

PHILIPS

Television

8808 Series

User Manual

55PUT8808
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www.philips.com/TVsupport

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Home Screen

Introduction

To enjoy the benefits of your Google TV, connect the TV to the Internet. Press **HOME** on your remote control to get your **Home screen**. Like on your Android smartphone or tablet, the Home screen is the centre of your TV. From the Home screen you can decide what to watch by browsing entertainment options from app and live TV.

The Home screen is organized in rows to let you discover great contents from your favourite apps. You can also add additional rows or find new apps to get more contents. Apps may populate their recommendation (if available) according to their own choice as an individual rows in the home screen.

Highlights on your home screen

With multiple tabs like **Search**, **For you**, **Films**, **TV Shows**, **Apps** and **Library**, you can discover movies and shows from your services and popular apps. Sign in to your Google Account to get personalised recommendations from your streaming services based on what you have watched and what interests you. You can also trigger Google search with voice or text input in **Search** tab.

Apps

The **Apps** tab of Home screen contains all installed Apps that come with the TV and the Apps you have installed from Google Play™ Store. You can also install and add more apps as favourite from the **Apps** tab.

Navigation

Decide what to watch next with easy-to-use navigation. Browse your personalised recommendations, pick up where you left off, or quickly find a certain app using the new tab system.

Discover personalised recommendations

Browse shows and movies that you will love on all your favourite media services. Sign in to your Google Account to get started.

Get recommendations across Google

Your services are saved to your Google Account so you can get better recommendations across Google.

See also www.support.google.com/googletv

Dashboard and Settings

Dashboard

The Dashboard is a side panel in Google TV that provides access to Settings, device controls, notifications and more.

The Dashboard can be accessed in three ways as follows:

- 1 - Navigating to the profile icon in the upper right of the home screen.
- 2 - Press **DASHBOARD** key on the remote control.
- 3 - Long press **HOME** key on the remote control.

The dashboard contains following features.

- **Profile**: to display current user profile icon or to add new user profile
- **Settings**: to access all setting menus for adjusting the TV settings.
- **Clock and screensaver**: to indicate the system clock and press to activate screen saver immediately.
- **Sources**: to launch the input source list for switching to any of the connected devices.
- **Picture**: quick link to adjust picture settings.
- **Notifications**: to provide you the messages about the Google TV system; press **Clear all** to dismiss all notifications.

Adjust settings

You can access **Settings** menu via the dashboard at the top right corner. Alternately, you can access the **Frequent settings** menu and common menu items in the Philips TV Menu, which can be invoked directly from the remote control.

Google TV and Basic Mode

Difference of feature

You can set your TV to **Google TV** mode or **Basic Mode**.

Basic Mode contains only Live TV and External devices (e.g. HDMI) features. Google TV requires you to login with your Google account and Internet connection. With Google TV, you can have all Basic Mode features and more Google's personalised services. For example, movies and TV shows from your favourite streaming apps, personalised recommendations, and Google Assistant to search and control your TV with your voice.

Some features are not available in Basic Mode. For

more information, please refer to Google support page.

Difference of Home screen

The Home screen of Basic Mode has only two rows and without tabs. The first **Home** row contains **Watch TV**, **TV Guide**, **Sources** and **Dashboard** icons for TV feature operations. The second **App** row contains all pre-installed Apps. The **Dashboard** on Basic Mode does not include personal profile and can only perform setting change and displaying system notifications.

The Home screen of Google TV has multiple tabs like **Home**, **Apps**, **Library** and **Search**. Each tab contains rows of apps, movies and shows from your services and popular apps. You can get personalised recommendations from your streaming services based on what you have watched and what interests you. You can also trigger Google search with voice or text input in **Search** tab.

1.4

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.

Setting Up

2.1

Read the Safety Instructions

Please read the safety instructions before you use the TV.

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

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.

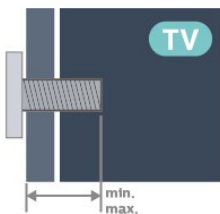
Use the product type number of the TV to look for the **Quick Start Guide** to download.

Wall Mounting

Your TV is also prepared for the wall mount bracket (sold separately).

The wall mount size may vary depending on different type of back cases; refer to the **Quick Start Guide** in your product package to see which size is applied to your TV.

Use the following wall mount dimension when purchasing the wall mount.



- 50PUx8808
200x300, M6 (min.: 10 mm, max.: 16 mm)
- 55PUx8808
200x300, M6 (min.: 10 mm, max.: 16 mm)
- 65PUx8808
300x300, M6 (min.: 12 mm, max.: 20 mm)
- 75PUx8808
300x300, M8 (min.: 26 mm, max.: 39 mm)

Caution

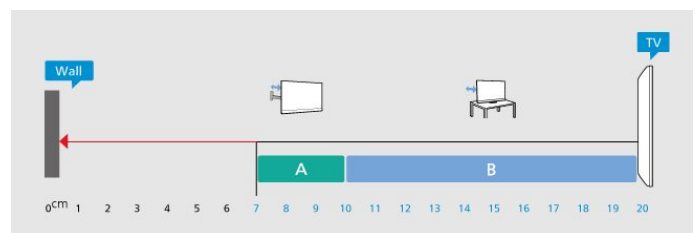
Wall mounting the TV requires special skills and should only be performed by qualified personnel. The TV wall mounting should meet safety standards according to the TV's weight. Also read the safety precautions before positioning the TV.

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.
- Recommended distance to the wall:
 - A. When wall mounted, position the TV from 7 to 10 cm away from the wall.
 - B. When TV is with stand, position the TV from 10 to 20 cm away from the wall depends on the size of stand.



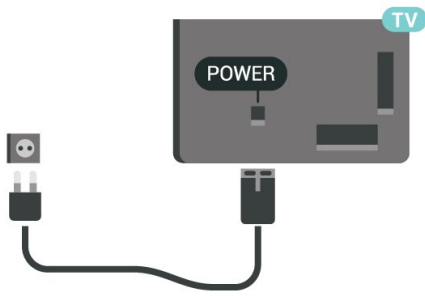
Note:

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.

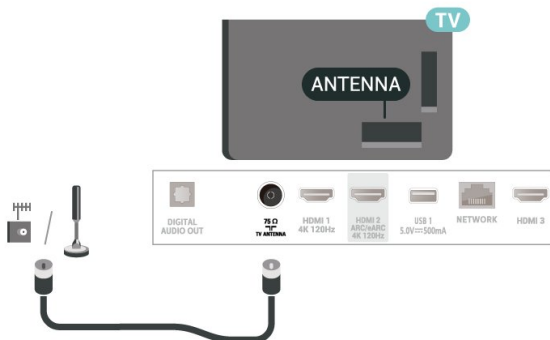
For more information, in **Help**, press the colour key **Red** **Keywords** and look up **Switching On** for more information on switching the TV on or off.

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.

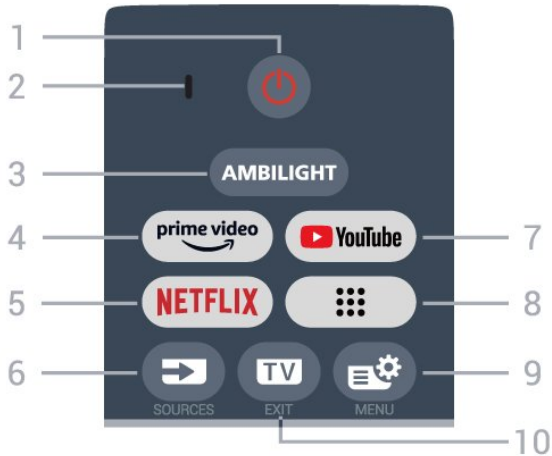


Remote Control

3.1

Key Overview

Top



1 - (Standby / On)

To switch the TV on or back to Standby. Long press for three seconds to reboot the TV.

2 - VOICE microphone

3 - AMBILIGHT

To select one of the Ambilight style.

4 - prime video

To launch the Amazon prime video App.

5 - NETFLIX

- If you have a Netflix membership subscription, you can enjoy Netflix on this TV. Your TV must be connected to the Internet.
- To launch the Netflix, press NETFLIX to open Netflix immediately with the TV switched on or from standby.

www.netflix.com

6 - (SOURCES)

To open or close the Sources menu.

7 - YouTube

To launch the YouTube App.

8 - Apps

To launch Your apps page to display the list of Apps that are pre-installed, or installed by user.

9 - (Quick Menu/MENU)

To open the Quick Menu with typical TV functions. Hold the MENU key to show the Gaming control bar when game signal detected and game mode enabled.

10 - (EXIT)

To switch back to watch TV or to stop an interactive

TV application. However, it might not work on some applications; behaviour is dependent on third party TV apps.

Middle



1 - OK key

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

2 - (Back)

To switch back to the previous channel you selected.

To return to previous menu.

To go back to the previous App/Internet page.

3 - (OPTIONS) / (INFO)

To open or close the options menu. Long press to open programme info.

4 - Colour keys

Direct selection of options. Press Blue key to open the Help.

5 - / navigation keys

To navigate up, down, left or right.

6 - (Google Assistant™)

To launch the Google Assistant™.

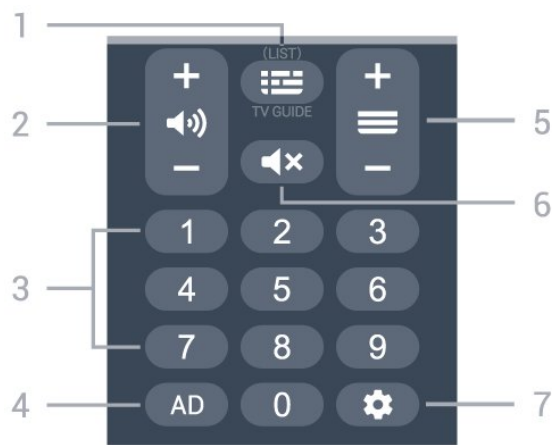
7 - (HOME)

To open the Home menu. Long press to access the Dashboard.

8 - Playback

- Play , to playback.
- Pause , to pause playback
- Stop , to stop playback
- Rewind , to rewind
- Fast forward , to go fast forward

Bottom



1 - (TV Guide)

To open or close the TV Guide. Long press to open the channel list.

2 - (Volume)

Press + or - to adjust the volume level.

3 - Number keys

To select a channel directly.

4 - AD

To access the Audio Description and toggle to switch on and off.

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)

To mute the sound or to restore it.

7 - (DASHBOARD)

To launch Dashboard on side of screen to access Settings, device controls, notifications and more.

1 - Once the remote control has entered pairing mode successfully, the LED indicator ring around the microphone on the front side of the remote control starts blinking.

2 - The remote control must be kept close to the TV (within 1m distance) during pairing in order to ensure success.

3 - If the TV does not launch the voice control field when press , pairing was unsuccessful.

4 - It is advisable to wait until the set has fully started up and launched all background processes before pairing mode is entered as the toast message containing further instructions may appear too late, thereby negatively impacting the pairing procedure.

Pairing or pairing again

If the pairing with the remote control was lost, you can pair the TV with the remote control again.

You can press **Home + Back** key or long press the **PAIR (SOURCES)** key (approximate for 3 seconds) for pairing.

Alternatively, go to **Settings > Remote & accessories > Remote control settings > Pair remote control**, then follow the on-screen instructions.

A message appears when the pairing is successful.

Remote Control Software

Settings > Remote & accessories > Remote control settings > Remote control info

Once the remote control is paired, you can check the current remote control software version.

Settings > Remote & accessories > Remote control settings > Update remote control software

Check available remote control software for updates.

3.2

Pair Your Remote Control to TV

This remote control uses both Bluetooth® and IR (infrared) to send its commands to the TV.

- You can use this remote control via IR (infrared) for most operations.
- To use advanced operation like voice search, you need to pair (link) the TV with the remote control.

When you start the initial TV installation, the TV invites you to press **Home + Back** key to pair the remote control. It is suggested to complete the pairing during the first TV installation.

Note:

3.3

Voice Search

You can search for videos, music or anything else on the Internet by simply using your voice. You can speak into the microphone on the remote control.

You need to pair the remote control to the TV before use voice search.

To use Voice:

1 - Press and hold the key on remote control, the blue light on the remote control lights up and the search field opens, the microphone is active.

2 - Speak out what you are looking for with clear pronunciation. Once the voice input is done, release the key to start the search. It might take some

time for the results to appear.

3 – In the list of search results, you can select the item you want.

3.4

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.

3.5

Batteries and Cleaning

Replace batteries

Refer to the **Quick Start Guide** in your product package for detailed information about the remote control batteries.

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

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

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

2 – Replace the old batteries with new batteries.

Make sure the + and the – ends of the batteries line up correctly.

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

- Remove the batteries if you are not using the remote control for a long time.
- Safely dispose of your old batteries according to the end of use directions.

Cleaning

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

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


Switching On and Off

4.1

On or Standby

Make sure the TV is connected to the mains AC power. Connect the supplied power cord to the AC in connector at the back of the TV. The indicator light at the bottom of the TV lights up.


Switch on

Press  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.

Reboot

Long press  on the remote control for three seconds to reboot the TV.

Switch to standby

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


4.2

Keys on TV

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

To open the basic menu:

- 1 - With the TV switched on, press the joystick key on the bottom of the TV to bring up the basic menu.
- 2 - Press left or right to select  Volume,  Channel or  Sources. Select  Demo, to start a demo movie.
- 3 - Press up or down to adjust the volume or tune to the next or previous channel. Press up or down to go through the list of sources, including the tuner selection. Press the joystick key to start the demo movie.
- 4 - The menu will disappear automatically.

To switch the TV on standby, select  and press the joystick key.



Channel Installation

5.1

Antenna Installation

Update Channels

Automatic Channel Update

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

Once a day, at 7 AM, the TV updates the channels and stores new channels. New channels are stored in the Channels List and are marked with a ★. Channels without a signal are removed. The TV must be in standby to automatically update channels. You can switch off Automatic Channel Update.

To switch off the automatic update:

- 1 - Select **⚙ Settings > Channels & Inputs > Channels > Antenna/Cable Installation or Antenna Installation** and press **OK**.
- 2 - Enter your PIN code if necessary.
- 3 - Select **Automatic Channel Update** and press **OK**.
- 4 - Select **Off** and press **OK**.
- 5 - Press **⬅ (left)** to go back one step or press **⬅ Back** to close the menu.

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

To switch off the message:

- 1 - Select **⚙ Settings > Channels & Inputs > Channels > Antenna/Cable Installation or Antenna Installation** and press **OK**.
- 2 - Enter your PIN code if necessary.
- 3 - Select **Channel Update Message** and press **OK**.
- 4 - Select **Off** and press **OK**.
- 5 - Press **⬅ (left)** to go back one step or press **⬅ Back** 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.

Manual Channel Update

You can always start a channel update yourself.

To start a channel update manually:

- 1 - Select **⚙ Settings > Channels & Inputs > Channels > Antenna/Cable Installation or Antenna Installation** and press **OK**.
- 2 - Enter your PIN code if necessary.

- 3 - Select **Search for Channels** and press **OK**.
- 4 - Select **Start** and press **OK**.
- 5 - Select **Update Digital Channels**, select **Next** and press **OK**.
- 6 - Select **Start** and press **OK** to update the digital channels. This can take a few minutes.
- 7 - Press **⬅ (left)** to go back one step or press **⬅ Back** to close the menu.

Reinstall Channels

Reinstall All Channels

You can reinstall all channels and leave all other TV settings untouched.

If a PIN code is set, you will need to enter this code before you can reinstall channels.

To reinstall channels:

- 1 - Select **⚙ Settings > Channels & Inputs > Channels > Antenna/Cable Installation or Antenna Installation** and press **OK**.
- 2 - Enter your PIN code if necessary.
- 3 - Select **Search for Channels** and press **OK**.
- 4 - Select **Start** and press **OK**.
- 5 - Select **Reinstall Channels**, select **Next** and press **OK**.
- 6 - Select the country where you are now and press **OK**.
- 7 - Select **Next** and press **OK**.
- 8 - Select the type of installation you want, **Antenna (DVB-T)** or **Cable (DVB-C)** and press **OK**.
- 7 - Select **Next** and press **OK**.
- 10 - Select the type of channels you want, **Digital and Analogue Channels** or **Only Digital Channels** and press **OK**.
- 7 - Select **Next** and press **OK**.
- 12 - Select **Start** and press **OK** to update the digital channels. This can take a few minutes.
- 13 - Press **⬅ (left)** to go back one step or press **⬅ Back** to close the menu.

Factory reset

You can redo a full TV installation. The TV is completely reinstalled.

To redo a full TV installation:

- 1 - Select **⚙ Settings > System > About > Reset > Factory reset** and press **OK**.
- 2 - Enter your PIN code if necessary.
- 3 - The TV will reinstall completely. All settings will be reset and installed channels will be replaced. The installation can take a few minutes.
- 4 - Press **⬅ (left)** to go back one step or press **⬅ Back** to close the menu.

DVB Settings

Network Frequency Mode

If you intend to use the fast **Quick Scan** method in **Frequency Scan** to search for channels, select **Automatic**. The TV will use 1 of the predefined network frequencies (or HC - homing channel) as used by most cable operator in your country.

If you received a specific network frequency value to search for channels, select **Manual**.

Network Frequency

With the **Network Frequency Mode** set to **Manual**, you can enter the network frequency value received from your cable operator here. To enter the value, use the number keys.

