2fsprogs provides the filesystem utilities for use with the ext2 filesystem, it also supports the ext3 and ext4 filesystems.

This piece of software is made available under the terms and conditions of the e2fsprogs license, which can be found below.

Source: http://e2fsprogs.sourceforge.net/

Expat (2.01)

xml paser; Expat is an XML parser library written in C. It is a stream-oriented parser in which an application registers handlers for things the parser might find in the XML document (like start tags). An introductory article on using.

This piece of software is made available under the terms and conditions of the Expat license, which can be found below.

Source: http://expat.sourceforge.net/

DFB (4.2.31)

It is a software library for GNU/Linux/UNIX based operating system with a small memory footprint that provides graphics acceleration, input device handling and abstraction layer, and integrated windowing system with support for translucent windows and multiple display layers on top of the Linux framebuffer without requiring any kernel modifications

Source: http://sourceforge.net/projects/jointspace/fil es/remote_applications_SDK/remote_spplications_S DK_v1.3.1/DirectFB141_source_1.3.1.7z/download

SAWMAN

SaWMan, the Shared application and Window Manager, is a new window manager module for use with DirectFB.

Source: http://www.directfb.org/index.php?path=Mai n%2FDownloads&page=1

findutils (4.2.31)

The GNU Find Utilities are the basic directory searching utilities of the GNU operating system. These programs are typically used in conjunction with other programs to provide modular and powerful directory search and file locating capabilities to other commands.

Source: http://www.gnu.org/software/findutils/

Freetype (2.4.3)

FreeType is a software font engine that is designed to be small, efficient, highly customizable, and portable while capable of producing high-quality output (glyph images).

Source: http://freetype.sourceforge.net

fuse (2.8.4)

Fuse is a simple interface for userspace programs to export a virtual filesystem to the linux kernel. This piece of software is made available under the terms and conditions of the fuse license, which can be found below.

Source: http://fuse.sourceforge.net/

gawk (3.1.5)

If you are like many computer users, you would frequently like to make changes in various text files wherever certain patterns appear, or extract data from parts of certain lines while discarding the rest.

To write a program to do this in a language such as C or Pascal is a time-consuming inconvenience that may take many lines of code.

The job is easy with awk, especially the GNU implementation: gawk.

Source: http://www.gnu.org/software/gawk/

glibc (2.12.2)

Any Unix-like operating system needs a C library: the library which defines the "system calls" and other basic facilities such as open, malloc, printf, exit...The GNU C library is used as the C library in the GNU system and most systems with the Linux kernel This piece of software is made available under the terms and conditions of the glibc license, which can be found below.

Source: http://www.gnu.org/software/libc/

grep (2.5.1a)

The grep command searches one or more input files for lines containing a match to a specified pattern. By default, grep prints the matching lines. Source: http://www.gnu.org/software/grep/

gzip (1.3.12)

GNU Gzip is a popular data compression program originally written by Jean-loup Gailly for the GNU project. Mark Adler wrote the decompression part. Source: http://www.gnu.org/software/gzip/

inetutils (1.4.2)

Inetutils is a collection of common network programs.

Source: http://www.gnu.org/software/inetutils/

iptables (1.4.15) For Cross connection. Source: http://www.netfilter.org/projects/iptables/

iputils (s20101006)

The iputils package is set of small useful utilities for Linux networking. It was originally maintained by Alexey Kuznetsov. Source: http://www.skbuff.net/iputils/

Libcurl (7.30.0)

HTTP client;libcurl is a free and easy-to-use clientside URL transfer library, supporting FTP, FTPS, HTTP, HTTPS, SCP, SFTP, TFTP, TELNET, DICT, LDAP, LDAPS, FILE, IMAP, SMTP, POP3 and RTSP. libcurl supports SSL certificates, HTTP POST, HTTP PUT, FTP uploading, HTTP form based upload, proxies, cookies, user+password authentication (Basic, Digest, NTLM, Negotiate, Kerberos4), file transfer resume, http proxy tunneling and more!

This piece of software is made available under the terms and conditions of the Libcurl license, which can be found below.

Source: http://curl.haxx.se/

libiconv (1.11.1)

This library provides an iconv() implementation, for use on systems which don't have one, or whose implementation cannot convert from/to Unicode. . This piece of software is made available under the terms and conditions of the libiconv license, which can be found below.

