

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

7555 series

User Manual

43PUS7555
50PUS7555
58PUS7555
70PUS7555

PHILIPS

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Get Support

Identify and Register your TV

Identify your TV - TV model number and serial number

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

Register your TV

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

Go to www.philips.com/TVsupport

TV Help and User Manual

🏠 (Home) > Settings > Help

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

- TV information - View the Model name, Serial number and Software version of your TV.
- How to - You can see instructions on how to install channels, sort channels*, update TV software, connect external devices and use Smart functions on your TV.
- Check the TV - You can check if the picture, sound, Ambilight** are working fine during playing a short video clip.
- Check the network - Check the network connection.
- Check the remote control - Perform the test to verify the TV bundled remote control functionality.
- View weak signal history - Display the list of channel numbers that were automatically saved when signal strength was weak.
- 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.

* Sorting channels is only applicable for certain countries.

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

On-line Help and User Manual

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

Go to www.philips.com/TVsupport.

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

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

Consumer Care / Repair

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

Find the telephone number in the printed documentation that came with the TV.

Or consult our website www.philips.com/TVsupport and select your country if needed.

TV model number and serial number

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

⚠ Warning

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

Software


Update Software

Search for Updates

Update from Internet

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

Look for a software update yourself.

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


Update from USB

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

- You need a computer with an high-speed Internet connection and a USB memory device to upload the software on the TV.
 - Use a USB memory device with 512MB free space. Make sure that write protection is switched off.
- 1 - **Start the update on TV**
Select **Update software** > **Search for updates** > **USB**, then press **OK**.
 - 2 - **Identify the TV**
Insert the USB memory into one of the USB connections of the TV.
Select **Start** and press **OK**. An identification file is written on the USB memory device.
 - 3 - **Download the TV software**
 - Insert the USB memory into your computer.
 - On the USB memory device, locate the file **update.html** and double click it.
 - Click on **Send ID**.
 - If new software is available, download the .zip file.
 - After the download, unzip the file and copy the file **autorun.upg** onto the USB memory device.
 - Do not place this file in a folder.
 - 4 - **Update the TV software**
Insert the USB memory into the TV again. The update starts automatically.
The TV switches itself off for 10 seconds and then

back on again. Please wait.

Do not . . .

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

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

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

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

Local Updates

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

For dealers and expert users.

Software Version

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

To view the current TV software version.

Automatic Software Update

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

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

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

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

View Software Update History

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

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

Quick Guide

Remote Control

Batteries and Cleaning

Replace batteries

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

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

- 1 - Slide the battery door in the direction shown by the arrow.
- 2 - Replace the old batteries with 2 type **AAA-R03-1.5V** batteries. Make sure the + and the - ends of the batteries line up correctly.



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

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

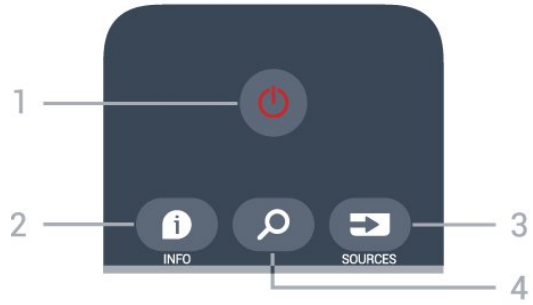
Cleaning

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

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

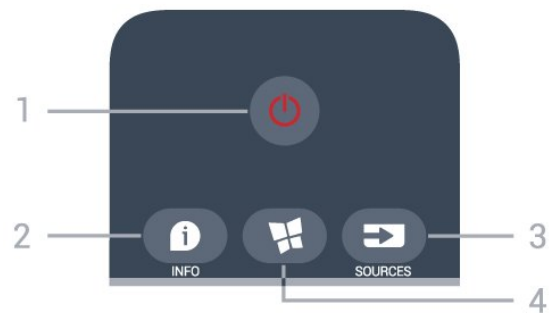
Key Overview

Top



- 1 - **Standby / On**
To switch the TV on or back to Standby.
- 2 - **INFO**
To open or close programme info.
- 3 - **SOURCES**
To open the Sources menu.
- 4 - **Search**
To open the Smart TV searches page.

Top (for UK models)



- 1 - **Standby / On**
To switch the TV on or back to Standby.
- 2 - **INFO**
To open or close programme info.
- 3 - **SOURCES**
To open the Sources menu.
- 4 - **SMART TV**
To open the Smart TV start page.

Middle



1 - OK key
To confirm a selection or setting. To open the channel list while watching TV if Interactive Service is not available.

2 - ← BACK
To close a menu without changing a setting.

3 - Playback and Record
 • Play ▶, to playback.
 • Pause II, to pause playback.
 • Stop ■, to stop playback.
 • Rewind ◀◀, to rewind.
 • Fast forward ▶▶, to go fast forward.
 • Record ●, this function is not supported.

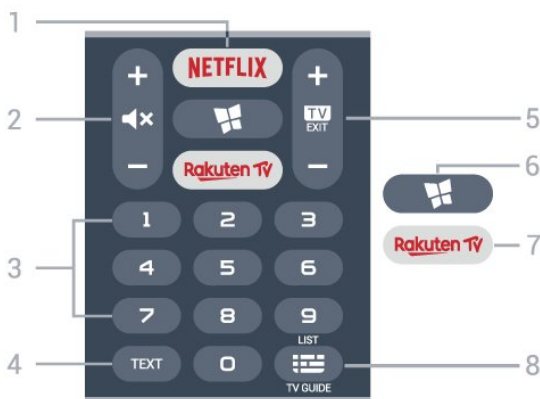
4 - Colour keys
Direct selection of options. Blue key —, opens Help.

