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8513 series

User Manual

55PUG8513
65PUG8513

PHILIPS

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Setting Up

Read Safety

Read the safety instructions first before you use the TV.

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

TV Stand and Wall Mounting

TV Stand

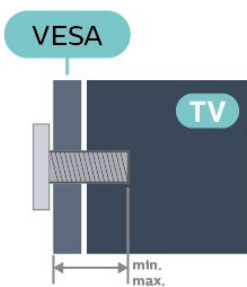
You can find the instructions for mounting the TV stand in the Quick Start Guide that came with the TV. In case you lost this guide, you can download it from www.philips.com.

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

Wall Mounting

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

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



- 55PUG8513
VESA MIS-F 300x200, M6 (min.: 15mm, max.:16mm)
- 65PUG8513
VESA MIS-F 400x300, M6 (min.: 15mm, max.:17mm)

Preparation

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

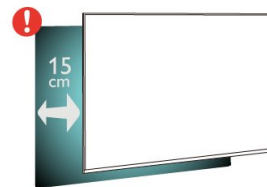
Caution

Wall mounting the TV requires special skills and should only be performed by qualified personnel. The

TV wall mounting should meet safety standards according to the TV's weight. Also read the safety precautions before positioning the TV. TP Vision Europe B.V. bears no responsibility for improper mounting or any mounting that results in accident or injury.

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 3 times its diagonal screen size. When seated, your eyes should be level with the centre of the screen.
- When wall mounted, position the TV up to 15 cm away from the wall.

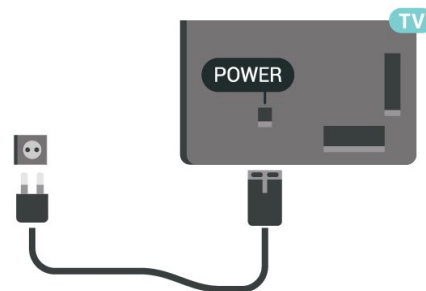


Note:

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

Power Cable

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



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

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

1.5

Antenna Cable

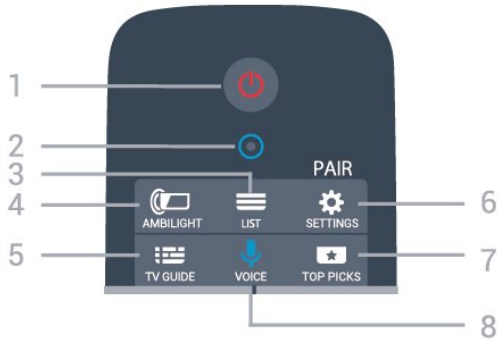
Insert the antenna plug firmly into the **Antenna** socket at the back of the TV.

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

Remote Control

Key overview

Top



1 - Standby / On

To switch the TV on or back to Standby.

2 - VOICE microphone

3 - LIST

To open or close the channel list.

4 - AMBILIGHT

To select one of the Ambilight style.

5 - TV GUIDE

To open or close the TV Guide.

6 - SETTINGS

- To open the quick settings menu.
- To pair the remote control to the TV.

7 - TOP PICKS

To open the menu with recommended programmes, Video on Demand (Rental Videos) or Online TV (Catch Up TV).
If available.

8 - VOICE

To start speaking your voice search.

Middle



1 - TV Menu

To open the TV Menu with typical TV functions.

2 - SOURCES

To open or close the Sources menu.

3 - INFO

To open or close programme info.

4 - BACK

- To switch back to the previous channel you selected.
- To return to previous menu.

5 - Colour keys

Direct selection of options.

6 - TV EXIT

To switch back to watching TV.

7 - OPTIONS

To open or close the options menu.

8 - OK key

To confirm a selection or setting.

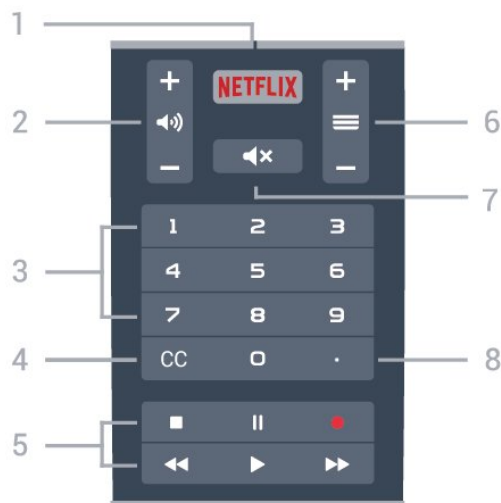
9 - Arrow / navigation keys

To navigate up, down, left or right.

10 - HOME

To open the Home menu.

Bottom



1 - NETFLIX

To open the Netflix App directly.

2 - Volume

To adjust the volume level.

3 - Number keys

To select a channel directly.

4 - CC

To switch cc on, off or to show automatically.

5 - Playback and Record

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

6 - Channel

To switch to the next or previous channel in the channel list.

To open the next or previous page in Text/Teletext.

7 - Mute

To mute the sound or to restore it.

8 - (Dot)

To enter digital sub-channels.

2.2

Pair Your Remote Control to TV

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

- You can use this remote control via IR (infrared) for most operations.
- To use advanced operation like voice search and

remote control keyboard, 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 blue LED indicator ring around the microphone on the front side of the remote control starts blinking.

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

3 - If the TV does not launch the voice search field when press **VOICE**, 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 **PAIR** key (approximate for 3 seconds) for pairing.

Alternatively, go (TV menu) > Settings > Wireless and network > Remote control > Pair remote control, then follow the on-screen instructions.

A message appears when the pairing is successful.

Remote Control Software

(TV menu) > Settings > Wireless and network > Remote control > Current software info

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

(TV menu) > Settings > Wireless and network > Remote control > Update remote control software

Check available remote control software for updates.

2.3

Voice search

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

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

To use Voice...



1 - Press and hold **VOICE** on remote control, the

blue light on the remote control lights up and the search field opens, the microphone is active.

2 - Speak out what you are looking for with clear pronunciation. You can speak for 10 seconds before the microphone switches off. It might take some time for the results to appear.

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

Set the language you like to use with voice interaction

 (TV menu) >  Settings > Android settings > Preferences > Speech

2.4

IR Sensor

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

Warning

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

2.5

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 keyboard side of the remote control.

1 - Use a small coin or other small, blunt object and press the rectangular shaped release button to open the battery lid.

2 - Replace the old batteries with 2 type **AA-LR6-1.5V** batteries. Make sure the + and the - ends of the batteries line up correctly.

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

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

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

2.6

Cleaning

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



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

Switching On and Off


On or standby

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

Switch on

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

Switch to standby

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



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

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





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

Keys on TV

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

To open the basic menu...

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

2 - Press left or right to select  Volume,  Channel or  Sources. Select  Demo, to start a demo movie.

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

4 - The menu will disappear automatically.

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



Channels

4.1

Watching channels

Tune to a Channel

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

Switch Channels

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

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

Previous channel

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

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

Lock a Channel

Lock and Unlock a Channel

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

To lock a channel...

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

To unlock a channel...

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

press **← BACK** to close the menu.

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

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

Age Rating

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

Digital channels can have their programmes age rated. When the age rating of a programme is equal to or higher than the age you have set as age rating for your child, the programme will be locked. To watch a locked programme, you must enter the **Child Lock** code first.

To set an age rating...

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

To switch off the parental age rating, select **Free**. However, in some countries you must set an age rating.

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

Content rating

To set a content rating that will lock rated programmes...

- 1 - Press **⚙️**, select **Child lock** and press **→** (right) to enter the menu.
- 2 - Select **Content rating lock**.
- 3 - Set the content and press **OK**. The selected content is blocked.
- 4 - Press **←** (left) repeatedly if necessary, to close the menu.

Channel Options

Open options

While watching a channel, you can set some options.

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

To open the options menu...

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

Closed Caption

Switch **Closed caption on** or **off** with this options. Select **On during mute** to show closed captions only when the sound is muted with **⏏**.

Caption Service

Select the correct type of closed caption services.

Audio Language

For digital broadcast, you can select an available audio language temporarily if none of your preferred languages are available.

DTV Applications

Display the list of Digital TV interactive applications.

Mono / Stereo

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

To switch to Mono or Stereo...

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

4.2

Favourite Channels

About Favourite Channels

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

You can create 4 different lists of favourite channels for easy channel zapping. You can name each Favourites List individually. Only in a Favourites List you can reorder channels.

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

Create a Favourites List

To create a favourite channels list...

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

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

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

The TV will switch to the newly created Favourites List.

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

The channels in the Favourites List are renumbered.

Add a Range of Channels

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

To add a range of channels...

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

You can also start creating a **Favourites List** from **Select Range**.

Rename a Favourites List

You can only rename a **Favourites List**.

To rename a **Favourites List**...

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

Remove a Favourites List

You can only remove a **Favourites List**.

To remove a **Favourites List**...

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

4.3

Closed captioning (CC) and language

Closed Caption

You can display closed captions at all times or only when the TV is muted.

To open **Closed caption**, press **CC**.

Note:

- Not all TV programmes, commercials and features include closed captioning information. See your local TV programme listings about channels with closed captions. The captioned programmes are typically listed with service marks, such as 'CC', in the TV listings.

Switch on closed caption

- 1 - While you watch TV, press **+ OPTIONS**.
- 2 - Select **Closed caption > Closed caption on** and press **OK**.

Select type of closed caption

- 1 - While you watch TV, press **+ OPTIONS**.
- 2 - Select **Caption service**.
- 3 - Select the correct type of closed captions and press **OK**.

Audio Language

If the TV channel broadcasts multiple or dual audio languages, you can select your preferred audio language.

- 1 - While you watch TV, press **+ OPTIONS**.
- 2 - For digital channels, select **Audio Language**. For analogue channels, select **Alternate Audio**. Press **OK** to confirm your selection.
- 3 - Select from the available languages, then press **OK**.

Note:

If you have selected **Alternate Audio** for analogue channels, select between:

- **Main:** Primary audio language or
- **SAP:** Secondary audio language

Menu Language

Change the language of the TV menus and messages

- 1 - Press **⏏**, select **Settings > Region and language > Menu language** and press **OK**.
- 2 - Select on the language you need and press **OK**.
- 3 - Press **← BACK** to close the menu.

Channel Installation


5.1

Antenna/Cable Installation

Manual channel update

You can always start an channel update yourself.

To start a channel update manually...

- 1 - Press , select **Antenna/cable installation** and press **OK**.
- 2 - Enter your PIN code if necessary.
- 3 - Select **Antenna/cable connection** and press **OK**.
- 4 - Select **Antenna** or **Cable** and press **OK**.
- 5 - Press **← BACK** to close the menu.

5.2

Service navigation

Service navigation

 (TV menu) > **Channels** > **Service navigation**.

Switch the availability to navigate through primary channels only or all channels, on or off.

5.3

Channel List Copy

Introduction

Channel List Copy is intended for dealers and expert users.


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

Conditions

- Both TVs are from the same year range.
- Both TVs have the same hardware type. Check the hardware type on the TV type plate on the back of the TV.
- Both TVs have compatible software versions.

Current channel version


To check the current version of the channel list...

- 1 - Press , select **All Settings** and press **OK**.
- 2 - Select **Channels**, select **Channel List Copy**, select **Current Version** and press **OK**.

- 3 - Press **OK** to close.


Current software version

To check the current version of the TV software...

- 1 - Press , select **All Settings** and press **OK**.
- 2 - Select **Update Software** and press **→** (right) to enter the menu.
- 3 - Select **Current Software Info** and press **OK**.
- 4 - The version, release notes and creation date are shown. Also, the Netflix ESN Number is shown if available.
- 5 - Press **←** (left) repeatedly if necessary, to close the menu.

Copy a Channel List


To copy a channel list...

- 1 - Switch on the TV. This TV should have channels installed.
- 2 - Plug in a USB flash drive.
- 3 - Press , select **All Settings** and press **OK**.
- 4 - Select **Channels** > **Channel List Copy** and press **OK**.
- 5 - Select **Copy to USB** and press **OK**. You might be asked to enter the Child Lock PIN code to copy the channel list.
- 6 - When copying is done, unplug the USB flash drive.
- 7 - Press **←** (left) repeatedly if necessary, to close the menu.

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

Channel List Version

Check the current version of the channel list...

- 1 - Press , select **All Settings** and press **OK**.
- 2 - Select **Channels** and press **→** (right) to enter the menu.
- 3 - Select **Channel List Copy** and select **Current Version**, then press **OK**.
- 4 - Press **←** (left) repeatedly if necessary, to close the menu.

Upload a Channel List

To not Installed TVs


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

To a TV that is not yet installed

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

channel search. Finish the installation.

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

3 - To start the channel list upload, press , select **All Settings** and press **OK**.

4 - Select **Channels > Channel List Copy > Copy to TV** and press **OK**. Enter your PIN code if necessary.

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

To Installed TVs

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

To an already installed TV

1 - Verify the country setting of the TV. (To verify this setting, see chapter Reinstall All Channels. Start this procedure until you reach the country setting.

