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7956 series

User Manual

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PHILIPS

Contents

1
Home Screen

1.1
Home Screen and Channels

The Home launcher

To enjoy the benefits of your Android TV, connect the TV to the Internet. Press **Home** on your remote control to get your new Android Home screen. Like on your Android smartphone or tablet, the Home screen is the centre of your TV. From here you can decide what to watch by browsing entertainment options from app and live TV. Your Home has channels to let you discover great contents from your favourite apps. You can also add additional channels or find new apps to get more contents.

The Home screen is organized in channels. Apps may populate their recommendation (if available) according to their own choice as an individual channels in the home screen.

Apps

Your favourite Apps are placed on the first row. This row contains number of apps pre-installed. The order of these apps are according to business agreements with content service providers. You can also add more apps as favourite from the Apps page, such as the Live TV and MMP (MultiMediaPlayer). The Apps page can be opened by clicking the Apps icon at the left end of the **Apps** row.

Live TV

The Live TV row shows the currently running programmes from the installed channels. It contains up to 10 channels as the recommendation for you to select the TV channels. The first channel on Live TV row is the channel you are watching, and the following channels will be the channels on your favourite list*.
* Note: If there are still more spaces available on Live TV row, it will include the channels from your DTV (digital TV) source.

Play Next channel

You can always know what to watch next from **Play Next** channel on the Home screen. Start watching from where you left off and get notifications about new episodes in the **Play Next** channel. Press and hold Select on a movie or TV show to add it directly to the **Play Next** channel.

Google Play Movies & TV channel

Rent movies or TV shows on this channel from **Google Play Movies & TV**.

YouTube channel

This channel contains your Recommended, Subscriptions or Trending YouTube videos.

Customize channels

Click the **Customize channels** button to add and remove channels from your Home screen.

See also www.support.google.com/androidtv

Accessing settings from Home

You can access **Settings** menu via the icon at the top right corner.

Accessing USB flash drive from Home

To view the files from the USB flash drive, you need to add the MMP (MultiMediaPlayer) app to the Home page first. Press **Home**, clicking the Apps icon at the left end of the Apps row. You can add **MMP** apps from the Apps page.

System bar on Home screen

The System bar on the top of Home screen contains following features.
 – Search button: to trigger Google search with voice* or text input. The search result and its order are rendered according to business agreements with content service providers.
 – Notifications: to provide you the messages about your Smart TV system.
 – Input source: to launch the input source list and switch to any of the connected devices.
 – Settings: to access all setting menu and adjust the TV settings.
 – Clock: to indicate the system clock.

* Note: In order to take advantage of Google Assistant in case of a remote control without microphone, please use the Android TV Remote Control app available in Google Play Store for Android and Apple App store for iOS devices.

1.2
Open the Home Screen

To open the Home screen and open an item...

1 – Press **Home**.
2 – Select an item and press **OK** to open or start it.
3 – Press **Back** continuously or press **Home** can go back to Home screen.

When opening the Home screen, the background application/content playback will stop. You have to select the application or content from the Home screen to resume.

2
Setting Up

2.1
Read Safety

Read the safety instructions first before you use the TV.

To read the safety instructions, go to **Safety and Care** section on this Help manual for the information.

2.2
TV Stand and Wall Mounting

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 . . .
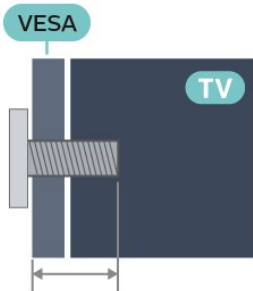
· 43PUS79x6
VESA MIS–F 100x200, M6 (Min.: 10mm, Max.: 12mm)
· 50PUS79x6
VESA MIS–F 200x300, M6 (Min.: 10mm, Max.: 16mm)
· 55PUS79x6
VESA MIS–F 200x300, M6 (Min.: 10mm, Max.: 16mm)
· 65PUS79x6
VESA MIS–F 300x300, M6 (Min.: 12mm, Max.: 20mm)
· 70PUS79x6
VESA MIS–F 300x300, M8 (Min.: 12mm, Max.: 25mm)
· 75PUS79x6
VESA MIS–F 300x300, M8 (Min.: 12mm, Max.: 25mm)

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.

2.3
Tips on Placement

· Position the TV where light does not shine directly on the screen.
· Dim lighting conditions in the room for best Ambilight effect.
· The ideal distance to watch TV is 2 to 5 times its diagonal screen size. When seated, your eyes should be level with the centre of the screen.
· When wall mounted, position the TV up to 15 cm away from the wall.
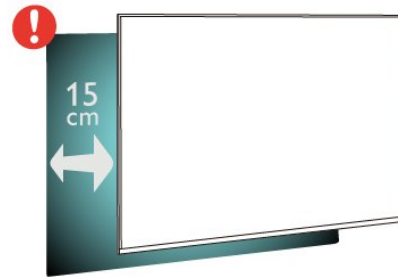
Note:

Please keep the TV away from dust–producing sources such as stoves. It is suggested to clean the dust regularly to avoid getting dust into the TV.

2.4
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.
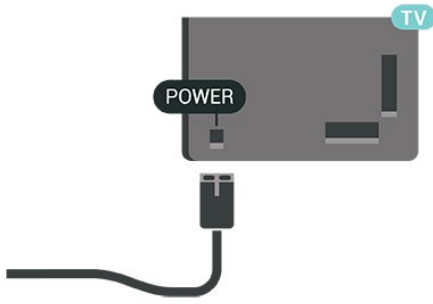
Although this TV has a very low standby power consumption, unplug the power cable to save energy if you do not use the TV for a long period of time.
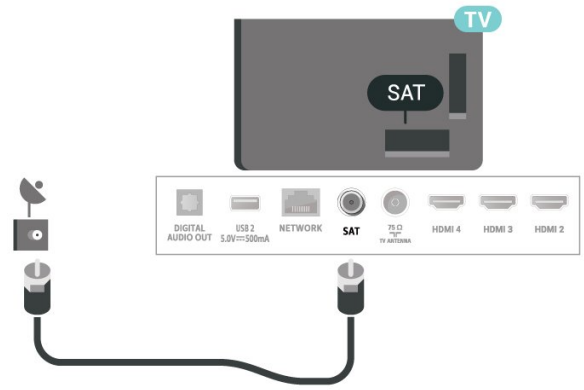
2.5
Antenna Cable

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 antenna digital or analogue input signals.
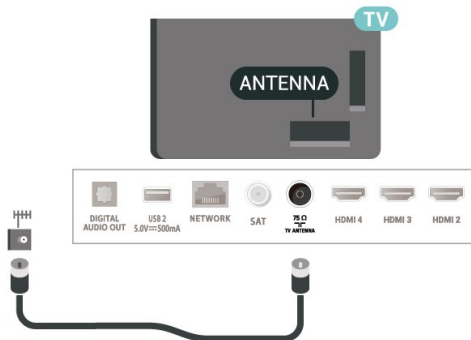
2.6
Satellite Dish

Attach the satellite F-type connector to the satellite connection **SAT** at the back of the TV.

3

Remote Control

3.1

Key Overview

Top

1 – Power (Standby / On)
To switch the TV on or back to Standby.

2 – Ambilight
To select one of the Ambilight style.

3 – Amazon Prime Video
To launch the Amazon Prime Video App.

4 – NETFLIX
To launch the Netflix App with the TV switched on or from standby.

・ If you have a Netflix membership subscription, you can enjoy Netflix on this TV. Your TV must be connected to the Internet.
・ To open Netflix, press the **NETFLIX** key to open the Netflix App. You can open Netflix immediately from a TV in standby.

5 – INFO
Press to open the programme information screen. Press once to show brief channel information, press again to show expanded screen with programme title and more information, press again to show full programme information. Keep pressing the key can switch to different views of the information.

6 – YouTube
To launch the YouTube App.

7 – Rakuten TV
To launch the   Rakuten TV App.
* Note: The Rakuten TV App is not available in all countries.

8 – SOURCES

To open or close the Sources menu.

9 – SEARCH
To invoke the search by typing.

Top (for UK models)

1 – Power (Standby / On)
To switch the TV on or back to Standby.

2 – Ambilight
To select one of the Ambilight style.

3 – Amazon Prime Video
To launch the Amazon Prime Video App.

4 – NETFLIX
To launch the Netflix App with the TV switched on or from standby.

・ If you have a Netflix membership subscription, you can enjoy Netflix on this TV. Your TV must be connected to the Internet.
・ To open Netflix, press the **NETFLIX** key to open the Netflix App. You can open Netflix immediately from a TV in standby.

5 – INFO
Press to open the programme information screen. Press once to show brief channel information, press again to show expanded screen with programme title and more information, press again to show full programme information. Keep pressing the key can switch to different views of the information.

6 – Freeview Play
To launch the Freeview Play.

7 – Rakuten TV
To launch the   Rakuten TV App.

8 – SOURCES
To open or close the Sources menu.

9 – SEARCH
To invoke the search by typing.

Middle
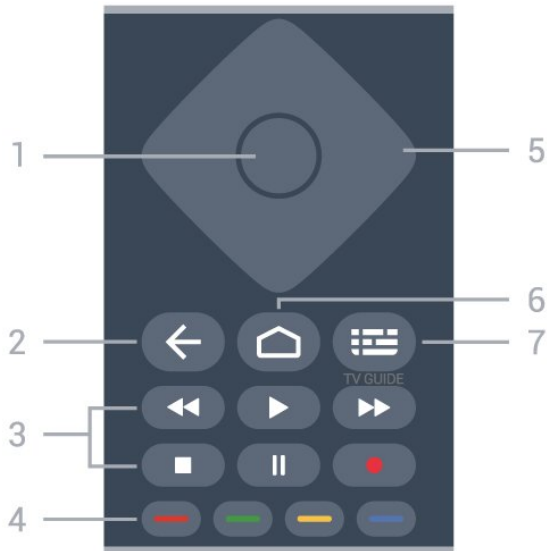
1 – OK key
To confirm a selection or setting. To open the channel list while watching TV.

2 – Back
· To return to previous menu or TV source.
· To go back to the previous App.

3 – Playback and Record
· **Play**, to playback.
· **Pause**, to pause playback
· **Stop**, to stop playback
· **Rewind**, to rewind
· **Fast forward**, to go fast forward
· **Record**, this function is not supported.

4 – Colour keys
Follow the on-screen instructions to select more options or operations.
Press **Blue key** on Home screen to open the **Help**.

5 – Navigation keys
To navigate up, down, left or right.

6 – Home
To open the Home menu.

7 – TV GUIDE
To open or close the TV Guide.

Bottom
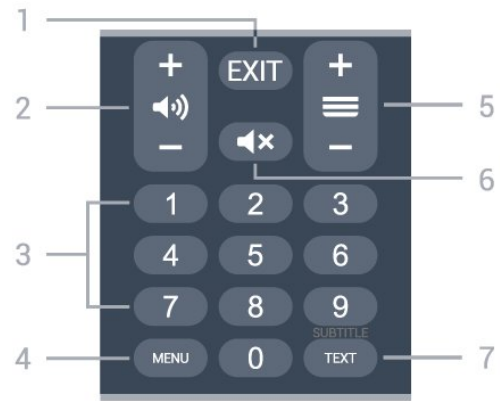
1 – EXIT
To leave from current menu or App.

2 – Volume
Press + or – to adjust the volume level.

3 – Number keys
To select a channel directly.

4 – MENU
To open the TV Menu with typical TV functions.

5 – Channel
Press + or – to switch to the next or previous channel in the channel list. To open the next or previous page in Text/Teletext.

6 – Mute
Press to mute the sound or to restore it.