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

6 - Home
To open the Home menu.

7 - Options
To open or close the Options menu.

Bottom



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

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

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

2 - Mute / Volume
Press in middle to mute the sound or to restore it. Prese + or - to adjust the volume level.

3 - Number keys
To select a channel directly.

4 - TEXT
To open or close Text/Teletext.

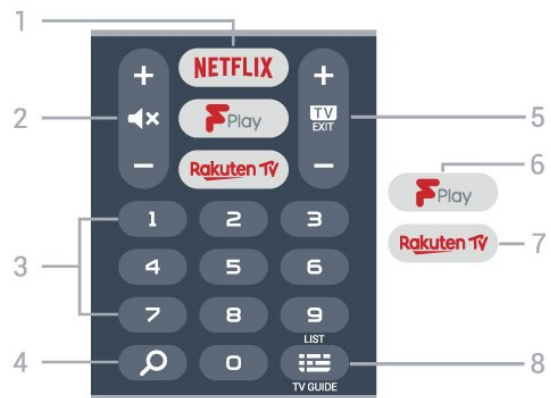
5 - TV - EXIT
Press in middle to switch back to watch TV. To stop an interactive TV application. Prese + or - to switch to the next or previous channel in the channel list. To open the next or previous page in Text/Teletext.

6 - SMART TV
To open the Smart TV start page.

7 - Rakuten TV
To open the Rakuten TV App directly.

8 - TV Guide / Channel list
To open or close the TV Guide. Long press to open the channel list.

Bottom (for UK models)



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

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

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

2 - Mute / Volume
Press in middle to mute the sound or to restore it.

Press + or - to adjust the volume level.

3 - Number keys

To select a channel directly.

4 -  Search

Search key for Smart TV and Freeview Play.

5 -  - EXIT

Press in middle to switch back to watch TV. To stop an interactive TV application. Press + or - to switch to the next or previous channel in the channel list. To open the next or previous page in Text/Teletext.

6 - Freeview Play

To open the Explore Freeview Play page.

7 - 

To open the Rakuten TV App directly.

8 -  TV Guide / Channel list

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

3.2

IR sensor

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



Warning

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

3.3

Joystick - Local Control





Keys on TV

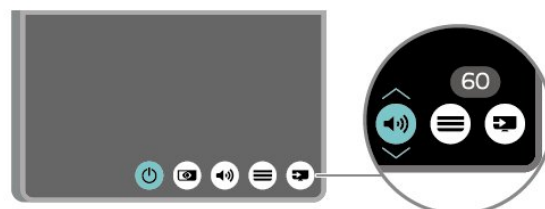
If you lost the remote control or its batteries are empty, you can still do some basic TV operations.

To open the basic menu...



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

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



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

The menu will disappear automatically.

Setting Up

4.1

Read Safety

Read the safety instructions first before you use the TV.

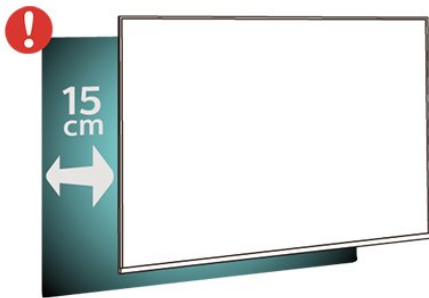
To read the instructions, in **Help > User manual**, press the colour key **— Keywords** and look up **Safety and Care**.

4.2

TV Placement

Tips on Placement

- Position the TV where light does not shine directly on the screen.
- Position the TV up to 15 cm away from the wall.
- The ideal distance to watch Ultra HD TV is 2 to 5 times of its screen height. When seated, your eyes should be level with the centre of the screen.



Note:

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

TV Stand

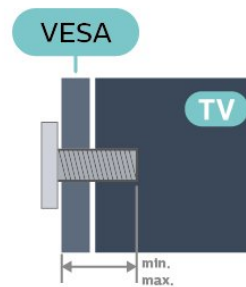
You can find the instructions for mounting the TV stand in the Quick Start Guide that came with the TV. In case you lost this guide, you can download it from www.philips.com/TVsupport.

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

Wall Mounting

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

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



- 43PUS75x5
VESA MIS-F 200x200, M6 (Minimum 12 mm, Maximum 16 mm)
- 50PUS75x5
VESA MIS-F 200x200, M6 (Minimum 12 mm, Maximum 18 mm)
- 58PUS75x5
VESA MIS-F 300x200, M6 (Minimum 18 mm, Maximum 22 mm)
- 70PUS75x5
VESA MIS-F 400x200, M8 (Minimum 18 mm, Maximum 23 mm)

Preparation

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.

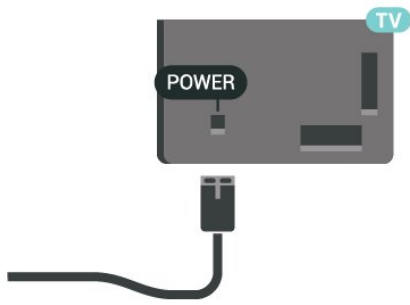
TP Vision Europe B.V. bears no responsibility for improper mounting or any mounting that results in accident or injury.