Press  **BACK** to cancel the installation.)

If the country is correct continue with step 2.

If the country is not correct, you need to start a reinstallation. See chapter Reinstall All Channels and start the installation. Select the correct country and skip the channels search. Finish the installation. When done, continue with step 2.

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

3 - To start the channel list upload, press , select **All Settings** and press **OK**.

4 - Select **Channels > Channel List Copy > Copy to TV** and press **OK**. Enter your PIN code if necessary.

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

Connect Devices

About Connections

Connectivity Guide

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

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

Antenna port

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

HDMI ports

HDMI Quality

An HDMI connection has the best picture and sound quality. One HDMI cable combines video and audio signals. Use an HDMI cable for TV signal.

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

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

Copy protection

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

HDMI ARC

All of the HDMI connections 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.

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

HDMI MHL

With **HDMI MHL**, you can send what you see on your Android smartphone or tablet to a TV screen.

The **HDMI 1** connection on this TV incorporates **MHL 2.0** (Mobile High-Definition Link).

This wired connection offers great stability and bandwidth, low latency, no wireless interference and good quality sound reproduction. On top of that, the MHL connection will charge the battery of your smartphone or tablet. Although connected, your mobile device will not be charging when the TV is on standby.

Inform yourself about what passive MHL cable is suited for your mobile device. In particular, with the HDMI connector for the TV on one side, the type of connector you need to connect to your smartphone or tablet.

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





HDMI CEC - EasyLink

An HDMI connection has the best picture and sound quality. One HDMI cable combines video and audio signals. Use an HDMI cable for High Definition (HD) TV signals. For best signal quality transfer, use a High speed HDMI cable and do not use an HDMI cable longer than 5 m.



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

 (TV menu) >  Settings > General settings > EasyLink > EasyLink > On.

Operate HDMI CEC-compatible devices with TV remote control

 (TV menu) >  Settings > General settings > EasyLink > EasyLink remote control > On.

Note:

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

6.2

Home Theatre System – HTS

Connect with HDMI ARC

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

HDMI ARC

If your Home Theatre System has an HDMI ARC connection, you can use any HDMI connection on the TV to connect. With HDMI ARC, you do not need to connect the extra audio cable. The HDMI ARC connection combines both signals.

All HDMI connections on the TV can offer the Audio Return Channel (ARC) signal. But once you have connected the Home Theatre System, the TV can only send the ARC signal to this HDMI connection.

Audio to video synchronisation (sync)

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

Connect with HDMI

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

If the Home Theatre System has no HDMI ARC connection, add an optical audio cable (Toslink) to

send the sound of the TV picture to the Home Theatre System.


Audio to video synchronisation (sync)

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

Problems with HTS sound

Sound with loud noise

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

Press  for **All Settings > Sound > Advanced > Digital Out Format** .

No sound

If you cannot hear the sound from the TV on your Home Theatre System, check if you connected the HDMI cable to an **HDMI ARC** connection on the Home Theatre System. All HDMI connections on the TV are HDMI ARC connections.

6.3

Smartphones and Tablets

To connect a smartphone or tablet to the TV, you can use a wireless or wired connection.

Wireless

For a wireless connection, on your smartphone or tablet download the Philips TV Remote App from your favourite app store.

Wired

For a wired connection, use the HDMI 1 MHL connection on the back of the TV.

6.4

Blu-ray Disc Player

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

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

In **Help**, press the colour key  **Keywords** and

look up **EasyLink HDMI CEC** for more information.

6.5

DVD Player

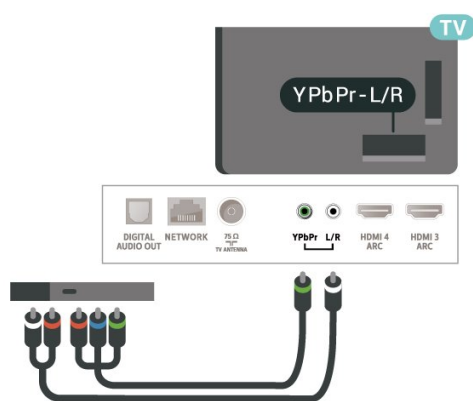
Use an HDMI cable to connect the DVD player to the TV.

If the DVD player is connected with HDMI and has EasyLink CEC, you can operate the player with the TV remote control.

For more information on EasyLink, in **Help**, press the colour key **Red** **Keywords** and look up **EasyLink HDMI CEC**.

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

The YPbPr connection can be used for High Definition (HD) TV signals.



6.6

Bluetooth

Pairing a Device

Read the user manual of the device for specific information on pairing and on wireless range. Make sure the Bluetooth setting on TV is switched on.

Once a wireless gamepad is paired, you can use it. When a device is paired, you do not need to pair it again unless you remove the device.

To pair a bluetooth device with the TV...

- 1 - Switch on the bluetooth device and place it within range of the TV.
- 2 - Press **Settings**, select **All Settings** and press **OK**.
- 3 - Select **Wireless and Networks** and press **Right** to enter the menu.
- 4 - Select **Bluetooth > Search Bluetooth Device**,

and press **OK**.

5 - Select **Start** 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.

6 - Select the type of device and press **OK**.

7 - Press **Left** repeatedly if necessary, to close the menu.

* Your TV doesn't support Bluetooth subwoofer/speakers/headphones.

** HDMI connection is required for sound bar, speaker and other audio device.

Select a Device

To select a wireless device...

- 1 - Press **Settings**, select **All Settings** and press **OK**.
- 2 - Select **Wireless and Networks** and press **OK**.
- 3 - Select **Bluetooth > Search for a device** and press **OK**.
- 4 - In the list, select the wireless device and press **OK**.
- 5 - 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 - Press **Settings**, select **All Settings** and press **OK**.
- 2 - Select **Wireless and Networks** and press **OK**.
- 3 - Select **Bluetooth > Remove Bluetooth device** and press **OK**.
- 4 - In the list, select the wireless device and press **OK**.
- 5 - Select **Disconnect or Remove** and press **OK**.
- 6 - Select **OK** and press **OK** to confirm.
- 7 - Press **Left** repeatedly if necessary, to close the menu.

6.7

Headphones

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

To adjust the volume...

- 1 - Press , select Headphone Volume and press OK.
- 2 - Press the arrows  (up) or  (down) to adjust the value.
- 3 - Press  (left) repeatedly if necessary, to close the menu.

6.8

Game Console

HDMI

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

Y Pb Pr

Connect the game console with a component video cable (Y Pb Pr) and an audio L/R cable to the TV.

6.9

USB Hard Drive

What You Need

If you connect a USB Hard Drive, you can pause or record digital TV broadcasts (DVB broadcasts or similar).


Minimum Disk Space

- To Pause

To pause a broadcast, you need a USB 2.0 compatible Hard Drive with a minimum of 4GB disk space.

- To Record

To pause and record a broadcast, you need a minimum of 250GB disk space.

For more information on how to install a USB Hard Drive, in **Help**, press the colour key  **Keywords** and look up **USB Hard Drive, installation**.

Installation

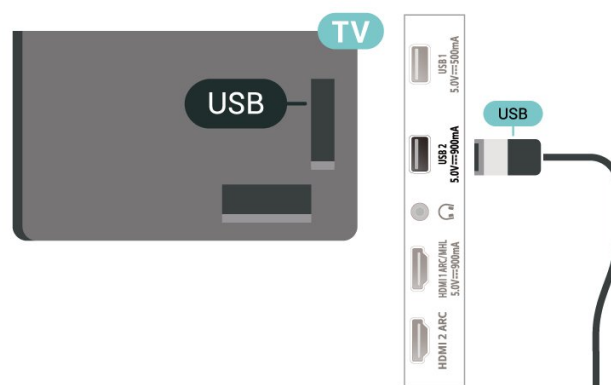
Before you can pause or record a broadcast, you must connect and format a USB Hard Drive. Formatting removes all files from the USB Hard Drive.

- 1 - Connect the USB Hard Drive to one of the **USB** connections on the TV. Do not connect another USB device to the other USB ports when formatting.
- 2 - Switch on the USB Hard Drive and the TV.
- 3 - When the TV is tuned to a digital TV channel,

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

Follow the instructions on screen.

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



Warning

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

Formatting

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

Warning

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

* Connect the USB Hard Drive with size less than 2TB.

To format a USB Hard Drive...

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

- 3 - Select **Recordings** if you want to perform Pause TV and Recordings, otherwise, select **Apps** to store apps. Follow the instructions on screen.
- 4 - All files and data will be removed after formatting.
- 5 - When the USB Hard Drive is formatted, leave it connected permanently.

For more information, in **Help**, press the colour key **—** **Keywords** and look up **Pause TV**, **Recording**, or **Apps**.

6.10

USB Keyboard

Connect

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

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

Configure

Install the keyboard

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

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

- 1 - Press **⚙️**, select **All Settings** and press **OK**.
- 2 - Select **General Settings** and press **➤** (right) to enter the menu.
- 3 - Select **USB Keyboard Settings**, and press **OK** to start the keyboard setup.

Special Keys

Keys for entering text

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

Keys for apps and Internet pages

- Tab and Shift + Tab = Next and Previous
- Home = scroll to the top of the page
- End = scroll to the bottom of the page
- Page Up = jump one page up
- Page Down = jump one page down

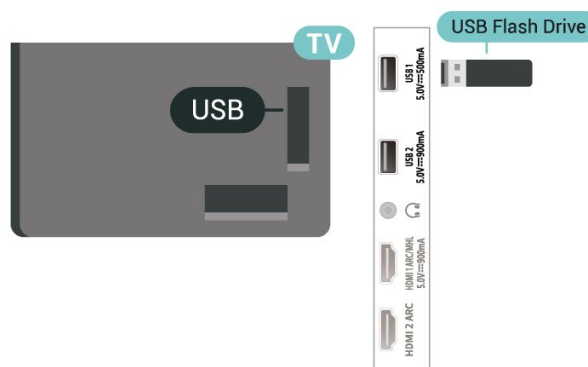
- + = zoom in one step
- - = zoom out one step
- * = fit the web page to the screen width

6.11

USB Flash Drive

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

Insert a USB flash drive in one of the **USB** connections on the TV while the TV is switched on.



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

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

To stop watching the USB flash drive content, press **TV EXIT** or select another activity.

To disconnect the USB flash drive, you can pull out the flash drive anytime.

Ultra HD on USB

You can view photos in Ultra HD resolution from a connected USB device or flash drive. The TV will downscale the resolution to Ultra HD if the resolution of the photo is higher. You cannot play a native Ultra HD video on any of the USB connections.

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

Photo Camera

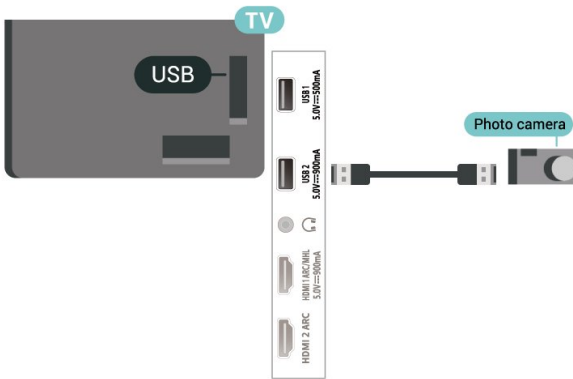
To view photos stored on your digital photo camera, you can connect the camera directly to the TV.

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

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

Ultra HD on USB

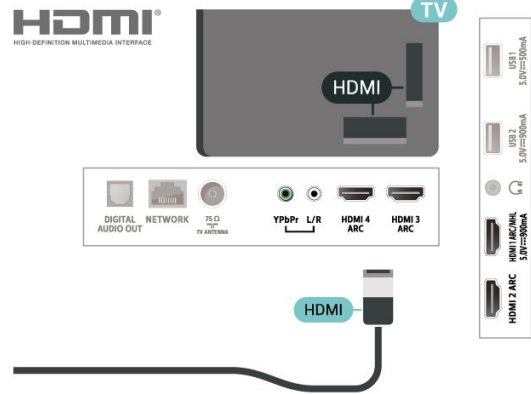
You can view photos in Ultra HD resolution from a connected USB device or flash drive. The TV will downscale the resolution to Ultra HD if the resolution of the photo is higher. You cannot play a native Ultra HD video on any of the USB connections.



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

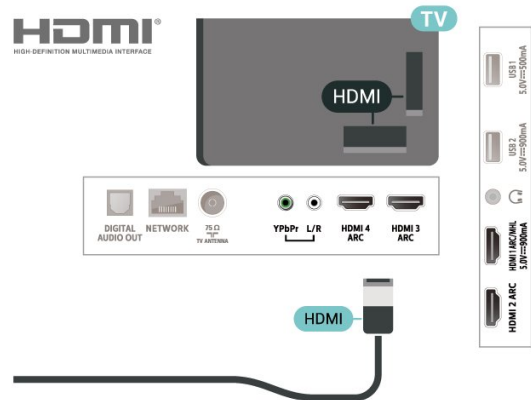
Camcorder

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



HDMI

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



Computer

Connect

You can connect your computer to the TV and use the TV as a PC monitor.

