PHILIPS

AMBILIGHT tv

MLED910 Series

User Manual

55MLED910
65MLED910
75MLED910
85MLED910

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

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1. Home Screen Overview

To enjoy the benefits of your Smart TV, connect the TV to the Internet. Press **(Home)** on your remote control to get your Home screen. Like on your 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 apps.

The Home screen is organized in rows to let you discover great contents from your favourite apps. Apps may populate their recommendation (if available) according to their own choice as an individual row in the home screen.

Highlights on your home screen

With multiple tabs like **Home**, **Channels**, **Apps** and **Search**, you can discover movies and shows from your services and popular apps.The **Channels** tab is a collection of free online contents including news, TV and movies, life style, entertainment, sports, music, kid and comedy channels. The **Apps** tab is an app collection to let you rent movies online, read newspapers, watch videos and listen to music, also shop online, or watch TV programmes when it suits you with On-line TV. You can also trigger input field for searching with **Search** tab.

Favourite Apps

Your favourite Apps are placed on the first row. This row contains number of apps pre-installed. The order of these apps are according to business agreements with content service providers. In this row you will also find the Apps, like **Watch TV**, **Internet Browser**, **Media** and others.

YouTube and Netflix

This row contains your Recommended, Subscriptions or Trending YouTube and Netflix videos.

Accessing settings from Home

You can access **All Settings** menu via the icon at the top right corner. You can also find the **Frequent settings** and **Quick menu** with common settings in the Philips TV Menu, which can be invoked directly from the remote control.

TV Guide

Select **TV Guide** to open the TV Guide of your installed TV channels.

Sources

Select **SOURCES** to view and change to available sources in this TV.

Note:

• If your installed country is Germany or France, there will be additional **Public Value** tab on home screen to list **Featured** apps.
• If your installed country is UK, there will be additional **TV Guide** tab on home screen to link the TV Guide of your installed TV channels.

2. Get Support

2.1. Identify and Register your TV

Identify your TV - TV model number and serial number

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

Register your TV

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

Go to www.philips.com/TVsupport

2.2. TV Help and User Manual

Quick Menu > Help

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

• **TV information** - View the Model name, Serial number, Software version and Operation hours 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.
• **Troubleshooting** - Find a solution for frequently asked 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.

* Sorting channels is only applicable for certain countries.

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

2.3. 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** > **Help** > **TV diagnose** and press **OK**.
2 - Select **Start** to run a series of diagnostic tests.
3 - When the test is completed, you can view the status of following items.
- Remote control
- Power
- Picture
- Sound
- Connect external devices
- Network
- TV tuner
- Clear cache memory
- Apps
4 - Select **OK** to close the result page and go back to **TV diagnose** wizard.
5 - Press **Back** 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** > **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.

2.4. Consumer Care / Repair

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

Find the telephone number in the printed documentation that came with the TV.
Or consult our website 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.

3. Quick Guide

3.1. Remote Control

Key Overview

Top

The feature of Hidden keys

Hidden keys will be appeared to extend more control functions while pressing the **123 key**. The **123 key** is on middle of remote control, which is used to turn on/off hidden keys mode. When hidden key mode is turned on, the **number keys** 0 to 9 and **media play control keys** will appear with backlight and trigger the functions. When hidden key mode is turned off by pressing **123 key** again or automatically turned off, the remote control will work with normal keys.

⚠ Warning

Choking Hazard! This TV remote control contains small parts, not suitable for children under 5 years old.

1 - ⏻ (Standby / On)
To switch the TV on or back to Standby.

2 - VOICE microphone

3 - AMBILIGHT
To select one of the Ambilight style.
* Ambilight setting is only for models which support Ambilight function.

4 - (SOURCES) / PAIR
• To open or close the Sources menu.
• To pair the remote control to the TV.

5 - (Quick Menu/MENU)
To open the Quick Menu with typical TV functions.

6 - Alexa
Press and hold to talk to Alexa, interrupt an Alexa response, or stop an Alert. When Alexa is responding to your utterance or playing media, press again to stop or attenuates playback.

Middle

1 - TV Guide
To open or close the TV Guide.

2 - OK key
To confirm a selection or setting. To open the channel list while watching TV.

3 - Arrow / navigation keys
To navigate up, down, left or right.

4 - OPTIONS
To open or close the options menu.

5 - ← (Back)
To switch back to the previous channel you selected.
To return to previous menu.
To go back to the previous App/Internet page.

6 - Volume / 🔇 (Mute)
Move down or up to adjust the volume level. Press the middle of key to mute the sound or to restore it.

7 - 123 key
To turn on or off the hidden function keys and switch the keys between different sets of operations.

8 - INFO
To open or close programme info.

9 - Number keys (hidden keys, available after **123 key** is pressed)
To select a channel directly.

10 - SUBTITLE
To open Subtitle page. Long press to open or close Text/Teletext.

11 - TV / 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.
This key will be changed to Number key **0** after **123 key** is pressed.

12 - **Home**
To open the Home menu.

13 - **(Channel)**
Move down or up to switch to the next or previous channel in the channel list. To open the next or previous page in Text/Teletext. Press the middle of key to open the channel list.

Bottom

1 - Colour keys
Direct selection of options. Press Blue key to open the **Help**.

2 - NETFLIX

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

3 - Disney+
To launch the **Disney+** App.

4 - Eco / Green key
Press to invoke a message to remind you to enter the **Eco settings** menu; long press to invoke the **Eco settings** menu directly. Once the **Eco settings** menu is triggered via long press the key few times, the message will no longer to show.

5 - **Playback** (hidden keys, available after **123 key** is pressed)
• Play ▶, to playback.
• Pause ⏸, to pause playback
• Rewind ◀◀, to rewind
• Fast forward ▶▶, to go fast forward

6 - prime video
To launch the Amazon **prime video** App.

7 - Channels
To launch the **Titan Channels** App.

8 - Quick keys
Press the quick key to launch app or streaming media directly. The actual quick keys are varied between regions or countries.

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 Alexa voice control operations, you need to pair (link) the TV with the remote control.

When you started the initial TV installation, the TV invited you to long press the **PAIR** key, and by doing so, the pairing was done.

Note:

1 - Once the remote control has entered pairing mode successfully, the LED indicator 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 Alexa voice control operations when press **Alexa**, 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 simply long press the **SOURCES (PAIR)** key (approximate for 3 seconds) for pairing.

Alternatively, go **(Home) > Settings > Wireless & network > Remote control > Pair remote control**, then follow the on-screen instructions.

A message appears when the pairing is successful.

Remote Control Software

(Home) > Settings > Wireless & network > Remote control > Remote control info

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

(Home) > Settings > Wireless & network > Remote

control > Update remote control software

Check available remote control software for updates.

3.3. 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.

3.4. 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.
• Only use LR03 Alkaline battery.
• 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.
• Check the condition of the remote control batteries regularly to prevent corrosion of the contacts.

For more information, check on **Help** > **User manual** > **End of use**.

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.

Never expose the remote control to water or liquids.

3.5. Simple Setup App for Set Top Box

Simple Setup app will allow user to control their set top box using the TV remote control (via IR control to the set top box).

Setup via App for connected set top box

1 - Connect a set top box via HDMI to TV.
2 - Launch Simple Setup app on TV
3 - To setup for a new set top box, select the brand and model for your set top box.

Simple Setup app on TV will send set top box IR code database via Bluetooth® to TV remote control.

Control of set top box using TV remote control

1 - When user is watching TV source, TV remote control will be in TV mode and sending TV IR codes.
2 - When Simple Setup app is running on TV, it will detect when user switch to HDMI input for set top box and trigger TV remote control to switch to send set top box IR codes during key press.

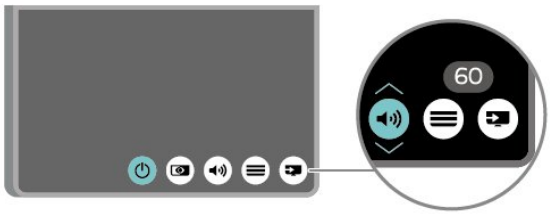
3.6. Joystick - Local Control

Keys on TV

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

To open the basic menu…

1 - With the TV switched on, press the joystick key on the 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.

The menu will disappear automatically.

4. Setting Up

4.1. Read the Safety Instructions

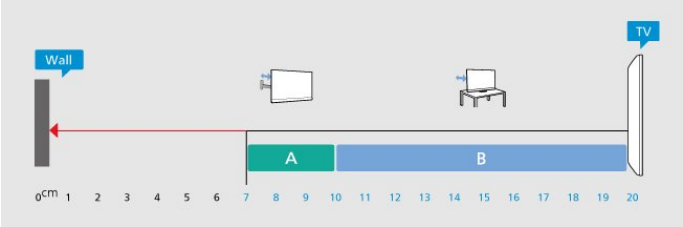
Please read the safety instructions before you use the TV.

To read the instructions, check on **Help** > **User manual** > **Safety and Care**.

4.2. TV Placement

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 screen height. 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 7 to 10 cm away from the wall.
B. When TV is with stand, position the TV 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.

TV Stand

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

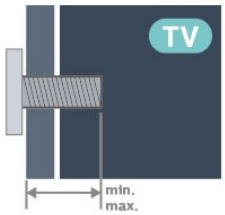
Use the model number of the TV to look for the **Quick Start Guide** to download.

Wall Mounting

Your TV is also prepared for 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.



• 55MLED9x0
300x200, M6 (min.: 10 mm, max.: 22 mm)
• 65MLED9x0
300x300, M6 (min.: 10 mm, max.: 22 mm)
• 75MLED9x0
300x300, M6 (min.: 10 mm, max.: 22 mm)
• 85MLED9x0
600x400, M8 (min.: 24 mm, max.: 28 mm)

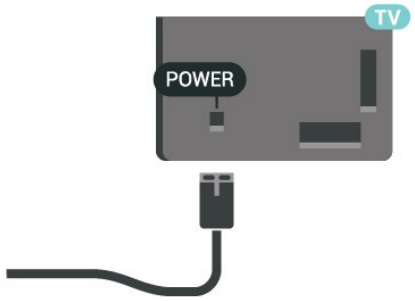
Caution

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 TVs weight. Also read the safety precautions before positioning the TV.
TP Vision Europe B.V. bears no responsibility for improper mounting or any mounting that results in accident or injury.

4.3. Turn on TV

Connect Power Cable

• Insert the power cable into the **POWER** connector on the back of the TV.
• Make sure the power cable is securely inserted in the connector.
• Make sure that the power plug, in the wall socket, is accessible at all times.
• When you unplug the power cable, always pull the plug, never pull the cable.



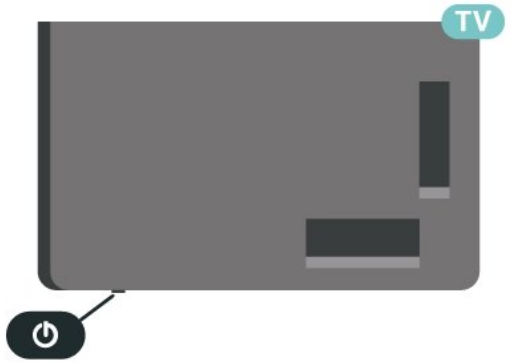
Although this TV has a very low standby power consumption, unplug the power cable to save energy if you do not use the TV for a long period of time.

On or Standby

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

Switch On

Press the small joystick key on the bottom of the TV.



Switch to standby

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

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

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

5. Connections

5.1. Connectivity guide

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

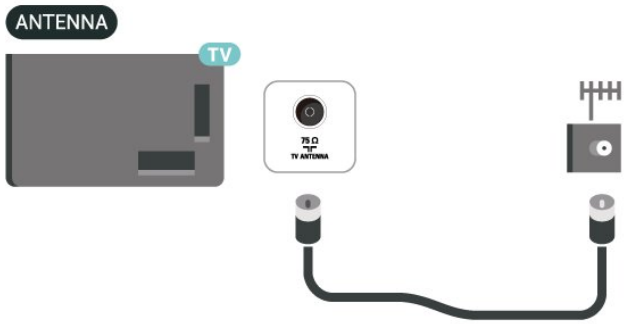
When you connect a device, the TV recognizes its type and gives each device a correct type name. You can change the type name if you wish. If a correct type name for a device is set, the TV automatically switches to the ideal TV settings when you switch to this device in the Sources menu.

5.2. Antenna

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

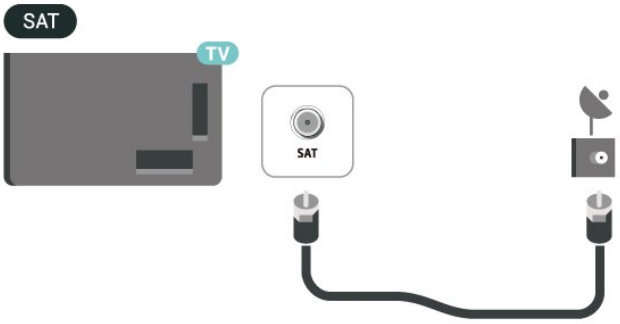
You can connect your own antenna or an antenna signal from an antenna distribution system. Use an IEC Coax 75 Ohm RF antenna connector.

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



5.3. Satellite

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

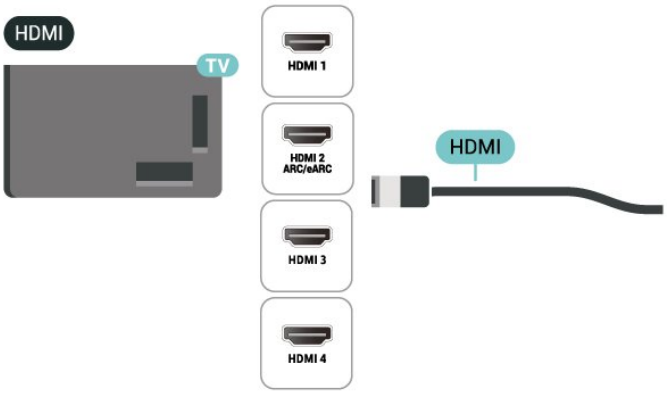


5.4. Video Device

HDMI

An HDMI connection has the best picture and sound quality.

For best signal quality transfer, use a Ultra High Speed certified HDMI cable and do not use an HDMI cable longer than 5 m, and also connect devices supporting HDR on any one of HDMI connections.



Copy protection

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

5.5. Audio Device

HDMI ARC/eARC

Only **HDMI 2** on the TV have **HDMI ARC** (Audio Return Channel).

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

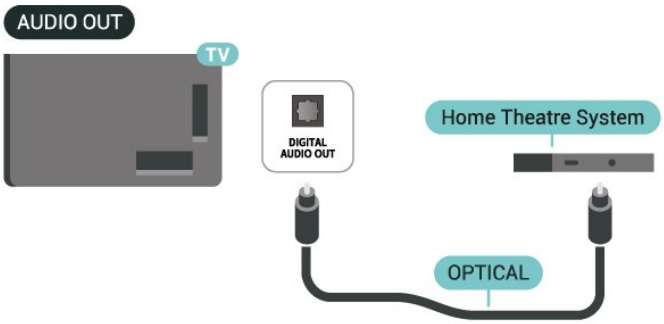
HDMI eARC (Enhanced Audio Return Channel) is an advancement over the previous ARC. It supports the latest high-bitrate audio formats up to192kHz, 24-bit, and uncompressed 5.1 and 7.1, and 32-channel uncompressed audio.

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.

Digital Audio Out - Optical

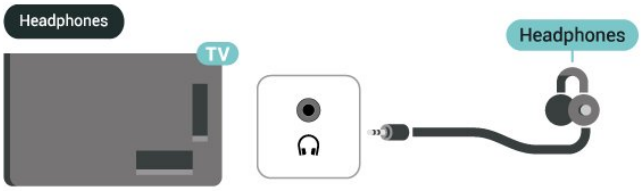
Audio Out - Optical is a high quality sound connection.