Frequency Scan

Select the method of searching for channels. You can select the faster **Quick Scan** method and use the predefined settings used by most cable operator in your country.

If this results in having no channels installed or if some channels are missing, you can select the extended **Full Scan** method. This method will take more time to search for and install channels.

Frequency Step Size

The TV searches for channels in steps of **8 MHz**.

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

Digital Channels

If you know your cable operator is not offering digital channels, you can skip searching for digital channels.

Analogue Channels

If you know your cable operator is not offering analogue channels, you can skip searching for analogue channels.

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 - Tune to the channel.
- 2 - Select **⚙ Settings > Channels & Inputs > Channels > Antenna/Cable Installation** or **Antenna Installation** and press **OK**. Enter your PIN code if necessary.
- 3 - Select **Digital: Reception Test** and press **OK**.
- 4 - Select **Search** and press **OK**. The digital frequency is shown for this channel.
- 5 - Select **Search** again and press **OK** to check the signal quality of this frequency. The test result is shown on screen. You can reposition the antenna or check the connections to possibly improve the reception.
- 6 - You can also change the frequency yourself. Select the frequency number one by one and use the **Arrow / navigation keys** to change the value. Select **Search** and press **OK** to test the reception again.
- 7 - Press **◀** (left) repeatedly if necessary, to close the menu.

Manual Installation

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

To install analogue channels manually:

- 1 - Select **⚙ Settings > Channels & Inputs > Channels > Antenna/Cable Installation** or **Antenna Installation** and press **OK**. Enter your PIN code if necessary.
- 2 - Select **Analogue: Manual Installation** and press **OK**.

- **System**

To set up the TV system, select **System**.

Select your country or the part of the world where you are now and press **OK**.

- **Search Channel**

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

- **Store**

You can store the channel on the current channel number or as a new channel number.

Select **Store Current Channel** or **Store as New**

Channel and press **OK**. The new channel number is shown briefly.

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

5.2

Channel List Copy

Introduction

Channel List Copy is intended for dealers and expert users.

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

Conditions

- Both TVs are from the same year range.
- Both TVs have the same hardware type. Check the hardware type on the TV type plate on the back of the TV.
- Both TVs have compatible software versions.
- For the Netherlands or any of these cable operators (Switzerland:Sunrise / Austria:Magenta / Poland:UPC / Romania:Vodafone / Hungary:Vodafone / Ireland:VirginMedia), the channel list copy is limited to satellite channel list copy. The terrestrial and cable channels list will not be copied or erased.

Current channel version

To check the current version of the channel list:

- 1 - Select **⚙ Settings** > **Channels & Inputs** > **Channels**, select **Channel List Copy**, select **Current Version** and press **OK**.
- 2 - Press **OK** to close.

Current software version

You can go to **⚙ Settings** > **System** > **About** > **SW version** to view the version number of current TV software.

Copy a Channel List

To copy a channel list:

- 1 - Switch on the TV. This TV should have channels installed.
- 2 - Plug in a USB flash drive.
- 3 - Select **⚙ Settings** > **Channels & Inputs** > **Channels** > **Channel List Copy** and press **OK**.
- 4 - Select **Copy to USB** and press **OK**. You might be asked to enter the Child Lock PIN code to copy the channel list.
- 5 - When copying is done, unplug the USB flash

drive.

6 - Press **⬅** (left) repeatedly if necessary, to close the menu.

Now you can upload the copied channel list onto another Philips TV.

Channel List Version

Check the current version of the channel list:

- 1 - Select **⚙ Settings** > **Channels & Inputs** > **Channels** and press **➤** (right) to enter the menu.
- 2 - Select **Channel List Copy** and select **Current Version**, then press **OK**.
- 3 - Press **⬅** (left) repeatedly if necessary, to close the menu.

Upload a Channel List to TV

To not Installed TVs

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

To a TV that is not yet installed


- 1 - Plug in the power plug to start the installation and select language and country. You can skip the channel search. Finish the installation.
- 2 - Plug in the USB flash drive that holds the channel list of the other TV.
- 3 - To start the channel list upload, select **⚙ Settings** > **Channels & Inputs** > **Channels** > **Channel List Copy** > **Copy to TV** and press **OK**. Enter your PIN code if necessary.
- 4 - The TV notifies you if the channel list is copied to the TV successfully. Unplug the USB flash drive.

To Installed TVs

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

To an already installed TV

- 1 - Verify the country setting of the TV. (To verify this setting, see chapter Reinstall All Channels. Start this procedure until you reach the country setting. Press **⬅ Back** to cancel the installation.) If the country is correct continue with step 2. If the country is not correct, you need to start a reinstallation. See chapter Reinstall All Channels and start the installation. Select the correct country and skip the channels search. Finish the installation. When done, continue with step 2.
- 2 - Plug in the USB flash drive that holds the channel list of the other TV.

- 3 - To start the channel list upload,
select  **Settings** > **Channels & Inputs** > **Channels**
> **Channel List Copy** > **Copy to TV** and press OK.
Enter your PIN code if necessary.
- 4 - The TV notifies you if the channel list is copied to
the TV successfully. Unplug the USB flash drive.

Channels

6.1

Install Channels

For more information, in **Help**, press the colour key **Keywords** and look up **Channel, Antenna Installation** or **Channel, Installation**.

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, etc. The Premium genre are top broadcast channels positioned with market share above 3%. Channels are shown with their name and logo if this information is available.

With a channel list selected, press the arrows **▲** (up) or **▼** (down) to select a channel, then press **OK** to watch the selected channel. You only tune to the channels in that list when using **≡** **+** or **≡** **-** keys.

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

Channel icons

After an Automatic Channel Update of the channel list, newly found channels are marked with a **★** (star).
If you lock a channel, it will be marked with a **🔒** (lock).

Radio stations

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

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

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 - Press **TV**, to switch to TV.
- 2 - Press **OK** to open the current channel list.
- 3 - Alternately, long press **≡ TV Guide** to open the channel list.
- 4 - Press **← Back** to close the channel list.

To select one of the channel lists:

- 1 - With a channel list open on screen, press **+** **OPTIONS**.
- 2 - Select **Select Channel List** and press **OK**.
- 3 - In the list menu, select one of the available channel lists and press **OK**.

Alternatively, you can select the list name at the top of the channel list and press **OK** to open the list menu.

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 **TV**.
- 2 - Press **OK** to open the current channel list.
- 3 - Press **+** **OPTIONS**.
- 4 - Select **Select Channel List** and press **OK**.
- 5 - Select **Filter Antenna Channels** and press **OK**.
- 6 - Select **Search Channel** 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.
- 7 - Enter a name or part of a name and select **Apply** and press **OK**. The TV will search for matching channel names in the list you selected.

Search results are listed as a channel list – see the list name at the top. 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.

6.3

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-to-Air or the Scrambled channels.

To set a filter on a list with all channels:

- 1 - Press **TV**.
- 2 - Press **OK** to open the current channel list.
- 3 - Press **+ OPTIONS**.
- 4 - Select **Select Channel List** and press **OK**.
- 5 - Select **Filter Antenna Channels** and press **OK**.
- 6 - In the **Options** menu, 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.
- 7 - Press **◀** (left) to go back one step or press **←** to close the menu.

6.4

Watching channels

Tune to a Channel

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

Switch Channels

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

If the information is available from the Internet, the TV shows the current programme name and details followed by the next programme name and details.

Previous channel

To switch back to the previously tuned channel, press **← Back**.

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

Lock a Channel

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 **Child Lock** PIN code first. You cannot lock programmes from connected devices.

To lock a channel:

- 1 - Press **TV**.
- 2 - Press **OK** to open the channel list. If necessary change the channel list.
- 3 - Select the channel you want to lock.
- 4 - Press **+ OPTIONS** and select **Lock Channel** and press **OK**.
- 5 - Enter your 4 digit PIN code if the TV asks for it. A locked channel is marked with a **🔒** (lock).
- 6 - Press **◀** (left) to go back one step or press **← Back** to close the menu.

To unlock a channel:

- 1 - Press **TV**.
- 2 - Press **OK** to open the channel list. If necessary change the channel list.
- 3 - Select the channel you want to unlock.
- 4 - Press **+ OPTIONS** and select **Unlock Channel** and press **OK**.
- 5 - Enter your 4 digit PIN code if the TV asks for it.
- 6 - Press **◀** (left) to go back one step or press **← Back** to close the menu.

If you lock or unlock channels in a channel list, you only have to enter the PIN code just once until you close the channel list.

For more information, in **Help**, press the colour key **— Keywords** and look up **Child Lock** for more information.

Parental Rating

To prevent children from watching a programme not suitable for their age, you can set an age rating.

Digital channels can have their programmes age rated. When the age rating of a programme is equal to or higher than the age you have set as age rating for your child, the programme will be locked. To watch a locked programme, you must enter the **Parental Rating** (only available for certain countries) code first.

To set an age rating:

- 1 - Select **⚙ Settings > System > Child Lock > Parental Rating** and press **OK**.
- 2 - Enter a 4-digit Child lock code. If you did not set a code yet, select **Set Code** in **Child Lock**. Enter a 4-digit Child lock code and confirm. Now you can set an age rating.
- 3 - Back in **Parental Rating**, select the age and press **OK**.
- 4 - Press **◀** (left) repeatedly if necessary, to close the menu.

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

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

Channel Options

Open Options

While watching a channel, you can set some options.

Depending on the type of channel you are watching (analogue or digital) or depending on the TV settings you made, some options are available. For example, the **Screen off** option is only available for radio

channels. It is suggested to turn off the TV screen for saving energy and protecting the screen.

To open the options menu:

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

Subtitles

Switch On

Digital broadcasts can have subtitles for their programmes.

To show the subtitles:

Press **+ OPTIONS** and select **Subtitles**.

You can switch subtitles **On** or **Off**. Alternatively you can select **Automatic**.

Automatic

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

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

Subtitles from Text

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

- 1 - Switch to a channel and press **TEXT** to open Text.
- 2 - Enter the page number for subtitles.
- 3 - Press **TEXT** again, to close Text.

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

To know if a channel is analogue or digital, switch to the channel and open **Information** in **+ OPTIONS**.

Subtitle Language

Preferred Subtitle Languages

A digital broadcast 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.

To set the primary and secondary subtitle language:

- 1 - Go to **Settings > Channels & Inputs > Channels**.
- 2 - Select **Primary Subtitles** or **Secondary Subtitles**.
- 3 - Select the language you need and press **OK**.
- 4 - Press **◀** (left) to go back one step or press **← Back** to close the menu.

Select a Subtitle Language

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

To select a subtitle language when none of your preferred languages are available:

- 1 - Press **+ OPTIONS**.
- 2 - Select **Subtitle Language** and select one of the languages as subtitles temporarily.

Audio Language

Preferred Audio Language

A digital broadcast can offer several audio languages (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 the audio language.

To set the primary and secondary audio language:

- 1 - Go to **Settings > Channels & Inputs > Channels**.
- 2 - Select **Primary Audio** or **Secondary Audio**.
- 3 - Select the language you need and press **OK**.
- 4 - Press **◀** (left) to go back one step or press **← Back** to close the menu.

Select an Audio Language

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

To select an audio language when none of your preferred languages are available:

- 1 - Press **+ OPTIONS**.
- 2 - Select **Audio Language** and select one of the languages as audio temporarily.

Universal Access

Settings > Channels & Inputs > Channels > Universal access.

With Universal Access switched on, the TV is

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

Universal access for hearing impaired people

⚙ Settings > Channels & Inputs > Channels > Universal access > Hearing impaired.

- Some digital TV channels broadcast special audio and subtitles adapted for the hard of hearing or deaf people.
- Switched on, the TV automatically switches to the adapted audio and subtitles, if available.

Universal access for blind or partially sighted people

⚙ Settings > Channels & Inputs > Channels > Universal access > Audio description.

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

⚙ Settings > Channels & Inputs > Channels > Universal access > Audio description > Mixed volume, Audio effects, Speech.

- Select **Mixed volume**, you can mix the volume of the normal audio with the audio commentary.
- Switch **Audio effects** on for extra audio effects in the commentary audio, like stereo or fading sound.
- Select **Speech** to set speech preference, **Descriptive** or **Subtitles**.

Dialogue enhancement

⚙ Settings > Channels & Inputs > Channels > Universal access > Dialogue enhancement.

Increase the intelligibility of dialogue and commentary, if available. Only available when sound setting **Clear dialogue** is On and audio stream is AC-4.

HbbTV and Operator Apps Settings

View or adjust the settings for HbbTV and Operator Apps.

Switch on or off HbbTV

⚙ Settings > Channels & Inputs > Channels > HbbTV and Operator Apps settings > HbbTV.

If you want to avoid access to HbbTV pages on a specific channel, you can block the HbbTV pages for

this channel only.

Switch off History Tracking

⚙ Settings > Channels & Inputs > Channels > HbbTV and Operator Apps settings > Tracking.

If switched on, you have no personal preference regarding the tracking. If switched off, you do not allow the tracking by HbbTV and Operator Apps (if applicable) pages.

Remove Cookies

⚙ Settings > Channels & Inputs > Channels > HbbTV and Operator Apps settings > Cookies.

Switch the storage of cookies from HbbTV and Operator Apps (if applicable) pages on or off.

Clear approved app listing

⚙ Settings > Channels & Inputs > Channels > HbbTV and Operator Apps settings > Clear approved app listing .

To clear all User's approved applications.

HbbTV Device ID reset

⚙ Settings > Channels & Inputs > Channels > HbbTV and Operator Apps settings > HbbTV Device ID reset.

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

Programme Info

View programme details

To call up the details of the selected programme:

- 1 - Tune to the channel.
- 2 - Press **+** **OPTIONS**, select **Programme Info** and press **OK**.
- 3 - To close this screen, press **OK**.

On **Programme Info**, press the colour key **OVERVIEW** to get the channel overview information. The colour key **OVERVIEW** is only available in full channel list and not available in Favourites list.

View programme information from channel list

To call up the programme information from channel

list:

- 1 - Tune to the channel, press **OK** or **≡ Channel list** to open the channel list.
- 2 - Press **+ OPTIONS**, select **Programme Info** and press **OK** to view general information of the programme.
- 3 - To close this screen, press **← Back** to go back to channel list.

Mono / Stereo

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

To switch to Mono or Stereo:

- 1 - Tune to an analogue channel.
- 2 - Press **+ OPTIONS**, select **Mono/Stereo** and press **➤** (right).
- 3 - Select **Mono** or **Stereo** and press **OK**.
- 4 - Press **◀** (left) to go back one step or press **← Back** to close the menu.

6.5

Favourite Channels

About Favourite Channels

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

You can create 8 different lists of favourite channels for easy channel zapping. You can name each Favourites List individually. Only in a Favourites List you can reorder channels.

With a Favourites List selected, press the arrows **▲** (up) or **▼** (down) to select a channel, then press **OK** to watch the selected channel. You only tune to the channels in that list when using **TV** **+** or **TV** **-** keys.

Create a Favourites List

To create a favourite channels list:

- 1 - Press **TV**, to switch to TV.
- 2 - Press **OK** to open the current channel list.
- 3 - Press **+ OPTIONS**.
- 4 - Select **Create Favourites List** and press **OK**.
- 5 - In the list at the left, select a channel you want as a favourite and press **OK**. Channels come in the list at the right in the order you add them. To undo, select the channel in the list at the left and press **OK** again.
- 6 - If necessary, you can go on selecting and adding channels as favourites.
- 7 - To finish adding channels, press **← Back**.

The TV will ask to rename the **Favourites List**. You can use the on-screen keyboard.

- 1 - Use the on-screen keyboard to delete the current name and enter a new name.
- 2 - When done, select **Close** and press **OK**.

The TV will switch to the newly created **Favourites List**.

You can add a range of channels in one go or start a **Favourites List** by duplicating the channel list with all channels and removing the channels you do not want.

The channels in the **Favourites List** are renumbered.

Edit Favourites

To add a consecutive range of channels to a **Favourites List** in one go, you can use **Edit favourites**.

To add a range of channels:

- 1 - Open the **Favourites List** where you want to add a range of channels.
- 2 - Press **+ OPTIONS**, select **Edit favourites** and press **OK**.
- 3 - In the list at the left select the first channel of the range you want to add and press **OK**.
- 4 - Press **▼** (down) to select the last channel of the range you want to add. The channels are marked at the right.
- 5 - Press **OK** to add this range of channels and confirm.

You can also start creating a **Favourites List** from **Edit favourites**.

Rename a Favourites List

To rename a **Favourites List**:

- 1 - Open the **Favourite List** you want to rename.
- 2 - Press **+ OPTIONS**, select **Rename Favourites List** and press **OK**.
- 3 - Use the on-screen keyboard to delete the current name and enter a new name.
- 4 - When done, select **Close** and press **OK**.
- 5 - Press **← Back** to close the channel list.

Remove a Favourites List

To remove a **Favourites List**:

- 1 - Open the **Favourites List** you want to remove.
- 2 - Press **+ OPTIONS**, select **Remove Favourites List** and press **OK**.
- 3 - Confirm to remove the list.
- 4 - Press **← Back** to close the channel list.

Reorder Channels

Only in a Favourites List you can change the sequence of channels (reorder).

To change the sequence of channels:

- 1 - Open the Favourites List you want to reorder.
- 2 - Press **+** **OPTIONS**, select **Reorder Channels** and press **OK**.
- 3 - In the Favourites List, select the channel you want to reorder and press **OK**.
- 4 - With the **▲** (up) or **▼** (down) keys move the channel where you want it.
- 5 - Press **OK** to confirm the new location.
- 6 - You can reorder channels with the same method until you close the Favourites List with the **←** **Back** key.