Source: http://ftp.gnu.org/pub/gnu/libiconv

libmtp (0.3.6)

libmtp is an Initiator implementation of the Media Transfer Protocol (MTP) in the form of a library suitable primarily for POSIX compliant operating systems. We implement MTP Basic, the stuff proposed for standardization. Source: http://libmtp.sourceforge.net/

libjpg (6b)

This library is used to perform JPEG decoding tasks. This piece of software is made available under the terms and conditions of the libjpg license, which can be found below.

Source: http://www.ijg.org/

libusb

This is the home of libusb, a library that gives user level applications uniform access to USB devices across many different operating systems. libusb is an open source project licensed under the GNU Lesser General Public License version 2.1.

Many participants in the libusb community have helped and continue to help with ideas, implementation, support and improvements for

libusb.

This piece of software is made available under the terms and conditions of the libusb license, which can be found below.

Source:

http://libusb.wiki.sourceforge.net http://www.libusb.org/

libusb-compat

Library to enable user space application programs to communicate with USB devices.

This piece of software is made available under the terms and conditions of the libusb-compat license, which can be found below.

Source:

http://libusb.wiki.sourceforge.net/LibusbCompat0.1

libpng (1.2.43)

libpng -THE reference library for reading, displaying, writing and examining png Image Network Graphics. This piece of software is made available under the terms and conditions of the libpng license, which can be found below.

Source: http://sourceforge.net/projects/libpng/files/

Libxml2 (2.7.8)

The "libxml2" library is used in AstroTV as a support for the execution of NCL application. This library was developed for the GNOME software suite and is available under a "MIT" license. Source: http://www.xmlsoft.org

Linux Kernel (3.1)

The Linux kernel is an operating system kernel used by the Linux family of Unix-like operating systems. This piece of software is made available under the terms and conditions of the Linux Kernel license, which can be found below. Source: http://www.kernel.org

Linux Fusion (8.7.0) Source: GNU

liveMedia (2011.06.12) c++ runtime library for RTSP requirement Source: www.live555.com

lvm2 (2.02.89)

Userspace toolset that provide logical volume management facilities on linux.

This piece of software is made available under the terms and conditions of the lvm2 license, which can be found below.

Source: ftp://sources.redhat.com/pub/lvm2/releases/

module-init-tools (3.12)

Provides developer documentation for the utilities used by Linux systems to load and manage kernel modules (commonly referred to as "drivers"). Source: https://modules.wiki.kernel.org/index.php/M

ain_Page

mtd-utils

The aim of the system is to make it simple to provide a driver for new hardware, by providing a generic interface between the hardware drivers and the upper layers of the system. Hardware drivers need to know nothing about the storage formats used, such as FTL, FFS2, etc., but will only need to provide simple routines for read, write and erase. Presentation of the device's contents to the user in an appropriate form will be handled by the upper layers of the system. This piece of software is made available under the terms and conditions of the mtd-utils license, which can be found below. Source: http://www.linux-

mtd.infradead.org/index.html

ncurses (5.7)

The ncurses (new curses) library is a free software emulation of curses in System V Release 4.0 (SVr4), and more. It uses terminfo format, supports pads and color and multiple highlights and forms characters and function-key mapping, and has all the other SVr4-curses enhancements over BSD curses. SVr4 curses is better known today as X/Open Curses. Source: http://www.gnu.org/software/ncurses/

net-tools (1.6)

The Net-tools?package is a collection of programs for controlling the network subsystem of the Linux kernel. Source: http://www.linuxfromscratch.org/blfs/view/6. 3/basicnet/net-tools.html

NTFS-3G Read/Write Driver (2010.5.22)

NTFS-3G is an open source cross-platform implementation of the Microsoft Windows NTFS file system with read-write support. NTFS-3G often uses the FUSE file system interface, so it can run unmodified on many different operating systems. It is runnable on Linux, FreeBSD, NetBSD, OpenSolaris, BeOS, QNX, WinCE, Nucleus, VxWorks, Haiku,MorphOS, and Mac OS X It is licensed under either the GNU General Public License or a proprietary license. It is a partial fork of ntfsprogs and is under active maintenance and development. This piece of software is made available under the terms and conditions of the NTFS-3G Read/Write Driver license, which can be found below. Source: http://www.tuxera.com

openssl (1.0.1j)

OpenSSL is an open source implementation of the SSL and TLS protocols. The core library (written in the C programming language) implements the basic cryptographic functions and provides various utility functions. Wrappers allowing the use of the OpenSSL library in a variety of computer languages are available.