With HDMI

Use an HDMI cable to connect the computer to the TV.


With DVI to HDMI

Alternatively, you can use a DVI to HDMI adapter (sold separately) to connect the PC to HDMI and an audio L/R cable (mini-jack 3.5mm) to AUDIO IN L/R on the back of the TV.

Ideal Setting

If you connect a computer, we advise you to give the connection, on which the computer is connected, the correct device type name in the Source menu. If you then switch to **Computer** in the Source menu, the TV is set to the ideal Computer setting automatically.

To set the TV to the ideal setting...

- 1 - Press , select **All Settings** and press **OK**.
- 2 - Select **Picture** and press **➤** (right) to enter the menu.
- 3 - Select **Advanced > Computer**, and press **OK**.
- 4 - Select **On** or **Off**, and press **OK**.
- 5 - Press **◀** (left) repeatedly if necessary, to close the menu.

Connect your Android TV

Network and Internet

Home Network

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

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

Connect to Network

Wireless Connection



What You Need

To connect the TV to the Internet wirelessly, you need a Wi-Fi router with a connection to the Internet.

Use a high-speed (broadband) connection to the Internet.

Make the Connection

Make the Connection - Wireless



 (TV menu) >  Settings > Wireless and Networks > Wired or Wi-Fi > Connect to Network > Wireless.

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

2 - Depending on the type of router, enter your encryption key - WEP, WPA or WPA2. If you entered the encryption key for this network before, you can select OK to make the connection immediately.

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

Make the Connection - WPS

 (TV menu) >  Settings > Wireless and Networks > Wired or Wi-Fi > Connect to Network > WPS.

If your router has WPS, you can directly connect to the router without scanning for networks. If you have



devices in your wireless network that use the WEP security encryption system, you cannot use WPS.

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

2 - Select Connect to make the connection.

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

Make the Connection - WPS with PIN Code

 (TV menu) >  Settings > Wireless and Networks > Wired or Wi-Fi > Connect to Network > WPS with PIN Code.

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

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

2 - Select Connect to make the connection.

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

Problems

Wireless network not found or distorted

- Microwave ovens, DECT phones or other Wi-Fi 802.11b/g/n devices in your proximity might disturb the wireless network.
- Make sure that the firewalls in your network allow access to the TV's wireless connection.
- If the wireless network does not work properly in your home, try the wired network installation.

Internet does not work


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

The PC and Internet connection are slow

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

DHCP

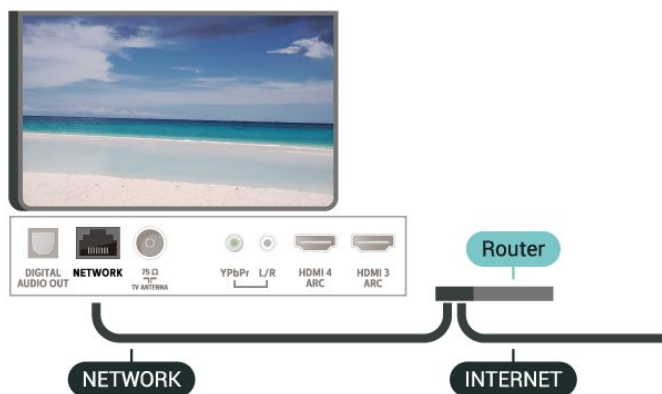
- If the connection fails, you can check the DHCP (Dynamic Host Configuration Protocol) setting of the router. DHCP should be switched on.

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

Wired Connection

What You Need

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



Make the Connection

TV menu > **Settings** > **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.

Network Settings

View Network Settings

TV menu > **Settings** > **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 - Static IP

TV menu > **Settings** > **Networks** > **Wired or Wi-Fi** > **Network Configuration** > **Static IP**.

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

IP.

Network Configuration - Static IP Configuration

TV menu > **Settings** > **Networks** > **Wired or Wi-Fi** > **Network Configuration** > **Static IP Configuration**.

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

Switch On with Wi-Fi (WoWLAN)

TV menu > **Settings** > **Networks** > **Wired or Wi-Fi** > **Switch On with Wi-Fi (WoWLAN)**.

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

Switch on Wi-Fi connection

TV menu > **Settings** > **Networks** > **Wired or Wi-Fi** > **Wi-Fi On/Off**.

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

Digital Media Renderer - DMR

TV menu > **Settings** > **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.

TV Network Name

TV menu > **Settings** > **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.

Clear Internet Memory

TV menu > **Settings** > **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.

Google Account

Sign In




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

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

Sign In

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

To sign in after you did the TV installation...



- 1 - Press , select **All Settings** and press **OK**.
- 2 - Select **Android Settings** and press **OK**.
- 3 - Press  (down) and select **Personal > Add account** and press **OK**.
- 4 - Press **OK** on **SIGN IN**.
- 5 - With the on-screen keyboard, enter your email address and press **OK**.
- 6 - Enter your password and press the same small **OK** key to sign in.
- 7 - Press  (left) repeatedly if necessary, to close the menu.

If you want to sign in with another Google Account, first sign out and sign in with the other account.

Android Settings

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

To open these settings...

- 1 - Press , select **All Settings** and press **OK**.
- 2 - Select **Android Settings**, and press **OK**.
- 3 - Explore the different Android settings.
- 4 - Press  **BACK** if necessary, to close the menu.

Philips App Gallery

Philips Apps



Connect the TV to the Internet to enjoy apps selected by Philips. The **Philips App Gallery** apps are made specially for TV. Downloading and installing App Gallery apps is free of charge.

The Philips App Gallery collection of apps can differ per country or region.

Terms of Use

To install and use the Philips App Gallery apps, you must agree to the Terms of Use. If you did not agree to these terms during the first TV installation, you can always agree to them later. The moment you agree to the Terms of Use, some apps will be available immediately and you can browse the Philips App Gallery to install other apps.

To agree on the Terms of Use after you did the TV installation...



- 1 - Press  **HOME** and select **Philips Collection > App Gallery** and press **OK** to open the App Gallery.
- 2 - You can select **Terms of Use**, then press **OK** to read.
- 3 - Select **Accept** and press **OK**. You cannot undo this approval.
- 4 - Press  **BACK** to close the menu.

Privacy Settings

You can set some privacy settings for the Philips App Gallery apps.

- You can allow technical statistics to be send to Philips.
- You can allow personal recommendations.
- You can allow cookies.
- You can switch on the Child Lock for 18+ rated apps.

To set the Philips App Gallery privacy settings...

- 1 - Press  **HOME** and select **Philips Collection > App Gallery** and press **OK** to open the App Gallery.
- 2 - You can select **Privacy Policy**, then press **OK**.
- 3 - Select each setting and press **OK** to allow or disallow. You can read about each setting in detail.
- 4 - Press  **BACK** to close the menu.

Apps

8.1

About Apps

You can find all installed apps in the **Apps** section of the Home menu.

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

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

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

8.2

Google Play

Movies and TV

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

What You Need

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

To rent or buy a movie or TV show...

- 1 - Press **HOME**.
- 2 - Scroll down and select **Apps** > **Google Play Movies & TV** and press **OK**.
- 3 - Select a movie or TV show and press **OK**.
- 4 - Select the purchase you want and press **OK**. You will be taken through the purchase procedure.

To watch a rented or bought movie or TV show...

- 1 - Press **HOME**.
- 2 - Scroll down and select **Apps** > **Google Play Movies & TV** and press **OK**.
- 3 - Select the movie or TV show from your library in the app, select the title and press **OK**.
- 4 - You can use the **■** (stop), **||** (pause), **◀** (rewind) or **▶** (fast forward) keys on the remote control.
- 5 - To stop the Movies & TV app, press **← BACK**

repeatedly or press **TV EXIT**.

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

Find more information on support.google.com/androidtv

Music

With Google Play Music, you can play your favourite music on TV.

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

What You Need

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

To start Google Play Music...

- 1 - Press **HOME**.
- 2 - Scroll down and select **Apps** > **Google Play Music** and press **OK**.
- 3 - Select the music you want and press **OK**.
- 4 - To stop the Music app, press **← BACK** repeatedly or press **TV EXIT**.

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

Find more information on support.google.com/androidtv

Games

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

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

What You Need

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

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

To start or stop a Google Play Game...

- 1 - Press **HOME**.
- 2 - Scroll down and select **Apps** > **Google Play**

Games and press OK.

3 - Select a game to play or select a new game to install and press OK.

4 - When done, press BACK repeatedly or press EXIT or stop the app with its dedicated exit/stop button.

The games you install will also appear in the row of Games in the Home menu

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

Find more information on support.google.com/androidtv

Google Play Store

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

What You Need

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

To install a new app...

- 1 - Press HOME.
- 2 - Scroll down and select Apps > Google Play Store and press OK.
- 3 - Select the app you want to install and press OK.
- 4 - To close the Google Play Store, press BACK repeatedly or press EXIT.

Parental controls

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

To set the parental control...

- 1 - Press HOME.
- 2 - Scroll down and select Apps > Google Play Store and press OK.
- 3 - Select Settings > Parental controls and press OK.
- 4 - Select the level of maturity you want.
- 5 - On request, enter the PIN code.
- 6 - To close the Google Play Store, press BACK repeatedly or press EXIT.

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

Find more information on support.google.com/androidtv

Payments

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

To add a credit card ...

- 1 - On your computer, go to accounts.google.com and sign in with the Google Account you will use with Google Play on TV.
- 2 - Go to wallet.google.com to add a card to your Google Account.
- 3 - Enter your credit card data and accept the terms and conditions.

8.3

App Gallery

Connect the TV to the Internet to enjoy apps selected by Philips. These apps are made specially for TV. The **Philips App Gallery** offers a wide diversity of apps. For some countries, you can install apps of a local Videostore or apps from TV broadcasters in your country. The latter can offer Catch-Up TV services. Downloading and installing App Gallery apps is free of charge.

The Philips App Gallery collection of apps can differ per country or region.

Some App Gallery apps are pre-installed on your TV. To install other apps from the App Gallery, you will be asked to agree to the Terms of Use. You can set the Privacy Settings according to your preference.

To install an app from the App Gallery...

- 1 - Press HOME.
- 2 - Scroll down and select Philips Collection > App Gallery and press OK.
- 3 - Select an app icon and press OK.
- 4 - Select Install and press OK.

8.4

Start or Stop an App

You can start an app from the Home menu.

To start an app...

- 1 - Press HOME.
- 2 - Scroll down to Apps and select the app you want and press OK.
- 3 - To stop an app, press BACK or press EXIT or stop the app with its dedicated exit/stop button.

Lock Apps

About App Locks

You can lock apps unsuited for children. You can lock 18+ rated apps from the App Gallery or set up a restricted profile in the Home menu.

18+

The 18+ 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 App Gallery.

Restricted profile

You can set up a restricted profile for the Home menu where only the apps you allow are available. You need to enter a PIN code to set up and switch on the restricted profile.


Google Play Store - Maturity


In the Google Play Store, you can hide apps according to users/buyers maturity. You need to enter a PIN code to select or change the level of maturity. The level of maturity will determine which apps are available for installation.

Lock 18+ rated apps

You can lock 18+ rated apps from the Philips App Gallery. This setting controls the 18+ setting in the Philips App Gallery Privacy Settings.

To lock 18+ rated apps...

- 1 - Press , select **All Settings** and press **OK**.
- 2 - Select **Child Lock**, select **App Lock** and press **OK**.
- 3 - Select **On** and press **OK**.
- 4 - Press **<** (left) repeatedly if necessary, to close the menu.

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

Restricted Profile

About Restricted Profile

You can restrict the use of certain apps by switching the TV to a restricted profile. The Home menu will only show the apps you allowed. You need a PIN code to switch out of the restricted profile.

With the TV switched to a restricted profile you cannot...

- Find or open apps which are marked as Not allowed
- Access the Google Play Store

- Purchase through Google Play Movies & TV, nor Google Play Games
- Use third-party apps that don't use the Google sign-in



With the TV switched to a restricted profile you can...

- Watch content already rented or purchased from Google Play Movies & TV
- Play games already purchased and installed from Google Play Games
- Access the following settings: Wi-Fi network, Speech and Accessibility
- Add Bluetooth accessories

The Google Account on TV will stay logged in. Using a restricted profile doesn't change the Google Account.

Set Up

To set up the restricted profile...



- 1 - Press , select **All Settings** and press **OK**.
- 2 - Select **Android Settings** and press **OK**.
- 3 - Press **▼** (down) and select **Personal > Security & restrictions** and press **OK**.
- 4 - Select **Restricted Profile** and press **OK**.
- 5 - Select **Settings** and press **OK**.
- 6 - Enter a PIN code with the remote control.
- 7 - Select **Allowed apps** and press **OK**.
- 8 - In the list of available apps, select an app and press **OK** to allow or not allow this app.
- 9 - Press **← BACK** to go back one step or press  **EXIT** to close the menu.


Now you can enter the restricted profile.

With the PIN code, you can always change the PIN code or edit the list of allowed or not allowed apps.