6.6

Text / Teletext

Text Pages

If your remote control is with **TEXT** key, you can press **TEXT** to open Text/Teletext while you are watching TV channels. To close Text, press **TEXT** key again.

If your remote control is not with **TEXT** key, press **+** **OPTIONS** while you are watching TV channels, select **Teletext** to open Text/Teletext.

Select a Text page

To select a page:

- 1 - Enter the page number with the number keys.
- 2 - Use the arrow keys to navigate.
- 3 - Press a colour key to select a colour-coded subject at the bottom of the screen.

Text sub-pages

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

To select a subpage, press **◀** or **▶**.

T.O.P. Text pages

Some broadcasters offer T.O.P. Text.

To open T.O.P. Text pages within Text, press **+** **OPTIONS** and select **T.O.P. Overview**.

Text from a connected device

Some devices that receive TV channels can also offer Text.

To open Text from a connected device:

- 1 - Press **➡** **SOURCES** select the device and press **OK**.
- 2 - While watching a channel on the device,

press **+** **OPTIONS**, select **Show Device Keys** and select the **⌨** key and press **OK**.

3 - Press **←** **Back** to hide the device keys.

4 - To close Text, press **←** **Back** again.

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

Text Options

In Text/Teletext, press **+** **OPTIONS** to select the following:

- **Freeze page / Unfreeze page**

To start or stop the automatic rotation of subpages.

- **Dual screen / Full screen**

To show the TV channel and Text alongside each other.

- **T.O.P. overview**

To open T.O.P. Text.

- **Enlarge / Normal view**

To enlarge the Text page for comfortable reading.

- **Reveal**

To unhide hidden information on a page.

- **Language**

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

Text Setup

Text language

Some digital TV broadcasters have several Text languages available.

To set your primary and secondary Text language:

- 1 - Select **⚙** **Settings** > **Channels & Inputs** > **Channels**.
- 2 - Select **Primary Text** or **Secondary Text** and press **OK**.
- 3 - Select your preferred Text languages.
- 4 - Press **◀** (left) repeatedly if necessary, to close the menu.

6.7

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.

HbbTV

Broadcasters use various interactive TV systems e.g., HbbTV (Hybrid Broadcast Broadband TV). 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.


⚙ Settings > Channels & Inputs > Channels > HbbTV and Operator Apps settings > HbbTV > On.

Use iTV


Open iTV pages

Most channels that offer HbbTV or iTV invite you to press the colour key  (red) 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 also use the playback keys on remote control 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**.

TV Guide

7.1

TV Guide Data

With the TV Guide you can view a list of the current and scheduled TV programmes of your channels. Depending on where the TV guide information (data) is coming from, analogue and digital channels or only digital channels are shown. Not all channels offer TV Guide information. The TV can collect TV Guide information for the channels that are installed on the TV. The TV cannot collect the TV Guide information from channels viewed from a digital receiver or decoder.

7.2

Using the TV Guide

Open the TV Guide

To open the TV Guide, press  TV GUIDE. The TV Guide shows the channels of the selected tuner.

Press  TV GUIDE again to close.

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

Tune to a Programme

From the TV Guide, you can tune to a current programme.

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

View programme details

To call up the details of the selected programme:

- 1 - Press **+** **OPTIONS**, select **Programme Info** and press **OK**.
- 2 - Press **←** **Back** to close.

Change Day


The TV Guide can show the scheduled programmes for the upcoming days (maximum up to 8 days).

Press the colour key  **Day** and select the day you need.

Search by Genre

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

To search for programmes by genre:

- 1 - Press  **TV GUIDE**.
- 2 - Press **+** **OPTIONS**.
- 3 - Select **Search by genre** and press **OK**.
- 4 - Select the genre you want and press **OK**. A list with the found programmes appears.
- 5 - Press **←** **Back** to close the menu.

* Note: The Search by genre function is only available for certain countries.

Connect Devices

8.1

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 an Ultra High Speed certified HDMI cable and do not use an HDMI cable longer than 5 m.

If a device connected with HDMI is not working correctly, check if a different **HDMI Ultra HD** setting can solve this problem. In Help, press the colour key **Keywords** and look up **HDMI Ultra HD**.

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).

HDMI ARC and eARC

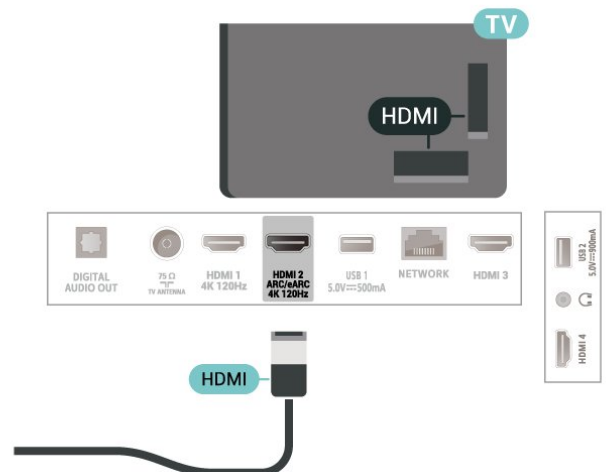
Only HDMI 2 on the TV supports HDMI ARC (Audio Return Channel) and HDMI eARC.

If the device, typically a Home Theatre System (HTS), soundbar or AV receiver, also has the HDMI ARC connection, connect it to HDMI 2 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.

You can use any HDMI connection on this TV to connect the HTS but ARC is only available for 1 device/connection at a time.

HDMI eARC (Enhanced Audio Return Channel) is an advancement over the previous ARC. It covers all ARC features but with higher bandwidth and speed. eARC supports high quality audio transmission up to 192kHz, 24-bit, uncompressed 5.1 and 7.1, and 32-channel uncompressed audio.

Note: **HDMI eARC** is only available on **HDMI 2**. Use **Ultra High-speed HDMI cable** for eARC. Only one eARC device is available at a time.



HDMI CEC - EasyLink

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

Switch on EasyLink

Settings > Channels & Inputs > Inputs > EasyLink > EasyLink > On.

Operate HDMI CEC-compatible devices with TV remote control

Settings > Channels &

Inputs > Inputs > EasyLink > EasyLink remote control > On.

To turn on or off the EasyLink remote control function. Please note that you can always control the volume of connected HDMI CEC-compatible devices irrespective of this setting.

Power off HDMI devices with the TV

⚙ Settings > Channels & Inputs > Inputs > EasyLink > EasyLink auto device off.

Select **On** to allow TV to turn the HDMI devices to standby. Select **Off** to disable this function.

Power on the TV with HDMI devices

⚙ Settings > Channels & Inputs > Inputs > EasyLink > EasyLink auto TV on.

Select **On** to allow HDMI devices to wake up the TV from standby status. Select **Off** to disable this function.

Power on the HDMI sound system with TV

⚙ Settings > Channels & Inputs > Inputs > EasyLink > EasyLink auto ARC on.

Select **On** to allow TV to wake up the connected HDMI sound system from standby status. Select **Off** to disable this function.

EasyLink 2.0 sound control

⚙ Settings > Channels & Inputs > Inputs > EasyLink > EasyLink 2.0 sound control.

Select **On** to control the sound settings of the HDMI sound system. You can adjust these settings via **Frequent settings** or ⚙ Settings > Display & Sound > Sound. This is only applicable with EasyLink 2.0 compliant HDMI sound system.

Note:

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

HDMI Ultra HD

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

To avoid the malfunctioning of such a device, you can adjust **HDMI Ultra HD** setting when TV is in the HDMI source. Recommended setting for legacy device is **Standard**.

Set the signal quality for each HDMI connectors

⚙ Settings > Channels & Inputs > Inputs > INPUT DEVICES > HDMI (port) > HDMI Ultra HD > **Standard**, **Optimal**, or **Optimal (Auto Game)** / **Optimal (Auto Game xxxHz Pro)**.

To change the settings, switch to the HDMI source first. Select **Optimal** to enable the highest quality HDMI signal for 4K program or movie watching (such as Ultra HD 4K set top box, 4K Blu-ray player or streaming box).

- The setting **Optimal** allows maximum up to Ultra HD (100Hz# or 120Hz#) RGB 4:4:4 or YCbCr 4:4:4/4:2:2/4:2:0 signals.
- The setting **Standard** allows maximum up to Ultra HD (50Hz or 60Hz) YCbCr 4:2:0 signals.

Maximum supported video timing format for HDMI Ultra HD options:

- Resolution: 3840 x 2160
- Frame rate (Hz): 50Hz, 59.94Hz, 60Hz, 100Hz#, 120Hz#
- Video data sub-sampling (bit-depth)
 - 8 bit: YCbCr 4:2:0, YCbCr 4:2:2*, YCbCr 4:4:4*, RGB 4:4:4*
 - 10 bit: YCbCr 4:2:0*, YCbCr 4:2:2*, RGB 4:4:4*
 - 12 bit: YCbCr 4:2:0*, YCbCr 4:2:2*

* Supported only when HDMI Ultra HD is set to **Optimal**, **Optimal (Auto Game)**, or **Optimal (Auto Game 120Hz Pro)**.

Note: # 4K2K 100Hz is only supported when HDMI Ultra HD is set to **Optimal** in HDMI 1 and HDMI 2. 4K2K 120Hz is only supported when HDMI Ultra HD is set to **Optimal**, **Optimal (Auto Game)** or **Optimal (Auto Game 120Hz Pro)** in HDMI 1 and HDMI 2.

Select **Standard** if the picture or sound are distorted.

- Set **Optimal (Auto Game)** to enable TV to support the HDMI Variable Refresh Rate* / FreeSync Premium* / G-Sync* video (on some models only). This option also enables TV to automatically set **Picture/Sound** style to **Game** whenever it is informed by the HDMI device connected to TV.
- Select **Optimal (Auto Game xxxHz Pro)** to enable HDR10+ gaming on top of all features supported in **Optimal (Auto Game)**.

* With HDMI Variable Refresh Rate / FreeSync

Premium / G-Sync supported, the TV changes its refresh rate in real time according to the frame rate signal to synchronize with every picture. It is applied to reduce the lag, judder and frame tearing for better gaming experience.

Note: G-Sync compatible is supported in some TV models and Nvidia GTX 30 or 40 series Graphics card only.

Note:

To watch HDR10+ or Dolby Vision content from HDMI source, you may need to power off your player and power on again when the player connected to TV playing such content for the first time. HDR10+ content is supported only when HDMI Ultra HD is set to **Optimal** or **Optimal (Auto Game 120Hz Pro)**. Dolby Vision content is supported only when HDMI Ultra HD is set to **Optimal**, **Optimal (Auto Game)** or **Optimal (Auto Game 120Hz Pro)**.

For supported TV models only, to enjoy FreeSync Premium / G-Sync game, you need to connect your computer or game console to TV via Ultra High Speed HDMI cable, and then change HDMI Ultra HD to **Optimal (Auto Game)** or **Optimal (Auto Game 120Hz Pro)**. After that, you may need to power off your game computer or game console and power on again to complete the first time setup.

8.2

Home Theatre System – HTS

Connect with HDMI ARC/eARC

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

Only **HDMI 2** on the TV can offer the Audio Return Channel (ARC) signal. Once you have connected the Home Theatre System, the TV can only send the ARC signal to this HDMI connection. With HDMI ARC, you do not need to connect the extra audio cable. The HDMI ARC connection combines both signals.

HDMI eARC

HDMI eARC (Enhanced Audio Return Channel) is an advancement over the previous ARC. It supports the latest high-bitrate audio formats up to 192kHz, 24-bit, and uncompressed 5.1 and 7.1, and 32-channel uncompressed audio. HDMI eARC is only available on **HDMI 2**.

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.

Problems with HTS sound

Sound with loud noise

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

Select **Settings** > **Display & Sound** > **Audio out** > **Digital out format**.

No sound

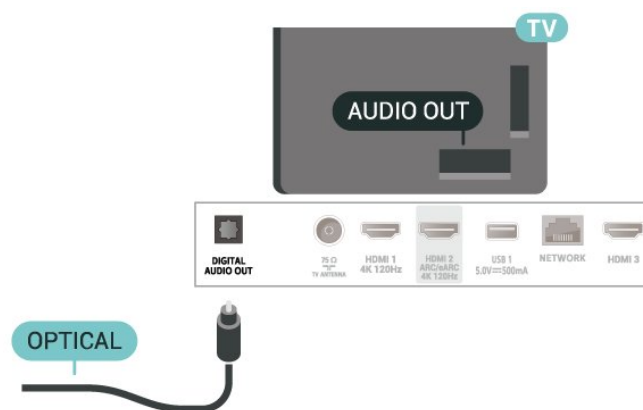
If you cannot hear the sound from the TV on your Home Theatre System, check if you connected the HDMI cable to an **HDMI ARC/eARC** connection on the Home Theatre System. HDMI ARC/eARC is only available on **HDMI 2**.

8.3

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.



8.4

Smartphones and Tablets

To connect a smartphone or tablet to the TV, you can use a wireless connection. For a wireless connection, on your smartphone or tablet download the Philips TV Remote App from your favourite app store.


Blu-ray Disc Player

Use a High speed HDMI cable to connect the Blu-ray Disc player to the TV.


If the Blu-ray Disc player has EasyLink HDMI CEC, you can operate the player with the TV remote control.

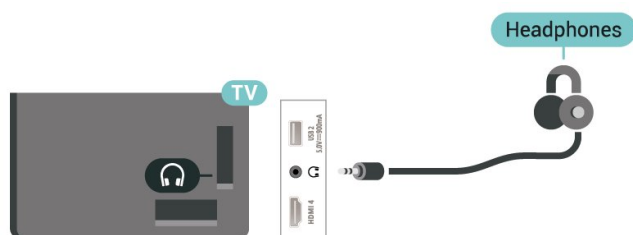
In **Help**, press the colour key **Keywords** and look up **EasyLink HDMI CEC** for more information.

Headphones

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

To adjust the volume:

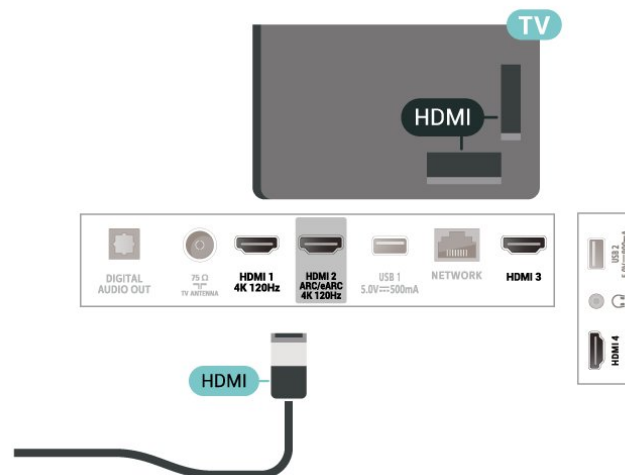
- 1 - Press  **Volume**, select the headphones icon by arrows **<** (left) or **>** (right).
- 2 - Press the arrows **^** (up) or **v** (down) to adjust the volume.



Game Console

HDMI

For best quality, connect the game console with a High speed HDMI cable to the TV.



USB Keyboard

Connect

Connect a USB keyboard (USB-HID type) to enter text on your TV.


Use one of the **USB** connections to connect.

Configure

Install the keyboard

To install the USB keyboard, switch on the TV and connect the USB keyboard to one of the **USB** connections on the TV. When the TV detects the keyboard for the first time, you can select your keyboard lay-out and test your selection. If you select a Cyrillic or Greek keyboard layout first, you can select a secondary Latin keyboard layout.

To change the keyboard layout setting when a layout was selected:

- 1 - Select  **Settings > System > Keyboard**.
- 2 - Select **USB Keyboard Settings**, and press **OK** to start the keyboard setup.

Special Keys

Keys for entering text

- Enter key = OK
- Backspace = delete character before cursor
- Arrow keys = navigate within a text field
- To switch between keyboard layouts, if a secondary layout is set, press the **Ctrl + Spacebar** keys simultaneously.

Keys for apps and Internet pages

- Tab and Shift + Tab = Next and Previous

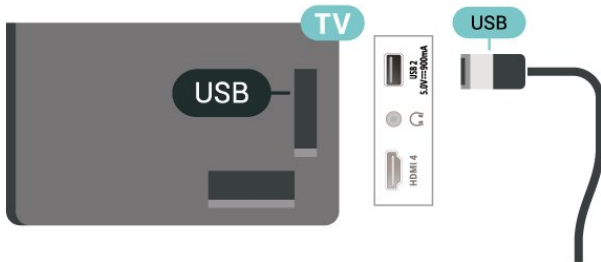
- Home = scroll to the top of the page
- End = scroll to the bottom of the page
- Page Up = jump one page up
- Page Down = jump one page down
- * = fit the web page to the screen width

8.9

USB Storage Device

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

Insert a USB storage device in one of the **USB** connections on the TV while the TV is switched on.



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

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

To stop watching the USB storage device content, press **EXIT** or select another activity.

To remove the USB storage device safely:

- 1 - Press **HOME**.
- 2 - Select the **USB drive** under **Dashboard > Notifications** from top-right corner and press **OK**.
- 3 - Select your device and press **OK**.
- 4 - Select **Eject** and press **OK**.
- 5 - Wait until the eject procedure is finished and then pull out the USB storage device.