7 – TEXT / SUBTITLE
To open or close Text/Teletext. Long press to open th Subtitle page.

Bottom (for UK models)
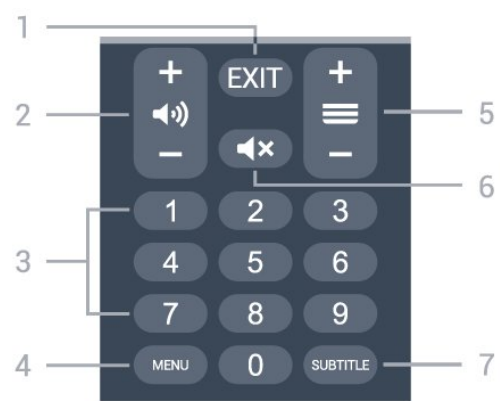
1 – EXIT
To leave from current menu or App.

2 – Volume
Press + or – to adjust the volume level.

3 – Number keys
To select a channel directly.

4 – MENU
To open the TV Menu with typical TV functions.

5 – Channel
Press + or   – to switch to the next or previous channel in the channel list. To open the next or previous page in Text/Teletext.

6 – Mute
Press to mute the sound or to restore it.

7 – SUBTITLE
To open Subtitle page.

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

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-bottom 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-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.

For more information, in **Help**, select **Keywords** and look up **End of use**.

3.4

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.

Switching On and Off

Make sure the TV is connected to the mains AC power. The indicator light at the bottom of the TV lights up.

Switch on

Press **Power** on the remote control to switch the TV on. You can also press the small joystick key on the bottom of the TV to switch the TV on in case you can't find the remote control or its batteries are empty.

Switch to standby

To switch the TV to standby, press **Power** on the remote control. You can also press the small joystick key on the bottom 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.

5
Channel Installation

5.1
First Time to Install Channels

Install channels during the first TV installation

On the first TV installation, you can follow on-screen instructions to set the menu language, network connection, sign in Google account, select your country and complete other basic settings for the TV. Moreover, you can also install channels during the first TV installation.

To install channels during the first TV installation…

1 – The first TV installation starts from Welcome screen with language setting options, follow on-screen instruction to complete multiple TV settings until the channel installation part.
2 – The channel installation during the first TV installation starts from **Satellite installation**, press **Start** if you want to install satellite channels. Press **Skip** to skip the satellite installation and go to **Antenna** or **Cable** installation page.
3 – Follow on-screen instructions to complete one of the channel installation types as your selection. You can install other types of channel installation later on **MENU** > **TV options** > **Settings** > **Channel**.

For more details about **Satellite**, **Antenna** and **Cable** channel installation, please refer to respective installation instruction sections.

5.2
Install Digital or Analogue Channels

When scan and install channels, only current TV source channels will be scanned. If you current TV source is **DTV**, the channel scan applied to digital channels. If you current TV source is **ATV**, the channel scan applied to analogue channels.

To set or change TV source, press **SOURCES** and select **DTV** or **ATV**.

5.3
Satellite

Satellite Installation

Please note that before installing channels, you should first change the **Channel Installation Mode** to the one you want to install. For the Satellite channel installation, you need to change **Channel Installation Mode** to **General Satellite** or **Preferred Satellite** first and then start the installation.

To install Satellite channels…

1 – Press **Home** > **Settings** > **Channel** > **Channel Installation Mode** and press **OK**.
2 – Select **General Satellite** or **Preferred Satellite** and then go back to **Channel**.
3 – Select **Channels** > **Satellite re-scan** or **Satellite Manual Tuning** and press **OK**.

Alternatively, while watching a TV channel, you can perform the channel scan by…

MENU > Navigation Keys up > Channels > Channel

Satellite Re-scan and Satellite Manual Tuning

Scan channels with Satellite re-scan

To start Satellite re-scan…

1 – Press **Home** > **Settings** > **Channel** > **Channel Installation Mode** and press **OK**.
2 – Select **General Satellite** or **Preferred Satellite** and then go back to **Channel**.
3 – Select **Channels** > **Satellite re-scan** and press **OK**.
4 – Select **Next** to proceed the scan or select **More** to find more scan types for different satellite systems. Depending on your satellite system, there are 5 types of Satellite scan modes to select.

· **Single** – Scan the channels from single satellite.
· **Tone Burst** – Scan the channels from up to 2 satellites.
· **DiSEqC 1.0** – Scan the channels from up to 4 satellites.
· **Unicable I** – Scan the channels from up to 2 satellites with up to 8 User Band Number.
· **Unicable II** – Scan the channels from up to 4 satellites with up to 32 User Band Number.
5 – Select **Next** to start the scan immediately with current satellite settings.
6 – Select the **Satellite name** to view and change the satellite settings. Once the satellite settings are confirmed, press **Back** and select **Next** to start the scan.

The satellite setting items include all information of satellites.

· **Satellite Status** – The item is not allowed to modify when you select **Preferred satellite**, but allowed in **General satellite**. Press **Navigation keys** left or right to set the Status on or off of the selected satellite.
· **Satellite selection** – The item is only for indicating the name of satellite, not allowed to modify.
· **Scan mode** – Press **Navigation keys** left or right to set the scan mode to **Full** or **Network** .
· **Scan type** – Press **Navigation keys** left or right to set the scan type to **All**, **Only Encrypted Channels** or **Only Free Channels**.
· **Store type** – Press **Navigation keys** left or right to set the store type to **All**, **Only Digital Channels** or **Only Radio Channels**.
· **LNB configurations** – Press **OK** to view or adjust the LNB configurations for the **LNB Power**, **LNB Frequency**, **Tone 22KHz**, **Signal quality** and **Signal level**.
· **Transponder** – Press **OK** to adjust the Transponder settings for the **Frequency**, **Symbol Rate** and **Polarization**.
· **Signal quality** – View the signal quality of the satellite displayed by the value between 0 and 100.
· **Signal level** – View the signal level of the satellite displayed by the value between 0 and 100.

Scan channels with Satellite manual tuning

Satellite Manual Tuning is used to scan only one satellite by setting the Transponder of selected satellite. In this condition of scanning, only Transponder adjustment is allowed, other setting items are disabled.

Unicable Setup

The Unicable System

You can use a Single Cable system or Unicable system to connect the antenna dish to the TV. A Single Cable system uses one cable to connect the satellite dish to all satellite tuners in its system. A Single Cable system is typically used in apartment buildings. If you use a Unicable system, the TV will ask you to assign a user band number and corresponding frequency during the installation.

If you notice some missing channels after a Unicable installation, another installation might have been done at the same moment on the Unicable system. Do the installation again to install the missing channels.

User Band Number

In a Unicable system, each connected satellite tuner

must be numbered (e.g. 0, 1, 2 or 3 etc.).

You can find the available user bands and their number on the Unicable switchbox. User band is sometimes shortened as UB. If you select Unicable in the settings, the TV will ask you to assign the unique user band number for each built-in satellite tuners. A satellite tuner cannot have the same user band number as another satellite tuner in the Unicable system.

User Band Frequency

Next to the unique user band number, the built-in satellite receiver needs the frequency of the selected user band number. These frequencies are mostly shown next to the user band number on a Unicable switchbox.

Satellite CAM

If you use a CAM (CI+) – a Conditional Access Module with a smart card – to watch satellite channels, we recommend to do the satellite installation with the CAM inserted in the TV.

Most CAMs are used to descramble channels.

Newest generation CAMs can install all the satellite channels by themselves on your TV. The CAM will invite you to install its satellite(s) and channels. These CAMs not only install and descramble the channels but also handle regular channel updates.

To open the CAM (CI+) menu...

Press **MENU** > **TV options** > **CI Card** and press **OK**.

5.4
Antenna

Antenna Installation

Please note that before installing channels, you should first change the **Channel Installation Mode** to the one you want to install. For the Antenna channel installation, you need to change **Channel Installation Mode** to **Antenna** first and then start the installation.

To install Antenna channels...

1 – Press **Home** > **Settings** > **Channel** > **Channel Installation Mode** and press **OK**.
2 – Select **Antenna** and then go back to **Channel**.
3 – Select **Channels** >   **Channel Scan** and press **OK**.

Alternatively, while watching a TV channel, you can

perform the channel scan by…

MENU > Navigation Keys up
> Channels > Channel

Favourite Network Select

To select the favourite network…

1 – While watching TV, press MENU > TV
options > Settings > Channel > Channels and
press OK.
2 – Select Favourite Network Select and press OK.
3 – Follow the on-screen instructions.
4 – Press Back, repeatedly if necessary, to close the
menu.

5.5

Cable Installation

Please note that before installing channels, you
should first change the Channel Installation Mode to
the one you want to install. For the Cable channel
installation, you need to change Channel Installation
Mode to Cable first and then start the installation.

To install Cable channels…

1 – Press Home > Settings > Channel > Channel
Installation Mode and press OK.
2 – Select Cable and then go back to Channel.
3 – Select Channels > Channel Scan and
press OK.
4 – Press Navigation keys left or right to select a
scan mode.

Full scan
1 – Select Full.
2 – Select Scan and press OK to start. This can
take a few minutes.

Quick or Advance scan
1 – Select Quick or Advance.
2 – You can set the Frequency (KHz) and Network
ID.
3 – Select Scan and press OK to start. This can
take a few minutes.

Alternatively, while watching a TV channel, you can
perform the channel scan by…

MENU > Navigation Keys up > Channels >
Channel

5.6

Channel Installation Options

Single RF Scan and Reception Quality

You can check the quality and signal strength of a
digital channel. If you have your own antenna, you
can reposition the antenna to try and improve the
reception.

To check the reception quality of a digital channel…
1 – While watching TV, press MENU > TV options >
Settings > Channel > Channels > Single RF Scan and
press OK.
2 – Select RF Channel.
3 – Press Navigation keys left or right to select a
channel and press OK. The signal level and signal
quality is shown for this channel.
4 – Press Back, repeatedly if necessary, to close the
menu.

Channel Scan or Store Type

You can set the channel type for scanned or stored.

To set the channel scan type…
1 – While watching TV, press MENU > TV
options > Settings > Channel > Channels and
press OK.
2 – Select Channel Scan Type and press OK.
3 – Select the scan type you want and press OK.
4 – Press Back, repeatedly if necessary, to close the
menu.

To set the channel store type…
1 – While watching TV, press MENU > TV
options > Settings > Channel > Channels and
press OK.
2 – Select Channel Store Type and press OK.
3 – Select the store type you want and press OK.
4 – Press Back, repeatedly if necessary, to close the
menu.

Channel Skip

You can skip the channels you do not want to watch.

To set the skipped channels …
1 – While watching TV, press MENU > TV
options > Settings > Channel > Channels and
press OK.
2 – Select Channel Skip* and press OK.
3 – Select the channels you want to skip and
press OK. The check mark is shown.
4 – Press Back, repeatedly if necessary, to close the
menu.

* Note: You cannot skip the current watching channel.

Channel Sort

You can swap the position on the channel list for each channel.

To swap the channel number…
1 – While watching TV, press MENU > TV options > Settings > Channel > Channels and press OK.
2 – Select Channel Sort* and press OK.
3 – Press OK to select a channel, and then press Navigation keys up or down to select another channel. The position of first selected channel and the second selected channel will be swapped to each other.
4 – Press Blue key Exit to finish the operation.
5 – Press Yellow key Go To Channel and input the channel number to jump to the channel.
6 – Press Back, repeatedly if necessary, to close the menu.

* Note: Depending on your installation country or operator setting, Channel Sort option is not always available.

Channel Move

You can change the channels order as you like.