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



Headphones

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



5.6. Mobile Device

Cast to Your TV

To cast streaming contents to your TV:

1 - Make sure your mobile device and TV are on the same Wi-Fi network.
2 - Launch a casting-enabled app on your mobile device and tap the cast icon .
3 - Select **PHILIPS_TV_(ModelName)** of your TV to start the casting.

Philips Smart TV App

The **Philips Smart TV** 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 Smart TV app from your favourite app store today.

The Philips Smart TV app is available for iOS and Android and is free of charge.

Alternatively, you can go **(Home)** > **Settings** > **Wireless & networks** > **Wired or Wi-Fi** > **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 Smart TV app. When using the app, your mobile device and Philips TV need to connect to the same Wi-Fi network.

5.7. Other Device

CAM with Smart Card - CI+

About CI+

This TV is ready for the CI+ Conditional Access.

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

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

Smart Card

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

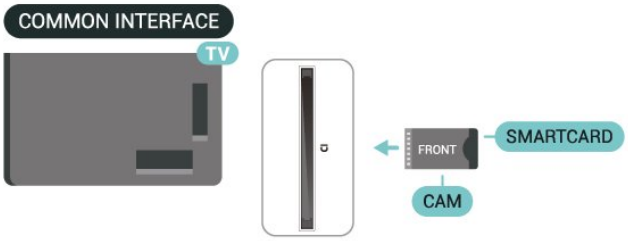
Insert the smart card into the CAM module. See the instruction you received from the operator.

To insert the CAM in the TV…

1. Look on the CAM for the correct method of insertion. Incorrect insertion can damage the CAM and TV.
2. While looking at the back of the TV, with the front of the CAM facing towards you, gently insert the CAM into the slot **COMMON INTERFACE**.
3. Push the CAM in as far as it will go. Leave it in the slot permanently.

When you switch on the TV, it may take a few minutes before the CAM is activated. If a CAM is inserted and subscription fees are paid (subscription methods can differ), you can watch the scrambled channels supported by the CAM smart card.

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



Set Passwords and PIN Codes

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

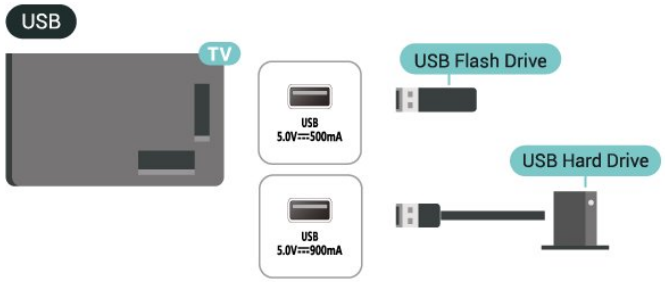
To set the PIN code for the CAM…

1. Press **SOURCES**.
2. Select the channel type you are using the CAM for.
3. Press **OPTIONS** and select **Common Interface**.
4. Select the TV operator of the CAM. The following screens come from the TV operator. Follow the on-screen instruction to look up the PIN code setting.

USB Storage Device

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

The TV detects the flash drive and opens a list showing its content.
If the contents list does not appear automatically, press **SOURCES** and select **USB**.



For more information on watching or playing content from a USB flash drive, check on **Help** > **User manual** > **Photos, Videos and Music**.

5.8. Bluetooth®

What You Need

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

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

Attention - Audio to Video synchronisation

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

Pairing a Device

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

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

To pair a Bluetooth® device with the TV:

1 - Switch on the Bluetooth® device and place it within range of the TV.
2 - Select **(Home)** > **Settings** > **Wireless & Networks** and press **>** (right) to enter the menu.
3 - Select **Bluetooth** > **Search Bluetooth Device**, and press **OK**.
4 - 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.
5 - Select the type of device and press **OK**.
6 - Press **<** (left) repeatedly if necessary, to close the menu.

Select a Device

To select a wireless device:

1 - Select **(Home)** > **Settings** > **Wireless & Networks** and press **OK**.
2 - Select **Bluetooth** > **Bluetooth devices** and press **OK**.
3 - In the list, select the wireless device and press **OK**.
4 - Press **<** (left) repeatedly if necessary, to close the menu.

Remove a Device

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

To remove or disconnect a wireless device:

1 - Select **(Home)** > **Settings** > **Wireless & Networks** and press **OK**.
2 - Select **Bluetooth** > **Remove Bluetooth device** and press **OK**.
3 - In the list, select the wireless device and press **OK**.
4 - Select **Disconnect** or **Un-pair** and press **OK**.
5 - Select **OK** and press **OK** to confirm.
6 - Press **<** (left) repeatedly if necessary, to close the menu.

Philips easy-pair

Philips easy-pair is a fast pairing method exclusively designed for Philips Bluetooth® headphones products. You can press a button and immediately start to pair your Philips headphones with Philips TV.

To pair a Philips easy-pair headphones with the TV:

1 - Put the Philips easy-pair headphones into pairing mode, and place it within a distance of 5 metres from the TV.
2 - Long press the ▬ Blue key (approximately 3 seconds) to pair your Philips easy-pair headphones to your TV.
3 - After the pairing started, the TV will search for Philips easy-pair headphones; this will take a few seconds.
4 - Once the pairing is done, a message screen will pop up to inform and indicate the battery status of your headphones.

Please note that only Philips easy-pair headphones will support the easy-pair feature. The Philips Bluetooth® headphones to support Philips easy-pair feature are:
TAA6709
TAA6219
TAH8506
TAH4209
TAT2149
TAK4206
TAH6509
TAH5209
TAT2139
TAT3509

If the easy-pair is not available for your Bluetooth® headphones, you can go to **⌂ (Home)** > **Settings** > **Wireless & Networks** > **Bluetooth** to manually pair your headphones with the TV.

5.9. 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 **Automatic** or **Optimal (Auto Game 144Hz 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.

6. Switch Source

6.1. Source List

• To open the sources menu, press SOURCES.
• To switch to a connected device, select the device with the Arrow / navigation keys and press OK.
• To view the technical information of the connected device you are watching, press OPTIONS and select Device info.
• To close the source menu without switching to a device, press SOURCES again.

6.2. Rename Device

(Home) > Settings > General settings > Edit input sources > Source

1 - Select one of the device icons, the preset name appears in the typing field and select.
2 - Select Rename to open on-screen keyboard.
3 - Use navigation keys to select characters.
4 - Select Close when complete the editing.

7. Channels

7.1. About Channels and Switch Channels

To watch TV channels
• Press TV / EXIT. The TV tunes to the TV channel you last watched.
• Press ⌂ (Home) > TV > Channels and press OK.
• Press ≡ + or ≡ - to switch channels.
• If you know the channel number, type in the number with the number keys. Press OK after you entered the number to switch channels.
• To switch back to the previously tuned channel, press ← Back.

To switch to a channel from a channel list
• While watching a TV channel, press OK to open the channel lists.
• The channel list can have several pages with channels. To view the next or previous page, press ≡ + or ≡ -.
• To close the channel lists without switching channels, press ← Back or TV / EXIT.

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 channels

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

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

7.2. Install Channel

Antenna and Cable

Manually Search for Channels and Channel Settings

Search for Channels

Update channels

⌂ (Home) > Settings > Channels > Antenna/Cable installation* > Search for channels

1 - Select Update digital channels to only add new digital channels.
2 - Press OK to search channels. This can take a few minutes.

Quick reinstall

⌂ (Home) > Settings > Channels > Antenna/Cable installation* > Search for channels

1 - Select Quick reinstall or Channel reinstall (if country setting is UK) to install all channels again with default settings.
2 - Press OK to search channels. This can take a few minutes.

Advanced channel reinstall

⌂ (Home) > Settings > Channels > Antenna/Cable installation* > Search for channels

1 - Select Advanced channel reinstall or Freely application setup (if country setting is UK) to do a full re-installation which takes you through each step.
2 - Press OK to search channels. This can take a few minutes.

* Note: If country setting is UK, only Antenna installation is available.

Channel Settings

⌂ (Home) > Settings > Channels > Antenna/Cable installation > Search for channels > Advanced channel reinstall

1 - Select Advanced channel reinstall to do a full re-installation which takes you through each step.
2 - Select Antenna (DVB-T) or Cable (DVB-C), and select one item you need to re-install.
3 - Select Digital and analogue* channels, Only digital channels, or Only analogue channels.
4 - Select Settings and press OK.
5 - Press ▬ Reset to reset, or press ▬ Done when complete the settings.

* Note: Analogue channel support is not available for countries that have completed analogue switched off.

Frequency scan
Select the method of searching for channels.

• Quick: select the faster method and use the predefined settings used by most cable providers in your country.
• Full: If this results in having no channels installed or if some channels are missing, you can select the extended Full method. This method will take more time to search for and install channels.

• Advanced: If you received a specific network frequency value to search for channels, select Advanced.

Frequency step size
The TV searches for channels in steps of 8MHz.

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

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

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

Network ID
Enter the network ID supplied by your cable provider.

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

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

Free / Scrambled
If you have a subscription and a CAM - Conditional Access Module for pay TV services, select **Free + scrambled**. If you did not subscribe to pay TV channels or services, you can select **Free channels only**.

Automatically Search for Channels

(Home) > Settings > Channels > Antenna/Cable installation > Automatic channel update

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

Alternatively, you can start a channel update yourself.

Automatic channel update

Once a day, at 6 AM, the TV updates the channels and stores new channels. New channels are stored in the All channels list but also in the New channels list. Empty channels are removed.
If new channels are found or if channels are updated or removed, a message is shown at TV start up. The TV must be in standby to automatically update channels.

Channel Update Message

(Home) > Settings > Channels > Antenna/Cable installation > Channel update message

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

Digital: Reception Test

(Home) > Settings > Channels > Antenna/Cable installation > Digital: reception test

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

Analogue: Manual Installation

(Home) > Settings > Channels > Antenna/Cable installation > Analogue: manual installation

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

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

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

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

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

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

Satellite

Search for Satellite and Satellite Settings

(Home) > Settings > Channels > Satellite installation > Search for satellite

Reinstall all channels

(Home) > Settings > Channels > Satellite installation > Search for satellite > Reinstall channels

• Select the group of channels you want to install.
• Satellite operators can offer channel packages that bundle free channels (free-to-air) and offer a sorting that suits a country. Some satellites offer subscription packages - a collection of channels you pay for.

Connection type

Select the number of satellites you want to install. The TV sets the appropriate connection type automatically.

• **Up to 4 Satellites** - You can install up to 4 satellites (4 LNBs) on this TV. Select the exact number of satellites you wish to install at the start of the installation. This will speed up the installation.
• **Unicable** - You can use an Unicable system to connect the antenna dish to the TV. You can select Unicable for 1 or for 2 satellites at the start of the installation.

LNB settings

In some countries, you can adjust the expert settings for homing transponder and each LNB. Only use or change these settings when a normal installation fails. If you have non-standard satellite equipment, you can use these settings to overrule the standard settings. Some providers might give you some transponder or LNB values which you can enter here.

• Universal or Circular - The general type of LNB, usually you can select this type for your LNB.
• Low LO Frequency / High LO Frequency - The local oscillator frequencies are set to standard values. Adjust the values only in case of exceptional equipment that needs different values.
• 22 kHz Tone - By default, the Tone is set to Automatic.
• LNB Power - By default, LNB Power is set to Automatic.

Automatically Search for Channels

(Home) > Settings > Channels > Satellite installation > Automatic channel update

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

Alternatively, you can start a channel update yourself.

Automatic channel update

Once a day, at 6 AM, the TV updates the channels and stores new channels. New channels are stored in the All channels list but also in the New channels list. Empty channels are removed.
If new channels are found or if channels are updated or removed, a message is shown at TV start up. The TV must be in standby to automatically update channels.

* Only available when **Satellite channel list** is set to **From a sorted package**

Channel Update Message

(Home) > Settings > Channels > Satellite installation > Channel update message

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

Automatic Update Option

(Home) > Settings > Channels > Satellite installation > Automatic update option

Unselect a satellite if you do not want to update automatically.

* Only available when **Satellite channel list** is set to **From a sorted package**

Manual Installation

(Home) > Settings > Channels > Satellite installation > Manual installation

Manually install satellite.

• LNB - Select the LNB for which you want to add new channels.
• Polarisation - Select the polarisation you need.
• Symbol rate mode - Select Manual to enter symbol rate.
• Frequency - Enter the frequency for the transponder.
• Search - Search for transponder.

Satellite CAMs

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

Most CAMs are used to descramble channels.

CAMs (CI+ 1.3 with Operator Profile) can install all the

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

Channel List Copy

Introduction

Channel list copy and **Satellite list copy** are intended for dealers and expert users.

With **Channel list copy**/**Satellite list copy**, you can copy the channels installed on one TV onto another Philips TV of the same range. You can avoid the time-consuming channel search by uploading a predefined channel list on a TV.

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.
• Use a USB flash drive of minimum 1 GB.

Copy a Channel List, Check Channel List Version

Copy a channel list to USB flash drive

To copy a channel list…

1 - Switch on the TV. This TV should have channels installed.
2 - Plug in a USB flash drive to **USB** port.
3 - Select **(Home)** > **Settings** > **Channels** > **Channel list copy** or **Satellite list Copy** and press **OK**.
4 - Select **Copy to USB** and press **OK**.
5 - When copying is done, unplug the USB flash drive.

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

Check channel list version

(Home) > **Settings** > **Channels** > **Channel list copy** or **Satellite list Copy** > **Current version**

Upload a Channel List

To not Installed TVs

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

To a TV that is not yet installed
1 - Plug in the power plug to start the installation and select language and country. You can skip the channel search. Finish the installation.
2 - Plug in the USB flash drive that holds the channel list of the other TV.
3 - To start the channel list upload, select **(Home)** > **Settings** > **Channels** > **Channel List Copy** or **Satellite 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 - Plug in the USB flash drive that holds the channel list of the other TV.
2 - To start the channel list upload, select **(Home)** > **Settings** > **Channels** > **Channel List Copy** or **Satellite list Copy** > **Copy to TV** and press **OK**. Enter your PIN code if necessary.
3 - The TV notifies you if the channel list is copied to the TV successfully. Unplug the USB flash drive.

* Note: The country of the TV will changed to that of the source (USB) after the cloning has completed.

Internet Channel Installation

Search and Update Internet Channels

Search Internet channels*

(Home) > **Settings** > **Channels** > **Internet channel installation** > **Search for channels**

1 - Select **Search for channels** and press **OK**.
2 - Select **Update digital channels** to only add new digital channels.
Select **Quick channel reinstall** to install all channels again with default settings.
Select **Advanced channel reinstall** to do a full re-installation which takes you through each step.
3 - Press **OK** to search channels. This can take a few minutes.

Automatic channel update for Internet channels

(Home) > **Settings** > **Channels** > **Internet channel installation** > **Automatic channel update**

Turn on to set the TV to automatically update the Internet channels.

Automatic channel update

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

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

* Note: Internet channels is only available when the country setting is UK.

Freely App

Freely app

Freely app* is a TV app provided by Everyone TV for UK users. UK audiences can stream live TV channels alongside on demand content for free via the TV, removing the need for an aerial.

You need internet connection and accept the Philips Terms of Use, the Privacy Policy and Smart TV Terms of Use to install the Freely app. You can install the app using either the apps Screen or the **Search for antenna** option in the **Settings** Menu.

If the Freely app cannot be downloaded or installed, you may try to download again later. If problem persists, please contact Everyone TV.

Once the Freely app has been installed successfully, switch the source to **Watch Antenna** to enjoy features.

After Freely app is installed, there are some features will be affected.

• The channel selection, **TV Guide**, channel information are replaced by the app user interface.
• Antenna channels renaming and cloning will be disabled.

* Note: Freely app is only available when the country setting is UK.

Operator Apps

HD+ OpApp

HD+ OpApp

HD+ OpApp* is an app provided by HD+ for Germany users that can run a virtual set-top box on TV. The app has the applications and features that you previously needed a physical set-top box to access.

You need internet connection and accept the Philips Terms of Use, the Privacy Policy and Smart TV Terms of Use to install the HD+ OpApp. You can install the App either using the Apps Screen or the **Search for satellites** option in the **Settings** Menu.