Ultra HD on USB

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

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

8.10

Photo Camera

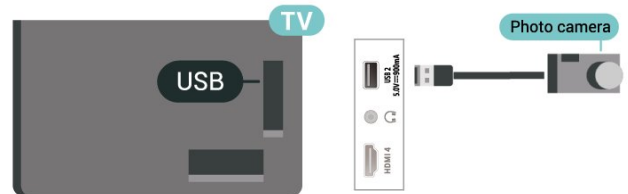
To view photos stored on your digital photo camera, you can connect the camera directly to the TV.

Use one of the **USB** connections on the TV to connect. Switch on the camera after you made the connection.

If the contents list does not appear automatically, press **SOURCES**, and select **USB**. Your camera might need to be set to transfer its content with PTP (Picture Transfer Protocol). Read the user manual of the digital photo camera.

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 to Ultra HD if the resolution of the photo is higher. You cannot play a video with native resolution higher than Ultra HD on any of the USB connections.

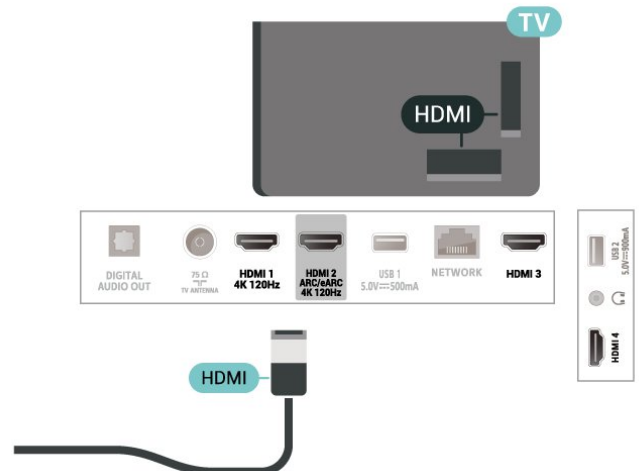


For more information on viewing photos, in **Help**, press the colour key **Keywords** and look up **Photos, Videos and Music**.

8.11

Camcorder

For best quality, use an HDMI cable to connect the camcorder to the TV.



Computer

You can connect your computer to the TV using an Ultra High Speed certified HDMI cable and use TV as a PC monitor.

* Note for Nvidia Graphics card users:

If you connect your computer to TV via HDMI, Nvidia card may automatically output Variable Refresh Rate (VRR) video to TV when TV's HDMI Ultra HD setting is **Optimal (Auto Game)** or **Optimal (Auto Game 120Hz Pro)**. Please always ensure to turn off VRR function in graphics card before you change TV's HDMI Ultra HD to **Optimal** or **Standard**, the TV UI selection **Optimal** or **Standard** will turn off VRR support in TV.

* Note for AMD Graphics card users:

If you connect your computer to TV via HDMI, please ensure following settings in graphics card used to have proper performance.

- If graphics card output video is 4096 x 2160p or 3840 x 2160p and RGB pixel format is used, RGB 4:4:4 pixel format studio (limited RGB) shall be set in computer graphic card.

- If graphics card output video is 2560 x 1440p 120Hz and RGB pixel format is used, RGB 4:4:4 Pixel Format PC Standard (Full RGB) shall be set in computer graphic card.

Connect Your TV

9.1

Network and Internet

Home Network

To enjoy the full capabilities of your Philips Google 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

⚙️ Settings > Network & Internet > Wi-Fi > On/Off.

Make the Connection

⚙️ Settings > Network & Internet > Wi-Fi > On/Off

- 1 - In the list of found networks, select on your wireless network. If your network is not in the list because the network name is hidden (you switched off the SSID broadcast of the router), select Add New Network to enter the network name yourself.
- 2 - Depending on the type of router, enter your encryption key - WPA2 or WPA3. If you entered the encryption key for this network before, you can select OK to make the connection immediately.
- 3 - A message will be shown when the connection is

successful.

Problems

Wireless network not found or distorted

- Microwave ovens, DECT phones or other Wi-Fi 802.11b/g/n/ac 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

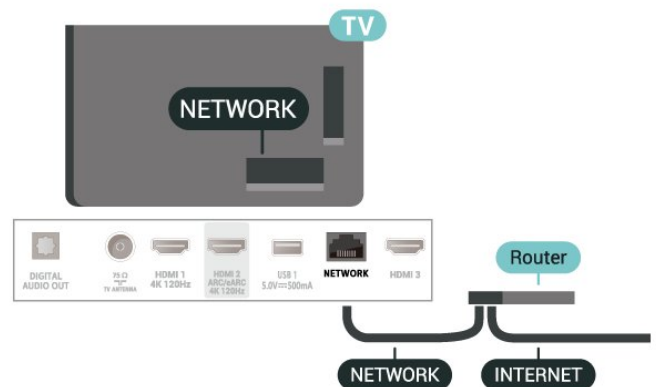
- If the connection fails, you can check the DHCP (Dynamic Host Configuration Protocol) setting of the router. DHCP should be switched on.

In Help, press the colour key ■ **Keywords** and look up **Troubleshooting** for more information.

Wired Connection

What You Need

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



Network and Internet Settings

View Network Settings

⚙️ Settings > Network & Internet > View network settings.

You can view all current network settings here. The IP and MAC address, signal strength, speed, encryption method, Address/Netmask/Gateway/DNS of IPv4 or IPv6, etc.

Switch On with Wi-Fi (WoWLAN)

⚙️ Settings > Network & Internet > Switch On with Wi-Fi (WoWLAN).

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

Switch on with Chromecast

⚙️ Settings > Network & Internet > Switch on with Chromecast.

Set it On to allow this TV to be switched on from a Chromecast app on your mobile device. Power consumption of the TV in standby status will be higher when switched this on. The Wi-Fi (WoWLAN) setting should be turned on firstly before you can change the setting of Switch on with Chromecast.

Digital Media Renderer - DMR

⚙️ Settings > Network & Internet > Digital Media Renderer - DMR.

If your media files do not play on your TV, make sure that the Digital Media Renderer is switched on. As a factory setting, DMR is switched on.

9.2

Google Account

Sign In

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

By signing in you will be able to play your favourite games across phone, tablet and TV. You will also get customised 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). 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 > Account & Sign-in and press OK.
- 2 - Select Sign In and press OK.
- 3 - Select Use your remote and press OK.
- 4 - With the on-screen keyboard, enter your email address and press OK.
- 5 - Enter your password and press OK to sign in.
- 6 - Press ⬅️ (left) repeatedly if necessary, to close the menu.

Internet

10.1

Start Internet

You can browse the Internet on your TV. You can view any Internet website but most of them are not prepared for a TV screen.

- Some plug-ins (e.g. to view pages or videos) are not available on your TV.
- You cannot send or download files.
- Internet pages are shown one page at a time and full screen.

To start the Internet browser:

- 1 - Press **HOME**.
- 2 - Select **Your apps > WEB BROWSER** (second row of icons in Basic mode) and press **OK**.
- 3 - Enter an Internet address and select to confirm.
- 4 - To close Internet, press **Back**, and then confirm to leave on message screen.

* Note: If **WEB BROWSER** is not on **Your Apps** row, you can add the app manually.


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 open the content of a connected USB storage device. You can 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.

* Note: HDMI device listed in Source list as Unregistered cannot be controlled with the TV's remote control as communication protocol is limited.

Quick Menu and Frequent Settings

In the Quick Menu and Frequent settings, you will find a quick way to access TV functions or setting menus.

To open Quick Menu / Frequent settings and open an item:

- 1 - Press  Quick Menu / MENU to open Quick Menu.
- 2 - Press the arrows  (Left) or  (right) to switch between Quick Menu and Frequent settings.
- 3 - Select an item and press OK to open or start it.
- 4 - Press  Back to close Quick Menu or Frequent settings without starting anything.

* Note: Quick Menu and Frequent settings are not available on third party TV apps.

Display and Sound

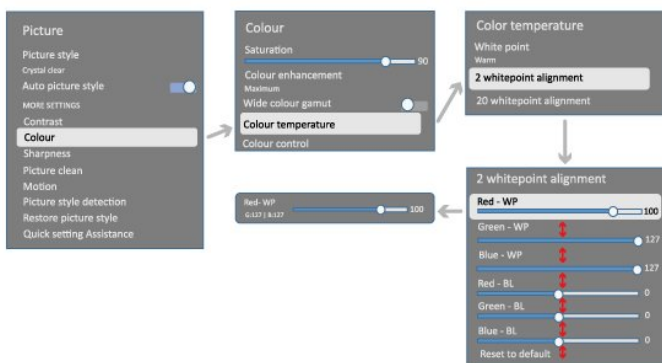
13.1

Picture

Picture Settings

About Picture Settings Menu

The picture setting menu provides an easy flow to access multi-level picture settings from general to advanced. For some picture settings, values can be changed by breakaway menu to let you view all the setting values and preview the effects that will be applied.



On the first level of Picture setting menu, you can always select an item and press **OK** key to go to next level options. If a breakaway menu is appeared, you can slide or tick to select the setting values and preview the effect and then press **OK** to confirm the change. If there is other setting options on same level, you can press **▲** (up) or **▼** (down) key to scroll to other setting options and continue the setting without leaving from the breakaway menu. Once all setting changes are done, you can keep pressing **←** **Back** key to leave or close the setting menus.

Picture Style

Select a style

⚙ Settings > Display & Sound > Picture > Picture style.

Alternately, select from **🏠 HOME > Dashboard > Picture > Picture style.**

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

- Personal - The picture preferences you set during the first start up.
- Crystal Clear - Ideal for daylight viewing.
- Home Cinema - Ideal for daily movie home

entertainment experience.

- ECO - Most energy conscious setting.
- Movie - Ideal for watching movies with original studio effect.
- Game* - Ideal for playing games.
- Monitor** - Ideal for computer application display. Original video is displaying with minimum processing.
- Calman - For Calman colour Calibration.

* Picture style - Game is only available in HDMI video and streaming video apps application.

** Picture style - Monitor is only available when HDMI source video is applicable for PC application.

When TV receives HDR signal (Hybrid Log Gamma, HDR10 and HDR10+), select a picture style below:

- HDR Personal
- HDR Crystal Clear
- HDR Home Cinema
- HDR Movie
- HDR Game
- HDR Monitor
- HDR Calman - For Calman colour Calibration, only available for applicable models.

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

- HDR Personal
- HDR Crystal Clear
- Dolby Vision Bright
- Dolby Vision Dark
- Dolby Vision Game

Restore Picture style

⚙ Settings > Display & Sound > Picture > Restore picture style.

Select to restore the picture style.

Auto Film Picture style

Preferred Film Picture style

⚙ Settings > Display & Sound > Picture > Auto Film Picture style > Preferred Film Picture style.

You can select which Picture style will be automatically set when film contents is detected. The preferred Film Picture style option is depending on the availability of **⚙ Settings > Display & Sound > Picture > Picture style.**

*Note: To automatically detect film content and set your preference Picture style, you need to switch on the Auto Film Picture style from **⚙ Settings > Display & Sound > Picture > Auto Film Picture style > Auto Film Picture style.**

Switch on/off Auto Film Picture style

⚙ Settings > Display & Sound > Picture > Auto Film Picture style > Auto Film Picture style.

Switch on or off to detect film content automatically and set your preference in the ⚙ Settings > Display & Sound > Picture > Auto Film Picture style > Preferred Film Picture style.

More Picture Settings

Contrast

Brightness

Ambient Light Level Optimization

⚙ Settings > Display & Sound > Picture > Contrast > Brightness > Ambient light level optimization.

Switch on to adjust the picture settings automatically to the lighting conditions of the room.

Backlight Contrast

⚙ Settings > Display & Sound > Picture > Contrast > Brightness > Backlight contrast.

Adjust the contrast value of the picture. You can decrease contrast value to reduce power consumption.

Contrast Modes

⚙ Settings > Display & Sound > Picture > Contrast > Brightness > Contrast mode.

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

Video Level

⚙ Settings > Display & Sound > Picture > Contrast > Brightness > Video level.

Adjust the video contrast level.

Dark Details

Gamma

⚙ Settings > Display & Sound > Picture > Contrast > Dark details > Gamma.

To set a non-linear setting for picture luminance and

contrast.

Note: Not available on some models when **Ambient dark detail optimization** or **Dark detail optimization** is set to **On**.

Black Level

⚙ Settings > Display & Sound > Picture > Contrast > Dark details > Black level.

To set the black level of picture.

Note: Setting of black level much away from reference value (50) may result lower contrast (dark detail disappear or black picture become grey).

Contrast Enhancement

Dynamic Enhancement Level

⚙ Settings > Display & Sound > Picture > Contrast > Contrast enhancement > Dynamic enhancement level.

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

Note: Not available when HDR signal is detected. Not available in **Monitor** mode.

HDR Control

HDR Tone Mapping

⚙ Settings > Display & Sound > Picture > Contrast > HDR control > HDR tone mapping.

Set the method used in HDR tone mapping processing. **Off**, **Off/HGiG** is to disable TV internal tone mapping or follow HGiG (HDR Gaming Interest Group) gaming HDR standard to matching gaming device. **Standard** is to follow HDR standard metadata.

Note: Available when HDR10 or HDR10+ signal detected.

HDR Effect Settings

⚙ Settings > Display & Sound > Picture > Contrast > HDR control > HDR10 effect / HDR10+ effect / HLG effect.

When HDR10 / HDR10+ / HLG signal detected and HDR tone mapping is not set to **Off** or **Off/HGiG**, you can adjust the HDR effect level to **Minimum**, **Medium** or **Maximum** for each type of HDR contents.

Colour

⚙ Settings > Display & Sound > Picture > Colour.

Saturation

⚙ Settings > Display & Sound > Picture > Colour > Saturation.

To adjust the value of saturation for the colours.

Note: not available when picture style is Monitor or HDR Monitor.

Adjust the tint setting

⚙ Settings > Display & Sound > Picture > Colour > Tint.

To adjust the value of tint setting.

Adjust the colour enhancement

⚙ Settings > Display & Sound > Picture > Colour > Colour enhancement.

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

Note: not available when Dolby Vision signal is detected and picture style is Monitor / HDR Monitor

Adjust the wide colour gamut

⚙ Settings > Display & Sound > Picture > Colour > Wide colour gamut.

To switch on/off of wide colour gamut. Applicable to some TV models only.

Adjust colour temperature

⚙ Settings > Display & Sound > Picture > Colour > Colour temperature > Whitepoint.

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

⚙ Settings > Display & Sound > Picture > Colour > Colour temperature > 2 whitepoint alignment or 20 whitepoint alignment.

Customise the whitepoint alignment based on the selected colour temperature of the picture.

Colour control

⚙ Settings > Picture > Advanced > Colour > Colour control.

Colour control setting is only available when Colour

enhancement is set to Off. To adjust or reset to default value of Hue, Saturation and Intensity for the colour Red, Yellow, Green, Cyan, Blue and Magenta respectively. If you want to reset all value to default, select Reset all to default.

Sharpness

Enhancement

⚙ Settings > Display & Sound > Picture > Sharpness > Enhancement.

To adjust the sharpness value of the picture.

Texture enhancement

⚙ Settings > Display & Sound > Picture > Sharpness > Texture enhancement.

Switch on to have a superior sharpness in line edges and details. Not available when Picture format is set to Fill Screen.

Picture Clean

Noise reduction

⚙ Settings > Display & Sound > Picture > Picture clean > Noise reduction.

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

MPEG Artefact Reduction

⚙ Settings > Display & Sound > Picture > Picture clean > Artefact Reduction.

Select Off, Maximum, Medium, or Minimum to have different degrees of smoothing the artefact in digital video content. Artefact is mostly visible as small blocks or jagged edges in on-screen images.

Motion

Motion styles

⚙ Settings > Display & Sound > Picture > Motion > Motion styles.

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

Select one of the motion styles to have different viewing experience on motion video. (Off, Pure Cinema, Movie, Standard, Smooth, Personal)

Not available for below cases:

- **Settings** > **Display & Sound** > **Picture** > **Picture style** > **Monitor**
- **Settings** > **Display & Sound** > **Picture** > **Picture style** > **Game**

Smoothness

- **Settings** > **Display & Sound** > **Picture** > **Motion** > **Smoothness**.

To make picture movement smooth by minimizing judder.

Select from **0** to **10** to have different degrees for reducing the motion judder, visible in movies on TV. Select **0** when noise appears in playing moving picture on-screen.

Note: Only available when **Motion styles** set to **Personal**.

Blur reduction

- **Settings** > **Display & Sound** > **Picture** > **Motion** > **Blur reduction**.

To reduce the blur to makes picture movement clear and sharp.

Select from **0** to **10** to have different degress for reducing motion blur. Visible in movies on TV. Select **0** when noise appears in playing moving picture on-screen.

Note: Only available when Motion styles set to Personal.

Quick Picture Setting

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

To set the picture in a few easy steps:

- 1 - Select **Settings** > **Display & Sound** > **Picture**.
- 2 - Select **Quick Picture Setting**, and press **OK**.
- 3 - Use the navigation keys to select your preferable source, sharpness, contrast, colour and motion settings.
- 4 - Select **Finish** or press **◀** (left) repeatedly if necessary, to close the menu.

13.2

Screen

Picture Format

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

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

- 1 - Press **Settings** > **Display & Sound** > **Screen** > **Picture format** > **Fill Screen**, **Fit to Screen**, **Wide Screen** and **Original**, and press **OK**.