To move channels …
1 – While watching TV, press MENU > TV options > Settings > Channel > Channels and press OK.
2 – Select Channel Move* and press OK.
3 – Follow the on-screen description to select.
4 – Press Back, repeatedly if necessary, to close the menu.

* Note: Depending on your installation country or operator setting, Channel Move option is not always available.

Channel Edit

You can edit the channels from the channel list.

To edit the channels …
1 – While watching TV, press MENU > TV options > Settings > Channel > Channels and press OK.
2 – Select Channel Edit and press OK.
3 – Use the Navigation keys to select the channel and press Yellow key for Select.
4 – Edit the channel number* and channel name.
5 – Press Back, repeatedly if necessary, to close the

menu.

* Note: Depending on your installation country or operator setting, channel number editing is not always available.

Analogue Manual Scan

Analogue TV channels can be manually installed.

To install analogue channels manually…
1 – While watching TV, press MENU > TV options > Settings > Channel > Channels and press OK.
2 – Select Analogue Manual Scan and press OK.

Analogue Channel Fine Tune

Analogue TV channels can be manually fine tuned.

To fine tune a channel…
1 – While watching TV, press MENU > TV options > Settings > Channel > Channels and press OK.
2 – Select Analogue Channel Fine-tune and press OK.
3 – You can fine tune the channel.
4 – Press Back, repeatedly if necessary, to close the menu.

5.7
Update Channels

Automatic Channel Update

If you receive digital channels, you can set the TV to automatically update these channels.

Once a day, the TV updates the channels and stores new channels. The TV must be in standby to automatically update channels. You can switch off automatic update.

To switch off the automatic update…

1 – While watching TV, press MENU > TV options > Settings > Channel.
2 – Enter your PIN code if necessary.
3 – Select Auto Channel Update and press OK.
4 – Press Back, repeatedly if necessary, to close the menu.

In certain countries, the Automatic channel update is done while watching TV or on any moment when the TV is in standby.

Channel Update Message

Once the automatic channel update is done, a notification will be displayed when TV leaving from standby mode.

To switch off the message of channel update…

1 – While watching TV, press MENU > TV options
> Settings >   Channel.
2 – Enter your PIN code if necessary.
3 – Select Channel Update Message and press OK.
4 – Press Back, repeatedly if necessary, to close the menu.

Manual Channel Update

You can always start a channel update yourself.

To start a channel update manually…

1 – While watching TV, press MENU > TV options
> Settings > Channel > Channels and select one of below options.
Channel Scan – this kind of scan will auto install digital channels or analogue channels depending on your current TV source setting is DTV or ATV .
Update Scan – refers to an incremental scan, which only scans the frequencies that Channel Scan has not scanned.
Analog Manual Scan – allow user to input analogue frequency to start manual scan.
Single RF Scan – is digital manual scan, this allow user to scan specific frequency by pressing left or right Navigation Key on the RF Channel item.
Manual Service Update – is used to start background scan that new channels can be scanned without changing the existing channels.
2 – Enter your PIN code if necessary.
3 – The channel scan will start immediately. This can take a few minutes to complete the channel update.
4 – Press Back, repeatedly if necessary, to close the menu.

6
Channels

6.1
About Channels and Switch Channels

To watch TV channels
· Press **SOURCES** and select **DTV** to watch digital channels or **ATV** to watch analogue channels.
· Alternatively, you can Press **Home** > **Live TV** and press **OK** to watch current TV source channels. If Live TV is not on your Apps row, you can press + icon on the end of the row to add the app.

To switch TV channels
· Press **Channel +** or **Channel –** 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 to a channel from a channel list
· While watching a TV channel, press **OK** to open the channel lists. The channel list only includes the channels from current broadcast source like **General Satellite**, **Preferred Satellite**, **Antenna** or **Cable** .
· To view different channel list from other broadcast source, press **MENU** > **Navigation Keys** up > **Channels** > **Channel** > **Channel Installation Mode** and select other broadcast source you want to watch channels and view the channel list.
· The channel list can have several pages with channels. To view the next or previous page, follow the on-screen instruction.
· To close the channel lists without switching channels, press **Back**.

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.

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

6.2
Channel Lists

About Channel Lists

After a channel installation, all channels appear on the All channel list. The channels displayed in All Channel list is listed based on genre*. For example: Premium, Premium News, Premium Local, Children, Sport and etc. The Premium genre are top broadcast channels positioned with market share above 3%. Channels are shown with their name if this information is available.

With a channel list selected, press **Navigation keys** up or down to select a channel, then press **OK** to watch the selected channel.

* Note: The listed by genre function is only apply to Germany.

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.

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

Open a Channel List

Next to the list with all channels, you can select a filtered list or you can select one of the favourite lists you created.

To open the current channel list...
1 – While watching TV, press **OK** to open the current channel list.
2 – The channel list only includes the channels from current broadcast source like **General Satellite**, **Preferred Satellite**, **Antenna** or **Cable**.
3 – To view different channel list from other broadcast source, press **MENU** > **Navigation Keys** up > **Channels** > **Channel** > **Channel Installation Mode** and select other broadcast source you want to watch channels and view the channel list.
4 – Press **Back** to close the channel list.

To change the type of channel list...
1 – While watching TV, press **OK** to open the current channel list.
2 – Press **Yellow key** for **Select More** and then select **Select Type** (for example, **Broadcast** or **Favourites**) to immediately change the channel list to your preferred list.
3 – Press **Back** to close the channel list.

immediately

Search for a Channel

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

To search for a channel...
1 – Press **OK** to open the current channel list.
2 – Press **Yellow key** for **Select More**.
3 – Select **Operation** > **Find** and press   **OK** to open a text field. You can use the remote control keyboard (if available) or the on-screen keyboard to enter text.
4 – Enter a number, a name or part of a name and press **OK**. The TV will search for matching channel names in the list you selected.

Search results are listed with current channel list type you have selected (for example, **Broadcast** or **Favourites**). The search will return the matching channel name with the result arranged in alphabetical order. The search results disappear once you select another channel list or close the list with search results.

Channel List Sorting

You can do channel list sorting with all channels. You can set the channel list to show only TV channels or only Radio stations. For Antenna channels you can set the list to show the Free or the Scrambled channels.

To set a filter on a list with all channels...
1 – Press **OK** to open the current channel list.
2 – Press **Yellow key** for   **Select More**.
3 – Select **Operation** > **Sort** and press   **OK**.
4 – Select the filter you want and press **OK** to activate. The name of the filter appears as part of the channel list name on top of the channel list.
5 – Press **Back** to close the channel list.

Channel List on Freeview Play

There will be a specific channel list operation for UK **Freeview Play**.

After a channel installation, all channels appear on the channel list. Channels are shown with their name if this information is available.

To open the current channel list...
1 – While watching TV, press **OK** to open the current channel list.
2 – Press **Back** to close the channel list.

With a channel list selected, press **Navigation keys** up or down to select a channel, then press **OK** to watch the selected channel. Press **Navigation keys** left or right to change the filter on the channel list. You can set the channel list to show All channels,

Favourite channels, or other types of channels.

On channel list page, press different colour keys to do more operations...

· **Red key** Page Up – Jump one page up on channel list.
· **Green key**   Page Down – Jump one page down on channel list.
· **Yellow key** Players– Go and select other Players to get more programmes. You need to connect your TV to Internet first to have this feature.

· **Blue key** Add/Remove Favourite – Add or remove selected channel from Favourite channel list.

* Freeview Play is only for UK models.

6.3
Watching channels

Tune to a Channel

To start watching TV channels, press **SOURCES**. The TV tunes to the channel you last watched.

Alternatively, you can select **Live TV** from the Home screen.

Switch Channels

To switch channels, press **Channel +** or **Channel –**. If you know the channel number, type in the number with the number keys. Press **OK** after you entered the number to switch immediately.

You can also tune to channels from a **Channel List** by pressing **OK**.

Parental Controls

Lock and Unlock a Channel

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

To lock or unlock a channel...
1 – Press **MENU** > **Settings** > **Channel** > **Parental Controls** and press   **OK**.
2 – Enter your PIN code if necessary.
3 – Select **Channels Blocked** and press   **OK**.
4 – Press **Navigation keys** up or down to select the channel you want to lock or unlock, and press **OK**.
5 – A locked channel is marked with a lock icon.
6 – Press **Back**, repeatedly if necessary, to close the menu.

* Note: if you forgot your PIN code, you can override the current one by using the code **8888** and entering

a new one.

Programme Restrictions

To prevent children from watching a programme that may not suitable for them, you can set a rating.

Digital channels can have their programmes rated. When the rating of a programme is equal to or higher than the rating you have set, the programme will be locked. To watch a locked programme, you must enter the PIN code first.

To set a rating…
1 – Press **MENU** > **Settings** > **Channel** > **Parental Controls** and press **OK**.
2 – Enter your PIN code if necessary.
3 – Select **Programme Restrictions** and press **OK**.
4 – Select **On** to set the rating.
5 – Select **Ratings** and press **OK**.
6 – Set the restrictions for your children.
7 – Press **Back**, repeatedly if necessary, to close the menu.

To switch off the parental rating, select **None**. However, in some countries you must set a rating.

For some broadcasters/operators, the TV only locks programmes with a higher rating. The parental rating is set for all channels.

Inputs Blocked

To prevent from using connected devices, you can lock an input source. To connect a locked input source, you must enter the 4 digit PIN code first.

To lock or unlock an input source…
1 – Press **MENU** > **Settings** > **Channel** > **Parental Controls** and press **OK**.
2 – Enter your PIN code if necessary.
3 – Select **Input Blocked** and press **OK**.
4 – Press **Navigation keys** up or down to select the source you want to lock or unlock, and press **OK**.
5 – A locked source is marked with a lock icon.
6 – Press **Back**, repeatedly if necessary, to close the menu.

Change PIN

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

1 – Press **MENU** > **Settings** > **Channel** > **Parental Controls** and press OK.
2 – Enter your PIN code if necessary.
3 – Select **Change PIN** and press **OK**.
4 – Enter the current PIN code and new PIN code.
5 – Press **Back**, repeatedly if necessary, to close the menu.

6.4
Favourite Channels

About Favourite Channels

In a favourite channel list, you can collect the channels you like.

You can create 4 different lists* of favourite channels for easy channel zapping.

With a Favourites List selected, press the **Navigation keys** up or down to select a channel, then press **OK** to watch the selected channel.

* Note: Only one favourite channel list is available when the installation country is UK.

Edit a Favourites List – Digital TV

To add a channel to the favourite list…
1 – While watching TV, press **OK** to open the current channel list.
2 – Press **Navigation keys** up or down to select a channel.
3 – Press **Blue key** to add the channel to a favourites list (default list is **Favourtites1**). Press **Blue key** again will remove the channel from the favourite list.
4 – Press **Back** to close the menu.

To create a favourite channels list…
1 – While watching TV, press **OK** to open the current channel list.
2 – Press **Yellow key** for **Select More**.
3 – Select **Select Type** > **Favourites** and then press **Navigation keys** up or down to select a list of **Favourites1*** to **Favourites4** that you want to add.
4 – Press **Yellow key** for **Select More** and then select **Select Type** to change the channel list to your preferred list.
5 – Press **Blue key** to add the channel to the favourites list you just selected. Press **Blue key** again will remove the channel from the favourite list.
6 – Press **Back** to close the menu.

To move or remove a channel from the favourites list…
1 – Select a list of **Favourites1*** to **Favourites4** you want to edit.
2 – Press **Yellow key** for **Select More**.
3 – Select **Operation** > **Move** to move the channel positions on the favourite channel list.
4 – Select **Operation** > **Delete** to remove the channels from the favourite channel list.
5 – Press **Back**, repeatedly if necessary, to close the menu.

* Note: Only one favourite channel list is available when the installation country is UK.