Enter



To enter (switch to) the restricted profile...

- 1 - Press , select **All Settings** and press **OK**.
- 2 - Select **Android Settings** and press **OK**.
- 3 - Press **▼** (down) and select **Personal > Security & restrictions** and press **OK**.
- 4 - Select **Enter restricted profile** and press **OK**.
- 5 - Enter a PIN code with the remote control.
- 6 - Press **← BACK** to go back one step or press  **EXIT** to close the menu.

You can see when a restricted profile is entered if an icon appears in the Home screen. Scroll down to  **Settings** and scroll to the far right.

Exit

To exit the restricted profile...

- 1 - Press  HOME, scroll down to  Settings and scroll far right.
- 2 - Select **Restricted Profile** and press **OK**.
- 3 - Select **Exit restricted profile** and press **OK**.
- 4 - Enter the PIN code. The TV will exit the restricted profile.

8.6

Manage Apps




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

8.7

Storage

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

To see how much storage you are using...

- 1 - Press , select **All Settings** and press **OK**.
- 2 - Select **Android Settings** and press **OK**.
- 3 - Select **Device > Storage & reset** and press **OK**.
- 4 - View the storage usage of the TV memory.
- 5 - Press  BACK to go back one step or press  EXIT to close the menu.

USB Hard Drive

If you connect a USB Hard Drive, you can use the drive to extend the TV memory to store more apps. Allow the USB Hard Drive to be used as an additional TV memory during the formatting process. The TV will try to store new apps on the USB Hard Drive first. Some apps do not allow to be stored on a USB Hard Drive.

To migrate your existing data, go to **All Settings > Android Settings > Device > Storage & reset** and select the **USB Hard Drive**.

Internet






9.1

Start Internet

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

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

To start the Internet browser...

- 1 - Press  HOME.
- 2 - Scroll down and select **Apps** >  **Internet** and press **OK**.
- 3 - Enter an Internet address and select , press **OK**.
- 4 - To close Internet, press  HOME or  EXIT.

9.2

Options on Internet

Some extras are available for the Internet.

To open the extras...

- 1 - With the website open, press **+** **OPTIONS**.
 - 2 - Select one of the items and press **OK**.
- Add to speed dial: To enter a new Internet address.
 - Add to bookmarks: Add the page as bookmark
 - Page security: To view the security level of the current page.
 - New private tab: Open new private tab, and have private browsing
 - Settings: Settings for Zoom, Text size, Accessibility mode, Always show menu bar, and clear (browsing) history
 - Help: Internet browser information
 - Exit Internet browser: Close Internet browser

TV Menu


About TV Menu

If the TV cannot be connected with the Internet, you can use the **TV Menu** as your Home menu.

In the TV Menu, you will find every TV function.

Open TV Menu

To open TV Menu and open an item...

- 1 - Press  to open TV Menu.
- 2 - Select an item and press **OK** to open or start it.
- 3 - Press **← BACK** to close TV Menu without starting anything.



Sources

11.1

Switch to a device


From the list of Sources, you can switch to any of the connected devices. You can switch to a tuner to watch TV, open the content of a connected USB Flash Drive or see the recordings you made on a connected USB Hard Drive. You can switch to your connected devices to watch their programme, a digital receiver or a Blu-ray Disc player.

To switch to a connected device...

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

One Touch Play

With the TV in standby, you can switch on a disc player with your TV remote control.


To switch on both disc player and TV from standby and start playing the disc immediately, press  (play) on the TV remote control. The device must be connected with an HDMI cable and both TV and device must have HDMI CEC switched on.

11.2

Options for a TV Input

Some TV input devices offer specific settings.

To set the options for a specific TV input...

- 1 - Press  **SOURCES**.
- 2 - Select the TV input in the list and press **OK**.
- 3 - Press **+** **OPTIONS**. You can set the options for the selected TV input here.
- 4 - Press **+** **OPTIONS** again to close the Options menu.

Possible options...

Controls

With this option you can operate the connected device with the TV remote control. The device must be connected with an HDMI cable and both TV and device must have HDMI CEC switched on.

Device Info


Open this option to view information on the connected device.

Device Name and Type





When you connect a new device to the TV and the TV detects the device, you can assign an icon that fits the device type. If you connect a device with an HDMI cable and HDMI CEC, the TV detects the device type automatically and the device gets an appropriate icon.

The device type determines picture and sound styles, resolution values, specific settings or the position within the Sources menu. You don't have to worry about the ideal settings.

Rename or Change Type





You can always change the name or change the type of a connected device. Look for the  icon at the right of the device name in the Sources menu. Some TV input sources do not allow a name change.

To change the device type...

- 1 - Select the device in the Sources menu.
- 2 - Press  (right) to select the  icon and press **OK**.
- 3 - Press  **BACK** to hide the on-screen keyboard.
- 4 - Press  (down) to find all available device types. Select the type you want and press **OK**.

- 5 - If you want to reset the type of the device to the original connector type, select **Reset** and press **OK**.
- 6 - Select **Close** and press **OK** to close this menu.

To change the device name...




- 1 - Select the device in the Sources menu.
- 2 - Press  (right) to select the  icon and press **OK**.
- 3 - Use the on-screen Keyboard to delete the current name and enter a new one. Press  to confirm.
- 4 - Press  **BACK** to hide the on-screen keyboard.
- 5 - If you want to reset the name of the device to the original connector name, select **Reset** and press **OK**.
- 6 - Select **Close** and press **OK** to close this menu.

11.4

Rescan Connections

You can rescan all TV connections to update the Sources menu with recently connected devices.

To rescan the connections...

- 1 - Press  **SOURCES** to open the Sources menu.
- 2 - Press  (up) to select the  icon at the top right of the Sources menu.
- 3 - Press **OK** to start scanning the connections. Newly connected devices will be added to the

Sources menu.

Networks

Network

For more information, in **Help**, press the colour key **— Keywords** and look up **Network**, for more information on connecting the TV to a network.

Bluetooth

Pairing a Device

For more information, in **Help**, press the colour key **— Keywords** and look up **Bluetooth, Pairing** for more information on pairing wireless devices.

Select a Device

For more information, in **Help**, press the colour key **— Keywords** and look up **Bluetooth, Select device** for more information on how to select a wireless device.

Remove a Device

For more information, in **Help**, press the colour key **— Keywords** and look up **Bluetooth, Remove device** for more information on how to unpair (remove) a wireless Bluetooth device.

Settings



13.1

Picture


Picture Settings

Picture Style

Select a style

 (TV menu) >  Settings > Picture > Picture style.


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

- Personal - The picture preferences you set during the first start up.
- Vivid - Ideal for daylight viewing
- Football - Ideal for football games
-  Standard - Most energy conscious setting - Factory setting
- Movie - Ideal for watching movies
- Game - Ideal for playing games
- Monitor - Ideal for PC display

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

- HDR Personal
- HDR Vivid
- HDR Natural
- HDR Movie
- HDR Game

Restore a Style

- 1 - Select the picture style you want to restore.
- 2 - Press the colour key  Restore style, and press OK. The style is restored.

Customise a Style



Any picture setting you adjust, like Colour or Contrast, is stored in the currently selected **Picture Style**. It allows you to customise each style.

Only the style **Personal** can save its settings for each source in the Sources menu.


Colour, Contrast, Sharpness, Brightness



Adjust the picture colour

 (TV menu) >  Settings > Picture > Colour.

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



Adjust the picture contrast



 (TV menu) >  Settings > Picture > Contrast.

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



You can decrease contrast value to reduce power consumption.



Adjust the picture sharpness

 (TV menu) >  Settings > Picture > Sharpness.

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

Adjust brightness

 (TV menu) >  Settings > Picture > Brightness.



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

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

Advanced Picture Settings



Colour Settings

Advanced Colour Settings



 (TV menu) >  Settings > Picture > Advanced > Colour.

Adjust the tint setting

 (TV menu) >  Settings > Picture > Advanced > Colour > Tint.



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

Adjust the colour enhancement

 (TV menu) >  Settings > Picture > Advanced > Colour > Colour enhancement.

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

Adjust the colour gamut

 (TV menu) >  Settings > Picture > Advanced > Colour > Colour gamut.



Select Normal or Wide to set the type of colour gamut.



Select the preset colour temperature

 (TV menu) >  Settings > Picture > Advanced > Colour > Colour temperature.

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

Customise colour temperature

 (TV menu) >  Settings > Picture > Advanced > Colour > Custom Colour temperature.

Select Custom in Colour temperature menu to customise a colour temperature yourself. Press the arrows  (up) or  (down) to adjust the value. WP is white point and BL is black level. You can also select one of the presets in this menu.

Advanced Contrast Settings

HDR Settings


If you are watching HDR programmes - programmes recorded in HDR - there is no need to upscale to HDR and the HDR setting is unavailable. The TV can play HDR programmes from a HDMI connection, from an Internet source or from a connected USB memory device.


If you are watching HDR (High-Dynamic Range) programmes - programmes recorded in HDR - The TV will automatically switched to HDR mode with indication.

HDR Upscaling control is unavailable. The TV can play HDR programmes* from HDMI 1 or HDMI 2 connection, broadcasting, from an Internet source or from a connected USB memory device.

* Only HDR10 and Hybrid Log Gamma HDR are supported

HDR Upscaling, High Brightness and HDR Conversion

 (TV

menu) > 



Settings > Picture > Advanced > Contrast > HDR upscaling / High Brightness / HDR Conversion.

Select On to boost the brightness and contrast of the picture. The picture is much brighter and has a higher level of contrast between lighter and darker parts. HDR upscaling keeps colours rich and saturated. Set the level of HDR Conversion or see the demo on live video.

Note:

- Available when SDR (Standard Dynamic Range) signal is detected.
- Not available when video content is supported HDR.

HDR Premium

 (TV menu) >  Settings > Picture > Advanced > Contrast > HDR Premium.

Select HDR Premium for superior contrast and brightness effect.

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



Dynamic Contrast



 (TV menu) >  Settings > Picture > Advanced > Contrast > Dynamic contrast.

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

Video Contrast, Gamma

Video contrast

 (TV menu) >  Settings > Picture > Advanced > Contrast > Video contrast.



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

Gamma

 (TV menu) >  Settings > Picture > Advanced > Contrast > Gamma.

Press the arrows **▲** (up) or **▼** (down) to set a non-linear setting for picture luminance and contrast.



Light Sensor

 (TV menu) > 
Settings > Picture > Advanced > Contrast > Light sensor.

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

Advanced Sharpness Settings



Ultra Resolution

 (TV menu) > 
Settings > Picture > Advanced > Sharpness > Ultra Resolution.

Select On to have a superior sharpness in line edges and details.

Picture Clean

Noise reduction

 (TV menu) > 
Settings > Picture > Advanced > Picture clean > Noise reduction.

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

MPEG Artefact Reduction



 (TV menu) > 
Settings > Picture > Advanced > Picture clean > MPEG Artefact Reduction.

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

Motion Settings

Perfect Natural Motion





Motion Styles

 (TV menu) > 
Settings > Picture > Advanced > Motion > Motion styles.



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

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

Not available for below cases:

-  (TV menu) >  Settings > Picture > Picture style > Monitor.
-  (TV menu) >  Settings > Picture > Picture style > Game.

Perfect Natural Motion


 (TV menu) > 
Settings > Picture > Advanced > Motion > Perfect Natural Motion.

Perfect Natural Motion makes any movement smooth and fluent.

Select Maximum, Medium, or Minimum to have different degrees for reducing the motion judder, visible in movies on TV.
Select Minimum or Off when noise appears in playing moving picture on-screen.

Note: Only available when Motion styles set to Personal.

Perfect Clear Motion

 (TV menu) > 
Settings > Picture > Advanced > Motion > Perfect Clear Motion.

Perfect Clear Motion makes any movement smooth and fluent.


Select Maximum, Medium, or Minimum to have different degrees for reducing the motion judder, visible in movies on TV.
Select Minimum or Off when noise appears in playing moving picture on-screen.

Note: Only available when Motion styles set to Personal.


Picture Format

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

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

- 1 - While watching a TV channel, press .
 - 2 - Select **Picture Format** > **Fill Screen**, **Fit to Screen**, **Wide Screen** and **Original**, and press **OK**.
 - 3 - Press **◀** (left) repeatedly if necessary, to close the menu.
- **Fill Screen** – automatically enlarges the picture to fill the screen. Picture distortion is minimal, subtitles remain visible. Not suitable for PC input. Some extreme picture formats can still show black bars.
 - **Fit to Screen** – automatically zooms in the picture to fill the screen without distortion. Black bars may be visible. Not suitable for PC input.
 - **Wide Screen** – automatically zooms in the picture to wide screen.
 - **Original** – automatically zooms in the picture to wide screen.


To format the picture manually...

- 1 - While watching a TV channel, press .
 - 2 - Select **Advanced** and press **OK**.
 - 3 - Use **Shift**, **Zoom**, and **Stretch** to adjust the picture.
 - 4 - Or select **Undo** to return to the setting the picture had when you opened **Picture Format**.
- **Shift** – Select on the arrows to shift the picture. You can only shift the picture when it is zoomed in.
 - **Zoom** – Select on the arrows to zoom in.
 - **Stretch** – Select on the arrows to stretch the picture vertically or horizontally.
 - **Undo** – Select to return to the picture format you started with.