- 2 - Press **◀** (left) repeatedly if necessary, to close the menu.

- **Fill Screen** – automatically enlarges the picture to fill the screen. Picture distortion is minimal, subtitles remain visible. Not suitable for PC input. Some extreme picture content can still show black bars. Picture content aspect ratio may change.
- **Fit to Screen** – automatically zooms in the picture to fill the screen without distortion. Black bars may be visible. Not suitable for PC input.
- **Wide Screen** – automatically zooms in the picture to 16:9 full screen. Picture content aspect ratio may change.
- **Original** – automatically zooms in the picture to fit the screen with original aspect ratio. No content lost visible.

To format the picture manually:

- 1 - Press **Settings** > **Display & Sound** > **Screen** > **Picture format** > **Advanced** and press **OK**.
- 2 - Use **Shift**, **Zoom**, and **Stretch** to adjust the picture.
- 3 - Or select **Undo** to return to the setting the picture had when you opened **Picture Format**.
- **Shift** – Select on the arrows to shift the picture. You can only shift the picture when it is zoomed in.
- **Zoom** – Select on the arrows to zoom in.
- **Stretch** – Select on the arrows to stretch the picture vertically or horizontally.
- **Undo** – Select to return to the picture format you started with.

Some Picture format setting selections may not be available in some conditions. For example, in video streaming, Android app application, gaming mode, etc.

Sound

Sound Style

Select a style

⚙ Settings > Display & Sound > Sound > Sound style.

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

- AI mode – There are ideal styles for watching movies, listening to music or playing a game. Select AI mode for intelligent switching of sound style base on audio content.
- Original – Most neutral sound setting
- Entertainment – Ideal for watching movies
- Music – Ideal for listening to music
- Spatial Music – Ideal for gaming
- Dialogue – Ideal for speech
- Personal – Access to a more in depth sound settings.

Customise personal settings

1 – Set the sound style to **Personal**.

2 – Go to ⚙ Settings > Display & Sound > Sound > Personal settings to change personal sound settings.

Restore personal settings

⚙ Settings > Display & Sound > Sound > Personal settings > Restore personal mode.

Select to restore personal sound settings.

Personal Settings

Speaker virtualizer

⚙ Settings > Display & Sound > Sound > Personal settings > Speaker virtualizer.

Select **On** or **Auto (Dolby Atmos)** 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. Select **Off** to turn the function off.

Clear dialogue

⚙ Settings > Display & Sound > Sound > Personal settings > Clear dialogue.

Select **On** to get an improved sound quality for speech programme.

AI Equalizer

⚙ Settings > Display & Sound > Sound > Personal settings > AI Equalizer.

Select **On** to enable intelligent equalizer adjustment based on audio content and custom settings.

Custom AI Equalizer

⚙ Settings > Display & Sound > Sound > Personal settings > Custom AI Equalizer.

Press the **Arrow / navigation keys** to adjust the level of AI Equalizer.

Restore personal settings

⚙ Settings > Display & Sound > Sound > Personal settings > Restore personal mode.

Select to restore personal sound settings.

TV Placement

TV placement

⚙ Settings > Display & Sound > Sound > TV placement.

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

DTS Play-Fi

DTS Play-Fi Wireless Surround

DTS Play-Fi

⚙ Settings > Display & Sound > Sound > DTS Play-Fi.

With DTS Play-Fi on your Philips TV, you can connect to compatible speakers to stream audio wirelessly to other rooms in your house.

Note: Settings for Multiroom TV Audio are not available when connected to the DTS Play-Fi Headphones app or playing music from the DTS Play-Fi app.

To stream audio wirelessly to speakers, you will need:

- Philips Smart TV that supports DTS Play-Fi
- DTS Play-Fi compatible device
- DTS Play-Fi app on your Philips TV
- Mobile device such as your phone or tablet

- Philips Sound app installed on your phone or tablet
- Wi-Fi network

Setup to connect DTS Play-Fi compatible device

- 1 - Download Philips Sound app and install the App on your phone or tablet.
- 2 - Use Philips Sound app to search and setup DTS Play-Fi compatible device. Make sure the DTS Play-Fi device is connected with same Wi-Fi network of your TV.
- 3 - On your Philips TV, open the pre-installed DTS Play-Fi app and select **Connect Speakers** to search DTS Play-Fi compatible devices.
- 4 - When the DTS Play-Fi devices is successfully connected with your TV, you can select the devices from device list and adjust the volume.
- 5 - Now you can start to stream audio from your TV to multiple DTS Play-Fi devices.

DTS Play-Fi Wireless Surround

With Play-Fi app on your TV, you can set up surround sound with TV speakers, soundbar and subwoofer.

- 1 - Launch DTS Play-Fi App on TV
- 2 - Move to **DTS Play-Fi Wireless Surround** tab and select 'Begin Setup...'
- 3 - Follow the on-screen instruction to set TV speakers and DTS Play-Fi compatible devices as a surround sound system.

DTS Play-Fi Home Theater

Experience immersive home theater audio with Play-Fi wireless subwoofers, soundbars, front speakers, surround speakers, or a Play-Fi receiver that powers home theater speakers.

Play-Fi Speakers as Front TV Speakers

- You may output TV audio to a pair of Play-Fi speakers such as the TAW6205, TAW6505 or TAFW1.
- TV speakers will be muted when connected to Play-Fi speakers.
- Use the Play-Fi app on TV to set up the Play-Fi speakers.

- 1 - Select **Play-Fi Wireless Home Theatre**
 - 2 - Select **Two** as the Front Speakers
 - 3 - Follow the setup wizard to complete the setup.
- Setup Home Theater system with your TV and Play-Fi Speakers**
- 1 - On Play-Fi app, select **DTS Play-Fi Home Theater > Setup > Connect Speakers** to connect all of your Play-Fi devices. If the devices are already connected, you can select **My speakers are connected...** to go to next step.
 - 2 - Setup to assign the **Front Speaker, Surround Speakers, Subwoofer** to connected Play-Fi devices. The graphic on left side will show the positions of the speakers.

- 3 - Suggest to use **TV+ Two** as it provides dedicated center channel for dialog clarity.

- 4 - Once the devices are assigned, select **Continue...** to complete the Home Theater system setup.

On **Settings** menu of Home Theater system. You can select **Distance To Speakers** to choose proper distance or select **Disable Home Theater, Disband Setup** if necessary.

Note:

1. Wireless surround/Stereo pair should proceed under Play-Fi Home Theater.
2. The features depend on TV model and Play-Fi speakers in use.

Mimi Sound Personalisation settings

Mimi Sound Personalization settings

⚙ **Settings > Display & Sound > Sound > Mimi sound personalisation.**

Mimi Sound Personalization

Mimi Sound Personalization is a technology that adapts the audio signal of the TV in real time to the user's hearing ability. It restores details in the audio signal that would otherwise not be heard by users with less-than-perfect hearing, so that they hear more and experience better sound, thereby enhancing the TV viewing experience.

How do I test my hearing and set up my hearing profile?

Open Mimi Sound Personalization under ⚙ **Settings > Display & Sound > Sound > Mimi sound personalisation > Configure.** Create your Hearing ID with a short hearing test with the Mimi Hearing Test app, or create a profile based on your year of birth. The Hearing ID can be added to the television with a QR code, which will sync your Hearing Test app with the TV.

EasyLink 2.0

Control the sound settings of the HDMI sound system via EasyLink 2.0

⚙ **Settings > Display & Sound > Sound > EasyLink 2.0.**

You can adjust the individual sound settings of the HDMI sound system via **Frequent settings** or **Display & Sound > Sound**. This is only applicable with EasyLink 2.0 compliant HDMI sound system. To switch on the control, make sure the **EasyLink 2.0**

sound control menu item is set to On under Channels and inputs > Inputs.

Select sound style

⚙ Settings > Display & Sound > Sound > EasyLink 2.0 > Sound style.

Switch between the preset sound styles. There are ideal styles for watching movies, listening to music, or other sound contents.

- Movie – Ideal sound style for watching movie.
- Music – Optimised for listening to music.
- Voice – Enhanced the dialog in the vocals.
- Stadium – Gives a feel of a large open-air stadium.
- Custom – Personalised sound mode. The setting is only available when connected device is compatible with TV for the feature.

Adjust bass level

⚙ Settings > Display & Sound > Sound > EasyLink 2.0 > Bass.

Press the **Arrow** / navigation keys to adjust the level of bass.

Adjust treble level

⚙ Settings > Display & Sound > Sound > EasyLink 2.0 > Treble.

Press the **Arrow** / navigation keys to adjust the level of treble.

Custom Equaliser

⚙ Settings > Display & Sound > Sound > EasyLink 2.0 > Custom Equaliser.

Adjustable frequency bands when the Sound style is set to Custom. Press **Arrow** / navigation keys to adjust the level of AI Equalizer. The setting is only available when connected device is compatible with TV for the feature.

Surround Sound

⚙ Settings > Display & Sound > Sound > EasyLink 2.0 > Surround Sound.

Select a surround effect from the preset types.

- Upmix – Upmix to take full advantage of all speakers.
- Standard – Speakers output follow the original channels.
- Surround AI – Optimum surround effect using AI

analysis.

DRC

⚙ Settings > Display & Sound > Sound > EasyLink 2.0 > DRC.

Select the preferred Dynamic Range Control (DRC).

- Auto – Dynamic range is automatically adjusted.
- On – Optimize the dynamic range.
- Off – Turn off dynamic range adjustment.

Height speakers

⚙ Settings > Display & Sound > Sound > EasyLink 2.0 > Height speakers.

Select the preferred height speakers movement. The setting is only available when connected device is compatible with TV for the feature.

- Auto – Dynamic movement follow contents.
- On – Always elevated.
- Off – Flat position.

Select sound stage

⚙ Settings > Display & Sound > Sound > EasyLink 2.0 > Sound stage.

Select a listening experience. The setting is only available when connected device is compatible with TV for the feature.

- Auto – Dynamic setting follow contents.
- On – Immersive Sound Stage, good for watching movies.
- Off – Crystal Sound Stage, good for listening to music and dialogue.

Reset all to default

⚙ Settings > Display & Sound > Sound > EasyLink 2.0 > Reset all to default.

Reset all the EasyLink 2.0 sound settings back to the original factory settings.

Room Calibration

Room calibration

⚙ Settings > Display & Sound > Sound > Room calibration.

This calibration will allow the TV to determine the acoustics in your room and provide optimized sound quality on the TV speakers that best match the

acoustics.

You need to pair your remote control with the TV before starting the setup and make sure the TV **Audio out** setting is **TV speakers**. For a more accurate result, please keep the room quiet.

To start the room calibration:

- 1 - Hold your remote control at the listening position and point it towards the TV during the tuning process.
- 2 - Select **Calibrate now** or **Calibrate again** to start the calibration.
- 3 - A test sound will be played and measured through your remote control. Hold your remote control and point it towards the TV, this can take several seconds.
- 4 - Once your TV speakers are successfully calibrated, select **Test** to listen to the sound before and after the TV speakers are calibrated. Select **Apply** to accept the setting or select **Try again** to redo the calibration.
- 5 - When room calibration setup is successful and applied, TV shall return to the Settings menu. Now go to **⚙ Settings > Display & Sound > Sound > Room calibration** and select **Apply calibration** to tune the audio output from TV speakers.

Advanced Sound Settings

Volume Control

Auto volume

⚙ Settings > Display & Sound > Sound > Advanced > Auto volume.

Select **On** or **Off** to switch on or off the auto volume adjustment.

Select **Night Mode** for a more comfortable quiet listening experience.

Delta volume

⚙ Settings > Display & Sound > Sound > Advanced > Delta volume.

The Delta volume setting can be used to adjust to balance the sound level difference between the TV channel and the HDMI source input. Press the **Arrow / navigation keys** to adjust the delta value for TV speaker volume.

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

Dolby Atmos Notification

⚙ Settings > Display & Sound > Sound > Dolby Atmos notification.

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

13.4

Audio Output

Speakers and eARC

Audio out

⚙ Settings > Display & Sound > Audio out.

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

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

- If you select **TV speakers off**, you permanently switch off the TV speakers.
- If you select **TV speakers**, the TV speakers are always on.

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

When the DTS Play-Fi compatible device is configured correctly and switched on, you can select **Play-Fi Wireless Home Theater** to set it as audio out device.

eARC

⚙ Settings > Display & Sound > Audio output > eARC.

Set eARC mode to **Automatic** or **Off**.

Digital Output Settings

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

Digital out format

⚙ Settings > Display & Sound > Audio output > Digital out format.

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

- **Stereo (uncompressed):** If your audio playback devices have no multichannel sound processing, select to only output stereo content to your audio playback devices.

- **Multichannel:** Select to output multichannel audio content (compressed multichannel sound signal) or stereo audio content to your audio playback devices.
- **Multichannel (bypass):** Select to output Dolby Digital Plus or DTS content to your audio playback devices or Home theatre system.

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

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

Digital out levelling

⚙ **Settings > Display & Sound > Audio output > Digital out levelling.**

Adjust the loudness level of the HDMI sound system.

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

Digital out delay

⚙ **Settings > Display & Sound > Audio output > Digital out delay.**

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

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

⚙ **Settings > Display & Sound > Audio output > Digital out offset.**

If you cannot set a delay on the Home Theatre System, you can set the TV to sync the sound. You can set an offset that compensates for the time necessary for the Home Theatre System to process the sound of the TV picture. You can set the value in steps of 5ms. Maximum setting is 60ms.

13.5

Ambilight

Turn Ambilight On or Off

Turn on Ambilight

Press **AMBILIGHT** to turn on, or you can turn on by selecting ⚙ **Settings > Display & Sound > Ambilight > Ambilight style > Enable.**

To switch off Ambilight:

- 1 – Press **AMBILIGHT**.
- 2 – Press **OK** on **Enable** option to switch on or off the

Ambilight.

- 3 – Press ⬅ (left) to go back one step or press ⬅ **Back** to close the menu.

Ambilight Style

Follow Video

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

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**.
- 2 – Scroll to **Follow Video**.
- 3 – Select the style you want and press **OK**.
- 4 – Press ⬅ (left) to go back one step or press ⬅ **Back** to close the menu.

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
- **Gaming** – Ideal for gaming

Follow Audio

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

If you select **Follow Audio**, you can select one of the styles that follow the dynamics of the sound.

To set the Ambilight Style:

- 1 – Press **AMBILIGHT**.
- 2 – Scroll to **Follow Audio**.
- 3 – Select the style you want and press **OK**.
- 4 – Press ⬅ (left) to go back one step or press ⬅ **Back** to close the menu.

The available **Follow Audio** styles are:

- **Lumina** – Ideal for watching music video
- **Disco** – Ideal for listening to loud retro music
- **Rhythm** – Ideal for listening to rhythmic music

Follow Colour

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

If you select **Follow colour**, you can select one of the preset colour styles.

To set the Ambilight Style:

- 1 - Press **AMBILIGHT**.
- 2 - Scroll to **Follow colour**.
- 3 - Select the style you want and press **OK**.
- 4 - Press **◀** (left) to go back one step or press **←** **Back** to close the menu.

The available **Follow colour** styles are:

- **Red lava** - static Red colour
- **Blue ocean** - static Blue colour
- **Green nature** - static Green colour
- **Warm white** - static Warm White colour
- **Cool white** - static Cool White colour
- **Personal colour** - Static colour of your choice. To set the colour for Ambilight static light, go to **⚙ Settings > Display & Sound > Ambilight > Personal colour** and pick a colour you like.

Support Your Team

You can set Ambilight to follow the team flag you select.

To set the Ambilight Style:

- 1 - Press **AMBILIGHT**.
- 2 - Select **Support your team** and press **OK**.
- 3 - Go to **⚙ Settings > Display & Sound > Ambilight > Support your team**, select the flag you want and press **OK**.
- 4 - Press **◀** (left) to go back one step or press **←** **Back** to close the menu.

Follow App

Follow App setting is available when you control Ambilight with **Philips TV Remote app**.

Personal Colour

Personal colour

⚙ Settings > Display & Sound > Ambilight > Personal colour.

To set the colour for Ambilight static light of your choice. You can pick a colour you like from the colour palette. This setting is only available when Ambilight

style is set to **Follow colour** and then **Personal colour** is selected.

Ambisleep

Ambisleep simulates sunset to help you unwind before you fall asleep. At the end of simulation, TV will automatically switch to standby.

Start Ambisleep

⚙ Settings > Display & Sound > Ambilight > Ambisleep > Start Ambisleep.

Select to turn on Ambisleep.

Duration

⚙ Settings > Display & Sound > Ambilight > Ambisleep > Duration.

Set the duration (in minutes) of the Ambisleep.

Brightness

⚙ Settings > Display & Sound > Ambilight > Ambisleep > Brightness.

Set the starting brightness of the Ambisleep.

Colour

⚙ Settings > Display & Sound > Ambilight > Ambisleep > Colour.

Select the light colour of your preference.

Sound

⚙ Settings > Display & Sound > Ambilight > Ambisleep > Sound.

Select the nature sound you like to use during Ambisleep.

The available nature sounds are:

- Campfire
- Rain
- Rainforest
- Tropical beach
- Waterfall
- Silent

Lounge Light Mode

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

Enable lounge light mode

⚙ Settings > Display & Sound > Ambilight > Lounge light > Enable on standby.

Switch on to allow lounge light mode activated when TV is on standby.