Edit a Favourites List – Analogue TV

To add a channel to the favourite list…
1 –   While watching Analogue TV, press **OK** to open the current channel list.
2 –   Press **Navigation keys** up or down to select a channel.
3 –   Press **Blue key** to add the channel to a favourites list (default list is **Favourtites1**). Press **Blue key** again will remove the channel from the favourite list.
4 –   Press **Back** to close the menu.

To create a favourite channels list…
1 – While watching Analogue TV, press **OK** to open the current channel list.
2 –   Press **Yellow key** for **Favourites**.
3 –   Press **Navigation keys** left or right to select a list of **Favourites1*** to **Favourites4** that you want to add.
4 –   Press **Back** to see the channel list is changed to your preferred list.
5 –   Press **Blue key** to add the channel to the favourites list you just selected. Press **Blue key** again will remove the channel from the favourite list.
6 –   Press **Back** to close the menu.

To move or remove a channel from the favourites list…
1 –   Select a list of **Favourites1*** to **Favourites4** you want to edit.
2 –   Press **Yellow key** for **Favourites**.
3 –   Select **Move** to move the channel positions on the favourite channel list.
4 –   Select **Delete** to remove the channels from the favourite channel list.
5 –   Press **Back** to close the menu.

* Note: Only one favourite channel list is available when the installation country is UK.

6.5

Interactive TV

About iTV

With interactive TV, some digital broadcasters combine their normal TV programme with information or entertainment pages. On some pages, you can respond to a programme or vote, do online shopping or pay for a video-on-demand programme.

Interactive TV is sometimes referred to as Digital Text or Red button. But each system is distinct.

Visit the broadcaster's Internet website for more information.

What You Need

Interactive TV is only available on digital TV channels. To enjoy the full benefits of Interactive TV, you need a high-speed (broadband) Internet connection to the TV.

HbbTV

If a TV channel offers HbbTV pages, you must first switch on HbbTV in the TV settings to view the pages.

To switch on the HBBTV support

MENU > TV options > Advanced options >   HbbTV settings

Use iTV

Open iTV pages

Most channels that offer HbbTV or iTV invite you to press the colour key or   **OK** key to open their interactive programme.

Navigate iTV pages

You can use the arrow and colour keys, the number keys and the **Back** key to navigate the iTV pages. You can use the **Play**, **Pause** and   **Stop** keys to watch videos within iTV pages.

Close iTV pages

Most iTV pages inform you which key to use to close. To force an iTV page to close, switch to the next TV channel and press **Back**.

Connect Devices

7.1
About Connections

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.

Antenna port

If you have a Set-top box (a digital receiver) or Recorder, connect the antenna cables to run the antenna signal through the Set-top box and/or Recorder first before it enters the TV. In this way, the antenna and the Set-top box can send possible additional channels to the Recorder to record.

HDMI ports

HDMI Quality

An HDMI connection has the best picture and sound quality. One HDMI cable combines video and audio signals. Use an HDMI cable for High Definition (HD) TV signals.

For best signal quality transfer, use a High speed HDMI cable and do not use an HDMI cable longer than 5 m.

Copy protection

HDMI ports support HDCP 2.2 (High-bandwidth Digital Content Protection). HDCP is a copy protection signal that prevents copying content from a DVD disc or Blu-ray Disc. Also referred to as DRM (Digital Rights Management).

HDMI ARC

Only **HDMI 1** connection on the TV has **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** 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.
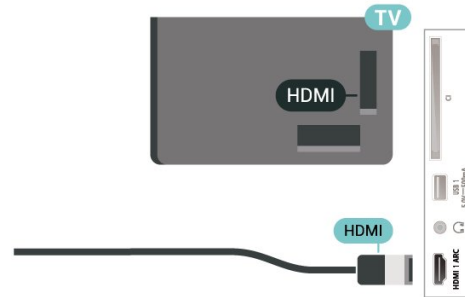
HDMI CEC

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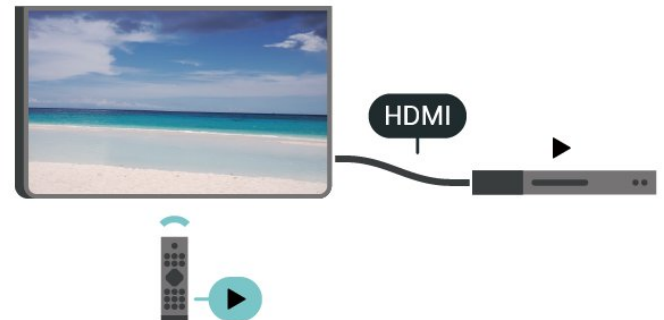
HDMI CEC (Consumer Electronic Control) must be switched on on the TV and the connected device.

Switch on CEC

Allow the TV to control HDMI device.

Home > **Settings** > **Device Preferences** > **Inputs** > **HDMI control**.

Device auto power off

Turn off the HDMI devices with the TV.

Home > **Settings** > **Device Preferences** > **Inputs** > **Device auto power off**.

TV auto power on

Power on the TV with HDMI devices.

Home > Settings > Device Preferences > Inputs > TV auto power on.

HDMI EDID Version

Check the HDMI EDID version number.

Home > Settings > Device Preferences > Inputs > HDMI EDID Version.

CEC Device List

Check the connected HDMI CEC device list.

Home > Settings > Device Preferences > Inputs > CEC device list.

Note:

· HDMI CEC 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.

7.2

CAM with Smart Card – CI+

CI+

This TV is ready for the CI+ Conditional Access .

With CI+ you can watch premium HD programmes, like movies and sports, offered by digital TV operators in your region. These programmes are scrambled by the TV operator and descrambled with a prepaid CI+ module.
Digital TV operators provide a CI+ module (Conditional Access Module – CAM) and an accompanying smart card, when you subscribe to their premium programmes. These programmes have a high level of copy protection.

Contact a digital TV operator for more information on terms & conditions.

Smart Card

Digital TV operators provide a CI+ module (Conditional Access Module – CAM) and an accompanying smart card, when you subscribe to their premium programmes.

Insert the smart card into the CAM module. See the instruction you received from the operator.

To insert the CAM in the TV…

1 – Look on the CAM for the correct method of insertion. Incorrect insertion can damage the CAM and TV.
2 – While looking at the back of the TV, with the front of the CAM facing towards you, gently insert the CAM into the slot COMMON INTERFACE.
3 – Push the CAM in as far as it will go. Leave it in the slot permanently.
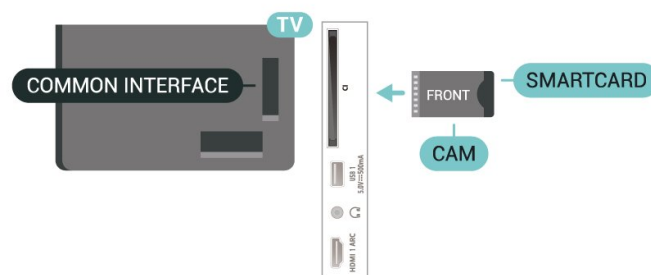
When you switch on the TV, it may take a few minutes before the CAM is activated. If a CAM is inserted and subscription fees are paid (subscription methods can differ), you can watch the scrambled channels supported by the CAM smart card.

The CAM and smart card are exclusively for your TV. If you remove the CAM, you will no longer be able to watch the scrambled channels supported by the CAM.

Passwords and PIN codes

For some CAMs, you must enter a PIN code to watch its channels. When you set the PIN code for the CAM, we recommend you to use the same code you are using to unlock the TV.

To set the PIN code for the CAM…

1 – Press SOURCES.
2 – Select the channel type you are using the CAM for watching TV.
3 – Select the TV operator of the CAM. The following screens come from the TV operator. Follow the on-screen instruction to look up the PIN code setting.

7.3

Home Theatre System - HTS

Connect with HDMI ARC

Use an HDMI cable to connect a Home Theatre System (HTS) to the TV. You can connect a Philips Soundbar or an HTS with a built-in disc player.

HDMI ARC

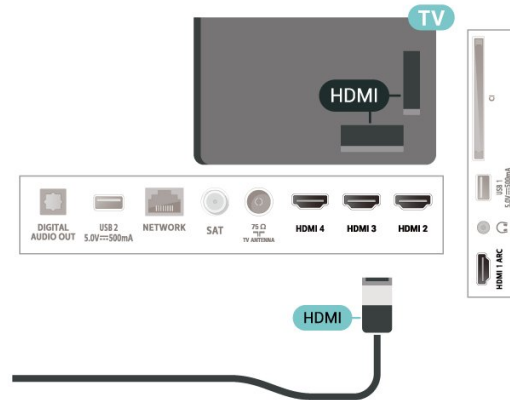If your Home Theatre System has an HDMI ARC connection, you can use HDMI ARC connection on the TV to connect. With HDMI ARC, you do not need to connect the extra audio cable. The HDMI ARC connection combines both signals.
Since HDMI 1 on the TV can offer the Audio Return Channel (ARC) signal, the TV can only send the ARC signal to this HDMI connection.

Audio to video synchronisation (sync)

If the sound does not match the video on screen, you can set a delay on most Home Theatre Systems with a disc player to match the sound with the video.

Connect with HDMI

Use an HDMI cable to connect a Home Theatre System (HTS) to the TV. You can connect a Philips Soundbar or an HTS with a built-in disc player.

If the Home Theatre System has no HDMI ARC connection, add an optical audio cable to send the sound of the TV picture to the Home Theatre System.

Audio to video synchronisation (sync)

If the sound does not match the video on screen, you can set a delay on most Home Theatre Systems with a disc player to match the sound with the video.

7.4

Video Device

HDMI

Use a **High speed HDMI** cable to connect with 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 any one of HDMI connections.

Copy protection

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

7.5

Audio Device

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 headphone connector on the back of the TV. The connection is a mini-jack 3.5mm.

* Note: TV Speakers will be muted when the Headphones are plugged in.

7.6
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.
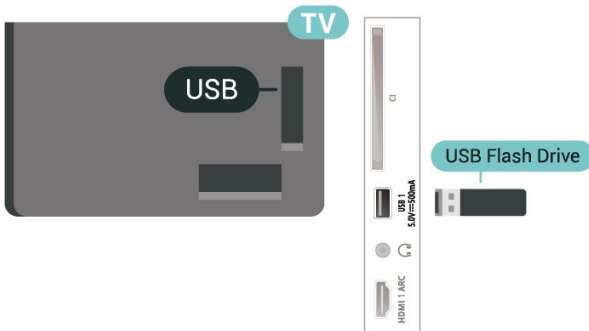
To view the files from the USB flash drive, you need to add the MMP (MultiMediaPlayer) app to the Home screen first. Press **Home**, clicking the Apps icon at the left end of the Apps row. You can add MMP apps from the Apps page.

To stop watching the USB flash drive content, press **EXIT** or select another activity. Exit the MMP app before you disconnect the flash drive.

To remove the USB flash drive safely…

1 - Press **HOME**.
2 - Select the **Notifications** icon from the top-right corner and press **OK**.
3 - Select your flash drive and press **OK**.

4 - Select **Eject** and press **OK**.
5 - Wait until the eject procedure is finished and then pull out the flash drive.

Ultra HD on USB

You can view photos in Ultra HD resolution from a connected USB device or flash drive. The TV will downscale the resolution if the resolution of the photo is higher.

8
Bluetooth

8.1
What You Need

You can connect a wireless device with Bluetooth® to this TV – a wireless speaker or headphones*.

To play the TV sound on a wireless speaker, you must pair the wireless speaker with the TV. The TV can only play the sound on one speaker at a time.