Quick Picture Setting

During the first installation, you did some picture settings in a few easy steps. You can redo these steps with **Quick Picture Setting**. To do these steps, make sure the TV can tune to a TV channel or can show a programme from a connected device.

To set the picture in a few easy steps...

- 1 - Press , select **All Settings** and press **OK**.
- 2 - Select **Picture** and press **▶** (right) to enter the menu.
- 3 - Select **Quick Picture Setting**, and press **OK**.
- 4 - Use the navigation keys to select your choice.
- 5 - Press **◀** (left) repeatedly if necessary, to close the menu.

13.2

Sound

Sound Style


Select a style

 (TV menu) >  Settings > Sound > Sound style.

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

- **Original** - Most neutral sound setting
- **Movie** - Ideal for watching movies
- **Music** - Ideal for listening to music
- **Game** - Ideal for gaming
- **News** - Ideal for speech
- **Expert mode** - Access to a more in depth sound settings.

Restore a Style

- 1 - Select the sound style you want to restore.
- 2 - Press the colour key  Restore Style, and press **OK**. The style is restored.


Expert mode settings

DTS TruSurround

 (TV menu) >  Settings > Sound > Expert mode settings > DTS TruSurround.



Press the arrows **▲** (up) or **▼** (down) to adjust the level of DTS TruSurround.

Clear dialogue

 (TV menu) >  Settings > Sound > Expert mode settings > Clear dialogue > On.

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

Equalizer

 (TV menu) >  Settings > Sound > Expert mode settings > Equalizer.

Press the arrows **▲** (up) or **▼** (down) to adjust the level of Equalizer.

TV placement

 (TV menu) >  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



 (TV menu) >  Settings > Sound > Advanced > Auto volume.

Select **DTS TruVolume** to deliver a robust consistent output.



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

Delta volume

 (TV menu) >  Settings > Sound > Advanced > Delta volume.

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

Audio Out Settings

 (TV menu) >  Settings > Sound > Advanced > Audio out.

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

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



- If you select **TV Speakers Off**, you permanently switch off the TV speakers.
- If you select **TV Speakers**, the TV speakers are always on. All the sound related settings (Bass, Treble, Surround mode etc) are applicable to this mode.
- If you select **Headphones**, the sound will be played through 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.

Digital Output Settings

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

Digital out format

 (TV menu) >  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**: If your audio playback devices have no multichannel sound processing, select to only output stereo content to your audio playback devices.
- **Multichannel**: Select to only output 5.1 audio content (compressed multichannel sound signal) to your audio playback devices.
- **Multichannel (bypass)**: Select to send original bitstream from HDMI ARC to the connected HDMI Sound System.
- **Dolby Digital Plus**: Select to output Dolby Digital Plus or DTS content to your audio playback devices or Home theatre system.

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

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

Digital out levelling

 (TV menu) >  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

 (TV menu) >  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)

 (TV menu) > 

Settings > Sound > Advanced > Digital out offset.

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




send original bitstream from HDMI ARC to the connected HDMI Sound System.

13.3

Ambilight Settings


Turn Ambilight On or Off

Turn off Ambilight



Press  AMBILIGHT and select Off, or you can turn Off by pressing  (TV menu) >  Settings > Ambilight > Ambilight style > Off.

Ambilight Style

You can select the way Ambilight follows.

 (TV menu) >  Settings > Ambilight > Ambilight style.



Follow video

 (TV menu) >  Settings > Ambilight > Ambilight style > Follow video.

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

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



Follow audio

 (TV menu) >  Settings > Ambilight > Ambilight style > Follow audio.


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

- Lumina - Mixes audio dynamics with video colours
- Colora - Based on audio dynamics
- Retro - Based on audio dynamics
- Spectrum - Based on audio dynamics
- Scanner - Based on audio dynamics
- Rhythm - Based on audio dynamics
- Party - A mix of all Follow Audio styles, one after the other


Follow colour

 (TV menu) >  Settings > Ambilight > Ambilight style > Follow colour.

Select one of the preset colour styles.



- Hot lava - Red colour variations
- Deep water - Blue colour variations
- Fresh nature - Green colour variations
-  Warm white - Static colour
- Cool white - Static colour

Follow flag

 (TV menu) >  Settings > Ambilight > Ambilight style > Follow flag.

Let Ambilight follow the country flag you select.

Follow app



 (TV menu) >  Settings > Ambilight > Ambilight style > Follow app.

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

Ambilight Brightness, Saturation



Brightness

 (TV menu) >  Settings > Ambilight > Brightness.

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

Saturation

 (TV menu) >  Settings > Ambilight > Saturation.

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

Ambilight + Hue


Configure

 (TV menu) >  Settings > Ambilight > Ambilight+hue > Configure.


Setup your Philips Hue bulbs to follow the colours of Ambilight.



Switch Off

Switch off Ambilight+hue

 (TV menu) >  Settings > Ambilight > Ambilight+hue > Switch off.

Immersion



 (TV menu) >  Settings > Ambilight > Ambilight+hue > Immersion.

Press the arrows  (up) or  (down) to adjust how accurate the Hue bulbs follow the Ambilight.

Lounge Light+hue


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

Switch on/off the hue bulbs



 (TV menu) >  Settings > Ambilight > Ambilight+hue > Lounge light+hue.

View Configuration or Reset

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

 (TV menu) >  Settings > Ambilight > Ambilight+hue > View configuration.

Reset current setup of the Ambilight+hue

 (TV menu) > 

Settings > Ambilight > Ambilight+hue > Reset configuration.

Advanced Ambilight Settings

Neutralise the influence of a coloured wall on the Ambilight colours



 (TV menu) >  Settings > Ambilight > Advanced > Wall colour.

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

ISF Tuning

 (TV menu) >  Settings > Ambilight > Advanced >  ISF tuning.


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

 (TV menu) >  Settings > Ambilight > Advanced > TV switch off.

13.4

Eco Settings

Set energy saving level

 (TV menu) >  Settings > Eco settings > Energy saving.

Select Maximum, Medium, or Minimum to have different degrees for energy saving, or select Off to switch off energy saving mode.

Set screen off to save energy consumption

 (TV menu) >  Settings > Eco settings > Screen off.

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



Switch on built-in ambient light sensor

 (TV menu) >  Settings > Eco settings > Light sensor.

Select Light sensor, the built-in ambient light sensor lowers the brightness of the TV screen when the surrounding light darkens. The built-in light sensor automatically adjusts the picture, to the lighting conditions of the room.

Set TV switch off timer

 (TV menu) >  Settings > Eco settings > Switch off timer.

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

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

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

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

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

13.5

General Settings

USB Hard Drive

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

 (TV menu) >  Settings > General settings > USB Hard Drive.

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

Warning

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

To format a USB Hard Drive...

1 - Connect the USB Hard Drive to one of the USB connections on the TV. Do not connect

another USB device to the other USB ports when formatting.

2 - Switch on the USB Hard Drive and the TV.

3 - Select **Recordings** if you want to perform Pause TV and Recordings, otherwise, select **Apps** to store apps. Follow the instructions on screen.

4 - All files and data will be removed after formatting.

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

USB Keyboard Settings



Set the keyboard layout for installed USB keyboard

 (TV menu) >  Settings > General settings > USB keyboard settings.

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

Home or Shop

Select the location of your TV

 (TV menu) >  Settings > General settings > Location.

Select Shop, the picture style is switched back to Vivid, and can adjust shop settings. Shop mode is for in-store promotion.

Shop Setup

Adjust shop settings

 (TV menu) >  Settings > General settings > Shop setup.

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

Adjust Picture and audio

 (TV menu) >  Settings > General settings > Shop setup > Picture and audio.

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

Set Logos and banner

 (TV menu) >  Settings > General

settings > Shop setup > Logos and banner.

Set to display Feature logos and Promotional banner.

Demo Me autostart and Ambilight Demo autostart

 (TV menu) >  Settings > General settings > Shop setup > Demo Me autostart / Ambilight Demo autostart.



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

EasyLink - HDMI CEC



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

 (TV menu) >  Settings > General settings > EasyLink > EasyLink > On.

Operate HDMI CEC-compatible devices with TV remote control


 (TV menu) >  Settings > General settings > EasyLink > EasyLink remote control > On.

Note:

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

HDMI Auto game mode

Set the HDMI Auto game mode



 (TV menu) >  Settings > General settings > HDMI Auto game mode.

Set **HDMI Auto game mode** to **On**, if you want TV to automatically set Picture style to Game whenever it is informed by the HDMI device connected to TV.

HDMI Ultra HD

Connect the HDMI device and play Ultra HD signal on your TV, 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.

Set the signal quality for each HDMI connectors

 (TV menu) >  Settings > General settings > HDMI Ultra HD > HDMI 1&2 > Standard, Optimal, off.

To change the settings, switch to the HDMI source first. Select **Optimal** to enable the highest quality HDMI signal for 4K Ultra HD and HDR content (4K60 4:4:4, 4K60 10-bit HDR).

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

Advanced



Channel Logos

Switch off channel logos

 (TV menu) >  Settings > General settings > Advanced > Channel logos.



Ginga

Switch off Ginga feature

 (TV menu) >  Settings > General settings > Advanced > Ginga.

Reset TV Settings and Reinstall TV

Reset all settings value to original TV settings

 (TV menu) >  Settings > General settings > Factory settings.

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

 (TV menu) >  Settings > General settings > Reinstall TV.

Enter PIN code and select Yes, the TV will reinstall completely.


All settings will be reset and installed channels will be replaced.

The installation can take a few minute

Clock, Region, and Language Settings

Menu language

Change the language of the TV menu and messages

 (TV menu) >  Settings > Region and language > Menu language.

Clock



 (TV menu) >  Settings > Region and language > Clock.

Correct clock automatically

 (TV menu) >  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 manually.

Correct clock manually

 (TV menu) >  Settings > Region and language > Clock > Auto clock mode > Manual.

 (TV menu) >  Settings > Region and language > Clock > Date, Time.

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


Note:

- If none of the automatic settings display the time correctly, you can set the time manually.
- If you schedule recordings from the TV Guide, we recommend not to change the time and date manually.

Set time zone or set a time offset for your region

 (TV menu) >  Settings > Region and language > Clock > Time zone.

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

 (TV menu) >  Settings > Region and language > Clock > Sleep timer.

Android Settings

 (TV menu) >  Settings > Android settings.

View the list of installed Apps, check out the free space to download more or uninstall an App.

Universal Access Settings



 (TV menu) >  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



 (TV menu) >  Settings > Universal access > Universal access > On.

Universal access for blind or partially sighted people

 (TV menu) >  Settings > Universal access > Audio description > Audio description > On.

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

 (TV menu) >  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  (up) or  (down) to adjust the value.
- Set Audio effect to On for extra audio effects in the commentary audio, like stereo or fading sound.
- Select Speech to set speech preference, Descriptive or Subtitles.

Lock Settings

Set Code and Change Code

Set new code or reset change code

 (TV menu) >  Settings > Child lock > Set code, Change code.

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

Note:

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

Lock for Programme

Set a minimum age to watch rated programmes

 (TV menu) >  Settings > Child lock > Parental rating.

Lock for App

Set lock on App Gallery apps

 (TV menu) >  Settings > Child lock > App lock.

You can lock apps unsuited for children. You can lock 18+ rated apps from the App Gallery or set up a restricted profile in the Home menu.

18+

The 18+ 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 App Gallery.

Restricted profile

You can set up a restricted profile for the Home menu where only the apps you allow are available. You need to enter a PIN code to set up and switch on the restricted profile.

Google Play Store - Maturity

In the Google Play Store, you can hide apps according to users/buyers maturity. You need to enter a PIN code to select or change the level of maturity. The level of maturity will determine which apps are available for installation.

Content rating lock

Set the lock to block the rated programmes.

 (TV menu) >  Settings > Child lock > Content rating lock.

To prevent children from watching a programme not suitable for them, you can set a lock to block the rated programmes. Digital channels can have their programmes rated by content. To watch a locked programme, you must enter the Child lock code first.

Videos, Photos and Music

From a Computer or NAS

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

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

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

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

To browse and play the files on your computer...

- 1 - Press SOURCES, select Network and press OK.
- 2 - Select SimplyShare Devices and press (right) to select the device you need.
- 3 - You can browse and play your files.
- 4 - To stop playing videos, photos and music, press EXIT.

Favourites Menu

Add a folder or a file to favourites menu

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

View favourite files

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

Most Popular Menu and Last Played Menu

View most popular files or clear the list

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

View last played files

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

From a USB Connection

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

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

If the list of files does not appear automatically...