4.3

Turn on TV

Connect Power Cable

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



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

On or Standby


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

Switch On

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



Switch to standby

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

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

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

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

Connections

5.1

Connectivity guide

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

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

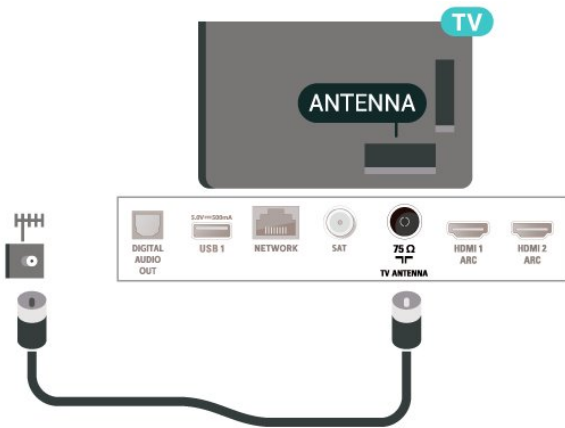
5.2

Antenna

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

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

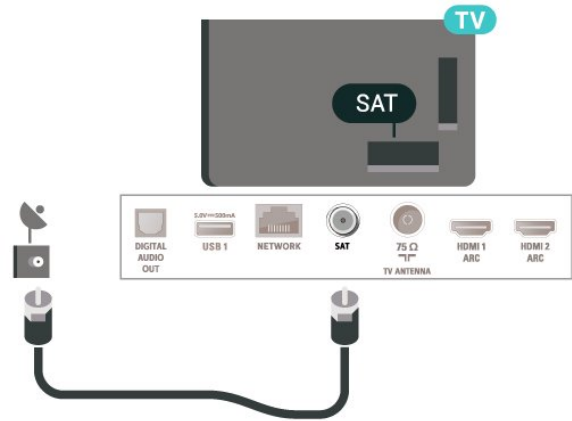
Use this antenna connection for DVB-T and DVB-C input signals.



5.3

Satellite

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



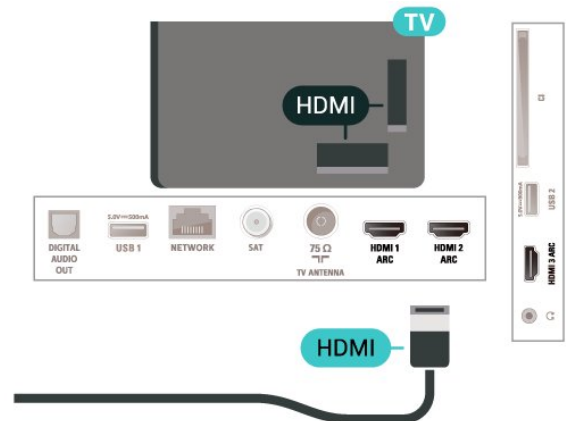
5.4

Video Device

HDMI

An HDMI connection has the best picture and sound quality.

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



Copy protection

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

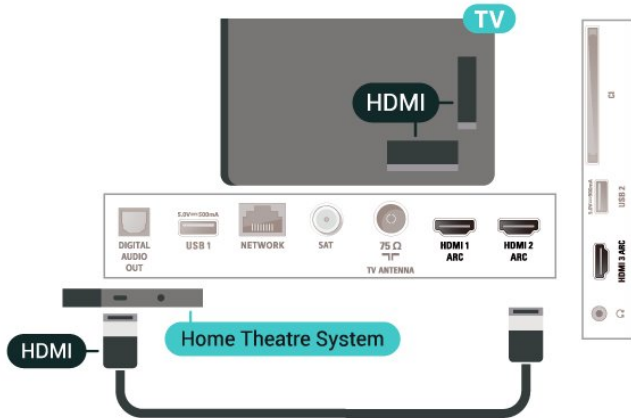
5.5

Audio Device

HDMI ARC

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

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




Digital Audio Out - Optical

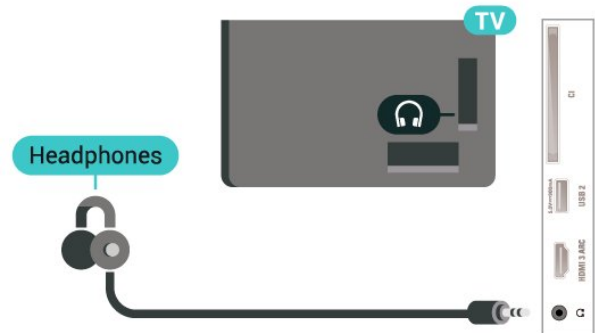
Audio Out - Optical is a high quality sound connection.

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



Headphones

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



5.6

Mobile Device

Screen Mirroring

About Screen Mirroring

You can view your photos or play your music and videos from a mobile device on your TV with Screen Mirroring. The mobile device and the TV should be within range, which usually means being in the same room.

Using Screen Mirroring

Switch on Screen Mirroring

Press  SOURCES > Screen Mirroring

Share a Screen on TV

- 1 - Activate Screen mirroring on your mobile device.
- 2 - On your mobile device, select the TV. (This TV will be displayed as TV model name)
- 3 - Select the TV name on your mobile device, after connection, you can enjoy using Screen Mirroring.

Stop Sharing

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

From the device

With the application you use to start Screen Mirroring,

you can disconnect and stop watching the screen of the device on TV. The TV will switch back to the last selected programme.

From the TV

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

- press **EXIT** to watch a TV broadcast
- press **Home** to start another activity on TV
- press **SOURCES** to open the Sources menu and select a connected device.

Block a Device

The first time you receive a request to connect from a device, you can block the device. The request from this device and all its requests in the future, will be ignored.

To block a device...

Select **Block...** and press **OK**.

Unblock all devices

All previously connected and also blocked devices are stored in the Screen Mirroring list of connections. If you clear this list, all blocked devices will be unblocked.