Attention – Audio to Video synchronisation

Many Bluetooth speaker systems have a high, so called, 'latency'. High latency means that the audio lags behind the video, causing unsynchronised 'lip sync'. Before you purchase a wireless Bluetooth speaker system, inform yourself about the newest models and look for a device with a low latency rating. Ask your dealer for advice.

* Note: The Bluetooth on TV may not work properly with cable free true wireless headphones.

8.2
Pairing a Device

Position the wireless speaker within a distance of 5 meters from the TV. Read the user manual of the device for specific information on pairing and on wireless range. Make sure the Bluetooth setting on TV is switched on.

Once a wireless speaker is paired, you can select it to play the TV sound. When a device is paired, you do not need to pair it again unless you remove the device.

To pair a bluetooth device with the TV…

1 – Switch on the bluetooth device and place it within range of the TV.
2 – Press MENU > TV
options > Settings > Remote & Accessories and press OK.
3 – Follow the instructions on screen. You will pair the device with the TV and the TV will store the connection. You might need to unpair a paired device first if the maximum number of paired devices was reached.
4 – Press Back, repeatedly if necessary, to close the menu.

8.3
Select a Device

To select a wireless device…

1 – Press MENU > TV
options > Settings > Remote & Accessories and press OK.
2 – In the list, select the wireless device and press OK.
3 – Press Back, repeatedly if necessary, to close the menu.

8.4
Rename a Device

To rename a wireless device…

1 – Press MENU > TV
options > Settings > Remote & Accessories and press OK.
2 – In the list, select the wireless device and press OK.
3 – Select Change name and press   OK.
4 – Enter a new name for the device.
5 – Press Back, repeatedly if necessary, to close the menu.

8.5
Remove a Device

You can connect or disconnect a wireless Bluetooth device. You can also remove a wireless Bluetooth device. If you remove a Bluetooth device, the device will be unpaired.

To remove or disconnect a wireless device…

1 – Press MENU > TV
options > Settings > Remote & Accessories and press OK.
2 – In the list, select the wireless device and press OK.
3 – Select Unpair and press OK.
4 – Press Back, repeatedly if necessary, to close the menu.

Connect your Android TV

9.1

Network and Internet

Home Network

To enjoy the full capabilities of your Philips Android TV, your 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.

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

MENU > TV options > Settings > Network & internet > Wi-Fi.

Make the Connection

MENU > TV options > Settings > Network & internet > Wi-Fi.

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 - Follow the on-screen instruction.
3 - A message will be shown when the connection is successful.

Problems

Wireless network not found or distorted
· Microwave ovens, DECT phones or other Wi-Fi 802.11b/g/n devices in your proximity might disturb the wireless network.
· Make sure that 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.

Wired Connection

What You Need

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.
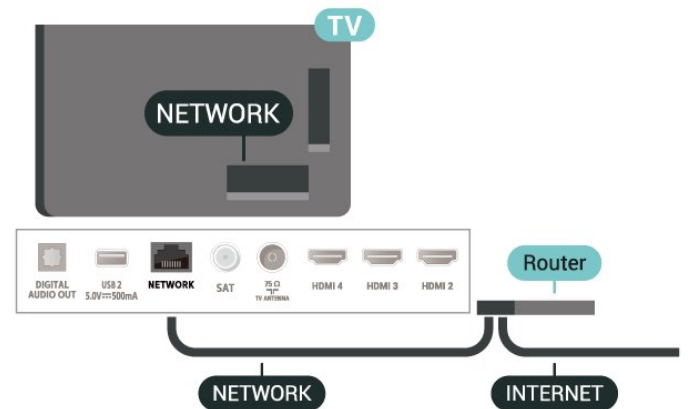
Make the Connection

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.

Network Settings

Proxy settings

MENU >   TV options >   Settings >   Network & internet >   Proxy settings.

Enter a valid proxy hostname manually by selecting Manual.

Network Configuration – IP settings

MENU >   TV options >   Settings >   Network & internet >   IP settings.

If the connection fails, you can check the DHCP setting of the router.
Alternatively, if you are an advanced user and want to install your network with static IP addressing, set the TV to Static IP.

9.2

Google Account

Sign In

To enjoy the full capabilities of your Philips Android TV, you can sign in to Google with your Google Account.

By signing in you'll be able to play your favourite games across phone, tablet and TV. You'll also get customized video and music recommendations on your TV home screen as well as access to YouTube, Google Play and other apps.

Sign In

Use your existing Google Account to sign in to Google on your TV. A Google Account consists of an email address and a password. If you don't have a Google Account yet, use your computer or tablet to create one (accounts.google.com). To play games with Google Play, you need a Google+ profile. If you did not sign in during the first TV installation, you can always sign in later.

To sign in after you did the TV installation…

1 – Select Settings.
2 – Select Account & Sign-In and press OK.
3 – Select Sign In and press   OK.

4 – Select Use your remote and press OK.
5 – With the on-screen keyboard, enter your email address and press OK.
6 – Enter your password and press OK to sign in.
7 – Press Navigation keys left repeatedly if necessary, to close the menu.

Android Settings

You can set or view several Android specific settings or information. You can find the list of apps installed on your TV and the storage space they need. You can configure the onscreen keyboard or allow apps to use your location. Explore the different Android settings. You can go
to www.support.google.com/androidtv for more information on these settings.

To open these settings…

1 – Select Settings and press   OK.
2 – Explore the different Android settings.
3 – Press Back if necessary, to close the menu.

Apps

10.1

About Apps

You can find your favourite Apps on **Apps** row in the Home menu.

Like apps on your smartphone or tablet, the apps on your TV offer specific functions for an enriched TV experience. Apps like YouTube, games, video stores or weather forecasts (a.o.).

Apps can come from the **Google Play™ Store** . To get you started, some practical apps are pre-installed on your TV.

To install apps from the **Google Play™ Store** , the TV must be connected to the Internet. You must sign in with a Google Account to use the Google Play apps and Google Play™ Store .

10.2

Google Play

Movies and TV

With **Google Play Movies & TV** , you can rent or buy movies and TV shows to watch on TV.

What You Need
· your TV must be connected with the Internet
· you must sign in with your Google Account on TV
· add a credit card to your Google Account to purchase movies and TV shows

To rent or buy a movie or TV show…

1 – Press **Home**.
2 – Select **Google Play Movies & TV**.
3 – Select a movie or TV show and press **OK**.
4 – Select the purchase you want and press **OK**. You will be taken through the purchase procedure.

To watch a rented or bought movie or TV show…

1 – Press **Home**.
2 – Select **Google Play Movies & TV**.
3 – Select the movie or TV show from your library in the app, select the title and press **OK**.
4 – You can use the **Stop**, **Pause**, **Rewind** or **Fast forward** keys on the remote control.
5 – To stop the Movies & TV app, press **Back** repeatedly or press **EXIT**.

If the App is not on you Home screen, you can add via the Apps page or by the **Add app to favourites** item on the **Apps** row. Some Google Play products and features aren't available in all countries.

Find more information on www.support.google.com/androidtv

Music

With YouTube Music you can play your favourite music on TV and buy new music on your computer or mobile device. Or, on your TV, you can sign up for All Access, the YouTube Music subscription. Alternatively, you can play the music you already own, stored on your computer.

What You Need
· your TV must be connected with the Internet
· you must sign in with your Google Account on TV
· add a credit card to your Google Account to take a music subscription

To start YouTube Music…

1 – Press **Home**.
2 – Select **YouTube Music**.
3 – Select the music you want and press **OK**.
4 – To stop the Music app, press **Back** repeatedly or press **EXIT**.

If the App is not on you Home screen, you can add via the Apps page or by the **Add app to favourites** item on the **Apps** row. Some Google Play products and features aren't available in all countries.

Find more information on www.support.google.com/androidtv

Games

With Google Play Games, you can play games on TV. Online or offline.

You can see what your friends are playing currently or you can join the game and compete. You can track your achievements or start wherever you left off.

What You Need
· your TV must be connected with the Internet
· you must sign in with your Google Account on TV
· add a credit card to your Google Account to purchase new games

Start the Google Play Games app to select and install new game apps on your TV. Some games are free of charge. A message appears if a particular game needs a gamepad to play the game.

To start or stop a Google Play Game…

1 – Press **Home**.
2 – Select **Google Play Games**.
3 – Select a game to play or select a new game to install and press **OK**.
4 – When done, press **Back** repeatedly or press **EXIT** or stop the app with its dedicated

exit/stop button.

If the App is not on you Home screen, you can add via the Apps page or by the **Add app to favourites** item on the **Apps** row. Some Google Play products and features aren't available in all countries.

Find more information
on www.support.google.com/androidtv

Google Play Store

From the Google Play Store you can download and install new apps. Some apps are free of charge.

What You Need
· your TV must be connected with the Internet
· you must sign in with your Google Account on TV
· add a credit card to your Google Account to purchase apps

To install a new app…

1 – Press **Home**.
2 – Select **Google Play Store** and press **OK**.
3 – Select the app you want to install and press **OK**.
4 – To close the **Google Play Store**,
press **Back** repeatedly or press EXIT.

Parental controls

In the Google Play Store, you can hide apps according to users/buyers maturity. You need to enter a PIN code to select or change the level of maturity.

To set the parental control…

1 – Press **Home**.
2 – Select **Google Play Store** and press OK.
3 – Select Settings > Parental controls.
4 – Select the level of maturity you want.
5 – On request, enter the PIN code.
6 – To close the **Google Play Store**,
press **Back** repeatedly or press EXIT.

If the App is not on you Home screen, you can add via the Apps page or by the **Add app to favourites** item on the **Apps** row. Some Google Play products and features aren't available in all countries.

Find more information
on www.support.google.com/androidtv

Payments

To make a payment on Google Play on TV, you must add a form of payment – a credit card (outside the United States) – to your Google Account. When you purchase a movie or TV show, you will be charged on this credit card.

To add a credit card …

1 – On your computer, go to accounts.google.com

and sign in with the Google Account you will use with Google Play on TV.
2 – Go to wallet.google.com to add a card to your Google Account.
3 – Enter your credit card data and accept the terms and conditions.

10.3
Start or Stop an App

You can start an app from the Home screen.

To start an app…

1 – Press **Home**.
2 – Move to **Apps** row, select the app you want and press **OK**.
3 – To stop an app, press **Back** or press EXIT or stop the app with its dedicated exit/stop button.

When opening the Home screen, the background application/content playback will stop. You have to select the application or content from the Home screen to resume.

A note to start the Live TV app
If you have installed the Live TV app on Home screen, please note that the HDMI sources are regard as App's sources. When the Live TV app is started, it will open with current source, which includes TV and HDMI sources.

10.4
Manage Apps

If you stop an app and return to the Home menu, the app is not really stopped. The app is still running in the background to be readily available when you start it again. To run fluently, most apps need to save some data in the cache memory of the TV. It might be good to stop an app completely or clear the cache data of a particular app to optimise the overall performance of apps and to keep memory usage low on your Android TV. Also, it is best to uninstall apps that you are not using anymore.

Sources

11.1
Switch to a device

From the list of Sources, you can switch to any of the connected devices. You can switch to a tuner to watch TV or switch to your connected devices to watch their programme, a digital receiver or a Blu-ray Disc player.

To switch to a connected device…

1 - Press **SOURCES** to open the Sources menu.
2 - Select one of the item in the source list and press **OK**. The TV will show the programme or content of the device.

One Touch Play

With the TV in standby, you can switch on a disc player with your TV remote control.
To switch on both disc player and TV from standby and start playing the disc immediately, press **Play** on the TV remote control. The device must be connected with an HDMI cable and both TV and device must have HDMI CEC switched on.

12

Settings

12.1

Picture Settings

Picture Mode

Select a style

MENU > TV options > Picture > Picture mode.