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







Warning

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








Play your Videos

Play Videos


Open video folder

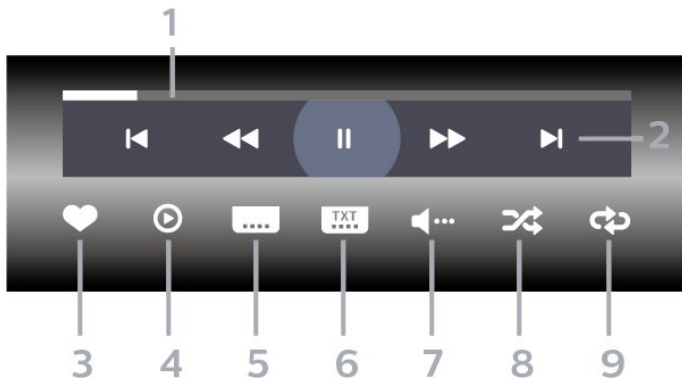
- 1 - Press  SOURCES, select  USB and press OK.
- 2 - Select  USB Devices and press  (right) to select the USB device you need.
- 3 - Select **Videos**, you can press  **Mark favourite** to add the video folder to favourite menu -  **Favourites**.






Play a video

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

Control bar

To show or hide the control bar when a video is playing, press  **INFO***.



- 1 - Progress bar
- 2 - Playback control bar
 - : Jump to the previous video in a folder
 - : Jump to the next video in a folder
 - : Rewind
 - : Fast forward
 - : Pause the playback
- 3 - Mark as favourites
- 4 - Play all videos
- 5 - Subtitle: switch subtitles On, Off or On During Mute.
- 6 - Subtitle language: select a Subtitle Language
- 7 - Audio language: select an audio language

- 8 - Shuffle: play your files in a random order
- 9 - Repeat: plays all videos in this folder once or continuously

* If  **INFO** key is available on your remote control

Video Options

Browse video files...

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


Playing video files...

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

View your Photos








About Photo Menu

You can quickly find a photo using sorting:








- 1 - Press  **Sort** (yellow).
- 2 - Select Most Recent First, Oldest First, A > Z, Z > A.

View Photos

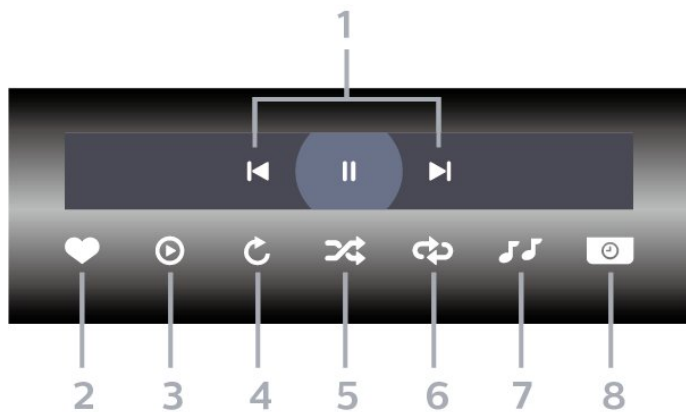
Open photo folder

- 1 - Press  SOURCES, select  USB and press OK.
- 2 - Select  USB Devices and press  (right) to select the USB device you need.
- 3 - Select **Photos**, you can press  **Mark favourite** to add the photo folder to favourite menu -  **Favourites** or press  **Sort** for quickly finding a photo.

View a photo

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

Control bar



1 - Playback control bar

- ◀: Jump to the previous photo in a folder
- ▶: Jump to the next photo in a folder
- ||: Pause the slideshow playback

2 - Mark as favourites

3 - Start a slideshow

4 - Rotate the photo

5 - Shuffle: play your files in a random order

6 - Repeat: plays all photos in this folder once or continuously

7 - Stop the music playing in the background

8 - Set the speed of the slide show

Photo Options

Browse photo files...

- List/Thumbnails – List or thumbnails views
- Shuffle – Play your files in a random order
- Repeat – Play the slide show once or continuously

• Slide Show Speed – Set the speed of the slide show

Playing photo files...

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

14.7

Play your Music

About Music Menu

You can quickly find a music using classification: Genres, Artists, Albums, Tracks.

Play Music

Open photo folder

1 - Press SOURCES, select USB and press OK.

2 - Select USB Devices and press (right) to select the USB device you need.

3 - Select Music, you can press Mark favourite to add the music folder to favourite menu - Favourites.

4 - You can quickly find a music using classification - Genres, Artists, Albums, Tracks.

Play music

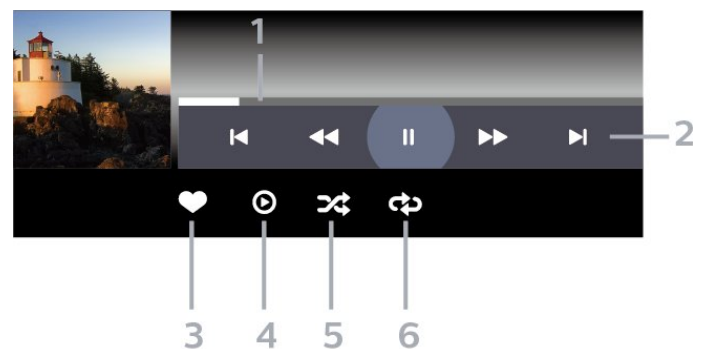
1 - Press SOURCES, select USB and press OK.

2 - Select USB Devices and press (right) to select the USB device you need.

3 - Select Music and select one of classifications to view music files.

4 - Select a music and you can press Play all to play all files in the folder or press Mark favourite to add the selected music to favourite menu - Favourites.

Control bar



1 - Progress bar

2 - Playback control bar

- ◀: Jump to the previous music in a folder

- ▶: Jump to the next music in a folder

◀◀: Rewind

▶▶: Fast forward

||: Pause the playback

3 - Mark as favourites

4 - Play all music

5 - Shuffle: play your files in a random order

6 - Repeat: plays all music in this folder once or

continuously

Music Options

Browse music files...

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

Playing music files...

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

TV Guide

15.1

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. The TV cannot collect the TV Guide information for channels viewed from a digital receiver or decoder.

15.2

TV Guide Data

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

15.3

Using the TV Guide

Open the TV Guide

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

Press **≡ TV GUIDE** again to close.

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

Tune to a Programme

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

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

View programme details

To call up the details of the selected programme...

1 - Press **i INFO**.

2 - Press **← BACK** to close.

Change Day

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

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

Set a Reminder

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

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

To set a reminder...

- 1 - Press **≡ TV GUIDE** and select an upcoming programme.
- 2 - Press the colour key **■ Set Reminder** and press **OK**.
- 3 - Press **← BACK** to close the menu.

To clear a reminder...

- 1 - Press **≡ TV GUIDE** and select a programme with the reminder.
- 2 - Press the colour key **■ Clear Reminder** and press **OK**.
- 3 - Press **← BACK** to close the menu.

Search by Genre

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

To search for programmes by genre...

- 1 - Press **≡ TV GUIDE**.
- 2 - Press **+ OPTIONS**.
- 3 - Select **Search by Genre** and press **OK**.
- 4 - Select the genre you want and press **OK**. A list with the found programmes appears.
- 5 - You can set reminders or schedule a recording on a selected programme.
- 6 - Press **← BACK** to close the menu.







For more information on Recording, press the colour key **■ Keywords** and look up **Recording**.

List of Reminders

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



List of Reminders

To open the list of reminders...




- 1 - Press  TV GUIDE.
- 2 - Press the colour key  Recordings .
- 3 - At the top of the screen, select  Scheduled and press OK.
- 4 - In the list of scheduled recordings and reminders, select the tab Reminders and press OK to view the reminders only.
- 5 - Press the colour key  Remove to remove the selected reminder. Press the colour key  Record to record the selected programme.
- 6 - Press  BACK to close the menu.

Set a Recording




You can set a recording in the TV Guide*.

To see the recording list, press  Recordings , a programme set to be recorded is marked with a  (red dot) on the front of the programme name.

To record a programme...

- 1 - Press  TV GUIDE and select a future or ongoing programme.
- 2 - Press the colour key  Record .
- 3 - Press  BACK to close the menu.

To cancel a recording...

- 1 - Press  TV GUIDE and select the programme set for recording.
- 2 - Press the colour key  Clear Recording .
- 3 - Press  BACK to close the menu.

* See chapter Recording and Pause TV for more information.

Recording and Pause TV

16.1

Recording

What You Need

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

To record a TV programme you need...

- a connected USB Hard Drive formatted on this TV
- digital TV channels installed on this TV
- to receive channel information for the on screen TV Guide
- a reliable TV clock setting. If you reset the TV clock manually, recordings may fail.

You cannot record when you are using Pause TV.

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

For more information on installing a USB Hard Drive, in **Help**, press the colour key **Keywords** and look up **USB Hard Drive, installation**.

Note:

Recording function is only for digital TV broadcast. It is not possible to record content from external devices (e.g. HDMI).

Record a Programme

Record Now

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

To stop the recording, press **Stop** (Stop).

When TV Guide data is available, the programme you are watching will be recorded from the moment you pressed the recording key until the programme ends. If no TV Guide data is available, the recording will only last 30 minutes. You can adjust the end time of the recording in the list of **Recordings**.

Schedule a Recording

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

To record a programme...

- 1 - Press **TV GUIDE**.
- 2 - On the TV Guide, select the channel and programme you wish to record. Press **Right** (right) or **Left** (left) to scroll through the programmes of a channel. Use the colour key **Day** to select the day you need.
- 3 - With the programme highlighted, press the colour key **Record**. The programme is scheduled for recording. A warning will show automatically when overlapping recordings are scheduled. If you plan to record a programme in your absence, remember to leave the TV switched to Standby and the USB Hard Drive switched on.
- 4 - The TV adds some time margin at the end of the programme. You can adjust this margin with **Auto End Margin**.
- 5 - Press **BACK** to close the menu.

List of Recordings

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

To open the list or recordings...

- 1 - Press **TV GUIDE**.
- 2 - Press the colour key **Recordings**.
- 3 - In the list of recordings, select the tabs **New**, **Watched** or **Expired** and press **OK** to filter your view.
- 4 - With a recording selected in the list, you can remove the recording with the colour key **Remove** or stop an ongoing recording with the colour key **Stop Recording**. You can rename a recording with the colour key **Rename**.
- 5 - Press **BACK** to close the menu.

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

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

Recording Conflicts

When two scheduled recordings are overlapping in time, there is a recording conflict. To solve a recording conflict, you can adjust the start and end time of one

or both scheduled recordings.

To adjust the start or end time of a scheduled recording...

- 1 - Press **TV GUIDE**.
- 2 - Press the colour key **Recordings**.
- 3 - At the top of the screen, select **Scheduled** and press **OK**.
- 4 - In the list of scheduled recordings and reminders, select the tab **Recordings** and press **OK** to view the scheduled recordings only.
- 5 - Select the scheduled recording that conflicts with another scheduled recording and press the colour key **Adjust Time**.
- 6 - Select the start or end time and change the time with the **^** (up) or **v** (down) keys. Select **Apply** and press **OK**.
- 7 - Press **← BACK** to close the menu.

Auto End Margin

You can set the time margin that the TV will add automatically at the end of each scheduled recording.

To set the automatic end time margin...

- 1 - Press **TV GUIDE**.
- 2 - Press the colour key **Recordings**.
- 3 - Press **+ OPTIONS** and select **Auto End Margin** and press **OK**.
- 4 - Press **^** (up) or **v** (down) and press **OK** to set the time margin added to a recording automatically. You can add up to 45 minutes to a recording.
- 5 - Press **← BACK** to close the menu.

Manual Recording

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

To schedule a recording manually...

- 1 - Press **TV GUIDE**.
- 2 - Press the colour key **Recordings**.
- 3 - At the top of the screen, select **Scheduled** and press **OK**.
- 4 - Press **+ OPTIONS**, select **Schedule** and press **OK**.
- 5 - Select the tuner from where you want to record and press **OK**.
- 6 - Select the channel to record from and press **OK**.
- 7 - Select the day of the recording and press **OK**.
- 8 - Set the start and end time of the recording. Select a button and use the **^** (up) or **v** (down) keys to set the hours and minutes.
- 9 - Select **Record** and press **OK** to schedule the manual recording.

The recording will appear in the list of scheduled

recordings and reminders.

Watch a Recording

To watch a recording...

- 1 - Press **TV GUIDE**.
- 2 - Press the colour key **Recordings**.
- 3 - In the list of recordings, select the recording you need and press **OK** to start watching.
- 4 - You can use the keys **||** (pause), **▶** (play), **◀◀** (rewind), **▶▶** (fast forward) or **■** (stop).
- 5 - To switch back to watch TV, press **TV EXIT**.

16.2

Pause TV

What You Need

You can pause a digital TV broadcast and resume watching it a bit later.

To pause a TV programme you need...

- a connected USB Hard Drive formatted on this TV
- digital TV channels installed on this TV
- to receive channel information for the on screen TV Guide

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

You cannot use Pause TV when you are recording.

For more information, in **Help**, press the colour key **Keywords** and look up **USB Hard Drive, installation**.

Pause a Programme

To pause and resume a broadcast...