To unblock all blocked devices...

Home > **Settings** > **All settings** > **Wireless and networks** > **Wired or Wi-Fi** > **Reset Screen Mirroring connections**.

Blocking a previously connected device

If you want to block a device that you previously connected, you need to clear the Screen Mirroring connections list first. If you clear this list, you will have to confirm or block the connection for every device again.

Reset Screen Mirroring connections

All previously connected devices are stored in the Screen Mirroring list of connections.

To clear all connected Screen Mirroring devices...

Home > **Settings** > **All settings** > **Wireless and networks** > **Wired or Wi-Fi** > **Reset Screen Mirroring connections**.

Screen Delay

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

Apps - Philips TV Remote App

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.

* When use your phone as a remote control, TV cannot be switched on or off via your phone.

5.7

Other Device

CAM with Smart Card - CI+

About CI+

This TV is ready for the CI+ Conditional Access.

With CI+ you can watch premium HD programmes, like movies and sports, offered by digital TV operators in your region. These programmes are scrambled by the TV operator and descrambled with a prepaid CI+ module.

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

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



Smart Card

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

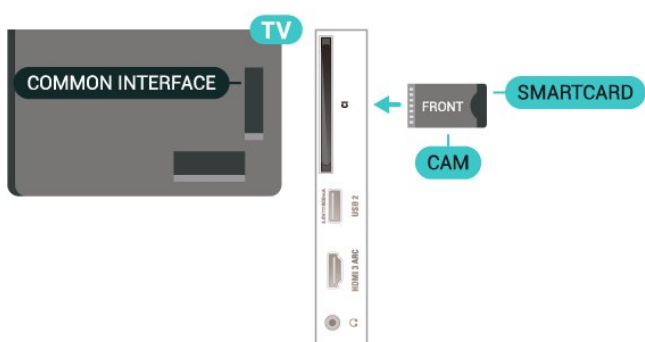
Insert the smart card into the CAM module. See the instruction you received from the operator.

To insert the CAM in the TV...

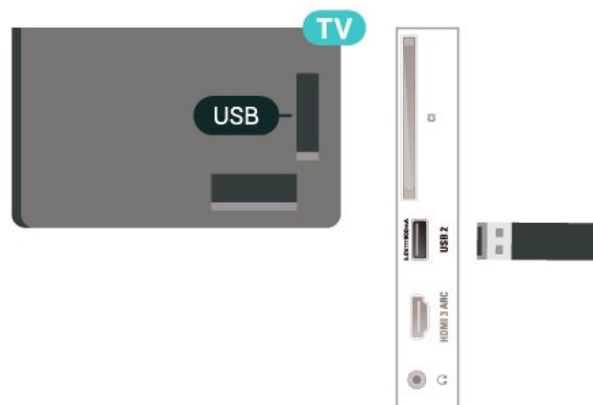
1. Look on the CAM for the correct method of insertion. Incorrect insertion can damage the CAM and TV.
2. While looking at the back of the TV, with the front of the CAM facing towards you, gently insert the CAM into the slot **COMMON INTERFACE**.
3. Push the CAM in as far as it will go. Leave it in the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

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

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



press **SOURCES** and select **USB**.



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

USB Hard Drive

Set Passwords and PIN Codes

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

To set the PIN code for the CAM...

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

USB 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,

Switch Source

6.1

Source List

- To open the sources menu, press **SOURCES**.
- To switch to a connected device, select the device with the arrows **▶** (Right) or **◀** (Left) and press **OK**.
- To view the technical information of the connected device you are watching, press **≡** **OPTIONS** and select **Device info**.
- To close the source menu without switching to a device, press **SOURCES** again.

6.2

Rename Device

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

- 1 - Select one of the device icons and press **OK**, the preset name appears in the typing field.
- 2 - Press **▲** (up) to move to the typing field, press **OK**, then enter new name using on-screen keyboard.
 - Press **⬇** (red) key to enter with lower-case
 - Press **⬆** (green) key to enter with upper-case
 - Press **⬇** (yellow) key to enter number and symbol
 - Press **⬇** (blue) key to delete a character
- 3 - Select **Enter** when complete the editing.

Channels

7.1

About Channels and Switch Channels

To watch TV channels

- Press **TV**. The TV tunes to the TV channel you last watched.
- Press **Home** > **TV** > **Channels** and press **OK**.
- Press **TV+** or **TV-** to switch channels.
- If you know the channel number, type in the number with the number keys. Press **OK** after you entered the number to switch channels.
- To switch back to the previously tuned channel, press **BACK**.

To switch to a channel from a channel list

- While watching a TV channel, press **OK** to open the channel lists.
- The channel list can have several pages with channels. To view the next or previous page, press **TV+** or **TV-**.
- To close the channel lists without switching channels, press **BACK** or **TV EXIT**.

Channel icons

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

Radio channels

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

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

7.2

Install Channel

Antenna and Cable

Manually Search for Channels and Channel Settings

Search for Channels

Update channels

Home > **Settings** > **Install Channels** > **Antenna/cable installation** > **Search**

for channels

- 1 - Select **Start now** and press **OK**.
- 2 - Select **Update channels** to only add new digital channels.
- 3 - Select **Start** and press **OK** to update channels. This can take a few minutes.

Quick reinstall

Home > **Settings** > **Install Channels** > **Antenna/cable installation** > **Search for channels**

- 1 - Select **Start now** and press **OK**.
- 2 - Select **Quick reinstall** to install all channels again with default settings.
- 3 - Select **Start** and press **OK** to update channels. This can take a few minutes.