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

· User – The picture preferences you set during the first start up.
· Standard – Most energy conscious setting – Factory setting
· Vivid – Ideal for daylight viewing
· Sport – Ideal for sport
· Movie – Ideal for watching movies with original studio effect
· Game* – Ideal for playing games
· Energy saving – Ideal for saving energy

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

When TV receives Dolby Vision HDR signal, select a picture style below:

· Dolby Vision Bright
· Dolby Vision Dark
· Dolby Vision Vivid

Dolby Vision Notification

MENU > TV options > Picture > Dolby Vision Notification and press OK.

Switch On or Off the Dolby Vision notification when Dolby Vision content begins to play on your TV.

Display Mode

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…

MENU > TV options > Picture > Display mode.

Automatic

Automatically zooms in the picture to fit the screen with original aspect ratio. No content lost visible.

Super zoom

Remove the black bars on the sides of 4:3 broadcasts. Not recommended for HD or PC.

4:3

Display the classic 4:3 format.

Movie expand 14:9

Scale 4:3 format to 14:9. Not recommended for HD or PC.

Movie expand 16:9

Scale 4:3 format to 16:9. Not recommended for HD or PC.

Wide screen

Stretches the picture to a 16:9 format.

Full

Automatically enlarges the picture to fill the screen. Picture distortion is minimal, subtitles remain visible. Not suitable for PC input. Some extreme picture content can still show black bars. Picture content aspect ratio may change.

Unscaled

Provide maximum detail for PC.

Other Picture Settings

MENU > TV options > Picture and press OK.

Backlight

Adjust the video backlight intensity.

Brightness

Set the level of brightness of the picture signal.

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

Contrast

Adjust the contrast value of the picture.

Saturation

Adjust the colour saturation value of the picture.

HUE

Adjust the hue value of the picture.

Sharpness

Adjust the level of sharpness in fine detail of the picture.

Gamma

Set a non-linear setting for picture luminance and contrast. This is a setting intended for expert users.

Colour Temperature

Set the picture to a preset colour temperature or adjust the setting yourself.

Advanced video

Set the advance settings.

• DNR
Digital Noise Reduction, image noise reduction filters to reduces the image noise.
• MPEG NR
MPEG Noise Reduction feature to improve the quality of pictures by reducing the noise without compromising the picture resolution.
• Adaptive Luma Control
Dynamic video contrast enhancement to adjust the Luma level of the picture signal automatically. If the PC Mode setting is On, this feature will be off.
• Local Contrast Control
Enhance the contrast level in local area for the image.
• Game Mode
Switch TV to Game mode to have fast response time.
• PC Mode
Switch TV to PC mode to have original picture look.
• HDMI Auto Game Mode
Allow TV to automatically switch to Game mode when the game content is notified by source.

Colour Tuner

Fine tune the colour setting yourself.

11 Point White Balance Alignment

Customize the whitepoint balance based on the selected colour temperature of the picture.

Reset to Default

Reset the current picture settings to default.

12.2
Sound Settings

Sound Mode

MENU >   TV options > Sound > Sound Mode > and press OK.

For easy sound adjustment, you can select a preset setting with sound mode.

• Game – Ideal for gaming
• Movie – Ideal for watching movies
• Music – Ideal for listening to music
• News – Ideal for speech
• AI mode – Select AI mode for intelligent switching of sound mode base on audio content.
• User – The sound preferences you set during the first start up

Other Sound Settings

MENU >   TV options > Sound and press OK.

Speakers

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 External audio system, you permanently switch off the TV speakers.
• If you select TV speakers, the TV speakers are always on.

* Note: TV Speakers will be muted when the Headphones are plugged in.

Digital Output

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

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

Digital Output Delay

For some Home Theatre Systems you might need to adjust the audio sync delay to synchronise the audio to the video. Select 0 if a sound delay is set on your Home Theatre System.

DTS night mode

Select DTS night Mode for a more comfortable quiet listening experience when watching content with DTS Master Audio.

Dolby audio processing

Set the advance settings.

• Volume Leveler: select On to adjust the volume automatically.
• Dialogue Enhancer: select to get an improved sound quality for speech programme.
• Surround Virtualizer: select On to create a virtual surround sound experience.
• Dolby Atmos: select On to enable Dolby Atmos, which can add height dimension in sound. With height dimension, sound can be precisely placed and moved in three–dimensional space.

Reset to Default

Reset the current sound settings to default.

12.3
Power Settings

MENU > TV options > Power.

Set Sleep timer

Power > Sleep timer.

TV switches to standby mode automatically after a preset time.

Set screen off to save energy consumption

Power > Picture off.

Select Picture 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

Power > Switch off timer.

Select Switch off timer, the TV switches off automatically at a preset time to save energy.

No signal auto power off

Power > No signal auto power off.

Press **Navigation keys** up or down to set the value. Select Off to deactivate the automatic switch off.

* 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 Off.

Set auto sleep timer

Power > Auto sleep.

TV switches to sleep mode automatically after a preset time if the TV does not receive any command from remote control.

Switch On/Off the light sensor

Power > Light sensor.

Select On to adjust the picture settings automatically to the lighting conditions of the room.

12.4
Advanced Options

Audio

Set audio preference language

MENU > TV options > Advanced Options > Audio Language/Primary Audio/Secondary Audio or Audio Channel.

The 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.

Blue Mute

MENU > TV options > Advanced Options > Blue Mute.

Switch the blue mute on or off.

Interaction Channel

MENU > TV options > Advanced Options > Interaction Channel.

Switch the interaction channel on or off. Interaction channel provides interactive services from broadcaster via broadcast transmission or IP connection.

MHEG PIN Protection

MENU > TV options > Advanced Options > MHEG PIN Protection.

Set to turn on or off the Pin protection of MHEG feature. If it is turned on, a PIN dialogue will ask to enter the PIN code before starting the service.

HBBTV Settings

MENU > TV options > Advanced Options > HBBTV settings.

Switch on HbbTV

HBBTV settings > On.

Set the HbbTV History Tracking

HBBTV settings > Do Not Track.

Set the options according to your preference.

Set the HbbTV Cookies

HBBTV settings > Cookie Settings.

Set the options according to your preference.

Set other options

HBBTV settings > Persistent Storage, Block Tracking Sites, or Device ID.

Select one of the options and switch it to on or off.

Reset HbbTV Device ID

HBBTV settings > Reset Device ID.

You can reset your TV unique device identifier. A new identifier will be created. This will replace your Device ID with a new identifier.

Freeview Play Settings

MENU >   TV options >   Advanced Options > Freeview Play Settings.

Switch the Freeview Play* on or off. To enjoy   Freeview Play, you need to connect your TV to Internet first.

Freeview Play offers:

· Watch TV programmes you missed from the last seven days.
· Watch live TV and on demand, all in one place without entering an app, you can search Freeview Play programmes in TV Guide.
· Watch over 70 standard channels and upto 15 HD channels.
· Enjoy on demand services like BBC iPlayer, the ITV Hub, All 4, Demand 5, BBC NEWS and BBC SPORT.
· There are no contracts and no monthly costs, you're in control.

For detail, please visit: https://www.freeview.co.uk

* Freeview Play is only for UK models.

Subtitle

MENU >   TV options >   Advanced Options >   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.

Press   SUBTITLE key on the remote control to display the subtitle page.

Teletext

MENU >   TV options >   Advanced Options >   Teletext.

Some digital TV broadcasters have several Text languages available. To open Text/Teletext press   TEXT, while you are watching TV channels. Press TEXT for second time will open the dual screen mode. Press TEXT again on dual screen mode to leave the Teletext screen.

Text language and decoding

To set your Text language . . .

1 – Select   MENU >   TV options >   Advanced Options > Teletext and press   OK.
2 – Select   Digital Teletext Language to set the Text language settings.
3 – Select Decoding Page Language to set the language decoding.
4 – On your preferred languages settings, press OK to set.
5 – Press   Back, repeatedly if necessary, to close the menu.

TTX Presentation Level

If available, Level 2.5 offers more colours and better graphics.

To switch between Level 2.5 and Level 1.5 . . .

1 – Select   MENU >   TV options >   Advanced Options > Teletext > TTX Presentation Level and press OK.
2 – Select the level from TTX Presentation Level and press OK to set.
3 – Press   Back, repeatedly if necessary, to close the menu.

System information

MENU >   TV options >   Advanced Options >   System information.

To check the system information, including Signal level, Frequency, Service ID, and etc.

Other settings

Device Preferences

Home > Settings > Device Preferences.

System update

Update TV software from local update or from the Internet.

About

To show the information about this TV or perform Factory reset operation for the TV.

Date & time

Adjust the date and time settings.

Timer

Set TV switch on or off timer.

Language

Set or change the menu language.

Keyboard

Set the on-screen keyboard type.

Inputs

Rename the Inputs name and adjust the settings for Consumer Electronic Control (CEC).

Power

Set the timers for saving energy.

Picture

Adjust the picture settings.

Sound

Adjust the sound settings.

Ambilight

Adjust the Ambilight settings.
* Ambilight setting is only for models which support Ambilight function.

Storage

Check the device storage.

Home screen

Customize the home screen. You can enable or disable the video and audio previews. Reorder the apps and games. Read the Open-source licenses.

Retail mode

Switch **On** or **Off** the retail mode. If you set the retail mode to on. You can set the retail message type and demo.

Google Assistant

Adjust the settings for Google Assistant. You can also view the Open-source licenses.

Chromecast built-in

Adjust the settings for Chromecast built-in. You can view the Open-source licenses and the version number.

Screen saver

Adjust the screen saver setting for your preference.

Location

Set the location status.

Usage & Diagnostics

Set to on for automatically send diagnostic information to Google, such as crash reports and usage data from your device, apps and Chromecast built in.

Accessibility

Activate special functions for hearing and visually impaired people.

Reboot

Reboot your TV for better performance when needed.

Remote and Accessories

Home > Settings > Remote and Accessories.

You can select the stored bluetooth connection from the list.

If you cannot find your accessory, select **Add accessory** to search for bluetooth connections.

12.6
Reboot

Home > Settings > Device Preferences > Reboot.

Note:
· Disconnect the external USB hard disc before rebooting.
· Wait for few seconds, the TV restart automatically.

This will remove unnecessary data and information in the memory.

If your TV runs low performance when using Apps, such as the video and audio are not synchronised or the App is running slow, reboot your TV for better performance.

12.7
Factory Reset

Reset all settings value to original TV settings

Home > Settings > Device Preferences > About > Factory reset.

This will erase all data from your device's internal storage, including: your Google account, system app data, download apps, and settings. All settings will be reset and installed channels will be erased.

12.8
Clock and Language Settings

Menu Language

Change the language of the TV menu

Home > Settings > Device Preferences > Language.

1 – Press **Home** to go to Home screen.
2 – Select **Device Preferences** > Language.
3 – Select your language and press OK.
4 – Press Back or **EXIT** repeatedly to close the menu.

Audio Language

Set audio preference language

MENU > TV options > Advanced Options > Audio Language/Primary Audio/Secondary Audio or Audio Channel.

The 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.

Subtitle Language

Digital broadcasts can have subtitles for their programmes.

Set subtitle preference language

MENU > TV options > Advanced Options > 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.

Press SUBTITLE key on the remote control to display the subtitle page.

Set the subtitle language settings
· Digital Subtitle
· Subtitle Tracks
· Digital Subtitle Language
· 2nd Digital Subtitle Language
· Subtitle Type

Set teletext preference language

MENU > TV options > Advanced Options > Teletext.

Some digital TV broadcasters have several Text languages available.

Clock

Home > Settings > Device Preferences > Date & time.