- To pause a broadcast, press **||** (Pause). A progress bar at the bottom of the screen appears briefly.
- To call up the progress bar, press **||** (Pause) again.
- To resume watching, press **▶** (Play).

With the progress bar on screen, press **◀◀** (Rewind) or press **▶▶** (Forward) to select from where you want to start viewing the paused broadcast. Press these keys repeatedly to change speed.

You can pause a broadcast for a maximum time span of 90 minutes.

To switch back to the live TV broadcast,

press ■ (Stop).

Replay

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

To replay a current broadcast...

1 - Press || (Pause)

2 - Press ◀◀ (Rewind). You can press ◀◀ repeatedly to select from where you want to start viewing the paused broadcast. Press these keys repeatedly to change speed. At one point you will reach the start of the broadcast storage or the maximum time span.

3 - Press ▶ (Play) to watch the broadcast again.

4 - Press ■ (Stop) to watch the broadcast live.

Smartphones and Tablets

17.1

Philips TV Remote App

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

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

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

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

17.2

Google Cast

What You Need

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

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

Apps with Google Cast

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

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

Find more information on support.google.com/androidtv

Cast to Your TV

To cast an app to the TV screen...

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

17.3

AirPlay

To add the AirPlay functionality to your Android TV, you can download and install one of the several Android apps that do just that. You can find several of these apps in the Google Play Store.

17.4

MHL

This TV is MHL™ compliant.

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

Charging

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

MHL Cable

You need a passive MHL cable (HDMI to Micro USB) to connect your mobile device to the TV. You might need an extra adapter to connect to your mobile device. To connect the MHL cable to the TV use the **HDMI 1 MHL** connection.



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

Games

18.1

What You Need

On this TV, you can play games...

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

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

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

18.2

Gamepads

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





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

18.3

Play a Game




From the Home menu

To start a game from the Home menu...

- 1 - Press  HOME.
- 2 - Scroll down to  Games , select a game and press OK.
- 3 - Press  BACK repeatedly or press  EXIT or stop the app with its dedicated exit/stop button.

From a Game Console

To start a game from a Game Console...

- 1 - Switch on the Game Console.
- 2 - Press  SOURCES and select a game console or the name of the connection.
- 3 - Start the game.
- 4 - Press  BACK repeatedly or press  EXIT or stop the app with its dedicated exit/stop button.

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

Ambilight


Ambilight Style

Follow Video

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

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

To set the Ambilight Style...

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

The available **Follow Video** styles are...

- **Standard** - Ideal for day to day TV watching
- **Natural** - Follows the picture or sound as truthful as possible
- **Football** - Ideal for football games
- **Vivid** - Ideal for daylight conditions


- **Game** - Ideal for gaming
- **Comfort** - Ideal for a quiet evening
- **Relax** - Ideal for a lounge feeling

Follow Audio

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

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

To set the Ambilight Style...

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

The available **Follow Audio** styles are...

- **Lumina** - Mixes audio dynamics with video colours
- **Colora** - Based on audio dynamics
- **Retro** - Based on audio dynamics
- **Spectrum** - Based on audio dynamics
- **Scanner** - Based on audio dynamics

- **Rhythm** - Based on audio dynamics
- **Party** - A mix of all Follow Audio styles, one after the other

Follow Colour

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

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

To set the Ambilight Style...

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

The available **Follow Colour** styles are...

- **Hot Lava** - Red colour variations
- **Deep Water** - Blue colour variations
- **Fresh Nature** - Green colour variations
-  **Warm white** - Static colour
- **Cool White** - Static colour

Follow Flag

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


Follow App

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

Follow App setting is available when you control Ambilight with an app.

Ambilight Off

To switch off Ambilight...


- 1 - Press  **AMBILIGHT**.
- 2 - Select **Off** and press **OK**.
- 3 - Press **◀** (left) to go back one step or press **←** **BACK** to close the menu.

Ambilight Settings

For more information, in **Help**, press the colour key **■ Keywords** and look up **Ambilight, Settings** for more information.

Top Picks

About Top Picks

With  Top Picks your TV recommends...




- current TV programmes in **Now on TV**
- online TV services (Catch Up TV) in **TV on Demand**
- the latest rental videos in **Video on Demand**

To enjoy Top Picks, connect your TV to the Internet. Make sure you agree to the Terms of Use. The Top Picks information and services are only available in selected countries.

Terms of Use

To allow the TV to make these recommendations, you must agree to the Terms of Use. To get personalised recommendations based on your viewing habits, make sure you checked the box for **Personalized Recommendations Service Opt-In**.

To open the Terms of Use...

- 1 - Press  TOP PICKS.
- 2 - Press  OPTIONS, select **Terms of Use** and press **OK**.
- 3 - Select **Privacy Settings** and press **OK**.
- 4 - Select **Personalized Recommendations Service Opt-In** and press **OK** to check the box. Press **OK** again to uncheck.
- 5 - Press  BACK to close the menu.

Now on TV

About Now on TV


With  **Now on TV**, the TV recommends the 10 most popular programmes to watch at this moment.

The TV recommends programmes on TV now or starting within 15 minutes. The recommended programmes are selected from the channels you installed. The selection is made from channels of your country. Also, you can let **Now on TV** do some personalised recommendations for you, based on programmes you watch regularly.

To make the Now on TV information available...

- the Now on TV information must be available in your country.
- the TV must have channels installed.
- the TV must be connected to the Internet.
- the TV Clock must be set to Automatic or Country Dependent.
- you must accept the Terms of Use (You might have




accepted already when you connected to the Internet.).

The icon  will only appear at the top of the screen when Now on TV is available.

The TV does not store former recommendations.

Using Now on TV

To open Now on TV...


- 1 - Press  TOP PICKS to open the Top Picks menu.
- 2 - Select  **Now on TV** at the top of the screen and press **OK**.
- 3 - Press  BACK to close.

When you open **Now on TV**, the TV may need a few seconds to refresh the page information.

In Now on TV you can...


- select and press **OK** on a programme icon to tune to the ongoing programme.
- select and press **OK** on a scheduled programme icon to tune to the channel already.

You can use the colour keys on the remote control to start, stop or clear a scheduled recording. You can also set or remove a reminder that warns you when a programme starts.


To leave Now on TV without tuning to another channel, press  BACK.

TV on Demand

About TV on Demand





With  **TV on Demand**, you can watch TV programmes you missed or watch your favourite programmes whenever it suits you best. This service is also called Catch Up TV, Replay TV or Online TV. Programmes available on TV on Demand are free to watch.

You can let TV on Demand do some personalised recommendations of programmes, based on the TV installation and the programmes you watch regularly.



The icon  will only appear at the top of the screen when TV on Demand is available.

Using TV on Demand

To open TV on Demand...

- 1 - Press  TOP PICKS to open the Top Picks menu.
- 2 - Select  TV on Demand at the top of the screen and press OK.
- 3 - Press  (down) to open the page full screen.
- 4 - You can select a specific broadcaster if more than one is available.
- 5 - Select a programme icon and press OK to start watching.
- 6 - Press  BACK to close.

When you open TV on Demand, the TV may need a few seconds to refresh the page information.

Once a programme started, you can use the  (Play) and  (Pause) keys.

20.4

Video on Demand

About Video on Demand

With  Video on Demand , you can rent movies from an online rental video store.

You can let Video on Demand do some personalised recommendations of movies, based on your country, the TV installation and the programmes you watch regularly.

The icon  will only appear at the top of the screen when Video on Demand is available.

Payment




When you rent or buy a movie, you can pay the video store securely with your credit card. Most video stores ask you to create a login account the first time you rent a movie.

Internet Traffic

Streaming a lot of videos may cause you to exceed your monthly Internet traffic limit.

Using Video on Demand



To open Video on Demand...

- 1 - Press  TOP PICKS to open the Top Picks menu.
- 2 - Select  Video on Demand at the top of the screen and press OK.
- 3 - Use the navigation keys to select a movie poster.
- 4 - Press  BACK to close.

When you open Video on Demand, the TV may need a few seconds to refresh the page information.

You can select a specific video store if more than one is available.

To rent a movie...

- 1 - Navigate the highlight on a movie poster. Limited info will show after some seconds.
- 2 - Press OK to open the movie page of the video store for a synopsis of the movie.
- 3 - Confirm your order.
- 4 - Make the payment on TV.
- 5 - Start watching. You can use the  (Play) and  (Pause) keys.

Home Menu

About the Home Menu

To enjoy the benefits of your Android TV, connect the TV to the Internet.

Like on your Android smartphone or tablet, the Home menu is the centre of your TV. From the Home menu you can start any application, switch to a TV channel, rent a movie, open a website or switch to a connected device. Depending on your TV setup and your country the Home menu can contain different items.

The Home menu is organised in rows...

Recommendations

The first row suggests popular videos, music videos or Internet hits. You can set the Privacy settings in Terms of Use to allow suggestions based on your personal viewing habits.

Philips Collection

This row contains suggestions from Apps.


Apps

The row of Apps contain all Apps that come with the TV and the Apps you download from the Google Play store yourself. In this row you will also find the Apps for TV, like **Watch TV**, **Sources**, **Media** and others. Apps you started recently will appear in front of the row.

Games

From here, you can start a game on TV. If you download a game, it will appear in this row.



Settings

From here, you can open a selection of settings. However, to find all settings, press  and select **All Settings**. You can also open **Help** here.

See also www.support.google.com/androidtv

Open the Home Menu

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

- 1 - Press  HOME.
- 2 - Select an item and press **OK** to open or start it.
- 3 - Press  **BACK** to close the Home menu without starting anything.

Restricted Profile

You can restrict the use of certain apps by switching the TV to a restricted profile. This restricted profile will only allow the use of apps which you have selected. You can only switch out of this profile with a PIN code.

With the TV switched to a restricted profile you cannot...

- Find or open apps which are marked as Not allowed
- Access the Google Play Store
- Purchase through Google Play Movies & TV, nor Google Play Games
- Use third-party apps that don't use the Google sign-in

With the TV switched to a restricted profile you can...

- Watch content already rented or purchased from Google Play Movies & TV
- Play games already purchased and installed from Google Play Games
- Access the following settings: Wi-Fi network, Speech and Accessibility
- Add Bluetooth accessories

The Google Account on TV will stay logged in. Using a restricted profile doesn't change the Google Account.

Netflix

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

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

www.netflix.com

Software

23.1

Update Software

Update from Internet

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

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

You can also look for a software update yourself.

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

To look for a software update yourself...

- 1 - Press **⚙️**, select **All Settings** and press **OK**.
- 2 - Select **Update Software > Search for Updates** and press **OK**.
- 3 - Select **Internet** and press **OK**.
- 4 - The TV will look for an update on the Internet.
- 5 - If an update is available, you can update the software right away.
- 6 - A software update can take several minutes. Do not press the **⏻** key on the TV or remote control.
- 7 - When the update is done, the TV will return to the channel you were watching.

Update from USB

It might be necessary to update the TV software.

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

To update the TV software...

- 1 - Press **⚙️**, select **All Settings** and press **OK**.
- 2 - Select **Update Software > Search for Updates** and press **OK**.
- 3 - Select **USB** and press **OK**.

Identify the TV

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

identification file is written on the USB flash drive.

Download the software

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

Update the TV software

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

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

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

23.2

Software Version

To view the current TV software version...

- 1 - Press **⚙️**, select **All Settings** and press **OK**.
- 2 - Select **Update Software > Current Software Info** and press **OK**.
- 3 - The version, release notes and creation date are shown. Also, the Netflix ESN Number is shown if available.
- 4 - Press **⬅️** (left) repeatedly if necessary, to close the menu.

23.3

Automatic Software Update

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

- 1 - Press **⚙️**, select **All Settings** and press **OK**.
- 2 - Select **Update Software > Automatic Software Update** and press **OK**.
- 3 - Follow the on-screen instruction.
- 4 - Press **⬅️** (left) repeatedly if necessary, to close the menu.

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

scheduled).

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

23.4

Open Source Software

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

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

open.source@tpvision.com

23.5

Open Source License

About Open Source License

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

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

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23.6

Announcements

You can receive an announcement on new TV software available for download or other software related issues.

To read these announcements...

1 - Press , select **All Settings** and press **OK**.

2 - Select **Update**

Software > Announcements, and press **OK**.

3 - If there is an announcement, you can read it or select one of the announcements available.

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

Specifications

24.1

Environmental

End of Use

Disposal of your old product and batteries

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



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



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

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

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



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

24.2

Power

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

Power

- Mains power : AC 110–240V +/-10%
- Ambient temperature : 5°C to 35°C
- Power saving features : Eco mode, Picture mute (for radio), Auto switch-off timer, Eco settings menu.