Advanced reinstall

Home > **Settings** > **Install Channels** > **Antenna/cable installation** > **Search for channels**

- 1 - Select **Start now** and press **OK**.
- 2 - Select **Advanced reinstall** to do a full re-installation which takes you through each step.
- 3 - Select **Start** and press **OK** to update channels. This can take a few minutes.

Channel Settings

Home > **Settings** > **Install Channels** > **Antenna/cable installation** > **Search for channels** > **Advanced reinstall**

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

Frequency scan

Select the method of searching for channels.

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

frequency value to search for channels, select **Advanced**.

Frequency step size

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

Network frequency mode

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

Network frequency

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

Network ID

Enter the network ID supplied by your cable provider.

Symbol rate mode

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

Symbol rate

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

Free / Scrambled

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

Automatically Search for Channels

🏠 (Home) > Settings > Install Channels > Antenna/cable installation > Automatic channel update

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

Alternatively, you can start a channel update yourself.

Automatic channel update

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

the All channels list but also in the New channels list. Empty channels are removed.

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

Channel Update Message

🏠 (Home) > Settings > Install Channels > Antenna/cable installation > Channel update message

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

Digital: Reception Test

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

The digital frequency is shown for this channel. If the reception is poor, you can reposition your antenna. To check the signal quality of this frequency again, select **Search** and press **OK**.

To enter a specific digital frequency yourself, use the remote control digit keys. Alternatively, select the frequency, position the arrows on a number with **←** and **→** and change the number with **▲** and **▼**. To check the frequency, select **Search** and press **OK**.

Analogue: Manual Installation

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

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

• System

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

• Search Channel

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

· Fine tune

To fine tune a channel, select **Fine tune** and press **OK**. You can fine tune the channel with **▲** or **▼**.

If you want to store the channel found, select **Done** and press **OK**.

· Store

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

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

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

Satellite

Search for Satellite

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

Re-install all channels

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

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

Connection type

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

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

LNB settings

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

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

Add Satellite or Remove Satellite

🏠 (Home) > Settings > Install Channels > Satellite installation > Search for satellite > Add satellite, Remove satellite

🏠 (Home) > Settings > Install Channels > Satellite installation > Search for satellite > Add satellite

- You can add an additional satellite to your current satellite installation. The installed satellites and their channels remain untouched. Some satellite operators do not allow adding a satellite.
- The additional satellite should be seen as an extra, it is not your main satellite subscription or not the main satellite of which you use its channel package. Typically, you would add a 4th satellite when you have 3 satellites already installed. If you have 4 satellites installed, you might consider removing one first to be able to add a new satellite.
- If you currently have only 1 or 2 satellites installed, the current installation settings might not allow adding an extra satellite. If you need to change the installation settings, you must redo the complete satellite installation. You cannot use **Add satellite** if a change of settings is needed.

🏠 (Home) > Settings > Install Channels > Satellite installation > Search for satellite > Remove satellite

You can remove one or more satellites from your current satellite installation. You remove the satellite and its channels. Some satellite operators do not allow removing a satellite.

Channel Update Message

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

When new channels are found or if channels are updated or removed, a message is shown at TV start

up. To avoid this message to appear after every channel update, you can switch it off.

Manual Installation

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

Manually install satellite.

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

Satellite CAMs

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

Most CAMs are used to descramble channels.

CAMs (CI+ 1.3 with Operator Profile) can install all the satellite channels by themselves on your TV. The CAM will invite you to install its satellite(s) and channels. These CAMs not only install and descramble the channels but also handle regular channel updates.

Channel List copy

Introduction

Channel list copy is intended for dealers and expert users.

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

Conditions

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

Copy a Channel List, Check Channel List Version

Copy a channel list to USB flash drive

🏠 (Home) > Settings > All settings > Channels > Channel list copy > Copy to USB

Check channel list version

🏠 (Home) > Settings > All settings > Channels > Channel list copy > Current version

Upload a Channel List

To not Installed TVs

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

To a TV that is not yet installed

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

To Installed TVs

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

To an already installed TV

- 1 - Verify the country setting of the TV. (To verify this setting, see chapter **Re-install channels**. Start this procedure until you reach the country setting. Press ← BACK to cancel the installation.) If the country is correct continue with step 2. If the country is not correct, you need to start a reinstallation. See chapter **Re-install channels** and start the installation. Select the correct country and skip the channels search. Finish the installation. When done, continue with step 2.
- 2 - Plug in the USB flash drive that holds the channel list of the other TV.
- 3 - To start the channel list upload, press 🏠 (Home) > Settings > All settings > Channels > Channel List Copy > Copy to TV and press OK. Enter your PIN code if necessary.
- 4 - The TV notifies you if the channel list is copied to

the TV successfully. Unplug the USB flash drive.

Channel Options

Open Options

While watching a channel, you can set some options.

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

To open the options menu...

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

Programme info

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

Subtitles

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

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

Automatic

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

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

Subtitles Language

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

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

Audio Language

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

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

Dual I-II

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

Common Interface

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

Mono / Stereo

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

To switch to Mono or Stereo...

Tune to an analogue channel.

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

Channel info

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

HbbTV on This Channel

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

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

To block HbbTV on TV completely...

⬆ (Home) > **Settings** > **All settings** > **Channels** > **HbbTV** > **Off**

Universal Access

Only available when Universal access set to On.

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

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

Video Selection

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

7.3

Channel List

Open Channel List

To open the current channel list...

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

Channel List Options

Open Option Menu

To open the channel list option menu...