If the HD+ OpApp cannot be downloaded or installed, you may try to download again later. If problem persists, please contact HD+.

Once the HD+ OpApp has been installed successfully, you can start the free period. Please switch the source to **Watch Satellite** after the installation. If you have been using a CAM Module for HD+ before, you can remove it now. If a CICAM is inserted in the TV, it will not be used to descramble the signal when you are watching a satellite channel.

After HD+ OpApp is installed, there are some features will be affected.

• Favourite list is only available in Antenna/Cable.
• The channel selection, **TV Guide**, channel information are replaced by the OpApp user interface
• Satellite channels renaming and cloning will be disabled.

* Note: HD+ OpApp is only available for HD+ subscriber and the country setting is Germany.

Channel Options

Open Options

While watching a channel, you can set some options.

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

To open the options menu…

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

Programme Info

Select **Programme info** to view the information of the programme you are watching.

To call up the details of the selected programme…

1 - Tune to the channel.
2 - Press **INFO** to open or close programme info.
3 - Alternatively, you can press **OPTIONS**, select **Programme Info** and press **OK** to open the programme info.
4 - Press ← **Back** to close the programme info.

Subtitles

To switch on Subtitles, press **OPTIONS** and select **Subtitles**.

You can switch subtitles **Subtitles on** or **Subtitles off**. Alternatively you can select **Automatic**.

Automatic

If language information is part of the digital broadcast and the broadcasted programme is not in your language (the language set on TV), the TV can show

subtitles automatically in one of your preferred subtitle languages. One of these subtitle languages must also be part of the broadcast.

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

Subtitles Language

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

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.

Dual I-II

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

Common Interface

If prepaid premium content is available from a CAM, you can set the provider settings with this option.

Mono / Stereo

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

To switch to Mono or Stereo…

Tune to an analogue channel.

1 - Press **OPTIONS**, select **Mono/Stereo** and press **>** (right).
2 - Select **Mono** or **Stereo** and press **OK**.
3 - Press **<** (left) repeatedly if necessary, to close the menu.

Channel Info

Select **Channel info** to view the technical information of the channel.

To call up the details of the selected channel…

1 - Tune to the channel.
2 - Press **OPTIONS**, select **Channel info** and press **OK** to open the channel info.
3 - Press **OPTIONS** again or press **← Back** to close the channel info.

HbbTV on This Channel

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

1 - Tune to the channel of which you want to block the HbbTV pages.
2 - Press **OPTIONS** and select **HbbTV on this channel** and press **>** (right).
3 - Select **Off** and press **OK**.
4 - Press **<** (left) to go back one step or press **← Back** to close the menu.

To block HbbTV on TV completely:

(Home) > Settings > Channels > HbbTV settings > HbbTV > Off

Universal Access

Only available when **Universal access** set to **On**.

(Home) > Settings > Universal access > Universal access > On.

To read more information, check on **Help > User manual > Universal Access Settings**.

HbbTV Settings - Hybrid Broadcast Broadband TV

(Home) > Settings > Channels > HbbTV settings > HbbTV

If a TV Channel offers HbbTV services, you must first switch on HbbTV in the TV settings to access to these advanced services, e.g. video on-demand and catch-up TV services.

(Home) > Settings > Channels > HbbTV settings > HbbTV tracking

Switch the tracking of HbbTV browsing behaviour on or off. Switching off will inform the HbbTV services not to track your browsing behaviour.

(Home) > Settings > Channels > HbbTV settings > HbbTV cookies

Switch the storage of third-party cookies, site data and cache from HbbTV services on or off.

(Home) > Settings > Channels > HbbTV settings > HbbTV Device ID reset

You can reset your TV unique device identifier. A new identifier will be created.

(Home) > Settings > Channels > HbbTV settings > Clear approved app listing

Allow you to clear the list of HbbTV applications that you have allowed to be launched on the TV.

CAM Settings

(Home) > Settings > Channels > CAM Operator profile

When CAM profile installation is done, select to enable or disable CAM Operator profile UI pop up message.

(Home) > Settings > Channels > CAM profile name

When **CAM Operator profile** is enabled, select to display the profile name of current connected CAM card.

(Home) > Settings > Channels > CAM interface

Select **USB** to enable the USB CAM, then the PCMCIA CAM will be disabled. Select **PCMCIA** to enable the PCMCIA CAM, then the USB CAM will be disabled.

7.3. Channel List

Open Channel List

To open the current channel list…

1 - Press **TV / EXIT**, to switch to TV.
2 - Press **OK** to open the channel list if Interactive Service is not available, or press **Channel list** to open the channel list.
3 - Press **OPTIONS** > **Select channel list**.
4 - Select one channel list you want to watch.
5 - Press **Back** to close the channel list.

The channels displayed in All Channel list is listed based on genre*. For example: Premium, Premium News, Premium Local, Children, Sport and etc. The Premium genre are top broadcast channels positioned with market share above 3%.

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

Channel List Options

Open Options Menu

To open the channel list option menu:

- Press **TV / EXIT**, to switch to TV.
- Press **Channel list** to open the channel list.
- Press **OPTIONS**, and select one of options.
- Press **Back** to close the channel list.

Rename Channel

1 - Press **TV / EXIT**, to switch to TV.
2 - Press **Channel list** to open the channel list.
3 - Select one channel you want to rename.
4 - Press **OPTIONS** > **Rename channel**, and press **OK** to open on-screen keyboard.
5 - Use navigation keys to select characters.
6 - Select **Enter** when complete the editing.
7 - Press **Back** to close the channel list.

Select Channel Filter

1 - Press **TV / EXIT**, to switch to TV.
2 - Press **Channel list** to open the channel list.
3 - Press **OPTIONS** > **Digital/Analogue**, **Free/Scrambled**
4 - Select one of channel combinations showing in the channel list.

Create or Edit Favourites Channel List

TV / EXIT > OK > OPTIONS > Create favourites list

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

TV / EXIT > OK > OPTIONS > Edit favourites

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

Select Channel Range

TV / EXIT > OK > OPTIONS > Select channel range

Select a range of channels in a channel list. Press **OK** to mark the beginning of range and then press **OK** again to end the range selection. The selected channels will be marked as favourites.

Select Channel List

TV / EXIT > OK > OPTIONS > Select channel list

Select one of channel lists that sorted by different kinds

of channels.

Search Channels

TV / EXIT > OK > OPTIONS > Search channel

You can search for a channel to find it in a long list of channels. The search will return the matching channel name with the result arranged in alphabetical order.

1 - Press **TV / EXIT**, to switch to TV.
2 - Press ≡ **Channel list** to open the channel list.
3 - Press **OPTIONS** > **Search channel**, and press **OK** to open on-screen keyboard.
4 - Use navigation keys to select a character, then press **OK**.
5 - Select **Enter** when complete the input.
6 - Press ← **Back** to close the channel list.

Lock or Unlock Channel

TV / EXIT > OK > OPTIONS > Lock channel, Unlock channel

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

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

Remove Favourite List

TV / EXIT > OK > OPTIONS > Remove favourite list

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

7.4. Favourite Channels

About Favourite Channels

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

Create a Favourites List

1 - While watching a TV channel, press ≡ **Channel list** to open the channel list.
2 - Select the channel, and press ▬ **Mark as favourites** to mark as favourite.
3 - The selected channel is marked with a ♥.
4 - To finish, press ← **Back**. The channels are added to the Favourites list.

Remove Channel from the Favourites List

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

Reorder Channels

You can reorder — reposition — channels in the Favourite channel list (only available for certain countries).

1 - While watching a TV channel, press **OK** > **OPTIONS** > **Select channel list**.
2 - Select **Antenna favourite**, **Cable Favourite** or **Satellite favourite***, and press **OPTIONS**.
3 - Select **Reorder channels**, select the channel you want to reorder, and press **OK**.
4 - Press the **Navigation buttons** to move the highlighted channel to another location and press **OK**.
5 - Once completed, press ▬ **Done**.

* Satellite channel only can be searched on xxPxSxxxx TV models.

Favourites List on TV Guide

You can link the TV Guide for your Favourite List.

1 - While watching a TV channel, press **OK** > **OPTIONS** > **Select channel list**.
2 - Select **Antenna favourite**, **Cable Favourite** or **Satellite favourite***, and press **OK**.
3 - Press **TV GUIDE** to open it.

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

On each page of TV Guide, there is a "Did you know" grid inserted on your favourite channel list. The "Did

you know"-channel provides useful tips to improve the way you use your TV.

7.5. Text / Teletext

Subtitles from Text

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

1 - Press **OPTIONS** while you are watching TV channels, select **Teletext** to open Text/Teletext.
2 - Enter the page number for subtitles, usually **888**.
3 - Press ← **(Back)** to close the Text page.

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

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

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**.

* 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 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.
• **Cycle subpages**
To cycle subpages when these are available.
• **Language**
To switch the group of characters that Text uses to display correctly.
• **Text 2.5**
To activate the Text 2.5 for more colours and better graphics.

Text Setup

Text language

Some digital TV broadcasters have several Text languages available.

Set teletext preference language

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

Text 2.5

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

1 - Press **TEXT** or press **OPTIONS** and then select **Teletext**.
2 - With Text/Teletext open on screen, press **OPTIONS**.
3 - Select **Text 2.5 > Off** to disable Text 2.5.

7.6. Streaming Channels

Streaming channels are free-to-watch TV channels supported by advertising. When your TV is connected to the Internet and Streaming channels are available in your region, your TV can automatically add Streaming channels to your TV guide for free. You can have these channels available at the press of a button whenever you want.

Watch Streaming channels

Your TV must be connected to a home network with an Internet connection. You will need to accept the Streaming channels Terms of Use and Privacy Policy.

To install and watch Streaming channels:

1 - Press the **SOURCES** key on the remote control to open the Sources menu.
2 - Select **Streaming*** to switch to the Streaming channels source.
3 - Follow the instructions on screen to accept the Terms of Use and the Privacy Policy.
4 - The TV will install the Streaming channels available in your region, please wait until the installation is done.
5 - Now you can watch Streaming channels on your TV.

Streaming channels include a Channel List, Channel / Progamme Info, a TV Guide, Channel / Programme lock and Channel options, just like Antenna, Cable and Satellite channels.

* Note: The **Streaming** channel is not available when the country setting is UK.

Change advertising privacy settings

Free Streaming channels are advertisement-supported. You can change the advertising privacy settings to enable or disable relevant advertising.

To view the Streaming channels Terms of Use or to change the Streaming channels advertising privacy settings, go to **⌂ (Home)** > **Settings** > **General settings** > **Privacy settings** and select below settings.

Privacy preference centre: view and set the privacy settings of your preference.
Advertising ID: view the current Advertising ID that identifies your TV to enable advertisements relevant for you. Press **OK** to reset the Advertising ID to a new random number.
Limited ad tracking: when limited ad tracking is enabled, advertising may be less relevant for you. This will not affect the number of adverts shown. Press **OK** to enable or disable limited ad tracking.

8. TV Guide

8.1. What You Need

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

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

8.2. Using the TV Guide

Open the TV Guide

To open the TV guide, press **TV GUIDE**.

Press **TV GUIDE** again to close.

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

Tune to a Programme

Switch to a programme
• From the TV guide, you can switch to a current programme.
• To select a programme, use the arrow keys to highlight the programme name.
• Navigate to the right to view programmes scheduled later that day.
• To switch to the programme (channel), select the programme and press **OK**.

View programme details

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

Update TV Guide

You can update the TV guide to get the latest programmes information.

To update the TV guide, press **OPTIONS** and select **Update TV guide**. It may take few minutes to complete the update.

Change Day

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

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

Search by Genre

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

To search for programmes by genre, press **OPTIONS** and select **Search by genre**.
Select a genre and press **OK**. A list with the found programmes appears.

9. Videos, Photos and Music

9.1. From a USB Connection

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

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

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

9.2. 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 - Once a device is connected, the Network device item will be replaced by connected device name.
3 - You can browse and play your files.
4 - To stop playing videos, photos and music, press EXIT.

9.3. Photos

View Photos

1 - Press SOURCES, select USB and press OK.
2 - Select USB Flash Drive and then select the USB device you need.
3 - Select one of photos, and press OK to view the selected photo.
• To view photos, select Photos in the menu bar, select a photo thumbnail and press OK.
• View the photo files with the control menu: Playback control bar, ⏮ (Jump to the previous photo in a folder), ⏭ (Jump to the next photo in a folder), ▶ (Start slideshow playback), ⏸ (Pause the playback).
• Press the icons on player to:
- Start a slideshow
- Rotate the photo
- Shuffle: play your files in a random order
- Repeat: plays all photos in this folder once or continuously
- Set the speed of the slide show
- Stop the music playing in the background.

Photo Options

When browsing photo files, press OPTIONS to get more options.

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

Sort
Browse your photos by date, timeline or file name.

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

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

Repeat
View the pictures repeatedly or once only.

Stop music
Stop the music if the music playback is in progress.

Slide show speed
Set the speed of the slide show.

Slide Show Transitions
Set the transition from one picture to the next.

Info
Show photo file information.

During the photo file viewing, press OPTIONS to get more option.

Info
Show photo file information.

9.4. Videos

Play Videos

To play a video on TV:

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

• To pause the video, press **OK**. Press **OK** again to continue.
• To rewind or go fast forward, press ▶▶ or ◀◀. Press the keys several times to speed up - 2x, 4x, 8x, 16x, 32x.
• To jump to the next video in a folder, press **OK** to pause and select ▶I on screen and press **OK**.
• To go back to the folder, press ← **Back**.

Open video folder
1 - Press **SOURCES**, select **USB** and press **OK**.
2 - Select **USB Flash Drive** and then select the USB device you need.
3 - Select **Videos** and select one of video, you can press **OK** to play the selected video.
• Select a video and press **INFO** to show file information.
• Play a video file with the control menu:
Progress bar, Playback control bar, I◀ (Jump to the previous video in a folder), ▶I (Jump to the next video in a folder), ▶ (Playback), ◀◀ (Rewind), ▶▶ (Fast forward), II (Pause the playback).
• Press the icons on player to:
- Play one/all videos
- Subtitle: switch subtitles On, Off or On During Mute.
- Subtitle language: select a Subtitle Language
- Select the character set if external subtitle is available.
- Audio language: select an audio language
- Shuffle: play your files in a random order
- Repeat: plays all videos in this folder once or continuously

Video Options

When browsing video files, press **OPTIONS** to get more options.

Play All
Play all files in the folder.

List/Thumbnails
View video files with list view or thumbnails view.

Shuffle off, Shuffle on
Play videos in sequential order, or at random.

Repeat, Play once
Play videos repeatedly or once.

Info
Show video file information.

During the video playback, press **OPTIONS** to get more options.

Subtitle settings
Set the Font size, Subtitle colour, Subtitle position and Time sync offset if the options are available.

Info
Show video file information.

9.5. Music

Play Music

Open music folder

1 - Press **SOURCES**, select **USB** and press **OK**.
2 - Select **USB Flash Drive** and press > (right) to select the USB device you need.
3 - Select **Music** and select one of music, you can press **OK** to play the selected music.
• Select a music and press **INFO** to show file information.
• Play a music file with the control menu:
Progress bar, Playback control bar, I◀ (Jump to the previous music in a folder), ▶I (Jump to the next music in a folder), ▶ (Playback), ◀◀ (Rewind), ▶▶ (Fast forward), II (Pause the playback).
• Press the icons on player to:
- Play all music
- Shuffle: play your files in a random order
- Repeat: plays all music in this folder once or continuously

Music Options

When browsing music files, press **OPTIONS** to get more options.

Play All
Play all files in the folder.

List/Thumbnails
View music files with list view or thumbnails view.

Shuffle off, Shuffle on
Play songs in sequential order, or at random.

Repeat, Play once
Play songs repeatedly or once.

10. Open TV Setting Menus

10.1. Quick Menu and Frequent Settings

Press **Quick Menu/MENU** key on the remote control to find the **Quick Menu**, then press the arrows ❮ (Left) to find the **Frequent settings**.