Correct clock automatically

Automatic date & time > Use network-provided time.

· The standard setting for the TV clock is automatic. The time information comes from the broadcasted

UTC – Coordinated Universal Time information.

Correct clock manually

Automatic date & time > Off.

Select **Set date** and **Set time** to adjust the value.

Note:

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

Set time zone or set a time offset for your region

Date & time > **Set time zone**.

Select the time zone of your preference.

Set the time format to 24-hour

Date & time > **Use 24-hour format**.

Enable to show the system time in 24-hour format, else show in 12-hour format time.

Timer

Set TV switch on or off timer

Home > **Settings** > **Device Preferences** > **Timer**.

Set **Power on time type** or **Power off type** to **On** or **Once**.

12.9
Accessibility Settings

The TV is prepared for use of the deaf, hard of hearing, blind or partially sighted people.

Accessibility for blind or partially sighted people

Home > **Settings** > **Device Preferences** > **Accessibility** > **Audio Type**.

Digital TV channels can broadcast special audio commentary describing what is happening on screen. You can set the audio type with below settings.

・Normal
・Audio Description
・Spoken Subtitle
・Hearing Impaired
・Audio Description and Spoken Subtitle

Visually Impaired

When Audio Description is on, more Visually Impaired options are available. Set the speaker, headphone

volume of the normal audio with the audio commentary or set the extra audio effects in the commentary audio. You can adjust th effect with below settings.

・Speaker
・Headphone
・Volume
・Pan and Fade
・Audio for Visually Impaired
・Fader Control

AC4 Dialogue Enhancement

Turn on/off or set the level of dialogue enhancement to increase the intelligibility of dialogue and commentary when the audio stream is AC4 type.

13

Ambilight

13.1

Ambilight Style

You can set Ambilight to follow the video dynamics of a TV programme. Alternatively, you can set Ambilight to show a preset colour style or you can switch Ambilight off.

Follow Video

If you select **Follow Video**, you can select one of the styles that follow the dynamics of the picture on your TV screen.

To set the Ambilight Style…

1 – Press **ambilight** key.
2 – **Enable** the Ambilight.
3 – You can select from **Follow Video** and **Lounge light** styles.
4 – Select the style you want and press **OK**.

The available **Follow Video** styles are…

· **Standard** – Ideal for day to day TV watching
· **Natural** – Follows the picture or sound as truthful as possible
· **Sports** – Ideal for sports programme
· **Vivid** – Ideal for daylight conditions

· **Game** – Ideal for gaming

The available **Lounge light** styles are…

· **Hot Lava** – Red colour variations
· **Deep Water** – Blue colour variations
· **Fresh Nature** – Green colour variations
· **Warm white** – Static colour
· **Cool white** – Static colour
· **Custom colour** – Static colour of your choice. To set the colour for Ambilight static light, go to **Home** > **Settings** > **Device Preferences** > **Ambilight** > **Custom colour** and pick a colour you like.

13.2

Custom colour

Custom colour

Home > **Settings** > **Device Preferences** > **Ambilight** > **Custom colour**.

To set the colour for Ambilight static light of your choice. You can pick a colour you like from the colour palette.

To set the colour for Ambilight static light…

1 – Press **ambilight** key.

2 – **Enable** the Ambilight.
3 – Set Ambilight style to Custom colour.
4 – Go to **Home** > **Settings** > **Device Preferences** > **Ambilight** > **Custom colour** to pick a colour.
5 – Select a colour you want and press **OK**.

13.3

Brightness and Saturation

Adjust the Ambilight brightness

Home > **Settings** > **Device Preferences** > **Ambilight** > **Brightness**.

When Ambilight is enabled, press the arrows right or left to set the level of Ambilight brightness.

Adjust the Ambilight saturation

Home > **Settings** > **Device Preferences** > **Ambilight** > **Saturation**.

When Ambilight is enabled, press the arrows right or left to set the level of Ambilight saturation.

13.4

Wall Colour Behind the TV

Set the wall colour behind the TV

Home > **Settings** > **Device Preferences** > **Ambilight** > **Wall colour behind the TV**.

You can select your wall colour to compensate Ambilight colours so that the perceived Ambilight colours are correct again.

13.5

TV Switch Off

Set the wall colour behind the TV

Home > **Settings** > **Device Preferences** > **Ambilight** > **TV switch Off**.

Select **Fade out** or **Immediate** to let the Ambilight slowly fade out or turn off immediately when TV is switching off.

14
Videos, Photos, Music & Text

14.1
From a USB Connection

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

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

1 – Press **Home**, select **MMP** from the Apps list and press **OK**.
2 – Use **Navigation keys** to select the file type.
3 – Follow the on-screen instructions to play the files.

14.2
Play your Videos

Play a video
1 – Press **Home**, select **MMP** from the Apps list and press **OK**.
2 – Use **Navigation keys** to select **Video**.
3 – Select one of the videos, and press **OK** to play.

During the video playback...
· Press **MENU** to show the options.

Play, Pause

Press **OK** to play or pause the video.

Repeat

Play videos repeatedly or once.

Show Info

Display the information of the video file.

Display Mode

Adjust the display mode.

Picture

Adjust the picture settings.

Sound

Adjust the sound settings.

Sound Tracks

Display the soundtracks.

Last Memory

When set to **On**, you can play the video where you left last time. Set to **Off** to turn off the function.

14.3
View your Photos

View Photos

View a photo
1 – Press **Home**, select **MMP** from the Apps list and press **OK**.
2 – Use **Navigation keys** to select **Photo**.
3 – Select one of the photos, and press **OK**.

When browsing photo thumbnails, press **MENU** to...

Sort

Sort the photo files by your preference.

Media type

Sort the files by media type.

Thumbnail size

Change the thumbnail viewing size.

Copy

Copy the file and place it to your prefered folder.

Paste

Place the copied file to your prefered folder.

Delete

Delete the selected file.

Recursive parser

Select from the **Recursive parser** or **Normal parser**.

Photo Frame

Select to start the Photo Frame mode.

Photo Options

When viewing photo files, press **MENU** to...

Pause

Press **OK** to pause the photos.

Repeat

View the pictures repeatedly or once only.

Shuffle on, Shuffle off

View the pictures in sequential order, or at random.

Duration

Set the speed of the slideshow.

Effect

Set the transition from one picture to the next.

Show info

Display the information of the picture file.

Photo Frame image

Set the picture as Photo Frame image.

Picture

Adjust the picture settings.

14.4

Play your Music

Play music
1 – Press **Home**, select **MMP** from the Apps list and press **OK**.
2 – Use **Navigation keys** to select **Audio**.
3 – Select one of the audio, and press **OK** to play.

During the audio playback...
· Press **MENU** to show the options.

Play, Pause

Press **OK** to play or pause the video.

Repeat

Play videos repeatedly or once.

Shuffle On, Shuffle Off

Play audio in sequential order, or at random.

Show Info

Display the information of the video file.

Lyric Options

Select the options when the lyrics are available.

Picture Off

Close the screen when play the music for energy saving.

Sound

Adjust the sound settings.

14.5

View your Text

View text
1 – Press **Home**, select **MMP** from the Apps list and press **OK**.
2 – Use **Navigation keys** to select **Text**.
3 – Select one of the text file, and press **OK** to preview.

During the preview...
· Each file lasts 3 seconds for preview. Press **OK** to pause the preview to read.
· Press **MENU** to show the options.

Play, Pause

Press **OK** to play or pause the text file preview.

Repeat

Preview the text files repeatedly or once.

Shuffle On, Shuffle Off

Preview the text files in sequential order, or at random.

Font

Adjust the text **Size**, **Style**, and **Colour**.

Show Info

Display the information of the text file.

15

TV Guide

15.1

TV Guide Data

With the TV Guide you can view a list of the current and scheduled TV programmes of your channels. Not all channels offer TV Guide information.

The TV Guide receives information (data) from broadcasters. The TV can collect TV Guide information for the channels that are installed on the TV. The TV cannot collect the TV Guide information for channels viewed from a digital receiver or decoder.

15.2

Using the TV Guide

To open the TV Guide, press **TV GUIDE** key on the remote control. The TV Guide shows the channels of the selected tuner. Press **TV GUIDE** again to close

Alternately, while watching TV, press **MENU** > **Navigation keys up** > **Channels** > **Program Guide** to open the TV Guide.

The TV Guide receives information (data) from broadcasters. In some regions and for some channels, TV Guide information might not be available.

Smartphones and Tablets

16.1
Google Cast

What You Need

If an app on your mobile device has Google Cast, you can cast your app on this TV. On the mobile app, look for the Google Cast icon. You can use your mobile device to control what's on TV. Google Cast works on Android and iOS.

Your mobile device must be connected to the same Wi-Fi home network as your TV.

Apps with Google Cast

New Google Cast apps come available every day. You can already try it with YouTube, Chrome, Netflix, Photowall … or Big Web Quiz for Chromecast. See also google.com/cast

Some Google Play products and features aren't available in all countries.

Find more information on www.support.google.com/androidtv

Cast to Your TV

To cast an app to the TV screen…

1 – On your smartphone or tablet, open an app that supports Google Cast.
2 – Tab the Google Cast icon.
3 – Select the TV you would like to cast to.
4 – Press play on your smartphone or tablet. What you selected should start playing on TV.

Freeview Play

To enjoy **Freeview Play***, you need to connect your TV to Internet first.

Freeview Play offers:

· Watch TV programmes you missed from the last seven days.
· Watch live TV and on demand, all in one place without entering an app, you can search Freeview Play programmes in TV Guide.
· Watch over 70 standard channels and upto 15 HD channels.
· Enjoy on demand services like BBC iPlayer, the ITV Hub, All 4, Demand 5, BBC NEWS and BBC SPORT.
· There are no contracts and no monthly costs, you're in control.

For detail, please visit: https://www.freeview.co.uk

* Freeview Play is only for UK models.

Netflix

If you have a Netflix membership subscription, you can enjoy Netflix on this TV. Your TV must be connected to the Internet. In your region, Netflix might only come available with future software updates.

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

www.netflix.com

19

Software

19.1
Update Software

Local Updates

You need a computer with an high-speed Internet connection and a USB flash drive to upload the software on the TV. Use a USB flash drive with at least 2GB free space. Make sure that write protection is switched off.

1 – Press **Home** > **Settings** > **Device Preferences** > **System update** > **Local Updates** and press **OK**.
2 – Follow the instructions on screen.

Update from Internet

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.

1 – Press **Home** > **Settings** > **Device Preferences** > **System update** > **Internet** and press **OK**.
2 – Follow the instructions on screen.

19.2
Software Version

To view the current TV software version...

1 – Select **Home** > **Settings** > **Device Preferences** > **About** > **Software version**.
2 – The version, release notes and creation date are shown. Also, the Netflix ESN Number is shown if available.
3 – Press **Back** if necessary, to close the menu.

19.3
Open Source Licenses

To view the Open-source licenses...

1 – Select **Home** > **Settings** > **Channel**, or select **Home** > **Settings** > **Device Preferences** > **Google Assistant**.
2 – Select **Open-source licences** and press **OK**.
3 – Press **Back** if necessary, to close the menu.

Specifications

20.1
Environmental

European Energy Label

The **European Energy Label** informs you on the energy efficiency class of this product. The greener the energy efficiency class of this product is, the lower the energy it consumes.
On the label, you can find the energy efficiency class, the average power consumption of this product in use and the average energy consumption per 1000 hours. You can also find the power consumption values for this product on the Philips website for your country at www.philips.com/TVsupport.

EPREL Registration Number

EPREL registration number

43PUS7906 : 441226
50PUS7906 : 459655
55PUS7906 : 559293
65PUS7906 : 559308

43PUS7956 : 441327
50PUS7956 : 459729
55PUS7956 : 559303
65PUS7956 : 559313

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.