- Press **TV**, to switch to TV.
 - Long press **TV Guide** to open the channel list.
 - Press **OPTIONS**, and select one of options.
 - Press **BACK** to close the channel list.
-

Rename Channel

- 1 - Press **TV**, to switch to TV.
 - 2 - Long press **TV Guide** to open the channel list..
 - 3 - Select one channel you want to rename.
 - 4 - Press **OPTIONS** > Rename channel, and press **OK**.
 - 5 - In the typing field, press **OK** to open on-screen keyboard, or press **BACK** to hide the on-screen keyboard.
 - 6 - Use navigation keys to select a character, then press **OK**.
-

- Press **Red** (red) key to enter with lower-case
 - Press **Green** (green) key to enter with upper-case
 - Press **Yellow** (yellow) key to enter number and symbol
 - Press **Blue** (blue) key to delete a character
 - 7 - Select **Done** when complete the editing.
 - 8 - Press **BACK** to close the channel list.
-

Select Channel Filter

- 1 - Press **TV**, to switch to TV.
 - 2 - Long press **TV Guide** to open the channel list.
 - 3 - Press **OPTIONS** > Digital/analogue, Free/scrambled
 - 4 - Select one of channel combinations showing in the channel list.
-

Create or Edit Favourites Channel List

TV **OK** > **OPTIONS** > Create favourites list

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

TV **OK** > **OPTIONS** > Edit favourites

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

Select Channel Range

TV **OK** > **OPTIONS** > Select channel range

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

Select Channel List

TV **OK** > **OPTIONS** > Select channel list

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

Search Channels

TV **OK** > **OPTIONS** > Search channel

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

- 1 - Press **TV**, to switch to TV.
 - 2 - Long press **TV Guide** to open the channel list.
 - 3 - Press **OPTIONS** > Search channel, and press **OK**.
 - 4 - In the typing field, press **OK** to open on-screen
-

keyboard, or press **← BACK** to hide the on-screen keyboard.

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

- Press **■** (red) key to enter with lower-case

- Press **■** (green) key to enter with upper-case

- Press **■** (yellow) key to enter number and symbol

- Press **■** (blue) key to delete a character

- Select **Enter** to start the searching

6 - Select **■ Done** when the searching is completed.

7 - Press **← BACK** to close the channel list.

Lock or Unlock Channel

TV **OK** > **≡** **OPTIONS** > **Lock channel, Unlock channel**

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

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

Remove Favourite List

TV **OK** > **≡** **OPTIONS** > **Remove favourite list**

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

7.4

Favourite Channels

About Favourite Channels

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

Create a Favourites List

1 - While watching a TV channel, long press **≡ TV Guide** to open the channel list.

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

3 - The selected channel is marked with a **♥**.

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

Remove Channel from the Favourites List

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

Reorder Channels

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

1 - While watching a TV channel, press **OK** > **≡** **OPTIONS** > **Select channel list**.

2 - Select **Antenna favourite, Cable Favourite or Satellite favourite***, and press **≡** **OPTIONS**.

3 - Select **Reorder channels**, select the channel you want to reorder, and press **OK**.

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

5 - Once completed, press **■ Done**.

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

Favourites List on TV Guide

You can link the TV Guide for your Favourite List.

1 - While watching a TV channel, press **OK** > **≡** **OPTIONS** > **Select channel list**.

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

3 - Press **≡ TV GUIDE** to open it.

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

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

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

Text / Teletext

Subtitles from Text

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

- 1 - Switch to a channel and press **TEXT** to open Text.
- 2 - Enter the page number for subtitles, usually **888**.
- 3 - Press **TEXT** again, to close Text.

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

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

Text Pages

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

To close Text, press **TEXT** again.

Select a Text page

To select a page . . .

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

Text sub-pages

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

To select a subpage, press **<** or **>**.

T.O.P. Text pages

Some broadcasters offer T.O.P. Text.

To open T.O.P. Text pages within Text, press **≡** **OPTIONS** and select **T.O.P. overview**.

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

Text Options

In Text/Teletext, press **≡** **OPTIONS** to select the following...

- **Freeze page**
To stop the automatic rotation of subpages.
- **Dual screen / Full screen**
To show the TV channel and Text alongside each other.
- **T.O.P. overview**
To open T.O.P. Text.
- **Enlarge**
To enlarge the Text page for comfortable reading.
- **Reveal**
To unhide hidden information on a page.
- **Language**
To switch the group of characters that Text uses to display correctly.
- **Text 2.5**
To activate the Text 2.5 for more colours and better graphics.

Text Setup

Text language

Some digital TV broadcasters have several Text languages available.

Set teletex preference language

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

Text 2.5

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

To switch off Text 2.5...

- 1 - Press **TEXT**.
- 2 - With Text/Teletext open on screen, press **≡** **OPTIONS**.
- 3 - Select **Text 2.5** > **Off**.
- 4 - Press **<** (left) repeatedly if necessary, to close the menu.

TV Guide

What You Need

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

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

Using the TV Guide

Open the TV Guide

To open the TV guide, press  TV GUIDE.

Press  TV GUIDE again to close.


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

Tune to a Programme

Switch to a programme

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

View programme details

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


Change Day

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

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

Search by Genre

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

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

Freeview Play (for UK models)

About Freeview Play

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

Freeview Play offers:

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

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

* Freeview Play is only for UK models.

Using Freeview Play

To open Freeview Play*...