* Note: the options on **Quick menu** and **Frequent settings** may vary depending on different product features or different use cases.

Quick menu:
• **Help** — Diagnose and get more information about your TV.
• **All settings** — View all settings menu.
• **Sources** — To open the Sources menu.
• **Aurora*** — To launch the **Aurora** app.
• **Ambilight Suite*** — To launch the **Ambilight Suite**.
• **Watch TV** — To switch back to watch TV.
• **TV Guide** — To open the TV Guide.
• **Channels** — To open the channel list.
• **Media** — To launch media file player to play files from USB or network.
• **Eco settings** — To open the Eco settings menu.
• **Demo Me** — To manage demo files.

Frequent settings:
• **AI Picture style*** / **Picture style** — Select one of preset picture styles for ideal picture viewing.
• **Picture format** — Select one of preset picture format which fits the screen.
• **IntelliSound*** / **Sound style** — Select one of preset sound styles for ideal sound settings.
• **EasyLink 2.0** — Control and adjust settings of the EasyLink 2.0 compliant HDMI sound system.
• **Audio out** — Set the TV to play the sound on TV or on the connected audio system.
• **Bluetooth® devices*** — Setting for Bluetooth® devices.
• **DTS Play-Fi*** — Launch the DTS Play-Fi app.
• **Hearing profile*** — Personalise your TV speakers sound.
• **Ambilight style*** — Select one of preset Ambilight styles.
• **Install channels** — Update channels or start a complete new channel installation.
• **Wireless and networks** — Connect to your home network or adjust the network settings.
• **Screen off** — If you only listen to music on TV, you can switch off the TV screen.
• **Sleep timer** — Set the TV to switch to standby automatically after a preset time.
• **Update software** — Check for TV software update.

You can press ▬ **Customise** to enable or disable the items from the list of **Frequent settings**.

All settings menu:

Press ⌂ **(Home)** key on the remote control will go back to the Home screen. You can access **Settings** menu via the settings icon at the top right corner on Home screen.

* **Ambilight** related settings, **AI Picture style**, **IntelliSound**, **Bluetooth® devices**, **DTS Play-Fi** and **Hearing profile** are only for models which support the features.

10.2. All Settings

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

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

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

The available Picture styles are:

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

• The TV can play HDR programmes from any one of HDMI connections, broadcasting, from an Internet source (e.g. Netflix) or from a connected USB memory device.
• The TV will automatically switch to HDR mode with indication. TV supports following HDR formats: Hybrid Log Gamma, HDR10, HDR10+, and Dolby Vision but it is subject to the availability of such HDR format in content providers.

For HDR content (Hybrid Log Gamma, HDR10 and HDR10+)

The styles for HDR (Hybrid Log Gamma, HDR10 and HDR10+) content are:

• **HDR Personal**
• **HDR Crystal Clear**
• **HDR Home Cinema**
• **HDR ECO**
• **HDR Movie**
• **HDR Game**
• **HDR Monitor**
• **HDR Calman**

For Dolby Vision HDR content

The styles for Dolby Vision HDR content are:

• **HDR Personal**
• **HDR Crystal Clear**
• **Dolby Vision Bright**
• **Dolby Vision Dark**
• **Dolby Vision Game**

Restore picture style

To restore the style to its original setting, go to **(Home)** > **Settings** > **Picture**, then select **Restore picture style**.

Auto Film Picture style

Preferred Film Picture style

(Home) > **Settings** > **Picture** > **Auto Film Picture style** > **Preferred Film Picture style**.

You can select which **Picture style** will be automatically set when film contents are detected. The preferred Film Picture style option is depending on the availability of **(Home)** > **Settings** > **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 **(Home)** > **Settings** > **Picture** > **Auto Film Picture style** > **Auto Film Picture style**.

Switch on/off Auto Film Picture style

(Home) > **Settings** > **Picture** > **Auto Film Picture style** > **Auto Film Picture style**.

Switch on or off to detect film content automatically and set your preference in the **(Home)** > **Settings** > **Picture** > **Auto Film Picture style** > **Preferred Film Picture style**.

Contrast Settings

Brightness

Ambient Light Level Optimisation

(Home) > **Settings** > **Picture** > **Contrast** > **Brightness** > **Ambient light level optimisation**.

Switch on to automatically reduce eye strain under different ambient light conditions.

Backlight Contrast

(Home) > **Settings** > **Picture** > **Contrast** > **Brightness** > **Backlight contrast**.

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

Local Contrast

(Home) > **Settings** > **Picture** > **Contrast** > **Brightness** > **Local contrast**

Select **Minimum**, **Medium** or **Maximum** 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

(Home) > Settings > Picture > Contrast > Brightness > Video level.

Adjust the video contrast level.

Dark Details

Gamma

(Home) > Settings > Picture > Contrast > Dark details > Gamma.

To set a non-linear setting for picture luminance and contrast.

Note: Not available for some models when Ambient dark detail optimisation or Dark detail optimisation is set to On.

Black Level

(Home) > Settings > 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

(Home) > Settings > 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

(Home) > Settings > 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. You can adjust the method to Static or Dynamic.

Note: Available when HDR10 or HDR10+ signal detected.

HDR Effect Settings

(Home) > Settings > 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 More details, Balanced or More brightness for each type of HDR contents.

Colour Settings

(Home) > Settings > Picture > Colour.

Saturation

(Home) > Settings > 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 colour enhancement

(Home) > Settings > 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

(Home) > Settings > Picture > Colour > Wide colour gamut.

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

Adjust colour temperature

(Home) > Settings > Picture > Colour > Colour temperature > Whitepoint.

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

(Home) > Settings > 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

(Home) > Settings > Picture > Colour > Colour temperature > 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

(Home) > Settings > Picture > Sharpness > Enhancement.

To adjust the sharpness value of the picture.

Texture enhancement

(Home) > Settings > Picture > Sharpness > Texture enhancement.

Switch on to have a superior sharpness in line edges and details.

Picture Noise

Noise reduction

(Home) > Settings > Picture > Picture noise > Noise reduction

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

Artefact reduction

(Home) > Settings > Picture > Picture noise > Artefact reduction

Select Off, Maximum, Medium, 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.

* Note: The Artefact reduction settings are not available when input source is 4K resolution.

Motion Settings

Motion styles

(Home) > Settings > 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:

• (Home) > Settings > Picture > Picture style/AI Picture style > Monitor/HDR Monitor

• (Home) > Settings > Picture > Picture style/AI Picture style > Game/HDR Game/Dolby Vision Game
• Video source is variable refresh rate
• Video source frame rate is 120Hz or higher

Game motion styles

(Home) > Settings > Picture > Motion > Game motion styles.

Game motion styles provides optimised motion setting modes for different game contents.

Select one of the Game motion styles to have different viewing experience on motion video. Available setting options for Game motion style are Off, Smooth and Personal.

Only available for below cases:

• Picture style/AI Picture style is Game, HDR Game, or Dolby Vision Game style
• Video source is not variable refresh rate
• Video source frame rate is not more than 60Hz

Smoothness

(Home) > Settings > 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 / Game motion styles set to Personal.

Blur reduction

(Home) > Settings > Picture > Motion > Blur reduction.

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

Select from 0 to 10 to have different degrees 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 / Game

motion styles set to Personal.

Quick Picture Settings

(Home) > Settings > Picture > Quick picture settings

• During the first installation, you did some picture settings in a few easy steps. You can redo these steps with Quick picture settings menu.
• Select the picture setting you prefer and go to the next setting.
• To do these steps, make sure the TV can tune to a TV channel or can show a programme from a connected device.

Screen Settings

Picture Format

(Home) > Settings > 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…

• Wide screen – automatically zooms in the picture to 16:9 full screen. Picture content aspect ratio may change.
• Fill screen – automatically enlarges the picture to fill the screen. Picture distortion is minimal, subtitles remain visible. Not suitable for PC input. Some extreme picture formats can still show black bars. 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 supported for PC input.
• Original – automatically zooms in the picture to fit the screen with original aspect ratio. No content lost visible.

(Home) > Settings > Screen > Picture format > Advanced

To format the picture manually…

• Shift – select on the arrows to shift the picture. You can only shift the picture when it is zoomed in.
• Zoom – select on the arrows to zoom in.
• Stretch – select on the arrows to stretch the picture vertically or horizontally.
• Undo – select to return to the picture format you started with.

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

Auto Pixel Shift

(Home) > Settings > Screen > Auto pixel shift

Switch On to automatically shift pixels position over time to reduce pixel stress. It is highly recommended that you switch it on to reduce the risk of image retention.

Sound Settings

IntelliSound

IntelliSound Engine

IntelliSound Engine comprises of various impactful audio processing technologies that capture the essence of sound and how it enhances the total sound experience. You can select from three IntelliSound engine modes.

(Home) > Settings > Sound > IntelliSound

The available IntelliSound engine modes are:

• Preset — sound styles that are optimally tuned for specific use cases. Select among Entertainment, Music, Dialogue and Original.
• Custom — enable custom setting options to further customise the sound effects to suit your needs. Different sound style allows access to different Audio Processing items.
• AI — Auto detect content type and automatically adjust sound setting to the optimum.

Preset Sound Styles

Select a preset style

When IntelliSound is set to Preset, you can go to (Home) > Settings > Sound > Sound style to select a preset sound style.

(Home) > Settings > Sound > Sound style

The available sound styles are:

• Entertainment — ideal for watching movies.
• Music — ideal for listening to music.
• Dialogue — ideal for speech.
• Original — select for general TV watching.

Custom Settings

Entertainment Style Settings

When **IntelliSound** is set to **Custom** and **Sound style** setting is **Entertainment**, you can go to **(Home)** > **Settings** > **Sound** > **Custom settings** to adjust detailed settings for the **Entertainment** sound style.

Dolby Atmos

(Home) > **Settings** > **Sound** > **Custom settings** > **Dolby Atmos**

Select **On** or **Auto** to enable Dolby Atmos feature.

Immersive level

(Home) > **Settings** > **Sound** > **Custom settings** > **Immersive level**

Set the amount of Immersive effect, only available when **Dolby Atmos** is set to **On** or **Auto**.

Vocal boost

(Home) > **Settings** > **Sound** > **Custom settings** > **Vocal boost**

Adjust the amount of the dialogue content.

Bass enhancement

(Home) > **Settings** > **Sound** > **Custom settings** > **Bass enhancement**

Adjust the amount of bass enhancement level.

Bass+

(Home) > **Settings** > **Sound** > **Custom settings** > **Bass+**

Enable for an added bass extension. Depending on different TV models or sound settings, this option may not be available.

Equaliser

(Home) > **Settings** > **Sound** > **Custom settings** > **Equaliser**

Adjust the equaliser settings.

Reset all to default

(Home) > **Settings** > **Sound** > **Custom settings** > **Reset all to default**.

Reset all of Personal settings back to the original factory settings.

Music Style Settings

When **IntelliSound** is set to **Custom** and **Sound style** setting is **Music**, you can go to **(Home)** > **Settings** > **Sound** > **Custom settings** to adjust detailed settings for the **Music** sound style.

Music Mode

(Home) > **Settings** > **Sound** > **Custom settings** > **Music Mode**

Select **Pure** to listen to the original content or **Spatial** to add spatializer effect to the content.

Spatial effect

(Home) > **Settings** > **Sound** > **Custom settings** > **Spatial effect**

Adjust the amount of spatializer effect, only available when **Music Mode** is set to **Spatial**.

Bass enhancement

(Home) > **Settings** > **Sound** > **Custom settings** > **Bass enhancement**

Adjust the amount of bass enhancement level.

Bass+

(Home) > **Settings** > **Sound** > **Custom settings** > **Bass+**

Enable for an added bass extension. Depending on different TV models or sound settings, this option may not be available.

Equaliser

(Home) > **Settings** > **Sound** > **Custom settings** > **Equaliser**

Adjust the equaliser settings.

Reset all to default

(Home) > **Settings** > **Sound** > **Custom settings** > **Reset all to default**.

Reset all of Personal settings back to the original factory settings.

Dialogue Style Settings

When **IntelliSound** is set to **Custom** and **Sound style** setting is **Dialogue**, you can go to **(Home)** > **Settings** > **Sound** > **Custom settings** to adjust detailed settings for the **Dialogue** sound style.

Vocal boost

(Home) > **Settings** > **Sound** > **Custom settings** > **Vocal boost**

Adjust the amount of the dialogue content.

Equaliser

(Home) > **Settings** > **Sound** > **Custom settings** > **Equaliser**

Adjust the equaliser settings.

Reset all to default

(Home) > **Settings** > **Sound** > **Custom settings** > **Reset all to default**.

Reset all of Personal settings back to the original factory settings.

Original Style Settings

When **IntelliSound** is set to **Custom** and **Sound style** setting is **Original**, you can go to **(Home)** > **Settings** > **Sound** > **Custom settings** to adjust detailed settings for the **Original** sound style.

Dolby Atmos

(Home) > **Settings** > **Sound** > **Custom settings** > **Dolby Atmos**

Select **On** or **Auto** to enable Dolby Atmos feature.

Immersive level

(Home) > **Settings** > **Sound** > **Custom settings** > **Immersive level**

Set the amount of Immersive effect, only available when **Dolby Atmos** is set to **On** or **Auto**.

Vocal boost

(Home) > **Settings** > **Sound** > **Custom settings** > **Vocal boost**

Adjust the amount of the dialogue content.

Bass enhancement

(Home) > **Settings** > **Sound** > **Custom settings** > **Bass enhancement**

Adjust the amount of bass enhancement level.

Bass+

(Home) > **Settings** > **Sound** > **Custom settings** > **Bass+**

Enable for an added bass extension. Depending on different TV models or sound settings, this option may not be available.

Equaliser

(Home) > **Settings** > **Sound** > **Custom settings** > **Equaliser**

Adjust the equaliser settings.

Reset all to default

(Home) > **Settings** > **Sound** > **Custom settings** > **Reset all to default**.

Reset all of Personal settings back to the original factory settings.

EasyLink 2.0

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

(Home) > **Settings** > **Sound** > **EasyLink 2.0**.

You can adjust the individual sound settings of the HDMI sound system via **Frequent settings** or **Settings** > **Sound** > **EasyLink 2.0**. This is only applicable with EasyLink 2.0 compliant HDMI sound system. The setting options are different depending on how is the Easylink 2.0 HDMI sound system able to support.

Adjust bass level

(Home) > **Settings** > **Sound** > **EasyLink 2.0** > **Bass**.

Press the **Arrow / navigation** keys to adjust the level of bass. The option is available when **Sound style** is not set to **Custom**.

Adjust treble level

(Home) > **Settings** > **Sound** > **EasyLink 2.0** > **Treble**.

Press the **Arrow / navigation** keys to adjust the level of treble. The option is available when **Sound style** is not

set to **Custom**.

Custom Equaliser

(Home) > Settings > Sound > EasyLink 2.0 > Custom Equaliser.

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

Surround Sound

(Home) > Settings > Sound > EasyLink 2.0 > Surround Sound / Surround Mode

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.

* Some of Easylink 2.0 HDMI sound system only supports **Surround Mode** to switch on or off virtual surround.

DRC

(Home) > Settings > 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

(Home) > Settings > 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

(Home) > Settings > 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.

Subwoofer

(Home) > Settings > Sound > EasyLink 2.0 > Subwoofer.

Adjust subwoofer level.

Dolby Atmos

(Home) > Settings > Sound > EasyLink 2.0 > Dolby Atmos.

Adjust Dolby Atmos height loudness.

DTS TruVolume

(Home) > Settings > Sound > EasyLink 2.0 > DTS TruVolume.

Select consistent volume level.

Night Mode

(Home) > Settings > Sound > EasyLink 2.0 > Night Mode.

Select comfortable quiet listening level.

Auto Volume

(Home) > Settings > Sound > EasyLink 2.0 > Auto Volume.

Control the sound listening level.

Display

(Home) > Settings > Sound > EasyLink 2.0 > Display.

Set to turn off display automatically.