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

- 1 - Press **AMBILIGHT** key on remote control to activate Ambilight lounge light.
- 2 - Press navigation keys **◀** (left) or **▶** (right) to change different light effects.
- 3 - Press navigation keys **▲** (up) or **▼** (down) to adjust the brightness.
- 4 - To switch off the Ambilight lounge light, press **AMBILIGHT** key again.

Duration

⚙ Settings > Display & Sound > Ambilight > Lounge light > Duration.

Set the duration (in minutes) of the Lounge light mode.

Advanced Ambilight Settings

Brightness

⚙ Settings > Display & Sound > Ambilight > Advanced > Brightness.

Press the **Arrow** / navigation keys to set the level of Ambilight brightness.

Saturation

⚙ Settings > Display & Sound > Ambilight > Advanced > Saturation.

Press the **Arrow** / navigation keys to set the level of Ambilight saturation.

Neutralise the influence of a coloured wall on the Ambilight colours

⚙ Settings > Display & Sound > Ambilight > Advanced > Wall colour.

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

Set Ambilight to switch off immediately or slowly fade out when you switch off the TV

⚙ Settings > Display & Sound > Ambilight > Advanced > TV switch off > Fade out to off / Immediate switch off.

Warm white tuning

⚙ Settings > Display & Sound > Ambilight > Advanced > Warm white tuning.

The **Warm white tuning** tunes and locks your preferred colour for Ambilight. When **Ambilight style > Follow colour > Warm white** is unlocked, you can tune and lock white colour variations of Ambilight.

Ambilight Extension

Philips Wireless Home Speakers

Note: Before starting the setup, make sure the TV and your Philips Wireless Home Speakers are connected to the same Wi-Fi network.

With Ambilight extension, you can set up your Philips Wireless Home Speakers to follow the colours of Ambilight. Before starting the setup, make sure your Philips Wireless Home Speakers are turned on and connected to the same Wi-Fi network as the TV. Please give some time for the speakers to be ready if you have just turn it on before starting.

Press and hold the LED link button on the speaker for 3 seconds to start linking. If you have more than 1 speaker, repeat the same action for each speaker and press **BACK** key when you are done. The LED link button is located at the Philips Wireless Home Speakers.

Switch on/off Philips Wireless Home Speakers working with Ambilight

⚙ Settings > Display & Sound > Ambilight > Philips Wireless Home Speakers > Enable/Disable.

Configure

⚙ Settings > Display & Sound > Ambilight > Philips Wireless Home Speakers > Configure.

Configure the Philips Wireless Home Speakers to work with Ambilight. Follow the instructions on screen

to link maximum of 10 Speaker LEDs to your TV. For each linked Speaker LED, you can select the colour zone to follow relative to the TV and adjust the brightness of the light.

View configuration

⚙️ **Settings > Display & Sound > Ambilight > Philips Wireless Home Speakers > View configuration.**

View the current setup of the Philips Wireless Home Speakers working with Ambilight, network and Speaker LEDs.

Reset configuration

⚙️ **Settings > Display & Sound > Ambilight > Philips Wireless Home Speakers > Reset configuration.**

Reset current setup of the Philips Wireless Home Speakers.

Sunrise Alarm

Sunrise alarm uses Ambilight, music and weather information for a new wake up experience.

- TV wakes up at selected time and day set by you.
- Lights up Ambilight with fade-in colored screen and music.
- Slowly transit to weather forecast with matching backdrop.

To enter the Sunrise alarm setting menu:

- 1 - Press **Quick Menu / MENU** to open **Quick Menu**.
 - 2 - Select **Sunrise alarm** and press **OK** to open it.
- **Alarm**: set multiple alarms up to 5, for repeat/select days, On/Off settings.
 - **Backdrop**: follow weather or select from photo categories.
 - **Music**: music track to play during wake up.
 - **Switch on volume**: music volume to set during wake up.
 - **Weather**: settings for local weather forecast.
 - **Preview**: you can preview the wake up effect.

If TV in standby and alarm time is reached, TV shall wake up from standby. Wake-up screen fade-in, Ambilight is On, music fade-in and then show weather information with backdrop.

To exit Sunrise alarm, press **Standby / On**, **Back** or **HOME** key on remote control.

- **Standby / On**: exits the Sunrise app and switch TV to standby.
- **Back** : exits the Sunrise app and switch to last viewed TV source.

- **HOME** : exits the Sunrise app and switch to launcher.
- If Sunrise alarm is not exited to other application after 30 min since Sunrise wake-up, TV shall auto shutdown to standby.

Note:

Keep the network connection alive for Sunrise alarm to function properly. Sunrise alarm cannot operate when the TV clock mode is set to manual. Go to the settings menu and change the clock mode to automatic. Alarm will not work if Location is set to Shop.

Aurora

Aurora App is an application that enhances ambience of the TV living space with showpieces and colourful Ambilight. Aurora make use of imageries, animation, audio and Philips signature Ambilight to augment the living area to suit your new lifestyle.

To launch Aurora app:

- 1 - Press **Quick Menu / MENU** to open **Quick Menu**, select **Aurora** and press **OK** to open.
- 2 - Alternately, press **HOME** to go to Home screen. Select **Aurora** app from **Your apps** row and press **OK** to open.

Categories

There are four categories of themes: **Ambience**, **Scenes**, **Gallery**, and **Clocks**. You can download more themes when your TV connected to the internet. Use the navigation keys to browse horizontally / vertically on the menu. Press **OK** on a theme to start the playback. Press **OK** on **Play all** to play all items in this category list, starting with the first item. Press **Back** to exit the Aurora application.

Put the TV to standby

You can set the duration of Aurora theme playback, the TV will go to standby when the time limit reached.

To put the TV to standby:

- 1 - When the Aurora app is activated, press **OPTIONS**.
- 2 - Select **1 hour**, **2 hours**, or **4 hours** to put the TV to standby.
- 3 - At two minutes before timer expiry, TV will show a dialogue to provide the options to go to standby immediately or postpone it to 1 or 2 hours later. The timer set to countdown or postpone cannot exceed the maximum allowed 4 hours.

Apps

14.1

About Apps

You can find your favorite Apps on **Your 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. You can use the **WEB BROWSER** app to surf the Internet.

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. Select the app you want to install and select **Install** button to start the installation. Once the app installation is done, you can select **Open** button to open the app, or **Uninstall** button to uninstall the app.

14.2

Google Play

Movies and TV

With **Google TV** app, 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** and select **Apps** tab.
- 2 - Select **Google TV** app and open it.
- 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** and select **Apps** tab.
- 2 - Select **Google TV** app and open it.
- 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 **TV EXIT**.

* Note: If **Google TV** is not on **Your Apps** row, you can search it in search field to **Open** or **Install** it.

Find more information on

www.support.google.com/googletv

Music

With **YouTube Music**, you can play your favourite music on TV.

You can buy new music on your computer or mobile device. Or, on your TV, you can sign up for All Access, the Google Play 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** and select **Apps** tab.
- 2 - Select **YouTube Music** app and open it.
- 3 - Select the music you want and press **OK**.
- 4 - To stop the Music app, press **Back** repeatedly or press **TV EXIT**.

* Note: If **YouTube Music** is not on **Your Apps** row, you can search it in search field to **Open** or **Install** it.

Find more information on

www.support.google.com/googletv
or support.google.com/youtubemusic

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** and select **Apps** tab.

- 2 - Select **Google Play Games** app and open it.
- 3 - Select a game to play or select a new game to install and press **OK**.
- 4 - When done, press **Back** repeatedly or press **TV** **EXIT** or stop the app with its dedicated exit/stop button.

* Note: If **Google Play Games** is not on **Your Apps** row, you can search it in search field to **Open** or **Install** it.

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

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** and select **Apps** tab.
- 2 - Select **Google Play Store** app and open it.
- 3 - Select the app you want to install and press **OK**.
- 4 - To close the **Google Play Store**, press **Back** repeatedly or press **TV** **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** and select **Apps** tab.
- 2 - Select **Google Play Store** app and open it.
- 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 **TV** **EXIT**.

* Note: If **Google Play Store** is not on **Your Apps** row, you can search it in search field to **Open** or **Install** it.

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

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.

14.3

Start or Stop an App

You can start an app from the Home screen.

To start an app:

- 1 - Press **HOME**.
- 2 - Move to **Your apps** row, select the app you want and press **OK**.
- 3 - You can also search the app in search field to **Open** or **Install** it.
- 4 - Alternately, you can go to **Settings > Apps > See all apps** or **Show system apps** to select an app to open.
- 5 - To stop an app, press **Back** or press **TV** **EXIT** or stop the app with its dedicated exit/stop button.

14.4

Manage Apps

Settings > 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 TV. Also, it is best to uninstall apps that you are not using anymore. You can select **Apps > See all apps** or **Unused apps** to list your installed or used apps.

For each installed app, you can also set the permissions for **Manage updates**, **App permissions**, **Special app access** and **Security**.

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

System

15.1

Accessibility

⚙️ Settings > System > Accessibility.

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

High contrast text

⚙️ Settings > System > Accessibility > High contrast text.

Turn on to make texts displayed with higher contrast for easier reading.

Text to speech

⚙️ Settings > System > Accessibility > Text to speech.

Set to convert the text into speech for blind or partially sighted people.

Accessibility shortcut

⚙️ Settings > System > Accessibility > Accessibility shortcut.

Quick access to Accessibility settings.

There are more services provided by Google, e.g., Captions, TalkBack, Switch Access to help your TV more accessible. To find more information about the services please visit www.support.google.com/google-tv/answer/10070337

15.2

About


System Software Update

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.

With the message on screen, select **Update** and follow the instructions on-screen.

You can also look for a software update yourself.

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

To look for a software update yourself:

- 1 - Select **⚙️ Settings > System > About > System update > Internet (recommended)** and press **OK**.
- 2 - The TV will look for an update on the Internet.
- 3 - If an update is available, you can update the software right away.
- 4 - A software update can take several minutes. Do not press the  key on the TV or remote control.
- 5 - When the update is done, the TV will return to the channel you were watching.

Update from USB

It might be necessary to update the TV software.

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

To update the TV software:

- 1 - Select **⚙️ Settings > System > About > System update**.
- 2 - Select **USB** and press **OK**.


Identify the TV

- 1 - Insert the USB flash drive into one of the USB connections of the TV.
- 2 - Select **Write to USB** and press **OK**. An identification file is written on the USB flash drive.

Download the software

- 1 - Insert the USB flash drive into your computer.
- 2 - On the USB flash drive, locate the file **update.htm** and double click it.
- 3 - Click **Send ID**.
- 4 - If new software is available, download the .zip file.
- 5 - After the download, unzip the file and copy the file **autorun.upg** onto the USB flash drive. Do not place this file in a folder.

Update the TV software

- 1 - Insert the USB flash drive into the TV again. The update starts automatically.
- 2 - A software update can take several minutes. Do not press the  key on the TV or remote control. Do not remove the USB flash drive.
- 3 - When the update is done, the TV will return to the channel you were watching.

If a power cut occurs during the update, never remove the USB flash drive from the TV. When the

power returns, the update will continue.

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

Look for OAD Updates

Scan to search for an OAD (Over-the-air Download) software update.

To look for OAD updates:

- 1 - Select **⚙ Settings > System > About > System update > Look for OAD updates.**
- 2 - Follow the instructions on screen.

* Note: The OAD software update is only available in selected countries.

Automatic Software Update

To switch on Automatic software update to update your TV software automatically. Leave the TV in standby.

- 1 - Select **⚙ Settings > System > About > System update > Automatic Software Update.**
- 2 - Follow the on-screen instruction.
- 3 - Press **◀** (left) repeatedly if necessary, to close the menu.

When the setting is enabled, the upgrade gets downloaded when the TV is powered ON and installed 15min after the TV has gone to standby (as long as there are no alarms scheduled).

When the setting is disabled, the "Upgrade Now" / "Later" OSD will be shown.

View Software Update History

Display the list of software versions that are successfully update on the TV.

To view the software update history:

- 1 - Select **⚙ Settings > System > About > System update > View software update history.**
- 2 - The software update history on this TV will be listed.

Reset

Rinstall TV

⚙ Settings > System > About > Reset > Factory reset.

Reset and redo the complete TV installation.

Reset all settings value to original TV settings

⚙ Settings > System > About > Reset > Factory settings.

Reset all settings to factory settings.

Status

Display TV status information

⚙ Settings > System > About > Status.

To display the TV status about IP address, Device, MAC address, Bluetooth® address, Serial Number, etc.

Legal Information

Open Source Software

This television contains open source software. TP Vision Europe B.V. hereby offers to deliver, upon request, a copy of the complete corresponding source code for the copyrighted open source software packages used in this product for which such offer is requested by the respective licences.

This offer is valid up to three years after product purchase to anyone in receipt of this information. To obtain the source code, please write in English to...

open.source@tpv-tech.com

Open Source License

About Open Source License


README for the source code of the parts of TP Vision Europe B.V. TV software that fall under open source licenses.

This is a document describing the distribution of the source code used on the TP Vision Europe B.V. TV, which fall either under the GNU General Public License (the GPL), or the GNU Lesser General Public License (the LGPL), or any other open source license. Instructions to obtain copies of this software can be found in the Directions For Use.

TP Vision Europe B.V. MAKES NO WARRANTIES WHATSOEVER, EITHER EXPRESS OR IMPLIED, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, REGARDING THIS SOFTWARE. TP Vision Europe B.V. offers no support for this software. The preceding does not affect your warranties and statutory rights regarding any TP Vision Europe B.V. product(s) you purchased. It only applies to this source code made available to you.

System Information

To view the current TV software version:

1 - Select  Settings > System > About > Model, Android TV OS version, Android security patch level, Kernel version, Android TV OS build, SW version, Netflix ESN, Nagra device ID.

2 - The version, release notes and creation date are shown. Also, the Netflix ESN Number and other information are shown if available.


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

15.3

Date and Time


 Settings > System > Date & Time.

Automatic date & time

 Settings > System > Date & Time > Automatic date & time.


Set to use network-provided time or Off to use system time.

Set date

 Settings > System > Date & Time > Set date.


Set current date.

Set time

 Settings > System > Date & Time > Set time.


Set current time.

Set time zone

 Settings > System > Date & Time > Set time zone.

Set current time zone.

Use 24-hour format

 Settings > System > Date & Time > Use 24-hour format.

Set to use 24-hour format to display the time.

15.4

Language

Change the language of the TV menu and messages


 Settings > System > Language.

Select the language to display TV menu and messages.

15.5

USB Keyboard Settings

Set the keyboard layout for installed USB keyboard

 Settings > System > Keyboard > USB keyboard settings.


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

15.6

Storage

Internal shared storage

You can see how much storage space – the internal TV memory – you are using for your apps, videos, music, etc. You can see how much free space you still have available for installing new apps. Check your storage if apps start to run slow or in case of app trouble.

Select  Settings > System > Storage to see how much storage you are using.

15.7

Ambient Mode

Settings for Ambient mode

 Settings > System > Ambient Mode.

Ambient mode is the screen saver to avoid displaying still images for a longer period of time. You can set the photo source, display weather or time information, adjust the speed of slideshow.

Power and Energy

Set the Power on behavior

⚙️ **Settings** > **System** > **Power & Energy** > **Power on behavior**.

Set the TV stay on Home screen or on Last input when power on the TV.

Set Energy saver

⚙️ **Settings** > **System** > **Power & Energy** > **Energy saver**.

Set the time to turn off TV display automatically to save energy. You can set the time to 15 minutes, 30 minutes, 1 hour, 4 hours, 8 hours, 12 hours, 24 hours, or Never.

Set screen off to save energy consumption

📺 **Quick Menu / MENU** > **Frequent Settings** > **Screen off**.

Alternatively, go to ⚙️ **Settings** > **System** > **Power & Energy** > **Screen off**. You can also press **+ OPTIONS** key to access Screen off under TV and HDMI sources.

Select **Screen off**, the TV screen is switched off. To switch the TV screen back on, press any key (except **AMBILIGHT***, **Volume** + or - , and navigation keys) on the remote control.

* **AMBILIGHT** key is only available on models which support Ambilight function.

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

📺 **Quick Menu / MENU** > **Frequent Settings** > **Sleep timer**.

Alternatively, go to ⚙️ **Settings** > **System** > **Power & Energy** > **Sleep timer**.

TV switches to standby mode automatically after a preset time. You may stop the timer when the notification pop-up at last two minutes.

Set TV switch off timer

⚙️ **Settings** > **System** > **Power & Energy** > **Switch off timer**.

Press the **Arrow / navigation keys** to adjust the value. The value 0 (Off) deactivates the automatic switch off.

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

- TV switches off if receiving a TV signal but you don't press a key on the remote control during a 4 hour period.
- TV switches off if not receiving a TV signal nor a remote control command for 10 minutes.
- If you use the TV as a monitor or use a digital receiver to watch TV (a Set-Top Box - STB) and you do not use the remote control of the TV, you should deactivate this automatic switch off, to set the value to 0.

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/googletv

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 - Tap 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.

System Sounds

Settings for system sound

⚙️ **Settings** > **System** > **System sounds**.

Enable or disable the system sounds.

Childlock

Set Code and Change Code

Set a new code or reset the change code

⚙ Settings > System > Child lock > Set code / Change code.

The child lock code is used to lock or unlock channels or programmes.

Note:

If you forgot your PIN code, you can override the current one by using the code **8888** and entering a new one.

Lock for Programme

Set a minimum age to watch rated programmes (only available for certain countries)

⚙ Settings > System > Child lock > Parental rating.