- 1 - Press **⬆** (Home) to open the home menu.
- 2 - Press **➤** (right) to overview available Freeview players (apps) or select **Explore Freeview Play** to enter Freeview Play page.
- 3 - You can press **🔍 Search** or enter a keyword in search bar at the right-top to search channels.
- 4 - You can press **👉 Recommendation** on TV Guide to sort different types of programmes on selecting a specific genre.
- 5 - Select a programme and press **OK** to start watching.
- 6 - Press **⬅ BACK** to close.

* Freeview Play is only for UK models.

Videos, Photos and Music

From a USB Connection

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

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

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

Warning

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

From a Computer or NAS

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

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

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

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

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

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

Photos

View Photos

- 1 - Press **SOURCES**, select **USB** and press **OK**.
- 2 - Select **USB Flash Drive** and press **→** (right) to select the USB device you need.
- 3 - Select **Photo**, you can press **Sort** to browse your photos by date, month, year or alphabetically by name.
- 4 - Select one of photos, and press **OK** to view the selected photo.
 - To view photos, select **Photos** in the menu bar, select a photo thumbnail and press **OK**.
 - If there are several photos in the same folder, select a photo and press **Slide show** to start a slide show of all photos in this folder.
 - Watch a photo and press **INFO** to show below: Progress bar, Playback control bar, **⏮** (Jump to the previous photo in a folder), **⏭** (Jump to the next photo in a folder), **▶** (Start slideshow playback), **⏸** (Pause the playback), **▶** (Start slideshow), **↻** (Rotate photo)

When viewing a photo file, press **≡ OPTIONS** to...

Shuffle off, Shuffle on

View the pictures in sequential order, or at random.

Repeat, Play once

View the pictures repeatedly or once only.

Stop music

Stop the music if the music playback is in progress.

Slideshow speed

Set the speed of the slideshow.

Slideshow transitions

Set the transition from one picture to the next.

Photo Options

When browsing photo files, press **≡ OPTIONS** to...

List/Thumbnails

View photos with list view or thumbnails view.

Shuffle off, Shuffle on

View the pictures in sequential order, or at random.

Repeat, Play once

View the pictures repeatedly or once only.

Stop music

Stop the music if the music playback is in progress.

Slideshow speed

Set the speed of the slideshow.

Slideshow transitions


Set the transition from one picture to the next.

10.4

Videos

Play Videos


To play a video on TV...

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


- To pause the video, press **OK**. Press **OK** again to continue.
- To rewind or go fast forward, press **▶▶** or **◀◀**. Press the keys several times to speed up - 2x, 4x, 8x, 16x, 32x.
- To jump to the next video in a folder, press **OK** to pause and select **▶** on screen and press **OK**.
- To stop the video playback, press **■** (Stop).
- To go back to the folder, press **↶**.


Open video folder



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

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

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

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

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

Progress bar, Playback control bar, **◀** (Jump to the previous video in a folder), **▶** (Jump to the next video in a folder), **▶** (Playback), **◀◀** (Rewind), **▶▶** (Fast forward), **||** (Pause the playback),  (Play all/Play one),  (Shuffle on/Shuffle off)

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

Subtitles

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

Subtitle language

Select subtitles language if available.

Character set

Select the character set if external subtitle is available.

Audio language

Select audio language if available.

Status

Display the information of the video file.

Repeat, Play once


Play videos repeatedly or once.

Subtitle settings

Set the Font size, Subtitle colour, Subtitle position and

Time sync offset if the options are available.

Video Options

When browsing video files, press  **OPTIONS** to...

List/Thumbnails

View video files with list view or thumbnails view.

Subtitles

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

Shuffle off, Shuffle on

Play videos in sequential order, or at random.

Repeat, Play once

Play videos repeatedly or once.


10.5

Music


Play Music


Open music folder


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

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

3 - Select **Music** and select one of music, you can press **OK** to play the selected music.

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

• Playback a music and press  **INFO** to show below:

Progress bar, Playback control bar, **◀** (Jump to the previous music in a folder), **▶** (Jump to the next music in a folder), **▶** (Playback), **◀◀** (Rewind), **▶▶** (Fast forward), **||** (Pause the playback),  (Play all/Play one)

During the music playback, press  **OPTIONS** to...

Repeat, Play once

Play songs repeatedly or once.

Music Options

When browsing music files, press  **OPTIONS** to...

Shuffle off, Shuffle on

Play songs in sequential order, or at random.

Repeat, Play once

Play songs repeatedly or once.

Open TV Setting Menus

Home Menu Overview

Press **⬆** (Home) to select one of below menus, then press OK.

Sources

This row contains available sources in this TV.

Watch TV

This row contains TV functions which are available for user.

Apps

This row contains number of apps pre-installed.

Search

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

Settings

This row contains settings which are available for user.

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

Frequent Settings and All settings

Settings menu:

Press **⬆** (Home) > Settings key on the remote control to find frequent settings.

- How to - Instructions on how to install channels, sort channels*, update TV software, connect external devices and use Smart functions on your TV.
- Install channels - Update channels or start a complete new channel installation.
- Picture style - Select one of preset picture styles for ideal picture viewing.
- Picture format - Select one of preset picture format which fits the screen.
- Sound style - Select one of preset sound styles for

ideal sound settings.

- Audio out - Set the TV to play the sound on TV or on the connected audio system.
- Ambilight style** - Select one of preset Ambilight styles.
- Ambilight+hue** - Switch Ambilight+hue on or off.
- Sleep timer - Set the TV to switch to standby automatically after a preset time.
- Screen off - If you only listen to music on TV, you can switch off the TV screen.

- Wireless and networks - Connect to your home network or adjust the network settings.
- All settings - View all settings menu.
- Help - Diagnose and get more information about your TV. For more information, in Help, press the colour key **■** Keywords and look up Help Menu for more information.