Reset all to default

(Home) > Settings > Sound > EasyLink 2.0 > Reset all to default.

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

DTS Play-Fi

DTS Play-Fi

(Home) > Settings > 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 or play music from your mobile device to the TV using the Wi-Fi music app on your mobile device.

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 speakers
- Wi-Fi music app installed on your phone or tablet

Setup to play TV audio on Play-Fi Multi-Room Speakers

1 - Make sure Philips TV, Play-Fi compatible speakers, mobile device are connected to the same home network.
2 - If your Play-Fi compatible speaker is not connected to network yet:
a. Download the Wi-Fi music app into your mobile devices.
b. Wi-Fi music app > Settings > Setup Play-Fi Device.
c. Follow the instructions in the app to connect your speaker to the same network as your TV.
3 - On your Philips TV, open the pre-installed DTS Play-Fi app and select **DTS Play-Fi Audio** > **Connect Speakers** to search for 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.

Steps to play music from mobile device to TV via DTS Play-Fi

1 - Download Wi-Fi music app into your phone or tablet.
2 - Launch Wi-Fi music app.
3 - Tap "+" to search for your Philips TV.
4 - Select your Philips TV and select "**Play To**".
5 - Choose your music source to play to the TV.

Room Calibration

Room calibration

(Home) > Settings > Sound > Room calibration.

This calibration will allow the TV to determine the acoustics in your room and provide optimised 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, select **Try again** to redo the calibration or select **Cancel** to abort the calibration.

When room calibration setup is successful and applied, you can go to **(Home) > Settings > Sound > Room calibration** and select **Apply calibration** Off/On to disable/enable the calibrated settings.

TV Placement

(Home) > Settings > Sound > TV placement

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

Advanced Sound settings

Volume Control

Auto volume

(Home) > Settings > Sound > Advanced > Auto volume

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

Delta volume

(Home) > Settings > 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**.

Audio Out Settings

(Home) > Settings > Sound > Advanced > Audio out

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

You can select where you want to hear the TV sound and how you want to control it.
• If you select **TV Speakers**, the TV speakers are always on. All the sound related settings are applicable to this mode.
• If you select **Wired headphones**, the sound will be played through headphones.
• If you select **Optical**, the TV speakers are switched off and the sound will be played through the device connected to Digital Audio Out - Optical.
• If you select **TV Speakers + Wired headphones**, the sound will be played through TV speakers and headphones.

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.

To adjust the volume of TV speakers or headphones, press **Volume** and press the arrows > (right) or < (left) to select the output source you want to adjust.
Press **Volume +** or **-** to adjust the volume level of selected output source.

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eARC

eARC setting

(Home) > Settings > Sound > Advanced > eARC

Set eARC mode to **Automatic** or **Off**. HDMI eARC (Enhanced Audio Return Channel) is an advancement over the previous ARC. It supports the latest high-bitrate audio formats up to192kHz, 24-bit, and uncompressed 5.1 and 7.1, and 32-channel uncompressed audio.

HDMI eARC is only available on **HDMI 2**.

Digital Output Settings

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

Digital out format

(Home) > Settings > Sound > Advanced > 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 send original bitstream from HDMI ARC to the connected HDMI Sound System.

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

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

Digital out levelling

(Home) > Settings > Sound > Advanced > Digital out levelling

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

• Select **More** to have louder volume.
• Select **Less** to have softer volume.

Digital out delay

(Home) > Settings > Sound > Advanced > Digital out delay

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

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

(Home) > Settings > Sound > Advanced > Digital out offset

• If you cannot set a delay on the Home Theatre System, you can set the TV to sync the sound.
• You can set an offset that compensates for the time necessary for the Home Theatre System to process the sound of the TV picture.
• You can set the value from 0 to 60ms.

Hearing Profile

Hearing profile settings

(Home) > Settings > Sound > Hearing profile.

Personalise your TV speakers sound

Hearing profile setting is for creating a personal profile based on your hearing abilities by taking a hearing test. You can choose your preferred sound, so that hear more and experience better sound, thereby enhancing the TV viewing experience.

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

Start the hearing test
from ⌂ (Home) > Settings > Sound > Hearing profile > Configure. Create your own hearing profile with a short hearing test.

Before the test, you need to switch your current audio out to TV speakers as the setup affects TV speakers only. The hearing test works best when carried out in silence, make sure your environment is quiet when testing.

Select Start and enter a profile name to start the test.

During the test:

- You will hear an increasing beep sound.
- Press OK button when you hear the beep sound.
- Then, you will hear a decreasing beep sound.
- Press OK button when you don't hear the beep sound.
- The test will repeat 5 times for different tones.

Once the test is completed, your hearing test results will be presented and then select Save and exit to store the profile. You can apply current profile or create other profiles by maximum 3 profiles. You can also Rename profile or Remove profile when needed.

Dolby Atmos for Headphone

⌂ (Home) > Settings > Sound > Dolby Atmos for headphone

Switch On or Off the Dolby Atmos for Headphone when Dolby Atmos content is available. Select Wired headphones from Audio out setting or connect a Bluetooth® device to enjoy the Dolby Atmos sound experience with your headphones.

Ambilight

Ambilight Style

⌂ (Home) > Settings > Ambilight > Ambilight style

You can select the way Ambilight follows or select Off to turn off the Ambilight.

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

- AI – Select AI for intelligent switching of Ambilight style based on video content.
- Standard – Ideal for day to day TV watching.
- Sports – Ideal for sports programme.
- Cinema – Ideal for movie and home entertainment experience.
- Gaming – Ideal for playing games.
- Music – Listening music and follow the dynamics of the sound.
- Fixed colour – Select a static colour of your choice.

Follow App

This function is only available when you control Ambilight with Philips Smart TV app.

Ambilight Personalisation

Ambilight personalisation

⌂ (Home) > Settings > Ambilight > Ambilight personalisation / Ambilight personalisation (current selected style)

You can customise the current style to your preference.

- Eco room adaptive – Enable or disable automatic brightness adjustment linked to room conditions.
- Brightness – To set the level of Ambilight brightness.
- Saturation – To set the level of Ambilight saturation.
- Dynamics – To set the speed of Ambilight dynamic effect.
- Ambilight on dark content – Select the minimum brightness of Ambilight while dark content is being displayed.

Personalised settings for Fixed colour and Music style

When ⌂ (Home) > Settings > Ambilight > Ambilight style is set to Fixed colour, you can customise the style:

- Fixed colour selection – Select your preferred static colour from the colour palette and tune it via colour sliders to your preference.
- Dynamic effects – Add dynamic effects to the selected colour.

When ⌂ (Home) > Settings > Ambilight > Ambilight style is set to Music, you can select predefined Ambilight music profiles from Music style selection:

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

Reset all to default

⌂ (Home) > Settings > Ambilight > Ambilight personalisation / Ambilight personalisation (current

selected style) > Reset all to default

Reset all of Ambilight personalisation settings back to the original factory settings.

Advanced Ambilight Settings

Wall colour behind the TV

(Home) > Settings > Ambilight > Advanced > Wall colour behind the TV

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

Fade out to off

(Home) > Settings > Ambilight > Advanced > Fade out to off

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

Ambilight animation

(Home) > Settings > Ambilight > Advanced > Ambilight animation

Enable or disable displaying the Ambilight animation* during TV wake-up from mains power-on.

* Note: not applicable when Power-on behavior is set to Last source.

Lounge light autostart

(Home) > Settings > Ambilight > Advanced > Lounge light autostart

Activate Lounge light automatically after TV goes to standby.

Ambilight Suite

Introduction

Ambilight Suite is an integrated control centre to utilize whole Ambilight feature in your daily life. Press Quick Menu/MENU key on the remote control to find the Quick Menu, select Ambilight Suite and press OK to enter the control centre. Alternatively, you can go to (Home) > Settings > Ambilight > Ambilight Suite and press OK to launch Ambilight Suite.

The Ambilight Suite can switch among Lounge, Sleep and Sunrise styles for different scenarios; each style has its own quick setting items to adjust the settings for you need.

Lounge

Lounge mode

The Lounge 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. You can select a theme from the bottom icons with different preset Ambilight colour or personalise your own to mood up your room and chill.

Select one of preset colours from bottom icons and press OK to adjust detailed settings of selected colour.

Start now

To start the Lounge mode immediately with selected Ambilight colour.

Colour

The option is only available when selecting Personal colour. You can select your preferred Lounge light colour from the colour palette and tune it via colour sliders to your preference.

Dynamic effects

Activate dynamic effects for your selected Ambilight colour.

Brightness

Lounge light brightness level selection.

Duration

Set the duration (in minutes) of Lounge mode.

Set as default

Set current selected Ambilight colour and related settings as default setting of Lounge mode.

Sleep

Sleep mode

Sleep mode simulates sunset to help you unwind before you fall asleep. At the end of simulation, the TV will automatically switch to standby. You can select a theme with Ambilight colour and nature sound or personalise your own to lull yourself to sleep.

Select one of preset themes from bottom icons and press **OK** to adjust detailed settings of selected theme.

Start now

To start the Sleep mode immediately with selected theme.

Colour

Adjust the Ambilight colour of selected theme.

Dynamic effects

Activate dynamic effects for your selected Ambilight colour.

Brightness

Set the starting brightness of Sleep mode.

Duration

Set the duration (in minutes) of Sleep mode.

Set as default

Set current selected theme and related settings as default setting of Sleep mode.

Sunrise

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 coloured screen and music.
- Slowly transit to weather forecast with matching backdrop.

From the bottom icons, select **Add alarm** icon to set a new alarm, select **Settings** icon to adjust alarm settings, select an already set alarm to check the setting details.

Set alarm

To enable or disable the alarm.

Time

Set the alarm time.

Repeat

Set to trigger the alarm repeatedly.

Backdrop theme

Set to indicate the weather forecast or select from photo categories.

Music

Set the music track to play during wake up.

Switch on volume

Set the music volume during wake up.

Preview

Preview the wake up effect.

If TV is 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 alarm and switch TV to standby.
- ← **Back**: exits the Sunrise alarm and switch to last viewed TV source.
- ⌂ **(Home)**: exits the Sunrise alarm 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 key to open Quick Menu
2 - Select Aurora 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.

Wireless and Networks

Home Network

To enjoy the full capabilities of your Philips Smart 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.

Make the Connection - Wireless

🏠 (Home) > Settings > Wireless & networks > Wired or Wi-Fi > Connect to network > Wireless (Wi-Fi)

1 - In the list of found networks, select on your wireless network. If your network is not in the list because the network name is hidden (you switched off the SSID broadcast of the router), select Add New Network to enter the network name yourself.
2 - Enter your encryption key. 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.

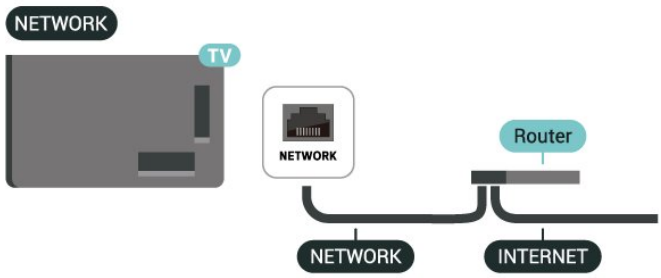
Turn Wi-Fi On or Off

🏠 (Home) > Settings > Wireless & networks > Wired or Wi-Fi > Wi-Fi On/Off

Wired Connection

What You Need

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



Make the Connection

🏠 (Home) > Settings > Wireless & networks > Wired or Wi-Fi > Connect to network > Wired

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

2 - Make sure that the router is switched on.
3 - The TV constantly searches for the network connection.
4 - A message will be shown when the connection is successful.

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

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

Wireless and Network Settings

Check the network

(Home) > Settings > Wireless & networks > Wired or Wi-Fi > Check the network

Check the network connection status.

View Network Settings

(Home) > Settings > Wireless & networks > Wired or Wi-Fi > View network settings

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

Network Configuration

(Home) > Settings > Wireless & networks > Wired or Wi-Fi > Network Configuration

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

Static IP Configuration

(Home) > Settings > Wireless & networks > Wired or Wi-Fi > Static IP configuration

1 - Select Static IP configuration and configure the connection.
2 - You can set the number for IP Address, Netmask, Gateway, DNS 1, or DNS 2.

Switch on with LAN

(Home) > Settings > Wireless & networks > Wired or Wi-Fi > Switch on with LAN

You can switch this TV on from your smartphone or tablet if the TV is in Standby. The setting Switch on with LAN must be switched on.

Switch on with home devices

(Home) > Settings > Wireless & networks > Wired or Wi-Fi > Switch on with home devices

Allow your home devices to switch on the TV from standby. This may affect TV energy consumption during standby.

Digital Media Renderer - DMR

(Home) > Settings > Wireless & networks > Wired or Wi-Fi > 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.

Switch on Wi-Fi connection

(Home) > Settings > Wireless & networks > Wired or Wi-Fi > Wi-Fi On/Off

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

TV network name

(Home) > Settings > Wireless & networks > Wired or Wi-Fi > TV network name

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

Terms of use

(Home) > Settings > General settings > Terms of use

You can view the contents of Terms of use, which is displayed when you first time to connect your TV to the Internet.

Privacy settings

(Home) > Settings > General settings > Privacy settings

You can view the contents of Privacy settings, which is displayed when you first time to connect your TV to the Internet.

Netflix settings

(Home) > Settings > Wireless & networks > Wired or Wi-Fi > Netflix settings

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

Clear Internet Memory

(Home) > Settings > Wireless & networks > Wired or

Wi-Fi > Clear Internet Memory

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

TV Control with Matter

Connect your TV to Matter smart home network

(Home) > Settings > Wireless & networks > Wired or Wi-Fi > TV Control with Matter

Matter is the foundation for connected things and a protocol to connect compatible devices and systems. You can add your TV to a Matter smart home network by scanning the QR code or enter the setup code.

Connects with Control4®

Switch to enable to connect with Control4®

(Home) > Settings > Wireless & networks > Wired or Wi-Fi > Connects with Control4

Control4® is the provider of personalised automation and control solutions, helping to control multiple devices in your home. To join your Philips Smart TV to Control4®, please make sure your Control4® environment and devices are properly set.

General Settings

Connection Related Settings

USB Keyboard Settings

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

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

Mouse Settings

(Home) > Settings > General settings > Mouse settings

Adjust the motion speed of the USB mouse.

Power and Energy

Set the Power-on behaviour

(Home) > Settings > General settings > Power and energy > Power-on behaviour

Set the TV to stay on **Home** screen or on **Last source** when power on the TV.

Set screen off to save energy consumption

(Home) > Settings > General settings > Power and energy > Screen off

Select **Screen off**, the TV screen is switched off, to switch the TV screen back on, press any key (except AMBILIGHT, **Volume +** or **-** , Play ▶ , Pause ⏸ and **123 key**) on the remote control.

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

(Home) > Settings > General settings > Power and energy > Sleep timer

Set the TV to switch to Standby automatically after a preset time. You can set the time to up to 180 minutes in increments of 10 or 30 minutes. If set to **Off**, the sleep timer is switched off. You can always switch off your TV earlier or reset the time during the countdown.

Set TV switch off timer

(Home) > Settings > General settings > Power and energy > Switch off timer

Set the Switch off timer, the TV switches off automatically to save energy. The setting value **Off** deactivates the automatic switch off.

• 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 **Off**.

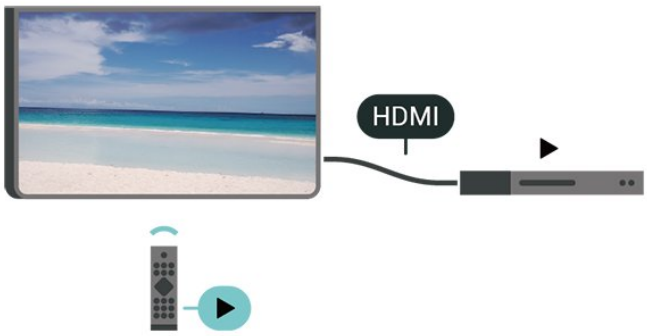
Set timer to switch off automatically when TV has no signal

(Home) > Settings > General settings > Power and energy > No signal timer

Your TV will switch off automatically if there is no signal available after **10/15/20 minutes.**

HDMI-CEC Connection - EasyLink

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



Switch on EasyLink

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

Operate HDMI CEC-compatible devices with TV remote control

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

Note:

- EasyLink might not work with devices from other brands.