UK Declaration of Conformity

Hereby, TP Vision Europe B.V. declares that this television is in compliance with the essential requirements and other relevant provisions of Directives Radio Equipment Regulations 2017 and the Ecodesign for Energy-Related Products and Energy Information (Amendment) (EU Exit) Regulations 2019 and the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012.

20.2
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
• Power saving features : Sleep timer, Switch off timer,

Picture off, No Signal Auto Power Off, Auto sleep.

For power consumption information, see chapter **Product Fiche**.

20.3
Operating System

Android OS:

Android 10

20.4
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), HEVC
· Digital audio playback (ISO/IEC 13818-3)
· Satellite aerial input : 75 ohm F-type
· Input frequency range : 950 to 2150MHz
· Input level range : 25 to 65 dBm
· DVB-S/S2 QPSK, symbol rate 2 to 45M symbols, SCPC and MCPC
· LNB : Unicable 1/2, DiSEqC 1.0, 1 to 4 LNBs supported, Polarity selection 13/18V, Band selection 22kHz, Tone burst mode, LNB current 300mA max

20.5
Display Type

Diagonal screen size
· 43PUS79x6: 108 cm / 43 inch
· 50PUS79x6: 126 cm / 50 inch
· 55PUS79x6: 139 cm / 55 inch
· 65PUS79x6: 164 cm / 65 inch
· 70PUS79x6: 177 cm / 70 inch

Display resolution
· 3840 x 2160

20.6
Display Input Resolution

Supported Video only resolution

Resolution — Refresh rate

· 480i – 60 Hz
· 576i – 50 Hz
· 1080i – 50 Hz, 60 Hz

Supported Computer/Video resolution

Resolution — Refresh rate

· 640 x 480 - 60Hz
· 576p - 50Hz
· 720p - 50 Hz, 60 Hz
· 1920 x 1080 - 24 Hz, 25 Hz, 30 Hz, 50 Hz, 60 Hz
· 2560 x 1440 - 60 Hz
· 3840 x 2160p - 24 Hz, 25 Hz, 30 Hz, 50 Hz, 60 Hz

20.7
Connectivity

TV Side
· Common Interface slot: CI+/CAM
· USB 1: USB 2.0
· Headphones: Stereo mini-jack 3.5mm
· HDMI 1 in: ARC – Ultra HD – HDR

TV Bottom
· Digital Audio out: Optical
· USB 2: USB 2.0
· Network LAN: RJ45
· Satellite tuner
· Antenna (75 ohm)
· HDMI 2 in: Ultra HD – HDR
· HDMI 3 in: Ultra HD – HDR
· HDMI 4 in: Ultra HD – HDR

20.8
Sound

Output power (RMS) : 20W
Dolby MS12 V2.5
· Dolby Atmos
· DTS – HD (M6)
· Surround Virtualizer + Height Virtualizer
· Dolby Bass Enhancement
· Dolby Dialogue Enhancement
· Dolby Volume (AVL/Night Mode)
· AI Sound
· AI EQ

20.9
Multimedia

Connections
· USB 2.0
· Ethernet LAN RJ-45
· Wi-Fi 802.11n Dual Band (built-in)
· BT 5.0

Supported USB file systems
· FAT 16, FAT 32, NTFS

Playback formats
· Containers: PS, TS, M2TS, TTS, AVCHD, MP4, M4V,

MKV, ASF, AVI, 3GP, Quicktime
・Video Codecs : AVI, MKV, HEVC, H264/MPEG-4
AVC, MPEG-1, MPEG-2, MPEG-4, VP9, HEVC (H.265),
AV1
・Audio Codecs : MP3, WAV, AAC, WMA (v2 up to
v9.2), WMA-PRO (v9 and v10)
・Subtitles :
– Formats : SRT, SMI, SSA, SUB, ASS, TXT
– Character encodings : UTF-8(Unicode), UTF-16,
Simplified Chinese, Central Europe, Cyrillic, Western
Europe, Greek, Turkish, Hebrew, Korean
・Maximum Supported Data Rate :
– MPEG-4 AVC (H.264) is supported up to High
Profile @ L5.1. 30Mbps
– H.265 (HEVC) is supported up to Main / Main 10
Profile up to Level 5.1 40Mbps
・Image Codecs : JPEG, GIF, PNG, BMP, HEIF

Help and Support

21.1
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   www.philips.com/TVsupport

21.2
Troubleshooting

Switch On and Remote Control

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.

Creaking sound at startup or switch off

When you are switching the TV on, off or to 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.

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.
If the TV continues to be unresponsive to the remote control, you can check if the remote control is working by means of a mobile phone camera. Put the phone in camera mode and point the remote control to the camera lens. If you press any key on the remote control and you notice the infra red LED flicker through the camera, the remote control is working. The TV needs to be checked.
If you do not notice the flickering, the remote control might be broken or its batteries are low.
This method of checking the remote control is not possible with remote controls which are wirelessly paired with the TV.

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 power key on the remote control or on 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.

Channels

No digital channels found during the installation

See the technical specifications to make sure that your TV supports digital channels in your country. Make sure that all cables are properly connected and that the correct network is selected.

Previously installed channels are not in the channel list

Make sure that the correct channel list is selected.

Picture

No picture / distorted picture
· Make sure that the antenna is properly connected to the TV.
· Make sure that the correct device is selected as the display source.
· Make sure that the external device or source is properly connected.

Sound but no picture
· Change to other video sources and then change back to current source, then do picture style restore in Picture settings or do Factory reset in General settings option.

Poor antenna reception
· Make sure that the antenna is properly connected to the TV.
· Loud speakers, unearthed audio devices, neon lights, high buildings and other large objects can influence reception quality. If possible, try to improve the reception quality by changing the antenna direction or moving devices away from the TV.
· If reception on only one channel is poor, fine-tune this channel with Manual Installation.

Poor picture from a device
· Make sure that the device is connected properly. Make sure the device's output video setting is the highest possible resolution if applicable.
· Restore picture style or change to other picture styles.

Picture settings change after a while

Make sure that **Retail mode** is set to **Off** . You can

change and save settings in this mode.

A commercial banner appears

Make sure that Retail mode is set to Off . Press
Home > Settings > Device Preferences > Retail
mode and press OK

Picture does not fit the screen
• Change to a different picture format.
• Change Display mode to Automatic.

Picture position is incorrect
• Picture signals from some devices may not fit the
screen correctly. Check the signal output of the
connected device.
• Change Display mode to Automatic.

Computer picture is not stable
• Make sure that your PC uses the supported
resolution and refresh rate.
• Make sure HDMI video source is not supported HDR
content.

Sound

No sound or poor sound quality

If no audio signal is detected, the TV automatically
switches the audio output off — this does not indicate
malfunction.

• Make sure that the sound settings are correctly set.
• Make sure that all cables are properly connected.
• Make sure that the volume is not muted or set to
zero.
• 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 speakers.
• Some devices may require you to manually enable
HDMI audio output. If HDMI audio is already enabled,
but you still do not hear audio, try changing the digital
audio format of the device to PCM (Pulse Code
Modulation). Refer to the documentation
accompanying your device for instructions.

HDMI and USB

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.
• If the picture and sound of a device connected to
HDMI is distorted, connect the device to another
HDMI port on TV and power reboot your source
device.
• If there are intermittent sound disruptions, make
sure that output settings from the HDMI device are

correct.
• If you use an HDMI-to-DVI adapter or HDMI-to-DVI
cable, make sure that an additional audio cable is
connected to AUDIO IN (mini-jack only), if available.

HDMI EasyLink does not work
• Make sure that 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.

**Photos, videos and music from a USB device do not
show**
• Make sure that the USB storage device is set to Mass
Storage Class compliant, as described in the storage
device's documentation.
• Make sure that the USB storage device is compatible
with the TV.
• Make sure that the audio and picture file formats are
supported by the TV.

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.

Network

Wi-Fi network not found or distorted
• Microwave ovens, DECT phones or other Wi-Fi
802.11b/g/n devices in your proximity might disturb
the wireless network.
• Make sure that 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.

Bluetooth

Unable to pair
· Make sure the device is in pairing mode. Read the user manual of the device.
· Keep the wireless speaker as close to the TV as possible.
· Trying to pair several devices with the TV at the same time, may not work.

Bluetooth lost connection
· Always position the wireless speaker within a range of 5 meters from the TV.

Bluetooth Audio and Video synchronisation
· Before you purchase a wireless Bluetooth speaker, inform yourself about its quality of Audio to Video synchronisation, commonly called 'lip sync'. Not all Bluetooth devices perform correctly. Ask your dealer for advice.

Wrong Menu Language

Change the language back to your language
1 – Press **Home** to go to Home screen.
2 – Press **MENU**.
3 – Press **Navigation key – down** for 4 times and press **OK**.
4 – Press **Navigation key – down** for 4 times and press **OK**.
5 – Select your language and press **OK**.
6 – Press **Back** or **EXIT** repeatedly to close the menu.

21.3

Online Help

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.

21.4

Support and 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 www.philips.com/TVsupport 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.

Warning

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

Safety and Care

22.1

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.

Stability Hazards

A television set may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

· ALWAYS ensure the television set is not overhanging the edge of the supporting furniture.
· ALWAYS use cabinets or stands or mounting methods recommended by the manufacturer of the television set.
· ALWAYS use furniture that can safely support the television set.
· ALWAYS educate children about the dangers of climbing on furniture to reach the television set or its controls.
· ALWAYS route cords and cables connected to your television so they cannot be tripped over, pulled or grabbed.
· NEVER place a television set in an unstable location.
· NEVER place the television set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television set to a suitable support.
· NEVER place the television set on cloth or other materials that may be located between the television set and supporting furniture.
· NEVER place items that might tempt children to climb, such as toys and remote controls, on the top of the television or furniture on which the television is placed.

If the existing television set is going to be retained and relocated, the same considerations as above should be applied.

Risk of Batteries

· Do not ingest the battery. Chemical burn hazard.
· The remote control may contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
· Keep new and used batteries away from children.
· If the battery compartment does not close securely, stop using the product and keep it away from children.
· If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.
· Risk of fire or explosion if the battery is replaced by an incorrect type.
· Replacement of a battery with an incorrect type that can defeat a safeguard (for example, in the case of

some lithium battery types).
· Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.
· Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.
· A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

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.

22.2

Screen Care

· 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. Avoid touching the Ambilight* LEDs on the backside of the TV. 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.

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

Terms of Use

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This product was brought to the market by TP Vision Europe B.V. or one of its affiliates, hereinafter referred to as TP Vision, which is the manufacturer of the product. TP Vision is the warrantor in relation to the TV with which this booklet was packaged. Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V.

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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.

CE compliance
Hereby, TP Vision Europe B.V. declares that this television is in compliance with the essential requirements and other relevant provisions of Directives 2014/53/EU (RED), 2009/125/EC (Eco Design) and 2011/65/EC (RoHS).

Compliance with EMF
TP Vision manufactures and sells many products targeted at consumers which, like any electronic apparatus, in general have the ability to emit and receive electromagnetic signals. One of TP Vision's leading business principles is to take all necessary health and safety measures for our products, to comply with all applicable legal requirements and to stay well within the Electro Magnetic Field (EMF) standards applicable at the time of producing the products.

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 international EMF and safety standards, enabling TP Vision to anticipate further developments in standardisation for early integration in its products.

24
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24.1
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HDMI

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Dolby Audio

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Dolby Vision and Dolby Atmos

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24.4
DTS-HD

DTS-HD

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24.5
Wi-Fi Alliance

Wi-Fi

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