24.3

Operating System

Android OS :

Android Nougat 7

24.4

Reception

- Aerial input : 75 ohm coaxial (F-type)
- Tuner bands : Hyperband, UHF, VHF
- ISDBT
- Analogue video playback : SECAM, PAL
- Digital video playback : MPEG2 SD/HD (ISO/IEC 13818-2), MPEG4 SD/HD (ISO/IEC 14496-10)
- Digital audio playback (ISO/IEC 13818-3)

24.5

Display Type

Diagonal screen size

- 139 cm / 55 inch
- 164 cm / 65 inch

Display resolution

- 3840 x 2160

24.6

Display Input Resolution

Video formats

Resolution — Refresh rate

- 480i – 60 Hz
- 480p – 60 Hz
- 576i – 50 Hz
- 576p – 50 Hz
- 720p – 50 Hz, 60 Hz
- 1080i – 50 Hz, 60 Hz
- 1080p – 24 Hz, 25 Hz, 30 Hz
- 2160p – 24 Hz, 25 Hz, 30 Hz, 50 Hz, 60 Hz

Computer formats

Resolutions (amongst others)

- 640 x 480p – 60 Hz
- 800 x 600p – 60 Hz
- 1024 x 768p – 60 Hz
- 1280 x 768p – 60 Hz
- 1360 x 765p – 60 Hz

- 1360 x 768p – 60 Hz
- 1280 x 1024p – 60 Hz
- 1920 x 1080p – 60 Hz
- 3840 x 2160p – 24 Hz, 25 Hz, 30 Hz, 50 Hz, 60 Hz

24.7

Connectivity

TV Side

- USB 1 – USB 2.0
- USB 2 – USB 3.0
- Headphones – Stereo mini-jack 3.5mm
- HDMI 1 in – ARC – MHL – Ultra HD – HDR
- HDMI 2 in – ARC – Ultra HD – HDR

TV Bottom

- SPDIF: Digital Audio out – Optical
- Network LAN – RJ45
- YPbPr, L/R
- HDMI 4 in – ARC
- HDMI 3 in – ARC
- Antenna (75 ohm)

24.8

Dimensions and Weights

55PUG8513

- without TV stand:
Width 1234.8 mm – Height 741.3 mm – Depth 38.2 mm
– Weight ± 20.7 kg
- with TV stand:
Width 1234.8 mm – Height 787.0 mm – Depth 251.6 mm
– Weight ± 23.1 kg

65PUG8513

- without TV stand:
Width 1455.1 mm – Height 865.4 mm – Depth 40.2 mm
– Weight ± 29.7 kg
- with TV stand:
Width 1455.1 mm – Height 918.0 mm – Depth 304.6 mm
– Weight ± 33.5 kg

24.9

Sound

- Output power (RMS) : 45W
- Dolby Audio
- DTS-HD Premium Sound™

24.10

Multimedia

Connections

- USB 2.0 / USB 3.0
- Ethernet LAN RJ-45
- Wi-Fi 802.11a/b/g/n/ac (built-in)
- BT 4.2 (* Your TV doesn't support Bluetooth subwoofer/speakers/headphones)

Supported USB file systems

- FAT 16, FAT 32, NTFS

Playback formats

- Video Codecs : AVI, MKV, H264/MPEG-4 AVC, MPEG-1, MPEG-2, MPEG-4, VP9
- Audio Codecs : AAC, MP3, WAV, WMA (v2 up to v9.2), WMA-PRO (v9 and v10)
- Subtitles :
 - Formats : SRT, SUB, TXT, SMI
- Image Codecs : JPEG, GIF, PNG, BMP
- Limitations :
 - Maximum supported total bit rate for a media file is 30Mbps.
 - Maximum supported video bit rate for a media file is 20Mbps.
 - MPEG-4 AVC (H.264) is supported up to High Profile @ L5.1.
 - H.265 (HEVC) is supported upto Main / Main 10 Profile up to Level 5.1

Supported media server software (DMS)

- You can use any DLNA V1.5 certified media server software (DMS class).
- You can use the Philips TV Remote app (iOS and Android) on mobile devices.

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

Help and Support

25.1

Register your TV

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



Go to www.philips.com/welcome

25.2


Using Help


This TV offers help on screen .

Open Help

Press the  key (blue) to open Help immediately. Help will open on the chapter that is most relevant to what you are doing or what is selected on TV. To look up topics alphabetically, press the colour key  **Keywords**.

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

You can also open  **Help** in the Home menu or TV menu.



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

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

TV Help on your tablet, smartphone or computer

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

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

 (TV menu) >  **Help**

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

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

- **Check the TV** – You can check if the picture, sound, Ambilight are working fine.

- **Check the network** – Check the network connection.
- **Update software** – Check available software updates.
- **User manual** – Read the user manual for TV information.
- **Troubleshooting** – Find a solution for frequent ask questions.
- **Factory settings** – Reset all settings to factory settings.
- **Reinstall TV** – Reinstall and redo the complete TV installation.
- **Contact info** – Show the telephone number or web address for your country or region.

25.3

Troubleshooting

Switch On and Remote Control

The TV does not switch on

- Disconnect the power cable from the power outlet. Wait for one minute then reconnect it.
- Make sure that the power cable is securely connected.

Creaking sound at startup or switch off

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

TV does not respond to the remote control

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

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

When the TV is in standby, a Philips startup screen is displayed, then the TV returns to standby mode. This is normal behaviour. When the TV is disconnected and reconnected to the power supply, the startup screen is displayed at the next startup. To switch on

the TV from standby, press **⏻** on the remote control or on the TV.

The standby light keeps on blinking

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

Channels

Previously installed channels are not in the channel list

Make sure that the correct channel list is selected.

Picture

No picture / distorted picture

- Make sure that the antenna is properly connected to the TV.
- Make sure that the correct device is selected as the display source.
- Make sure that the external device or source is properly connected.

Sound but no picture

- Make sure that the picture settings are set correctly.

Poor antenna reception

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

Poor picture from a device

- Make sure that the device is connected properly.
- Make sure that the picture settings are set correctly.

Picture settings change after a while

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

A commercial banner appears

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

Picture does not fit the screen

Change to a different picture format.

Picture position is incorrect

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

Computer picture is not stable

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

Sound

No sound or poor sound quality

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

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

HDMI and USB

HDMI

- Note that HDCP (High-bandwidth Digital Content Protection) support can delay the time taken for a TV to display content from an HDMI device.
- If the TV does not recognise the HDMI device and no picture is displayed, switch the source from one device to another and back again.
- If the picture and sound of a device connected to **HDMI 3** or **HDMI 4** is distorted, connect the device to **HDMI 1** or **HDMI 2** on this TV.
- If the picture and sound of a device connected with HDMI is distorted, check if a different **HDMI Ultra HD** setting can solve this problem. In Help, press the colour key **■ Keywords** and look up **HDMI Ultra HD**.
- If there are intermittent sound disruptions, make sure that output settings from the HDMI device are correct.
- If you use an HDMI-to-DVI adapter or HDMI-to-DVI cable, make sure that an additional audio cable is connected to AUDIO IN (mini-jack only), if available.

HDMI EasyLink does not work

- Make sure that your HDMI devices are HDMI-CEC compatible. EasyLink features only work with devices that are HDMI-CEC compatible.

No volume icon shown

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

Photos, videos and music from a USB device do not

show

- Make sure that the USB storage device is set to Mass Storage Class compliant, as described in the storage device's documentation.
- Make sure that the USB storage device is compatible with the TV.
- Make sure that the audio and picture file formats are supported by the TV.

Choppy playback of USB files

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

Network

Wi-Fi network not found or distorted

- Microwave ovens, DECT phones or other Wi-Fi 802.11b/g/n devices in your proximity might disturb the wireless network.
- Make sure that the firewalls in your network allow access to the TV's wireless connection.
- If the wireless network does not work properly in your home, try the wired network installation.

Internet does not work

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

The PC and Internet connection are slow

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






DHCP

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

Wrong Menu Language

Wrong menu language

Change the language back to your language.

- 1 - Press  (the round key above the OK key).
- 2 - Select the  icon (Settings) and press OK.
- 3 - Press 5 times  (down).
- 4 - Press 3 times  (right), select your language and press OK.
- 5 - Press  BACK to close the menu.

25.4

Online Help

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

Go to www.philips.com/TVsupport .

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

25.5

Support and Repair

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

Find the telephone number in the printed documentation that came with the TV.

Or consult our website www.philips.com/TVsupport and select your country if needed.

TV model number and serial number

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

Warning

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

Safety and Care

26.1

Safety

Important

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

Risk of Electric Shock or Fire

- Never expose the TV to rain or water. Never place liquid containers, such as vases, near the TV. If liquids are spilt on or into the TV, disconnect the TV from the power outlet immediately. Contact Philips TV Consumer Care to have the TV checked before use.
- Never expose the TV, remote control or batteries to excessive heat. Never place them near burning candles, naked flames or other heat sources, including direct sunlight.
- Never insert objects into the ventilation slots or other openings on the TV.
- Never place heavy objects on the power cord.
- Avoid force coming onto power plugs. Loose power plugs can cause arcing or fire. Ensure that no strain is exerted on the power cord when you swivel the TV screen.
- To disconnect the TV from the mains power, the power plug of the TV must be disconnected. When disconnecting the power, always pull the power plug, never the cord. Ensure that you have full access to the power plug, power cord and outlet socket at all times.

Risk of Injury or Damage to the TV

- Two people are required to lift and carry a TV that weighs more than 25 kg or 55 lbs.
- If you mount the TV on a stand, only use the supplied stand. Secure the stand to the TV tightly. Place the TV on a flat, level surface that can support the weight of the TV and the stand.
- When wall mounted, ensure that the wall mount can safely bear the weight of the TV set. TP Vision bears no responsibility for improper wall mounting that results in accident, injury or damage.
- Parts of this product are made of glass. Handle with care to avoid injury or damage.

Risk of damage to the TV !

Before you connect the TV to the power outlet,

ensure that the power voltage matches the value printed on the back of the TV. Never connect the TV to the power outlet if the voltage is different.

Risk of Injury to Children

Follow these precautions to prevent the TV from toppling over and causing injury to children:

- Never place the TV on a surface covered by a cloth or other material that can be pulled away.
- Ensure that no part of the TV hangs over the edge of the mounting surface.
- Never place the TV on tall furniture, such as a bookcase, without anchoring both the furniture and TV to the wall or a suitable support.
- Teach children about the dangers of climbing on furniture to reach the TV.

Risk of swallowing batteries !

The remote control may contain coin-type batteries which can easily be swallowed by small children. Keep these batteries out of reach of children at all times.

Risk of Overheating

Never install the TV in a confined space. Always leave a space of at least 10 cm or 4 inches around the TV for ventilation. Ensure curtains or other objects never cover the ventilation slots on the TV.

Lightning Storms

Disconnect the TV from the power outlet and antenna before lightning storms. During lightning storms, never touch any part of the TV, power cord or antenna cable.

Risk of Hearing Damage

Avoid using earphones or headphones at high volumes or for prolonged periods of time.

Low Temperatures

If the TV is transported in temperatures below 5°C or 41°F, unpack the TV and wait until the TV temperature reaches room temperature before connecting the TV to the power outlet.

Humidity

In rare occasions, depending on temperature and humidity, minor condensation can occur on the inside of the TV glass front (on some models). To prevent this, do not expose the TV to direct sunlight, heat or extreme humidity. If condensation occurs, it will disappear spontaneously while the TV is playing for a few hours.

The condensation moisture will not harm the TV or cause malfunction.

26.2

Screen Care

- Never touch, push, rub or strike the screen with any object.
- Unplug the TV before cleaning.
- Clean the TV and frame with a soft damp cloth and wipe gently. Avoid touching the Ambilight LEDs on the backside of the TV. Never use substances such as alcohol, chemicals or household cleaners on the TV.
- To avoid deformations and colour fading, wipe off water drops as quickly as possible.
- Avoid stationary images as much as possible.

Stationary images are images that remain onscreen for extended periods of time. Stationary images include onscreen menus, black bars, time displays, etc. If you must use stationary images, reduce screen contrast and brightness to avoid screen damage.

Terms of Use

27.1

Terms of Use – TV

2018 © TP Vision Europe B.V. All rights reserved.

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/support 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/support and select your country if needed. Any operation expressly prohibited in this manual, or any adjustments and assembly procedures not recommended or authorised in this manual, shall void the warranty.

Pixel characteristics

This TV product has a high number of colour pixels. Although it has effective pixels of 99.999% or more,

black dots or bright points of light (red, green or blue) may appear constantly on the screen. This is a structural property of the display (within common industry standards) and is not a malfunction.



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

27.2

Terms of Use – Smart TV

You can see the terms of use, privacy policy, and also set privacy settings of your Smart TV.

To open the terms of use of Smart TV page...

- 1 - Press  HOME to open the Home menu.
- 2 - Select  Apps to open Apps.

27.3

Terms of Use – Philips App Gallery

In Help, press the colour key  Keywords and look up Terms of Use, App Gallery for more information.

Copyrights

28.1

MHL

MHL

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



28.2

HDMI

HDMI

The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.



28.3

Dolby Audio

Manufactured under license from Dolby Laboratories. Dolby, Dolby Audio, and the double-D symbol are trademarks of Dolby Laboratories.



28.4

DTS-HD Premium Sound™

DTS-HD Premium Sound™

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28.5

DTV_i

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28.6

Wi-Fi Alliance

Wi-Fi

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28.7

Kensington

Kensington

(If applicable)

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