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

Apple AirPlay and HomeKit

Streaming contents via AirPlay

You can stream the media files from Apple devices to your TV via AirPlay. Go to (Home) > Settings > General settings > Apple AirPlay and HomeKit to enter AirPlay and HomeKit Settings page and make sure AirPlay is turned On. Your Apple device must be connected to the same Wi-Fi home network as your TV to stream contents.

Add your TV to Apple HomeKit

To add your TV to HomeKit and control your TV via Apple devices:

1 - Go to (Home) > Settings > General settings > Apple AirPlay and HomeKit to enter AirPlay and HomeKit Settings page.
2 - Select Set UP under HomeKit section to generate a QR code on your TV.
3 - On your Apple device, open the Home app and tap Add + and then scan the QR code on TV.
4 - Follow the instructions on your Apple device and join your TV to HomeKit.

Screensaver Settings

(Home) > Settings > General settings > Screensaver settings > Screensaver

Select Backdrop to enable the Screensaver. Select Off to disable the Screensaver.

(Home) > Settings > General settings > Screensaver settings > When to start

Set the duration (in minutes) when TV is in idle state before activating the Screensaver.

(Home) > Settings > General settings > Screensaver settings > Preview

Press OK to preview the Screensaver.

Location - Home or Shop

(Home) > Settings > General settings > Location

• Select the location of your TV
• Select Shop, the picture style is switched back to Crystal Clear, and can adjust shop settings.
• Shop mode is for in-store promotion.

Shop Setup

(Home) > Settings > General settings > Shop setup

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

Adjust Picture and audio

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

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

Logos and banner

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

Set to display Feature logos and Promotional banner.

Demo Me autostart

(Home) > Settings > General settings > Shop setup > Demo Me autostart / Ambilight Demo autostart

Switch on or off the Demo Me or Ambilight Demo autostart.

POS Sound

(Home) > Settings > General settings > Shop setup > POS Sound

Switch on or off the POS Sound. This feature is intended for dealers.

HDMI Ultra HD

Set the signal quality for each HDMI connectors

(Home) > Settings > General settings > HDMI Ultra HD > HDMI (port) > Standard / Optimal / Optimal (Auto Game 144Hz Pro) / Automatic

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.

TV will automatic detect HDMI video device connected and make TV adjustment to the best matching configuration. In case you still face black screen or distorted screen or sound, you can adjust **HDMI Ultra HD** setting to **Standard** for legacy devices.

Ultra High Speed certified HDMI cable is highly recommended for all HDMI connections. To change the settings, switch to the HDMI source first. Select **Automatic** to enable TV automatically matching your HDMI device. 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 120/144Hz*) 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*, 144Hz*
• 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**, or **Optimal (Auto Game 144Hz Pro)**.

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

• Set **Optimal (Auto Game 144Hz Pro)** to enable TV to support the HDMI Variable Refresh Rate video. This option also enables TV to automatically set Picture/Sound style to Game whenever it is informed by the HDMI device connected to TV.

* With HDMI Variable Refresh Rate 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:
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+ or Dolby Vision content is supported only when **HDMI Ultra HD** is set to **Optimal** or **Optimal (Auto Game 144Hz Pro)**.

Manage Demos

(Home) > Apps > Demo me > Manage demos

If the TV is set to **Shop**, you can manage the demo videos in **Demo me** app.

Play demo video

(Home) > Apps > Demo me > Manage demos > Play
Select a demo video file and play.

Copy demo file

(Home) > Apps > Demo me > Manage demos > Copy to USB
Copy demo file to USB drive.

Delete demo file

(Home) > Apps > Demo me > Manage demos > Delete
Delete demo file from your TV.

Configuration of demo

(Home) > Apps > Demo me > Manage demos > Configuration
Set the TV to **Main TV** or **Sub TV**.

Download new demo file

(Home) > Apps > Demo me > Manage demos > Download new
If the **Configuration** is set to **Main TV**, you can download new demo file.

Auto delay setting

(Home) > Apps > Demo me > Manage demos > Auto delay setting
Set the Auto delay time from 15 seconds to 5 minutes.

Auto loop selection

(Home) > Apps > Demo me > Manage demos > Auto loop selection
Select a demo file for auto loop playing.

Reset TV Settings and Reinstall TV

Reset all settings value to original TV settings

(Home) > Settings > General settings > Factory settings

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

(Home) > Settings > General settings > Reinstall TV

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

Lock Settings

Set Code and Change Code

(Home) > Settings > Child lock > Set code, Change code

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

Note: If you forgot your PIN code, you can override the current code use 8888 and enter a new code.

Lock for Programme

(Home) > Settings > Child lock > Parental rating

Set a minimum age to watch rated programmes.

App lock

(Home) > Settings > Child lock > App lock

You can lock apps unsuited for children. The App lock will ask for a PIN code when you try to start an 18+ rated app. This lock is only valid for 18+ rated apps from the Philips apps.

Region and Language Settings

Language

(Home) > Settings > Region and language > Language

Change the language of the TV menu and messages

(Home) > Settings > Region and language > Language > Menu language

Set audio preference language

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

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

Set subtitle preference language

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

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

Set teletext preference language

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

Some digital TV broadcasters have several Text languages available.

Clock

(Home) > Settings > Region and language > Clock

Correct clock automatically

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

• The standard setting for the TV clock is Automatic. The time information comes from the broadcasted UTC - Coordinated Universal Time information.
• If the clock is not correct, you can set the TV clock to Country dependent.

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

Correct clock manually

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

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

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

Note:

• If none of the automatic settings display the time correctly, you can set the time manually.
• The Auto clock mode setting will be back to Automatic after the TV power is turned off and on again.

Set time zone or set a time offset for your region

(Home) > Settings > Region and language > Clock > Time zone

Select one of the time zones.

10.3. Eco Settings

Settings for Energy saving

MENU > Eco settings > Energy saving

Press **MENU** key on the remote control to find the **Quick Menu**, select **Eco settings** to set the options. Select and confirm to apply the Eco settings on TV. This may reset some picture settings to original and reduce some brightness of the Ambilight*. Please note that TV experience might be affected by this setting. The green leaf icon will be appended when Eco settings are applied.

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

Set screen off to save energy consumption

MENU > Eco settings > Screen off

Select **Screen off**, the TV screen is switched off, to switch the TV screen back on, press any key (except AMBILIGHT, **Volume** + or - , Play ▶ , Pause ⏸ and **123 key**) on the remote control.

Set TV switch off timer

MENU > Eco settings > Switch off timer

Set the Switch off timer, the TV switches off automatically to save energy. The setting value **Off** deactivates the automatic switch off.

• 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 **Off**.

Set timer to switch off automatically when TV has no signal

MENU > Eco settings > No signal timer

Your TV will switch off automatically if there is no signal available after **10/15/20 minutes.**

11. Universal Access

11.1. Universal Access Settings

(Home) > Settings > Universal access

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

Switch on universal access settings

(Home) > Settings > Universal access > Universal access > On.

Universal access for hearing impaired people

(Home) > Settings > Universal access > Hearing impaired > On

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

Universal access for blind or partially sighted people

(Home) > Settings > Universal access > Audio description > Audio description > On

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

(Home) > Settings > 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. Press the arrows > (Right) or < (Left) to adjust the value.
• Set Audio effect to On for extra audio effects in the commentary audio, like stereo or fading sound.
• Select Speech to set speech preference, Descriptive or Subtitles.

Dialogue enhancement

(Home) > Settings > Universal access > Dialogue enhancement

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

Voice guidance

(Home) > Settings > Universal access > Voice guidance

Switch on to enable Voice guidance feature using the text to speech engine. The feature is only available in selected languages.

Set the Speech rate or Speech volume

(Home) > Settings > Universal access > Speech rate / Speech volume

When (Home) > Settings > Universal access > Voice guidance is switched on, select Speech rate or Speech volume to set the speed or volume at which the text is spoken.

Text magnification

(Home) > Settings > Universal access > Text magnification

Turn on to magnify texts on the screen.

11.2. More Access Settings

Keyboard and mouse settings

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

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

(Home) > Settings > General settings > Mouse settings

Adjust the motion speed of the USB mouse.

Wired and wireless headphones settings

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

To play the TV sound on Bluetooth® wireless headphones, you must pair the device with the TV.

To pair a Bluetooth® device with the TV:

1 - Switch on the Bluetooth® device and place it within range of the TV.
2 - Select (Home) > Settings > Wireless &

Networks and press > (right) to enter the menu.
3 - Select Bluetooth > Search Bluetooth Device, and press OK.
4 - 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.
5 - Select the type of device and press OK.
6 - Press < (left) repeatedly if necessary, to close the menu.

You can select where you want to hear the TV sound and how you want to control it.
• If you select TV Speakers, the TV speakers are always on. All the sound related settings are applicable to this mode.
• If you select Wired headphones, the sound will be played through headphones.
• If you select TV Speakers + Wired headphones, the sound will be played through TV speakers and headphones.

Subtitles settings

To switch on Subtitles, press OPTIONS and select Subtitles.

You can switch subtitles Subtitles on or Subtitles off. Alternatively you can select 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.

You can select your preferred subtitle languages in 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.

12. Game Bar

The Game bar is an integrated centre for information display and setting control while playing game. It provides a quick way to change picture, audio and Ambilight* settings. You can also create up to 10 separate game profiles for different type of games for own preference. It is applicable for HDMI source as long as the **Picture style** is set to **Game/HDR Game/Dolby Vision Game**.
Toggle to enable or disable from **HDMI** (ports) > **Options** > **Game bar**, or long press the **MENU** to enable/disable Gaming bar when game signal detected and game mode is enabled.

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

Activation and deactivation

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 Game bar is available, press **OK** to activate the Game bar. To deactivate the Game bar, you can press ← **Back** or it will be close automatically after 20 seconds without interaction.

Gaming information

Game bar will show the key information for the gaming.

Frame rate: current FPS (frame per second), displayed on top of screen.
Profile name: current applied profile of settings, displayed on top of Game bar.
HDMI information: current HDMI port, speed/mode and HDCP version, displayed under the profile name.
Video source information: displayed on bottom of Game bar.
- VRR type: current type of VRR
- Resolution: video source resolution
- Bit depth and pixel format: data information of current source
- SDR/HDR format: the supported HDR type or SDR of source
- ALLM: to show the HDMI ALLM is supported
- Motion setting: current setting of Motion

Game tools

The Game tools* contains frequently used tools that can improve your gaming experience. Move the cursor to Profile name bar and press **OK** to enable or disable the game tools. Move the cursor to Game tool icon and press **OK** can turn on the green light on icon and enable the tool. Press **OK** again will disable the tool. Move down to select ••• under the icon can enter the setting options for the Game tool.

Crosshair: enable/disable to show the dial point. You can adjust **Type**, **Size**, **Thickness** and **Colour** of the crosshair from setting options.
Shadow enhancer: disable to use current **Black level** in **Picture settings**; enable to overwrite the setting to higher black level. You can adjust the type in setting options to apply different levels of enhancer.
Colour filter: enable to adjust the colour on screen. You can select one of colour options and set to strengthen the colour by **Single colour** or exclude the colour by **Exclude colour**. While **Colour filter** is enabled, the same setting under **Picture** > **Colour** is not accessible since only one UI can take control each time.

* Depending on your TV model, some tools may not be available on your TV.

Game bar settings

Select the setting icon ⚙ on the left side of Game bar and press **OK** to change following settings:

Profile: the profile stores the settings of the Game bar. You can select a **Standard** profile or create your own profiles. The Game bar settings can be adjusted for different types of Games. When you are satisfied with current settings for specific game or game type, you can go to **Game bar setting** > **Profile** and select **Add profile** to store current settings and name the profile. Along with the **Standard** profile, there are up to eight customised profiles can be created. Once the customised profile is created, you can press left or right key to switch among the profiles from the **Profile name** bar.

FPS indicator: set to enable/disable and display position for the FPS information.
HDMI Ultra HD: quick link to adjust the HDMI Ultra HD setting.
Motion: quick link to adjust the Motion setting.
HDR tone mapping: quick link to adjust the HDR tone mapping setting.
All picture settings: quick link to adjust All picture settings.
Ambilight* style: quick link to adjust the Ambilight settings.
IntellSound: quick link to adjust the IntellSound setting.
Sound style: quick link to adjust the Sound style setting.
Profile restore: restore default settings for the current profile.

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

13. Smart TV and Apps

13.1. Setup Smart TV

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

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

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

13.2. Store of Apps

Open the **Apps** tab on Home screen to browse the Apps, the collection of tailored websites for TV.

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

Categories of Apps

You can sort the Apps in **Apps** by different categories like **New**, **Video**, **Entertainment**, **News** or **Lifestyle**.

Featured Apps

In this area, Philips presents a range of recommended Apps for you. You can select and install them to enrich your Smart TV life.

Internet

The Internet App opens the World Wide Web on your TV.
On your TV, you can view any Internet website but most of them are not tailored for a TV screen.
- Some plug-ins (e.g. to view pages or videos) are not available on your TV.
- Internet pages are shown one page at a time and full screen.

14. Netflix

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

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

www.netflix.com

15. Amazon Prime Video

With an Amazon prime membership, you gain access to thousands of popular movies and TV show, including exclusive Prime Originals.

Press the prime video key to open the Amazon Prime Video app. Your TV must be connected to the Internet to use the app. For more information about Amazon Prime Video, please visit www.primevideo.com.

16. YouTube

YouTube provides a platform to connect to the world. Watch and discover popular videos that uploaded by YouTube users around the world. Use the YouTube app to explore the latest topics on music, news, and more.

Press the app icon to open the YouTube app. Your TV must be connected to the Internet to use the app. For more information about YouTube, please visit www.youtube.com.

17. Alexa

17.1. 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 change channels, change volume and more.

To control your TV with Alexa, you will need:

- Philips Smart TV that supports Alexa
- Amazon account
- Alexa app* (mobile/tablet version)
- Wireless or wired network connection

Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates. Amazon Alexa is available in selected languages and countries.

Services availability depends on region. A part or whole of software/services installed into or accessible through the product may be changed, discontinued, removed, suspended, or terminated without notice.

17.2. Using Alexa

To use Alexa, you need to first setup the Alexa client service on your Philips Smart TV. Start the setup by launching the "Amazon Alexa" app from the Home screen of your TV. Follow the instructions and complete the following steps:
- Select an Amazon account and sign-in.
- On your mobile device, link account and discover your devices.
- Return to your TV to complete setup.

Setup on TV for Alexa
1 - Press **Home** and open "Amazon Alexa" app.
2 - You need Alexa app (on mobile device or web version) be ready to start the setup.
3 - Follow the instructions on screen to sign in your Amazon account and accept Privacy Policy terms.
4 - On your mobile device, sign in with the same Amazon account in the Amazon Alexa app.
5 - At the end of setup screen, you can select **Finished** to start to use Alexa.

17.3. Alexa Voice Commands

Here are some things to try:

"Alexa, what's the weather today?"
"Alexa, play a song"
"Alexa, read my audiobook"
"Alexa, show my to-do list"
"Alexa, set 5 minutes timer"
"Alexa, how big is Earth?"
"Alexa, what is the news?"
"Alexa, what did I miss?"

Things to try when "Philips Smart TV" skill is enabled***:

SUPPORTED COUNTRIES**
United Kingdom, Ireland, France, Germany, Austria, Italy, Spain, Portugal, Denmark, Netherlands, Norway, Sweden, Finland, Switzerland, Belgium, Luxembourg, Poland, Turkey.

SUPPORTED LANGUAGES
English (GB), English (US), French, German, Italian, Spanish.