Source: http://www.openssl.org/

procps (ps, top) (3.2.8)

procps is the package that has a bunch of small useful utilities that give information about processes using the /proc filesystem.

The package includes the programs ps, top, vmstat, w, kill, free, slabtop, and skill. Source: http://procps.sourceforge.net/index.html

Source. http://procps.sourcerorge.net/

samba (3.0.37)

Samba is the standard Windows interoperability suite of programs for Linux and Unix. Source: http://www.samba.org/

SaWMan (1.5.3)

SaWMan, the Shared application and Window Manager, is a new window manager module for use with DirectFB.

Source: http://www.directfb.org

sed (4.1.5)

sed (stream editor) isn't an interactive text editor. Instead, it is used to filter text, i.e., it takes text input, performs some operation (or set of operations) on it, and outputs the modified text.

sed is typically used for extracting part of a file using pattern matching or substituting multiple occurrences of a string within a file.

Source: http://www.gnu.org/software/sed/

SQLite3 (2.12.2)

SQLite is a in-process library that implements a selfcontained, serverless, zero-configuration, transactional SQL database ongine

transactional SQL database engine.

This piece of software is made available under the terms and conditions of the SQLite3 license, which can be found below.

Source: http://www.sqlite.org/

SquashFS

SquashFS is a compressed read-only file system for Linux. SquashFS compresses files, inodes and directories, and supports block sizes up to 1 MB for greater compression. SquashFS is also the name of free/open software, licensed under the GPL, for accessing SquashFS filesystems.

This piece of software is made available under the terms and conditions of the SquashFS license, which can be found below.

Source: http://squashfs.sourceforge.net/

tar (1.17)

GNU Tar provides the ability to create tar archives, as well as various other kinds of manipulation. For example, you can use Tar on previously created archives to extract files, to store additional files, or to update or list files which were already stored. Source: http://www.gnu.org/software/tar/

u-Boot (2011.12)

The uboot will load the linux kerenl to dram, and jump

to run .

This piece of software is made available under the terms and conditions of the u-Boot loader license, which can be found below. Source: http://www.denx.de

udhcpc (0.9.8cvs20050303-3) Source: http://udhcp.sourcearchive.com/downloads/ 0.9.8cvs20050303-3/

uDirectFB (1.5.3) Source: http://www.directfb.org

uriparser (0.7.7)

Uriparser is a strictly RFC 3986 compliant URI parsing and handling library written in C. uriparser is crossplatform, fast, supports Unicode and is licensed under the New BSD license. Source: http://uriparser.sourceforge.net/

util-linux-ng (2.18)

Various system utilities. Source: http://userweb.kernel.org/⊠kzak/util-linuxng/

wget (1.10.2)

GNU Wget is a free software package for retrieving files using HTTP, HTTPS and FTP, the most widely-used Internet protocols.

It is a non-interactive commandline tool, so it may easily be called from scripts,?cron?jobs, terminals without X-Windows support, etc. Source: http://ftp.gnu.org/gnu/wget/wget-1.10.2.tar.gz

wpa_supplicant v0.8(wext)/v2.3(cfg80211) wpa_supplicant is a WPA Supplicant for Linux, BSD, Mac OS X, and Windows with support for WPA and WPA2 (IEEE 802.11i / RSN). It is suitable for both desktop/laptop computers and embedded systems. Supplicant is the IEEE 802.1X/WPA component that is used in the client stations. It implements key negotiation with a WPA Authenticator and it controls the roaming and IEEE 802.11 authentication/association of the wlan driver. Source: https://w1.fi/wpa_supplicant/

xerces-c++ (3.1.1)

Source: http://xerces.apache.org/

zlib (6b)

The 'zlib' compression library provides in-memory compression and decompression functions, including integrity checks of the uncompressed data. This piece of software is made available under the terms and conditions of the zlib license, which can be found below.

Source: http://www.zlib.net/

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