Retail Mode Settings

Home or Shop

Select the location of your TV

⚙ Settings > System > Retail mode settings > Location.

Select **Shop**, the picture style settings will be restored to default, and can adjust shop settings. Shop mode is for in-store promotion.

Shop Setup

Adjust shop settings

⚙ Settings > System > Retail mode settings > Shop setup.

If the TV is set to **Shop**, you can set the availability of a specific demo for in store use.

Adjust Picture and audio

⚙ Settings > System > Retail mode settings > Shop setup > Picture and audio.

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

Set Logos and banner

⚙ Settings > System > Retail mode settings > Shop setup > Logos and banner.

Set to display **Feature logos** or **Promotional Banner**, or **Off** to turn off.

Demo Me autostart and Ambilight Demo autostart

⚙ Settings > System > Retail mode settings > Shop setup > Demo Me autostart / Ambilight Demo autostart.

Turn **On/Off** the Demo Me or Ambilight Demo autostart.

Restart

⚙ Settings > System > Restart

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.

Remote and Accessories



Bluetooth® On or Off

Pair Accessory

Position the Bluetooth® device 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 Bluetooth® device 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 - Select  **Settings** > **Remote & accessories** > **Pair accessory**.
- 3 - Select **Search** and press **OK**. 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  (left) repeatedly if necessary, to close the menu.

Device Operation

To connect or disconnect a Bluetooth® device:

- 1 - Select  **Settings** > **Remote & accessories**.
- 2 - In the list, select a Bluetooth® device.
- 3 - Select **Connect** or **Disconnect** to connect or disconnect a Bluetooth® device.
- 4 - Press  (left) repeatedly if necessary, to close the menu.



To rename a Bluetooth® device:

- 1 - Select  **Settings** > **Remote & accessories**.
- 2 - In the list, select a Bluetooth® device.
- 3 - Select **Rename** to rename a Bluetooth® device.
- 4 - Press  (left) repeatedly if necessary, to close the menu.



You can connect or disconnect a wireless Bluetooth® device. You can also remove a Bluetooth® device

further. If you remove a Bluetooth® device, the device will be unpaired.

To remove Bluetooth® device:

- 1 - Select  **Settings** > **Remote & accessories**.
- 2 - In the list, select a Bluetooth® device.
- 3 - Select **Forget** to remove the Bluetooth® device.
- 4 - Press  (left) repeatedly if necessary, to close the menu.

To view the information of Bluetooth® device:


- 1 - Select  **Settings** > **Remote & accessories**.
- 2 - In the list, select a Bluetooth® device.
- 3 - The information of Bluetooth® device is listed on the bottom.
- 4 - Press  (left) repeatedly if necessary, to close the menu.

Remote Control

Pair Remote Control

Pairing or pairing again


When you start the initial TV installation, the TV invites you to press the **Home + Back** key to pair the remote control. If the pairing with the remote control was lost, you can pair it again by pressing the **Home + Back** key.

Alternatively, go to  **Settings** > **Remote & accessories** > **Remote control settings** > **Pair remote control**, then follow the on-screen instructions.

A message appears when the pairing is successful.

Remote Control Info

View the remote control information

 **Settings** > **Remote & accessories** > **Remote control settings** > **Remote control info**.

You can select **Version** to check the embedded software version of remote control or select **Battery level** to see current battery percentage.

Update Remote Control Software

Update remote control software

⚙ Settings > Remote & accessories > Remote control settings > Update remote control software.

Check available remote control software for updates. If a new software update is available for your remote control, you can start the software update. Please install new batteries or fully charge the battery, and then position your remote control within one meter from TV for updating software.

Videos, Photos and Music

From a Computer or NAS




You can view your photos or play your music and videos from a computer or a NAS (Network Attached Storage) in your home network.

The TV and computer or NAS must be in the same home network. On your computer or NAS, you need to install Media Server Software. Your Media Server must be set to share your files with the TV. The TV shows your files and folders as they are organised by the Media Server or as they are structured on your computer or NAS.

The TV does not support subtitles on video streams from a computer or NAS.



If the Media Server supports searching for files, a search field is available.

To browse and play the files on your computer:



- 1 - Press  SOURCES, select **Network** and press **OK**.
- 2 - Select **Network Devices** and press  (right) to select the device you need.
- 3 - Once a Network device is connected, the **Network Devices** item will be replaced by connected device name.
- 4 - You can browse and play your files.
- 5 - To stop playing videos, photos and music, press  **EXIT**.

Favourites Menu

Add a folder or a file to favourites menu




- 1 - Press  SOURCES, select USB and press **OK**.
- 2 - Select USB Devices and select a folder or a file.
- 3 - Press  **Mark favourite** (green) to add the selected folder or file to the favourite menu.

View favourite files





- 1 - Press  SOURCES, select USB and press **OK**.
- 2 - Select  **Favourites**.
- 3 - You can view all favourite files in the list.

Most Popular Menu and Last Played Menu

View most popular files or clear the list

- 1 - Press  SOURCES, select USB and press **OK**.
- 2 - Select USB Devices and select  **Most popular**.
- 3 - Select one of the file and press **OK** to view files or press  **Clear all** to clear the list.

View last played files







- 1 - Press  SOURCES, select  **USB** and press **OK**.
- 2 - Select USB Devices and select  **Last played**.
- 3 - Select one of the file and press **OK** to view files or press  **Clear all** to clear the list.

From a USB Connection

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

With the TV switched on, plug in a USB flash drive or a USB Hard Drive to one of the USB connections. The TV detects the device and will list your media files.





If the list of files does not appear automatically:

- 1 - Press  SOURCES, select USB and press **OK**.
- 2 - Select USB Devices and press  (right) to select the USB device you need.
- 3 - You can browse your files in the folder structure you have organised on the drive.
- 4 - Press  **Play all** to play all files in the USB folder or press  **Mark favourite** to add the selected folder to favourite menu -  **Favourites**.
- 5 - To stop playing videos, photos and music, press  **EXIT**.

Play your Videos

Play Videos

Open video folder

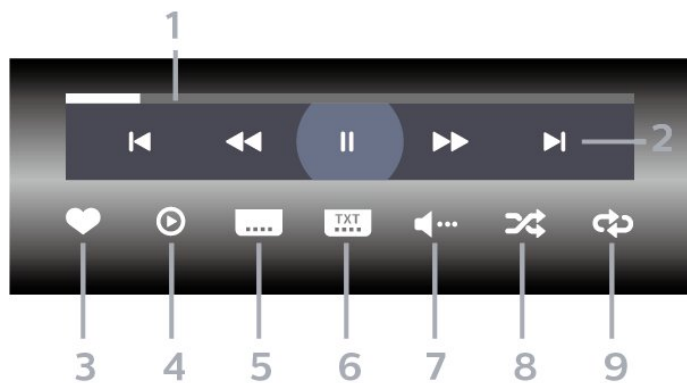
- 1 - Press  SOURCES, select USB and press **OK**.
- 2 - Select USB Devices and press  (right) to select the USB device you need.
- 3 - Select **Videos**, you can press  **Mark favourite** to add the video folder to favourite menu -  **Favourites**.

Play a video

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

- 2 - Select **USB Devices** and press **➤** (right) to select the USB device you need.
- 3 - Select **Videos** and select one of video, you can press **■** **Play all** to play all files in the folder or press **■** **Mark as favourite** to add the selected video to favourite menu - **♥ Favourites**.

Control bar



- 1 - Progress bar
- 2 - Playback control bar
 - **⏮**: Jump to the previous video in a folder
 - **⏭**: Jump to the next video in a folder
 - **⏮⏮**: Rewind
 - **⏭⏭**: Fast forward
 - **⏸**: Pause the playback
- 3 - Mark as favourites
- 4 - Play all videos
- 5 - Subtitle: switch subtitles On, Off or On During Mute.
- 6 - Subtitle language: select a Subtitle Language
- 7 - Audio language: select an audio language
- 8 - Shuffle: play your files in a random order
- 9 - Repeat: plays all videos in this folder once or continuously

Video Options

Browse video files:

- **List/Thumbnails** – List or thumbnails views
- **Shuffle** – Play your files in a random order
- **Repeat** – Plays all videos in this folder once or continuously

Playing video files:

- **Mark as favourites** – Mark the video as favourites
- **Subtitle setting** – Set subtitle font size, colour, position, etc.

17.6

View your Photos

View Photos

Open photo folder

- 1 - Press **➤ SOURCES**, select **USB** and press **OK**.
- 2 - Select **USB Devices** and press **➤** (right) to select the USB device you need.
- 3 - Select **Photos**, you can press **■** **Mark favourite** to add the photo folder to favourite menu.

View a photo

- 1 - Press **➤ SOURCES**, select **USB** and press **OK**.
- 2 - Select **USB Devices** and press **➤** (right) to select the USB device you need.
- 3 - Select **Photos** and select one of photos, you can press **■** **Slide show** to play all files in the folder or press **■** **Mark favourite** to add the selected photo to favourite menu - **♥ Favourites**.

Control bar



- 1 - Playback control bar
 - **⏮**: Jump to the previous photo in a folder
 - **⏭**: Jump to the next photo in a folder
 - **⏸**: Pause the slideshow playback
- 2 - Mark as favourites
- 3 - Start a slideshow
- 4 - Rotate the photo
- 5 - Shuffle: play your files in a random order
- 6 - Repeat: plays all photos in this folder once or continuously
- 7 - Stop the music playing in the background
- 8 - Set the speed of the slide show

Photo Options

Browse photo files:

- **Shuffle** – Play your files in a random order
- **Repeat** – Play the slide show once or continuously

- **Stop music** – Stop background music playing
- **Slide Show Speed** – Set the speed of the slide show

- **Info** – Show photo information

Playing photo files:

- **Mark as favourites** – Mark the photo as favourites
- **Info** – Show photo information

View 360 Photos

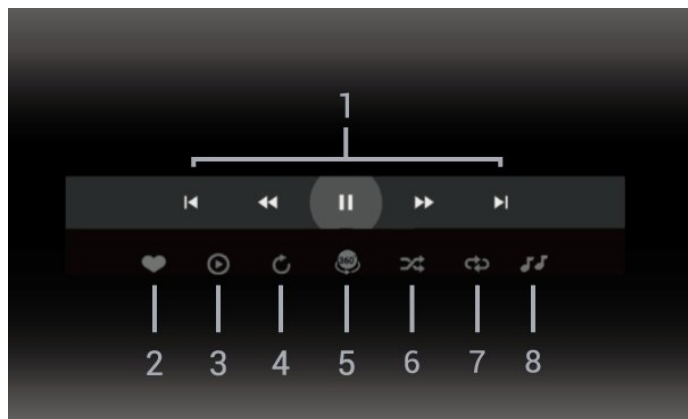
Open 360 Photos folder

- 1 – Press **SOURCES**, select **USB** and press **OK**.
- 2 – Select **USB Devices** and press **➤** (right) to select the USB device you need.
- 3 – Select **360 Photos**, you can press **Mark favourite** to add the 360 photos folder to favourite menu.

View a 360 photo

- 1 – Press **SOURCES**, select **USB** and press **OK**.
- 2 – Select **USB Devices** and press **➤** (right) to select the USB device you need.
- 3 – Select **360 Photos** and select one of photos, you can press **Play All** to play all files in the folder or press **Mark favourite** to add the selected photo to favourite menu – **♥ Favourites**.

Control bar



1 – Playback control bar

- **⏮**: Jump to the previous photo in a folder
- **⏭**: Jump to the next photo in a folder
- **⏮⏮**: Rewind playback at 2x, 4x, 32x speed

⏮⏮:

⏮: Pause the playback

2 – Mark as favourites

3 – Play one / Play all: play one photo or play all photos in this folder.

4 – Manual mode / Auto mode: when the 360 player is started, it will auto pan the selected 360 photo from left to right (0 to 360 degrees) in 360 view. When manual mode is entered, the 360 player will stop auto panning/rotating to allow manually panning/rotating with the remote control keys.

5 – Little Planet view: Little Planet is an alternate and fun view of 360 photo. When Little Planet view is started, the 360 photo will be rendered in a wrapped around view like a planet.

6 – Shuffle: play your files in a random order.

7 – Repeat: plays all photos in this folder once or continuously.

8 – Stop the music playing in the background.

* Note: When a 360 photo file is browsed or viewed in regular photo viewer, it will be treated as regular picture and displayed as equirectangular (or "flatten") when opened.

360 Photo Options

Browse 360 photo files:

- **List/Thumbnails** – List or thumbnails views
- **Shuffle** – Play your files in a random order
- **Repeat** – Play your files once or continuously
- **Stop music** – Stop background music playing

Playing 360 photo files:

- **Reset view** – Reset the angle of view

17.7

Play your Music

Play Music

Open music folder

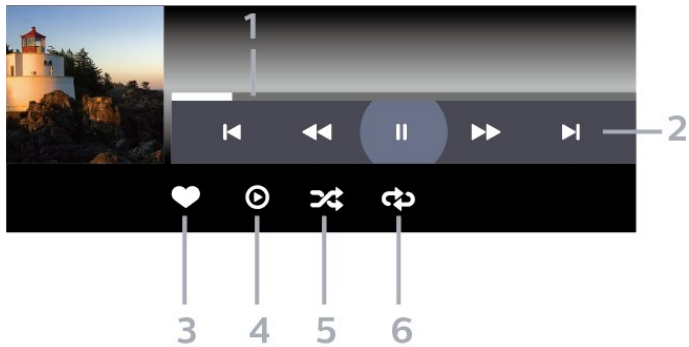
- 1 – Press **SOURCES**, select **USB** and press **OK**.
- 2 – Select **USB Devices** and press **➤** (right) to select the USB device you need.
- 3 – Select **Music**, you can press **Mark favourite** to add the music folder to favourite menu – **♥ Favourites**.
- 4 – You can quickly find a music using classification – **Genres, Artists, Albums, Tracks**.

Play music

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

- 2 - Select **USB Devices** and press ➤ (right) to select the USB device you need.
- 3 - Select **Music** and select one of classifications to view music files.
- 4 - Select a music and you can press ■ **Play** all to play all files in the folder or press ■ **Mark favourite** to add the selected music to favourite menu - ♥ **Favourites**.

Control bar



- 1 - Progress bar
- 2 - Playback control bar
 - ⏮ : Jump to the previous music in a folder
 - ⏭ : Jump to the next music in a folder
 - ⏮ : Rewind
 - ⏭ : Fast forward
 - ⏸ : Pause the playback
- 3 - Mark as favourites
- 4 - Play all music
- 5 - Shuffle: play your files in a random order
- 6 - Repeat: plays all music in this folder once or continuously

Music Options

Browse music files:

- **List/Thumbnails** – List or thumbnails views
- **Shuffle** – Play your files in a random order.
- **Repeat** – Plays all songs in this folder once or continuously.

Playing music files:

- **Mark as favourites** – Mark the music as favourites


Smartphones and Tablets

Philips TV Remote App

The Philips TV Remote App on your smartphone or tablet is your new TV buddy. The app lets you switch channels and adjust the volume — just like a remote control.

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

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

Alternatively, you can go  **Settings** > **Network & Internet** > **Remote app QR code** and press OK; a QR code will be presented on TV screen. Scan the QR code with your mobile device and follow the instruction to download and install the Philips TV Remote App. When using the app, your mobile device and Philips TV need to connect to the same Wi-Fi network.

Games

19.1

What You Need

On this TV, you can play games:

- from the Google Play Store in the Home menu
- from a connected Game Console

Games from the Google Play Store must be downloaded and installed on TV before you can play them. Some games need a gamepad to play.

To install game apps from the Google Play Store, the TV must be connected to the Internet and you need to agree to the Terms of Use to use apps. You must sign in with a Google Account to use the Google Play apps and Google Play Store.

19.2

Gamepads

To play games from the Internet on this TV, you can connect a selected range of wireless Gamepads. The TV can support 2 connected Gamepads at a time. When you connect the Gamepad, you can use it immediately.

19.3

Play a Game From Game Console or Computer

To start a game from a Game Console or Computer on the first time:

- 1 - Connect Game Console or Computer to TV via Ultra High Speed HDMI cable before power on the console or computer.
- 2 - Press **SOURCES** and select a game console or the name of the connection.
- 3 - Set **HDMI Ultra HD** to **Optimal** for standard gaming, to **Optimal (Auto Game)** for HDMI Variable Refresh Rate (on some models only).
- 4 - Power on Game Console or Computer.
- 5 - Start the game.

For more information on connecting a Game Console, in **Help**, press the colour key **Keywords** and look up **Game Console, connect**.

Gaming Control Bar

The Gaming control bar is an integrated centre for information display and setting control while playing game. It is applicable for HDMI source as long as the Picture style is set to **Game/HDR Game/Dolby Vision Game/Monitor/HDR Monitor**.

When TV auto switch to Game mode (via game detection), the TV will show a message to inform user that Game mode is enabled and the gaming control bar can be enabled via long pressing the **MENU** key.

Activation and deactivation

Long press the **MENU** key to launch the gaming control bar while in **Game** mode or **Monitor** mode. To deactivate the gaming control bar, you can press **← Back** or it will be close automatically after 20 seconds without interaction.

The Gaming control bar contains information bar or setting bar and a Toggle button to switch between information bar and settings bar.