SWITCH TV ON/OFF
"Alexa, turn on Living Room TV" (see note below)
"Alexa, turn off TV"

Note: Switching TV On will work only if the Alexa Switch on setting is enabled in the TV via the preferred settings in "Amazon Alexa" app from Home.

CHANGE CHANNEL
"Alexa, next channel on TV"
"Alexa, change channel to 5 on TV"

CHANGE VOLUME
"Alexa, set volume to 15 on Living Room TV"
"Alexa, turn down the volume"
"Alexa, volume up"

MUTE OR UNMUTE TV
"Alexa, mute Living Room TV"
"Alexa, unmute"

CHANGE INPUT SOURCE
"Alexa, switch input to Blu-ray on Living Room TV"
"Alexa, switch input to HDMI 1"

CONTROL PLAYBACK
"Alexa, play on TV"
"Alexa, pause TV"

LAUNCH APPLICATIONS OR SHORTCUTS**
"Alexa, launch Prime Video on Living Room TV"
"Alexa, go to Settings on Kitchen TV"
"Alexa, go Home on TV"

NAVIGATE MENUS**
"Alexa, go right"
"Alexa, move down"
"Alexa, select this"

SEARCH VIDEO CONTENT**
"Alexa, show me hot news on YouTube"
"Alexa, search for Mr. Bean"

Note:
** Supported voice commands may not be available for certain countries.
*** Skill is only available in supported countries and languages.

18. Google Assistant

Your TV can work with the Google Assistant. Google Assistant allows you to use your voice to control your TV – e.g. changing volume, channels and more.

Note: Google Assistant is not available in all languages and countries.

To enable Google Assistant on your TV, you will need:

- A Google Home device, like Google Home Mini
- Internet connection on TV
- Google account
- Google Home app (mobile/tablet version)

Setup TV Control with Google Assistant
1 - Follow the instructions on screen to accept the Privacy Policy for the usage of Google Assistant voice control feature on this TV.
2 - Choose a name for the TV so that Google Assistant can recognise it.
3 - Sign in Google account. If you already have a Google account, please sign in. If not, please create an account and sign in. After you have signed in successfully, select "Get Code" to get the device code of this TV for your device registration.
4 - On your mobile/tablet, search for "Google Home" app in app store (iOS and Android). Download and open the Google Home app. Sign in with the same Google account, which is used to register this TV. You need to continue the setup on Google Home app in mobile/tablet to control your TV with voice commands.
5 - On Google Home app, select “Set up device”, then select 'Works with Google' and search for Philips Smart TV. Sign in to link to your Google account and enable TV control on Google Home app.
6 - You can use Google Assistant to turn on your TV using voice command. For this, the TV needs to remain in a special power mode, which may result in slightly higher power consumption during standby.

You are ready to use your Google Home device to control this TV. Here are some things to try:
- Turn off TV
- Switch to channel 10 on TV
- Channel down on TV
- Mute TV

Note: If you logout from Google Assistant, you will no longer be able to use voice commands on this TV. You will need to redo the Setup TV control with Google Assistant to use the feature again.

Google Assistant is available in selected languages and countries with English-UK and German-DE being supported from the start. Supported language/countries list is going to be expanded overtime. For latest language and countries support list please contact our consumer care.

Services availability depends on region. A part or whole of software/services installed into or accessible through the product may be changed, discontinued, removed, suspended, or terminated without notice.

19. Software

19.1. Update Software

Search for Updates

Update from Internet

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

Look for a software update yourself.

• If the TV is connected to the Internet, you may receive a message to update the TV software. You need a high-speed (broadband) Internet connection. If you receive this message, we recommend you to carry out the update.
• During the software update, there is no picture and the TV will switch off and on again. This might happen several times. The update can take a few minutes.
• Wait until the TV picture comes back up. Do not press the power switch on the TV or on the remote control during the software update.

Update from USB

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

• You need a computer with a high-speed Internet connection and a USB memory device to upload the software on the TV.
• Use a USB memory device with 750MB free space. Make sure that write protection is switched off.
1 - Start the update on TV
Select Update software > Search for updates > USB, then press OK.
2 - Identify the TV
Insert the USB memory into one of the USB connections of the TV.
Select Start and press OK. An identification file is written on the USB memory device.
3 - Download the TV software
- Insert the USB memory into your computer.
- On the USB memory device, locate the file update.html and double click it.
- Click on Send ID.
- If new software is available, download the .zip file.
- After the download, unzip the file and copy the file autorun.upg onto the USB memory device.
- Do not place this file in a folder.
4 - Update the TV software
Insert the USB memory into the TV again. The update starts automatically.
The TV switches itself off for 10 seconds and then back on again. Please wait.

Do not . . .

• use the remote control
• remove the USB memory device from the TV
• press twice
• press the power switch on the TV
The TV switches itself off (for 10 seconds) and then back on again. Please wait.

The TV software has been updated. You can use the TV again.
To prevent an accidental update of the TV software, delete the autorun.upg file from the USB memory device.

Local Updates

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

For dealers and expert users.

19.2. Software Version

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

To view the current TV software version.

19.3. Automatic Software Update

(Home) > Settings > Update software > Automatic software update

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

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 is no alarm scheduled).
When the setting is disabled, the "Upgrade Now" / "Later" OSD will be shown.

19.4. View Software Update History

(Home) > Settings > Update software > View software update history

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

20. Environmental

20.1. European Energy Label

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

20.2. EPREL Registration Number

EPREL registration number

55MLED910 : 2271529
65MLED910 : 2285511
75MLED910 : 2357580
85MLED910 : 2349942

55MLED920 : 2271586
65MLED920 : 2285527
75MLED920 : 2357583

20.3. End of Use

Disposal of your old product and batteries

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

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

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

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

Your product contains batteries covered by the European Regulation (EU) 2023/1542, which cannot be disposed with normal household waste.

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

21. Specifications

21.1. 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 100-240V
• Ambient temperature : 5°C to 35°C

21.2. Reception

• Aerial input : 75 ohm coaxial (IEC75)
• Tuner bands : Hyperband, S-Channel, UHF, VHF
• DVB : DVB-T/T2, DVB-C (cable) QAM
• Analogue video playback : SECAM, PAL
• Digital video playback : MPEG2 SD/HD (ISO/IEC 13818-2), MPEG4 SD/HD (ISO/IEC 14496-10), HEVC*
• Digital audio playback (ISO/IEC 13818-3)
• Satellite aerial input : 75 ohm F-type
• Input frequency range : 950 to 2150MHz
• Input level range : 25 to 65 dBm
• DVB-S/S2 QPSK, symbol rate 2 to 45M symbols, SCPC and MCPC
• LNB : DiSEqC 1.0, 1 to 4 LNBs supported, Polarity selection 14/18V, Band selection 22kHz, Tone burst mode, LNB current 300mA max

* Only for DVB-T2, DVB-S2

21.3. Display Resolution

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

21.4. Supported 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, 144Hz
• 2560 x 1440p - 60Hz, 120Hz, 144Hz
• 3840 x 2160p - 24Hz, 25Hz, 30Hz, 50Hz, 60Hz, 100Hz, 120Hz, 144Hz

* Note: 100Hz is only supported when **HDMI Ultra HD** is set to **Optimal**; 120Hz is only supported when **HDMI Ultra HD** is set to **Optimal** or **Optimal (Auto Game 144Hz Pro)**; 144Hz is only supported when **HDMI Ultra HD** is set to **Optimal (Auto Game 144Hz Pro)**.

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 48-144Hz when **HDMI Ultra HD** is set to **Optimal (Auto Game 144Hz Pro)**

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

21.5. Sound

• Output power (RMS) : 55"/65"/75" - 40W; 85" - 50W
• IntelliSound
• Dolby MS12
• Dolby Atmos
• DTS Play-Fi
• DTS:X
• Surround Virtualiser
• Dolby Dialogue Enhancement
• Dolby Bass Enhancement
• Dolby Volume Leveler / Night mode
• Vocal Boost
• Equaliser
• AI Sound
• Room Calibration
• Hearing Profile

21.6. Multimedia

Connections
• USB 2.0 / USB 3.0
• Ethernet LAN RJ-45
• Wi-Fi 802.11ac, Dual Band
• Bluetooth® 5.2

Supported USB file systems
• FAT, NTFS

Playback formats
• Video Codec : AVI, MKV, HEVC, H.264/MPEG-4 AVC, MPEG1, MPEG2, MPEG4, VP9, HEVC (H.265), AV1
• Audio Codec : MP3, WAV, AAC, FLAC
• Subtitles :
- Format : SRT, SMI, SSA, SUB, ASS, TXT
- Character encodings : Western Europe, Turkish, Central Europe, Cyrillic, Greek, UTF-8 (Unicode), Hebrew, Arabic, Baltic
• Maximum Supported Data Rate :
– MPEG-4 AVC (H.264) is supported up to High Profile @ L5.1. 30Mbps
– H.265 (HEVC) is supported up to Main / Main 10 Profile up to Level 5.1 40Mbps
• Image Codec : JPEG, GIF, PNG, BMP, HEIF

Wi-Fi Certified

This TV is Wi-Fi Certified device.

21.7. Connectivity

TV Side
• Common Interface slot: CI+/CAM
• USB 2 - USB 3.0
• Headphones - Stereo mini-jack 3.5mm
• USB 1 - USB 2.0

TV Bottom
• Satellite tuner
• Antenna (75 ohm)
• HDMI 1 input - Ultra HD High Frame Rate - HDR
• HDMI 2 input - ARC/eARC - Ultra HD High Frame Rate - HDR
• HDMI 3 input - Ultra HD High Frame Rate - HDR
• HDMI 4 input - Ultra HD High Frame Rate - HDR
• Digital audio out - Optical Toslink
• Network LAN - RJ45

22. Troubleshooting

22.1. Tips

If you cannot find a solution for your TV problem in **Troubleshooting**, you can go to **Help** > **User manual** to find the most relevant page in the User manual.

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

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

Go to 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.

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

22.2. Switch On

The TV does not switch on

• Disconnect the power cable from the power outlet. Wait for one minute then reconnect it. Make sure that the power cable is securely connected. Try switching on again.
• Connect the TV to another wall mains socket and try switching on.
• Disconnect all connected devices from the TV and try switching on.
• If the standby light on TV is on, the TV might not respond to the remote control.

Creaking sound at startup or switch off

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

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

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

The standby light keeps on blinking

Disconnect the power cable from the power outlet. Wait 5 minutes before you reconnect the power cable. If the blinking reoccurs, check on **Help** > **Contact info** and contact Philips TV Consumer Care.

TV switches off by itself

If the TV switches off suddenly, the setting **Switch off timer** might be switched on. With **Switch off timer** the TV switches off after 4 hours if no remote control signals were received. To avoid this automatic switch off, you can deactivate this switch off. Also, if the TV does not receive a TV signal nor a remote control command for 10 minutes, the TV switches off automatically.

22.3. Remote Control

TV does not respond to the remote control

• The TV requires some time to start up. During this time, the TV does not respond to the remote control or TV controls. This is normal behaviour.
• The batteries of the remote control might be empty. Replace the batteries with new ones.

22.4. Channels

No digital channels found during the installation

• Check if the TV was connected with an antenna or is using a provider signal. Check the cable connections.
• Check if the country where you install the TV, has digital channels available.
• Check if you selected the correct DVB (Digital Video Broadcast) system. Select DVB-T (terrestrial) when you use an antenna or common antenna, select DVB-C (cable) if you use a TV cable service.
• Redo the installation and check if you select the correct country and system.

No analogue channels found during the installation

• Check if the TV was connected with an antenna. Check the cable connections.
• Check if you selected the correct DVB (Digital Video Broadcast) system. Select DVB-T (terrestrial) when you use an antenna or common antenna.
• Redo the installation and select **Digital and analogue channels** during the installation.

Some channels disappeared, cannot find all or some previously installed channels

• Check if you selected the correct **Channel list** or **Favourites list** you normally use.
• Some channels might be moved or even deleted by the broadcaster. In the normal channels list, try to search for the channel you're missing. If the channel is still available, you can put it back in the favourites list.
• A channel can be deleted from the channel list during **Automatic channel update**. These automatic updates are done overnight if the TV is on standby.
Channels that do not exist anymore are deleted and new channels will be added to the channel list. Exceptionally, a channel can be deleted because the TV could not find it while checking for its presence. It might not broadcast at night.
To avoid channels being deleted during the **Automatic channel update** because the TV could not find them although these channels are still there, you can switch off **Automatic channel update**.
(Home) > Settings > Channels > Antenna/Cable installation, Satellite installation* > Automatic channel update

* Satellite installation is only for models which support satellite functions.

DVB-T2 HEVC channel

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

22.5. Satellite

The TV cannot find the satellites I want or the TV installs the same satellite twice

Check if the correct number of satellites is set in settings at the start of the installation. You can set the TV to search for One, Two or 3/4 satellites.

A dual head LNB cannot find a second satellite

• If the TV finds one satellite but cannot find a second one, turn the dish a few degrees. Align the dish to get the strongest signal on the first satellite. Check the signal strength indicator of the first satellite on-screen.
• Check if the settings are set to two satellites.

Changing the installation settings did not solve my problem

All settings, satellites and channels are only stored at the end of the installation when you finish.

All satellite channels are gone

If you use an Unicable system, It might be that another satellite receiver in your Unicable system is using the same user band number.

Some satellite channels seem to have disappeared from the channel list

If some channels seem to be gone or displaced, the broadcaster might have changed the transponder location of these channels. To restore the channel positions in the channel list, you can try an update of the channel package.

I cannot remove a satellite

Subscription packages do not allow removing a satellite. To remove the satellite, you have to do a complete installation again and select another package.

Sometimes the reception is poor

• Check if the satellite dish is solidly mounted. Strong winds can move the dish.
• Snow and rain can degrade the reception.

22.6. Picture

No picture / distorted picture

• Check if the TV is connected with an antenna or is using a provider signal. Check the cable connections.
• Check if the correct source/input is selected in the sources menu. Press **Sources** and select the source/input you need.
• Check if the external device or source is properly connected.
• Check if the reception is poor.
• Check if the picture is set to a minimal value. Select **Picture style** and select a style and press **OK**.
• To check if the TV is broken, try to play a video clip. Press **Quick Menu > Help > TV diagnose > Check the TV**. If the video clip stays black, call Philips. Wait until the clip ends and select **Contact info** in the Help menu. Call the telephone number for your country.

Sound but no picture

• Change to other video sources and then change back to current source.
• Select **Picture style** and select a style and press **OK**.

• Restore picture style, select back to **Picture style**, then select **Restore picture style**.
• Reset all TV settings, go to **(Home) > Settings > General settings > Reinstall TV**.
• Check the connections of the source/input devices.

Poor reception

If the TV picture is distorted or variable in quality, the

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

• Check if the antenna cable is properly connected.
• Large loudspeakers, unearthed audio devices, neon lights, high buildings and other large objects can influence reception quality when you are using an antenna. Try to improve the reception by changing the antenna direction or moving devices away from the TV. Bad weather might deteriorate the reception.
• Check if all connections, to and from your devices, are properly connected.
• If reception on only one channel is poor, fine-tune this channel with **Analogue: manual installation**. (Only for analogue channels)

• Check if the incoming digital signal is sufficiently strong. While watching a digital channel, press **OPTIONS** and select **Status** and press **OK**. Check the **Signal strength** and **Signal quality**.

Poor picture from a device

• Make sure that the device is connected properly. Make sure that the device's output video setting is the highest possible resolution if applicable.
• Restore picture style or change to another picture style.

Picture settings change after a while

Make sure that **Location** is set to **Home**. You can change and save settings in this mode.
(Home) > **Settings** > **General settings** > **Location**

A banner appears

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

Picture does not fit the screen / Wrong or unstable picture size / Picture position is incorrect

• If the picture size - its aspect ratio - does not fit the screen, with black bars on the top and bottom or left and right side of the screen, press **(Home)** > **Settings** > **Picture** > **Picture Format** > **Fill screen**.
• If the picture size changes all the time, press **(Home)** > **Settings** > **Picture** > **Picture Format** > **Fit to screen**.
• If the position of the picture is incorrect on the screen, try to check the signal resolution and output type of the connected device, press **(Home)** > **Settings** > **Picture** > **Picture Format** > **Original**.