Information bar

The information bar will show the key information for the gaming:

Input lag: current input lag status

Frame rate: current FPS (frame per second)

Resolution: video source resolution

Content type: video content is General or Movie or VRR/Freesync/G-Sync

SDR/HDR format: the supported source HDR or SDR type

Colour space: supported source colour space type

Setting bar

The settings bar contains related settings that can improve your gaming experience. Select and press **OK** on the setting icons to change following settings:

Crosshair: select **On/Off** to show or hide the dial point.

Shadow control: select **Off** to use current black level in **Picture settings**; select **On** to change the setting to higher black level.

Whitepoint: select the colour temperature for your preference.

Speakers: select the device to output the sound.

Ambilight* style: select **On** to turn on the Ambilight with gaming style; select **Off** to turn off the Ambilight.

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

Freeview (Australia)

20.1

About Freeview

This TV is certified by Freeview.



Never miss a thing with Freeview!

Find out what's on now, next or over the next 7 days with the easy to use TV guide.

Looking for your favourite show? Use Search for quick access to all your favourite on demand from ABC iview, SBS On Demand, 7+, 9Now and 10 Play.

All in one place, all for free.

20.2

Launch Freeview

What You Need

- you need a high-speed (broadband) Internet connection to the TV

To launch Freeview

When you are watching TV, you will briefly see a prompt at the top left of the screen.

- Press the **Green key** on the remote control to launch Freeview.
- Follow the on-screen instructions and use the colour keys, arrow keys, and OK/ENTER button to navigate.

* Freeview uses HbbTV technology which combines broadcast and broadband. Internet connection is required. Data usage charges and conditions apply. Find more information on www.freeview.com.au

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** to open the Netflix App. You can open Netflix immediately from a TV in standby.

www.netflix.com

Note for Netflix Spatial Audio

Some of Netflix contents provide Spatial Audio sound effect, to support the feature on your TV, please follow the steps:

- 1 - Go to  Settings > Display & Sound > Audio output > Digital out format and set the option to Stereo (uncompressed).
- 2 - Go to  Settings > Display & Sound > Sound > Sound style and set the style to Personal.
- 3 - Go to  Settings > Display & Sound > Sound > Personal settings > Speaker virtualizer and select Off to turn off the Speaker virtualizer.

Alexa

22.1

About Alexa

Your TV supports Amazon Alexa* voice control operations.

About Alexa

Alexa is a cloud-based voice service available on Alexa Echo devices from Amazon and device manufacturers. With Alexa working on your TV, you can switch on/off TV, change channels, change volume and more.

To control your TV with Alexa, you will need:

- Philips Smart TV that supports Alexa
- Amazon Echo device
- Google account
- Mobile device such as your phone or tablet
- Wi-Fi network

About Alexa Skill

Alexa uses the Alexa Skills to extend the voice control operations. Skills add new capabilities that create a more personalised experience with your Alexa enabled TV. "Philips Smart TV Voice Control" skill can be found on Alexa Skills store, it offers various voice control commands to work with your Philips Smart TV.

* Alexa is not available in all languages and countries. Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates.

Note: The supported Ambilight styles may depend on specific TV models. Please refer the user manual of your TV to know the supported Ambilight styles.


22.2

Using Alexa

To use Alexa, you need to first setup the Alexa client service on your Philips Smart TV. Follow the instructions and complete the following steps:

- Select a name for your Smart TV for Alexa to recognize.
- Select a Google account and sign-in.
- Return to this skill in the Alexa App on your phone to enable it, link accounts, and discover your devices.
- Return to your TV to complete setup.

Setup on TV for Alexa

1 - Go to  **Settings** > **Network & Internet** > **Advanced** > **TV control with Amazon Alexa** to start the setup process.

2 - You need Amazon Echo device and Alexa companion app (on mobile device or web version) be ready to start the setup.

3 - Follow the instructions on screen to accept Privacy Policy terms, name your TV and sign in your Google account. The Google account is needed to pair with Alexa device.

4 - On your mobile device, sign in with the same Google account in the Amazon Alexa companion app.

5 - Complete following steps in the Amazon Alexa companion app. The first is to enable "Philips Smart TV Voice Control" skill. The second is to link your Google account and then the final is to discover devices.

6 - Select **Enable** or **Disable** for the TV switch on setting. You can use Alexa to turn your TV On/Off by voice command.

7 - At the end of setup screen, you can select **Done** to start to use Alexa. Select **Manage TVs** to do the management of Alexa-paired TVs or un-pair the TVs with Alexa.

Go to alexa.amazon.com, click on Skills, and search for "Philips Smart TV Voice Control". The skill will be listed in the results.

Specifications

23.1

Power

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

Power

- Mains power : AC 220-240V +/-10%
- Ambient temperature : 5°C to 35°C
- Power saving features : Eco mode, Picture mute (for radio), Auto switch-off timer, Eco settings menu.

23.2

Operating System

Android OS :

Android 12

23.3

Reception

- Aerial input : 75 ohm coaxial (IEC75)
- Tuner bands : Hyperband, UHF, VHF
- DVB : DVB-T
- Digital video playback : MPEG2 SD/HD (ISO/IEC 13818-2), MPEG4 SD/HD (ISO/IEC 14496-10)
- Digital audio playback (ISO/IEC 13818-3)

23.4

Display Type

Diagonal screen size

- 105 cm / 42 inch
- 108 cm / 43 inch
- 121 cm / 48 inch
- 126 cm / 50 inch
- 139 cm / 55 inch
- 164 cm / 65 inch
- 189 cm / 75 inch
- 194 cm / 77 inch
- 215 cm / 85 inch

Display resolution

- 3840 x 2160

Display Input Resolution

Supported Computer/Video resolution

Resolution — Refresh rate

- 640 x 480 - 60Hz
- 576p - 50Hz
- 720p - 50Hz, 60Hz
- 1920 x 1080p - 24Hz, 25Hz, 30Hz, 50Hz, 60Hz, 100Hz, 120Hz
- 2560 x 1440p - 60Hz, 120Hz
- 3840 x 2160p - 24Hz, 25Hz, 30Hz, 50Hz, 60Hz, 100Hz, 120Hz

* Note:

100Hz is only supported when HDMI Ultra HD is set to **Optimal** in HDMI 1 and HDMI 2.

120Hz (up to 3840 x 2160p) is only supported when HDMI Ultra HD is set to **Optimal** (Auto Game) or **Optimal (Auto Game 120Hz Pro)** in HDMI 1 and HDMI 2.

120Hz (up to 2560 x 1440p) is only supported when HDMI Ultra HD is set to **Optimal** (Auto Game) or **Optimal (Auto Game 120Hz Pro)** in HDMI 3 and HDMI 4.

Supported Video only resolution

Resolution — Refresh rate

- 480i - 60Hz (when HDMI Ultra HD is set to **Standard**)
- 576i - 50Hz (when HDMI Ultra HD is set to **Standard**)
- 1080i - 50Hz, 60Hz
- Variable refresh rate video 1080p, 1440p, 2160p with frame rate up to 40-120Hz when HDMI Ultra HD is set to **Optimal (Auto Game)** or **Optimal (Auto Game 120Hz Pro)**.

* Note: Some resolution and frame rate may not be supported in all input sources.

23.6

Connectivity

TV Side

- USB 2 - USB 3.0
- Headphones - Stereo mini-jack 3.5mm
- HDMI 4 in - Ultra HD - HDR

TV Bottom

- Digital audio out - Optical Toslink
- Antenna (75 ohm)
- HDMI 1 in - Ultra HD High Frame Rate - HDR
- HDMI 2 in - ARC/eARC - Ultra HD High Frame Rate - HDR
- USB 1 - USB 2.0

- Network LAN – RJ45
- HDMI 3 in – Ultra HD – HDR

23.7

Sound

- Output power (RMS) : 43" 20W / 50", 55", 65" 40W / 75", 85" 50W
- Dolby MS12 V2.6.1
- Dolby Atmos
- DTS Play-Fi
- DTS:X
- Surround Virtualizer + Height Virtualizer
- Dolby Bass Enhancement
- Dolby Dialogue Enhancement
- Dolby Volume (AVL/Night Mode)
- AI Sound
- AI EQ
- Mimi Health Hearing

23.8

Multimedia

Connections

- USB 2.0 / USB 3.0
- Ethernet LAN RJ-45
- Wi-Fi 802.11a/b/g/n/ac, Dual Band
- Bluetooth® 5.0

Supported USB file systems

- FAT 16, FAT 32, NTFS, exFAT

Playback formats

- Containers: PS, TS, M2TS, TTS, AVCHD, MP4, M4V, MKV, ASF, AVI, 3GP, Quicktime
- Video Codecs : AVI, MKV, H.264/MPEG-4 AVC, MPEG1, MPEG2, MPEG4, VP9, HEVC (H.265), AV1
- Audio Codecs : MP3, WAV, AAC, WMA (v2 up to v9.2), WMA-PRO (v9 and v10), FLAC
- Subtitles :
 - Formats : SRT, SMI, SSA, SUB, ASS, TXT
 - Character encodings : UTF-8, Central Europe and Eastern Europe (Windows-1250), Cyrillic (Windows-1251), Greek (Windows-1253), Turkish (Windows-1254), Western Europe (Windows-1252), Hebrew(CP-1255), Arabic(CP-1256), Baltic(CP-1257), Korean(Windows-949)
- Maximum Supported Data Rate :
 - MPEG-4 AVC (H.264) supported up to High Profile @ L5.2 80Mbps
 - H.265 (HEVC) supported up to main 10 high profile L5.1 with 100Mbps
 - AV1 supported up to main profile L5.1 with 80Mbps
- Image Codecs : JPEG, GIF, PNG, BMP, HEIF, 360 Photo

Wi-Fi Certified

This TV is Wi-Fi Certified device.

Help and Support

24.1

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

24.2


Using Help

Open Help

Press the  key (blue) to open Help immediately. To look up topics alphabetically, press the colour key  **Keywords**.

To read the Help as a book, select **Book**.

You can also open  **Help** in the Quick menu.

Before you execute the Help instructions, close Help. To close Help, press the colour key  **Close**.

For some activities, like Text (Teletext), the colour keys have specific functions and cannot open Help.

TV Help on your tablet, smartphone or computer

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

To download the Help (user manual) go to www.philips.com/TVsupport

Quick Menu / MENU > Help

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

- **TV information** – View the Model name, Serial number and Software version of your TV.
- **How to** – You can see instructions on how to install channels, sort channels, update TV software, connect external devices and use Smart functions on your TV.
- **TV diagnose** – Run the TV diagnose to check the condition of your TV.
- **Self-diagnose** – You can check if the picture, sound, network and other settings are working fine.
- **Update software** – Check available software

updates.

- **User manual** – Read the user manual for TV information.
- **Settings list copy** – Copy the TV settings on a USB Flash Drive.
- **Troubleshooting** – Find a solution for frequent ask questions.
- **Factory settings** – Reset all settings to factory settings.
- **Reinstall TV** – Reinstall and redo the complete TV installation.
- **Contact info** – Show the telephone number or web address for your country or region.



24.3

TV Diagnose and Self-diagnose

TV diagnose

You can run the TV diagnose test to check the condition of your TV. At the end of the diagnose, TV will clear the cache memory and close any unused apps to continue the smooth functioning of your TV.



To run the TV diagnose test:

- 1 – Select  **Quick Menu / MENU** >  **Help** > **TV diagnose** and press **OK**.
- 2 – Select **Start** to run a series of diagnostic tests.
- 3 – When the test completed, you can view the status of following items.
 - Remote control
 - Power
 - Picture
 - Sound
 - External devices
 - Network
 - Tuner
 - Storage
 - Clear cache memory
 - Apps
- 4 – Select **Close** to close the result page and go back to **TV diagnose** wizard.
- 5 – Select **Done** to exit from **TV diagnose**, select **Self-diagnose** to do other diagnostic check, select **View results** to view the result page again.

Self-diagnose

Self-diagnose can help you to do troubleshooting of your TV by checking the configurations of the TV.

To run the Self-diagnose:

- 1 – Select  **Quick Menu / MENU** >  **Help** > **Self-diagnose** and press **OK**.
- 2 – Select following items to check the configurations.

- **Check the TV** – You can check if the picture, sound and other settings are working fine..
- **Check the network** – Check the network connection.
- **Check the remote control** – Perform the test to verify the TV bundled remote control functionality.
- **View weak signal history** – Display the list of channel numbers that were automatically saved when signal strength was weak.
- **Optimize internal storage** – Free up space in TV's internal storage for optimal performance.

24.4

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 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 DVB-T or DVB-C 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 **Location** is set to **Home**. You can change and save settings in this mode.

A commercial banner appears

Make sure that **Location** is set to **Home**.

Picture does not fit the screen

- Change to a different picture format.
- Change **Picture format** to **Original**.

Picture position is incorrect

- Picture signals from some devices may not fit the screen correctly. Check the signal output of the connected device.

- Change Picture format to **Original**.

Computer picture is not stable

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

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 the picture and sound of a device connected with HDMI is distorted, check if a different **HDMI Ultra HD** setting can solve this problem. In Help, press the colour key **— Keywords** and look up **HDMI Ultra HD**.
- If there are intermittent sound disruptions, make sure that output settings from the HDMI device are correct.
- 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.

HDMI eARC is not working well

- Make sure the HDMI cable is connected to **HDMI 2**.

- Make sure the **Ultra High-speed HDMI** cable is used for eARC connection.

- Only one eARC device is available at a time.

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/ac 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.

Poor quality when watching streaming video

- The image/sound quality of stream video is depending on the original video content provided by streaming video apps.
- To ensure the best experience of watching streaming videos, a fast and stable network connection is essential. The recommended network connection speed for the streaming videos are as follows:
 - Standard image quality (SD): 5 Mbps
 - High image quality (HD): 10 Mbps
 - 4K/Ultra HD (UHD): 25 Mbps

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

Wrong menu language

Change the language back to your language in Google TV mode.

- 1 - Press  DASHBOARD key on remote control to launch Dashboard menu.
- 2 - Select  icon and press OK to open Settings menu.
- 3 - Press 6 times  (down) and press OK to enter System menu.
- 4 - Press 3 times  (down) and press OK to enter Language menu
- 5 - Select your language and press OK.
- 6 - Press  Back to close the menu.

Change the language back to your language in Basic Mode.

- 1 - Press  DASHBOARD key on remote control to launch Dashboard menu.
- 2 - Select  icon and press OK to open Settings menu.
- 3 - Press 7 times  (down) and press OK to enter System menu.
- 4 - Press 3 times  (down) and press OK to enter Language menu
- 5 - Select your language and press OK.
- 6 - Press  Back to close the menu.

24.5

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.

24.6

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

25.1

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.

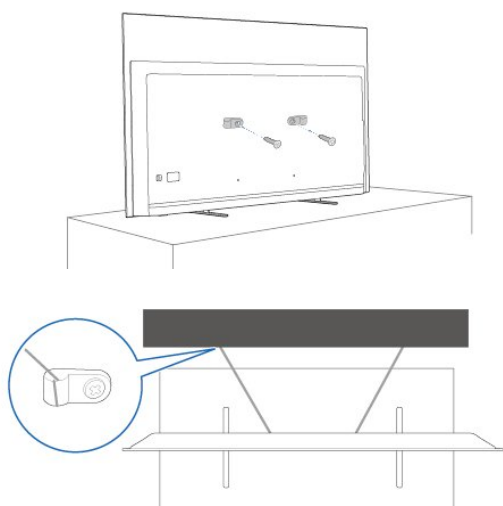
If the existing television set is going to be retained and relocated, the same considerations as above should be applied.

Prevent Tipping!

When using the TV, fasten the TV to a wall using a cord or chain that can support the weight of the TV in order to prevent the TV from falling.

- TV design may differ from those illustrated.
- Installing must be done by a qualified technician, and please contact your supplier for more information.
- For the Models with net weight $\geq 7\text{kg}$, need a suitable way to Prevent Tipping.
- Using the appropriate screws, firmly fasten a set of brackets to the wall. Confirm that the screws are firmly attached to the wall.
- You may need additional material such as wall anchors depending on the type of wall.
- Using the appropriately sized screws, firmly fasten a set of brackets to the TV.

- Connect the brackets fixed to the TV and the brackets fixed to the wall with a durable, heavy-duty string, and then tie the string tightly.



Risk of Batteries

- Do not ingest the battery. Chemical burn hazard.
- The remote control may contain 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.

25.2

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

26.1

Terms of Use – TV

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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. Therefore, please note this is not subjected to repair, exchange or refund within and/or out of the warranty period.

Backlight characteristics

All Philips TV have gone through stringent tests and checks before shipping to you. You can be rest assured that we place the quality of our TVs the utmost importance so that you do not suffer any viewing displeasure while watching your TV. However, please note that backlight bleeding (“Mura effect”) and /or unevenness of background light that can only be observed in dark images or in a very dark and dim room are considered to be within TV specifications. Such occurrences do not represent a deterioration nor shall be regarded as a defect of the TV. Hence, we regret that claims of this nature for warranty, free of charge service, replacement or refund cannot be accepted within and/or out of the warranty period.

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

26.2

Terms of Use – Smart TV

You can see the terms of use, privacy policy, and also set privacy settings of your Smart TV.

To open the terms of use of Smart TV page:

- 1 – Press **HOME** to open the Home menu.
- 2 – Select **Apps** to open apps.

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HEVC Advance

Covered by one or more claims of the HEVC patents listed at patentlist.accessadvance.com. Future proof with advanced HEVC decoding.



AMD FreeSync Premium

No Stuttering. No Tearing. Fluid Gaming.



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