Computer picture is not stable

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

22.7. Sound

No sound or poor sound quality

• Check if the sound settings of the TV are OK, press the volume or mute key.
• If you use a digital receiver (set-top box), check if the volume on this receiver is not set to zero or mute.
• Check if the TV - the audio signal - is properly connected with the Home Theatre System, if you use such a system for the TV sound. Check if you connected the HDMI cable to an **HDMI ARC/eARC** connection on the Home Theatre System.
• Make sure that the TV audio output is connected to the audio input on the Home Theatre System.
Sound should be heard from the HTS (Home Theatre System) speakers.

Sound with loud noise

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

22.8. HDMI - UHD

HDMI

• Note that HDCP (High-bandwidth Digital Content Protection) support can delay the time taken for a TV to display content from an HDMI device.
• If the TV does not recognise the HDMI device and no picture is displayed, switch the source from one device to another and back again.
• This is an Ultra HD TV. Some older devices - connected with HDMI - do not recognise an Ultra HD TV electronically and might not work correctly or show distorted picture or sound. To avoid the malfunctioning of such a device, you can set the signal quality to a level the device can handle. If the device is not using Ultra HD signals, you can switch off Ultra HD for this HDMI connection.
If the picture and sound of a device connected with HDMI is distorted, check if a different **HDMI Ultra HD** setting can solve this problem. You can check on **Help** > **User manual** > **General Settings** > **HDMI Ultra HD**.
• If there are intermittent sound disruptions, make sure that output settings from the HDMI device are correct.

HDMI EasyLink does not work

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

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.

22.9. USB

Photos, videos and music from a USB device do not show
• Check if the USB storage device is set to Mass Storage Class compliant, as described in the storage device's documentation.
• Check if the USB storage device is compatible with the TV.
• Check if the audio and picture file formats are supported by the TV. For more information, check on **Help** > **User manual** > **Specifications** > **Multimedia**.

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

22.10. Wi-Fi and Internet

Wi-Fi network not found or distorted
• Check if the firewalls in your network allow access to the TV's wireless connection.
• If the wireless network does not work properly in your home, try the wired network installation.

Internet does not work
• If the connection to the router is OK, check the router connection to the Internet.

The PC and Internet connection are slow
• Look in your wireless router's user manual for information on indoor range, transfer rate and other factors of signal quality.
• Use a high-speed (broadband) Internet connection for your router.

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

22.11. Wrong Menu Language

Change the language back to your language
1 - Press **Home** and select **Settings** via the icon at the top right corner.
2 - Press 9 times (down) and press **OK**.
3 - Press **OK** again to enter **Language**, select the first item **Menu language** and press **OK**.
4 - Select your language and press **OK**.

23. Safety and Care

23.1. 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 or the remote control to rain or water. Never place liquid containers, such as vases, near the TV or the remote control.
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

This product is designed and intended for consumers and personal use in a domestic home environment, unless agreed otherwise with the manufacturer in writing. Failure to follow this recommendation or the instructions provided in the product user manual and the product supportive documentation can cause damage to the product and will void the warranty for such cases.

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

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

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

Risk of Batteries

• Do not ingest the battery. Chemical burn hazard.
• The remote control may 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 20 cm or 8 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.

23.2. Screen Care

Clean

• Never touch, push, rub or strike the screen with any object.
• Unplug the TV before cleaning.
• Clean the TV and frame with a soft damp cloth and wipe gently. Never use substances such as alcohol, chemicals or household cleaners on the TV.
• To avoid deformations and colour fading, wipe off water drops as quickly as possible.
• Avoid stationary images as much as possible. Stationary images are images that remain onscreen for extended periods of time. Stationary images include onscreen menus, black bars, time displays, etc. If you must use stationary images, reduce screen contrast and brightness to avoid screen damage.

24. Terms of Use

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

Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips N.V or their respective owners. TP Vision reserves the right to change products at any time without being obliged to adjust earlier supplies accordingly.

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.

CE compliance
Hereby, TP Vision Europe B.V. declares that this television is in compliance with the essential requirements and other relevant provisions of Directives 2014/53/EU (RED), 2011/65/EU (RoHS), and ESPR Regulation (EU) 2024/1781 (Regulation (EU) 2019/2021).

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

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

TP Vision is committed to developing, producing and marketing products that cause no adverse health effects. TP Vision confirms that, as long as its products are handled properly for their intended use, they are safe to use according to scientific evidence available today. TP Vision plays an active role in the development of international EMF and safety standards, enabling TP Vision to anticipate further developments in standardisation for early integration in its products.

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Future proof with advanced HEVC decoding.

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To obtain the source code, please write in English to . . .

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Open Source

apr (1.7.0)
The Apache Portable Runtime Library provides a predictable and
consistent interface to underlying platform-specific implementations, with an API to which software developers may code
and be assured of predictable if not identical behavior regardless
of the platform on which their software is built, relieving them of
the need to code special-case conditions to work around or take
advantage of platform-specific deficiencies or features.
Source: https://github.com/apache/apr

bind (9.11.36)
BIND (Berkeley Internet Name Domain) is a complete, highly portable implementation of the Domain Name System (DNS) protocol.
Source: https://github.com/isc-projects/bind9

busybox (1.31.1)
BusyBox combines tiny versions of many common UNIX utilities into a single small executable. It provides replacements for most of the utilities you usually find in GNU fileutils, shellutils, etc. The utilities in BusyBox generally have fewer options than their full-featured GNU cousins; however, the options that are included provide the expected functionality and behave very much like their GNU counterparts. BusyBox provides a fairly complete environment for any small or embedded system.
Source: https://www.busybox.net/downloads/

binutils (2.31.510)
The GNU Binutils are a collection of binary tools. The main ones are:
ld - the GNU linker.
as - the GNU assembler.
Source: https://www.gnu.org/software/binutils/

bzip2 (1.0.6)
bzip2 is a free and open-source file compression program that uses the Burrows–Wheeler algorithm. It only compresses single files and is not a file archiver. It was developed by Julian Seward, and maintained by Mark Wielaard and Micah Snyder.
Source: https://sourceware.org/bzip2/

c-ares (1.10.1)
c-ares is a C library for asynchronous DNS requests (including name resolves)
Source: https://c-ares.org/

cario (1.16.0)
Cairo is a 2D graphics library with support for multiple output devices. Currently supported output targets include the X Window System (via both Xlib and XCB), Quartz, Win32, image buffers, PostScript, PDF, and SVG file output. Experimental backends include OpenGL, BeOS, OS/2, and DirectFB.
source https://www.cairographics.org/

dbus (1.11.2)
D-Bus is a simple system for interprocess communication and coordination.
The "and coordination" part is important; D-Bus

provides a bus daemon that does things like:
- notify applications when other apps exit
- start services on demand
- support single-instance applications
Source: https://github.com/freedesktop/dbus

e2fsprogs (1.43.3)
e2fsprogs (sometimes called the e2fs programs) is a set of utilities for maintaining the ext2, ext3 and ext4 file systems. Since those file systems are often the default for Linux distributions, it is commonly considered to be essential software
Source: http://e2fsprogs.sourceforge.net/

expat (2.2.9)
xml parser; Expat is an XML parser library written in C. It is a stream-oriented parser in which an application registers handlers for things the parser might find in the XML document (like start tags). An introductory article on using.
This piece of software is made available under the terms and conditions of the Expat license, which can be found below.
Source: http://expat.sourceforge.net/

fuse (2.9.7)
JBoss Fuse is an open source ESB with capabilities based on Apache Camel, Apache CXF, Apache ActiveMQ, Apache Karaf and Fabric8 in a single integrated distribution.
Source https://github.com/jboss-fuse/fuse

gdb (8.2.1)
GDB, the GNU Project debugger, allows you to see what is going on `inside' another program while it executes -- or what another program was doing at the moment it crashed.
Source: https://www.sourceware.org/gdb/

glibc (2.30.0)
Any Unix-like operating system needs a C library: the library which defines the “system calls” and other basic facilities such as open, malloc, printf, exit...The GNU C library is used as the C library in the GNU system and most systems with the Linux kernel
This piece of software is made available under the terms and conditions of the glibc license, which can be found below.
Source: http://www.gnu.org/software/libc/

gstreamer (1.18.3)
The GStreamer team is excited to announce a new major feature release of your favourite cross-platform multimedia framework!
Source: https://gstreamer.freedesktop.org/

libasound (1.1.8)
The Advanced Linux Sound Architecture (ALSA) provides audio and MIDI functionality to the Linux operating system. ALSA has the following significant features:
Efficient support for all types of audio interfaces, from consumer sound cards to professional multichannel audio interfaces.
Fully modularized sound drivers.
SMP and thread-safe design (PLEASE READ THIS).
User space library (alsa-lib) to simplify application programming and provide higher level functionality.
Support for the older Open Sound System (OSS) API, providing binary compatibility for most OSS programs.
Source: https://www.alsa-project.org/wiki/Main_Page

Libcurl (7.79.1)
HTTP client;libcurl is a free and easy-to-use client-side URL transfer library, supporting FTP, FTPS, HTTP, HTTPS, SCP, SFTP, TFTP, TELNET, DICT, LDAP, LDAPS, FILE, IMAP, SMTP, POP3 and RTSP. libcurl supports SSL certificates, HTTP POST, HTTP PUT, FTP uploading, HTTP form based upload, proxies, cookies, user+password authentication (Basic, Digest, NTLM, Negotiate, Kerberos4), file transfer resume, http proxy tunneling and more!
This piece of software is made available under the terms and conditions of the Libcurl license, which can be found below.
Source: http://curl.haxx.se/

libevent (1.4.13)
The libevent API provides a mechanism to execute a callback function when a specific event occurs on a file descriptor or after a timeout has been reached. Furthermore, libevent also support callbacks due to signals or regular timeouts.
source: https://libevent.org/

libjpeg-turbo (2.1.1)
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, AVX2, Neon, AltiVec) to accelerate baseline JPEG compression and decompression on x86, x86-64, Arm, and PowerPC systems, as well as progressive JPEG compression on x86 and x86-64 systems. On such systems, libjpeg-turbo is generally 2-6x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.
Source: https://libjpeg-turbo.org/

libjpg (6b)
This library is used to perform JPEG decoding tasks.
This piece of software is made available under the terms and conditions of the libjpg license, which can be found below.
Source: http://www.ijg.org/

libpng (1.0.1)
libpng -THE reference library for reading, displaying, writing and examining png Image Network Graphics.
This piece of software is made available under the

terms and conditions of the libpng license, which can be found below.
Source: http://sourceforge.net/projects/libpng/files/

libffi (3.2.1)
Compilers for high level languages generate code that follows certain conventions. These conventions are necessary, in part, for separate compilation to work. One such convention is the "calling convention". The "calling convention" is a set of assumptions made by the compiler about where function arguments will be found on entry to a function. A "calling convention" also specifies where the return value for a function is found.
Source: https://sourceware.org/libffi/

libjansson (2.13.1)
Jansson is a C library for encoding, decoding and manipulating JSON data. Its main features and design principles are:
Simple and intuitive API and data model
Comprehensive documentation
No dependencies on other libraries
Full Unicode support (UTF-8)
Extensive test suite
Source: https://github.com/akheron/jansson

libmicrohttpd (0.9.73)
GNU libmicrohttpd is a small C library that is supposed to make it easy to run an HTTP server as part of another application. GNU Libmicrohttpd is free software and part of the GNU project
Source:https://www.gnu.org/software/libmicrohttpd/

libupnp (1.6.10)
The portable SDK for UPnP™ Devices (libupnp) provides developers with an API and open source code for building control points, devices, and bridges that are compliant with Version 1.0 of the Universal Plug and Play Device Architecture Specification and support several operating systems like Linux, *BSD, Solaris and others.
Source: https://pupnp.sourceforge.io/

libuuid (1.3.0)
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License. The complete text of the license is available at the Documentation/licenses/COPYING.BSD-3 file
Source:https://sourceforge.net/projects/libuuid/

Libxml2 (2.9.12)
The "libxml2" library is used in AstroTV as a support for the execution of NCL application. This library was developed for the GNOME software suite and is available under a "MIT" license.
Source: http://www.xmlsoft.org

linux_kernel (4.19)
The Linux kernel is a mostly free and open-source,[11] monolithic, modular, multitasking, Unix-like operating system kernel. It was originally authored in 1991 by Linus Torvalds for his i386-based PC, and it was soon adopted as the kernel for the GNU operating system, which was written to be a free (libre) replacement for UNIX.
Source: https://www.kernel.org/

mbed TLS (2.26.0)
Mbed TLS is a C library that implements cryptographic primitives, X.509 certificate manipulation and the SSL/TLS and DTLS protocols. Its small code footprint makes it suitable for embedded systems.
Source: https://github.com/ARMmbed/mbedtls

ncurses (6.1)
The ncurses (new curses) library is a free software emulation of curses in System V Release 4.0 (SVr4), and more. It uses terminfo format, supports pads and color and multiple highlights and forms characters and function-key mapping, and has all the other SVr4-curses enhancements over BSD curses. SVr4 curses is better known today as X/Open Curses.
Source: http://www.gnu.org/software/ncurses/

nghttp2 (1.6.3)
nghttp2 is an implementation of HTTP/2 and its header compression algorithm HPACK in C
Source: https://nghttp2.org/

NTFS-3G (7.8)
NTFS-3G is an open source cross-platform implementation of the Microsoft Windows NTFS file system with read-write support. NTFS-3G often uses the FUSE file system interface, so it can run unmodified on many different operating systems. It is runnable on Linux, FreeBSD, NetBSD, OpenSolaris, BeOS, QNX, WinCE, Nucleus, VxWorks, Haiku,MorphOS, and Mac OS X It is licensed under either the GNU General Public License or a proprietary license. It is a partial fork of ntfsprogs and is under active maintenance and development.
This piece of software is made available under the terms and conditions of the NTFS-3G Read/Write Driver license, which can be found below.
Source: http://www.tuxera.com

openssl (1.1.1l)
OpenSSL is an open source implementation of the SSL and TLS protocols. The core library (written in the C programming language) implements the basic cryptographic functions and provides various utility functions. Wrappers allowing the use of the OpenSSL library in a variety of computer languages are available.
Source: http://www.openssl.org/

pcre (8.45)
The PCRE library is a set of functions that implement regular expression pattern matching using the same

syntax and semantics as Perl 5. PCRE has its own native API, as well as a set of wrapper functions that correspond to the POSIX regular expression API. The PCRE library is free, even for building proprietary software.
https://www.pcre.org/

procps (ps, top) (3.3.15)
procps is the package that has a bunch of small useful utilities that give information about processes using the /proc filesystem.
The package includes the programs ps, top, vmstat, w, kill, free, slabtop, and skill.
Source: http://procps.sourceforge.net/index.html

SQLite3 (3.36.0)
SQLite is an in-process library that implements a self-contained, serverless, zero-configuration, transactional SQL database engine.
This piece of software is made available under the terms and conditions of the SQLite3 license, which can be found below.
Source: http://www.sqlite.org/

util-linux-ng (2.35.2)
Various system utilities.
Source: http://userweb.kernel.org/~kzak/util-linux-ng/

wpa_supplicant (2.9)
wpa_supplicant is a WPA Supplicant for Linux, BSD, Mac OS X, and Windows with support for WPA and WPA2 (IEEE 802.11i / RSN). It is suitable for both desktop/laptop computers and embedded systems. Supplicant is the IEEE 802.1X/WPA component that is used in the client stations. It implements key negotiation with a WPA Authenticator and it controls the roaming and IEEE 802.11 authentication/association of the wlan driver.
Source: https://w1.fi/wpa_supplicant/

zlib (1.2.8)
The 'zlib' compression library provides in-memory compression and decompression functions, including integrity checks of the uncompressed data.
This piece of software is made available under the terms and conditions of the zlib license, which can be found below.
Source: http://www.zlib.net/

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