All settings menu:

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

* Sorting channels is only applicable for certain countries.

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

All Settings

Picture Settings

Picture Style

Select a style

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

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

The available Picture styles are ...

- Personal - The picture preferences you set during the first start up
- Vivid - Ideal for daylight viewing
- Natural - Natural picture settings
- Standard - Most energy conscious setting
- Movie - Ideal for watching movies with original studio effect
- Game - Ideal for gaming*
- Monitor - Ideal for computer monitor**

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

** Picture style - Monitor is only available when HDMI

source video is applicable for PC application. HDR is not supported in Monitor mode. The TV is able to play HDR video in Monitor mode but no HDR processing will be applied.

Custom a style

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

Restore a style

To restore the style to its original setting, go to **🏠 (Home) > Settings > All settings > Picture > Picture style**, then press **➡ Restore style**.

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

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

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

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

For Dolby Vision HDR content

The styles for Dolby Vision HDR content are...

- HDR Personal
- HDR Vivid
- Dolby Vision Bright
- Dolby Vision Dark
- HDR Game

Colour, Contrast, Sharpness, Brightness

Adjust the picture colour

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

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

Adjust the picture contrast

🏠 (Home) > Settings > All settings > Picture > Backlight 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

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

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

Adjust the picture brightness

🏠 (Home) > Settings > All 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.

Expert Mode Picture Settings

Colour Settings

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

Adjust the colour enhancement

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

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

Select the preset colour temperature

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

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

Customise colour temperature

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

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.

Whitepoint alignment

🏠 (Home) > Settings > All settings > Picture > Expert mode settings > Whitepoint alignment

Customise the whitepoint alignment based on the selected colour temperature of the picture. Press the arrows ▲ (up) or ▼ (down) to adjust the value, press **Reset** to reset the value.

Contrast Settings

Contrast Modes

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

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

HDR Settings

🏠 (Home) > Settings > All settings > Picture > Expert mode settings > HDR Plus

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

Note: Available when High Dynamic Range (HDR) video is present in selected source except Dolby Vision case.

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

Dynamic Contrast

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

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

Video Contrast, Gamma

Video contrast

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

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

Gamma

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

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

Ultra Resolution

🏠 (Home) > Settings > All settings > Picture > Expert mode settings > Ultra resolution

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

Picture Clean

Noise reduction

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

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

MPEG Artefact Reduction

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

Select Maximum, Medium, Minimum to have

different 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

Motion Styles

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

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

Select **Off** to switch off or select one of the motion styles to have different viewing experience on motion video.

(Movie, Sports, Standard, Smooth or Personal)

Not available for below cases:

- 🏠 (Home) > Settings > All settings > Picture style > Game.
- 🏠 (Home) > Settings > All settings > Picture style > Monitor.

Natural Motion

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

Natural Motion makes any movement smooth and fluent.

- Select **Maximum**, **Medium**, **Minimum** to have different 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

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

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

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

- **Wide screen** – automatically zooms in the picture to 16:9 full screen. Picture content aspect ratio may change.
- **Fill screen** – automatically enlarges the picture to fill the screen. Picture distortion is minimal, subtitles remain visible. Not suitable for PC input. Some

extreme picture formats can still show black bars. Picture content aspect ratio may change.

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

- **Original** – automatically zooms in the picture to fit the screen with original aspect ratio. No content lost visible.

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

To format the picture manually...

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

Dolby Vision Notification

🏠 (Home) > Settings > All settings > Picture > Dolby Vision Notification

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

Quick Picture Settings

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

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

Sound Settings

Sound Style

Select a style

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

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

The available sound styles are ...

- **AI mode** – Select **AI mode** for intelligent switching of sound style based on audio content.

- **Original** – Most neutral sound setting
- **Movie** – Ideal for watching movies
- **Music** – Ideal for listening to music
- **Game** – Ideal for gaming
- **News** – Ideal for speech
- **Personal mode** – Select to adjust your preferred sound settings

Restore Personal mode

- 1 – Set the sound style to Personal mode.
- 2 – Press the colour key **■** **Restore Style**, and press OK. The style is restored.

Personal Mode Sound Settings

Speaker virtualizer

🏠 (Home) > Settings > All settings > Sound > Personal mode settings > Speaker virtualizer

Select **On** or **Auto (Dolby Atmos)** to enable Dolby Atmos which can add height dimension in sound. With height dimension, sound can be precisely placed and moved in three-dimensional space.

Clear dialogue

🏠 (Home) > Settings > All settings > Sound > Personal mode settings > Clear dialogue

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

AI Equalizer

🏠 (Home) > Settings > All settings > Sound > Personal mode settings > AI Equalizer

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

Custom AI Equalizer

🏠 (Home) > Settings > All settings > Sound > Personal mode settings > Custom AI Equalizer

Press the arrows **▲** (up) or **▼** (down) to adjust the equalizer settings.

* Note: To restore the **Personal mode** to its original setting, select back to **Sound style**, then press **■** **Restore style**.

TV Placement

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

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

Advanced sound settings

Volume Control

Auto volume

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

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

Delta volume

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

The Delta volume setting can be used to adjust to balance the sound level difference between the TV channel and the HDMI source input. Press the arrows **▲** (up) or **▼** (down) to adjust the delta value for TV speaker volume.

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

Audio Out Settings

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

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

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

- If you select **TV Speakers off**, you permanently switch off the TV speakers.
- If you select **TV Speakers**, the TV speakers are always on. All the sound related settings are applicable to this mode.
- If you select **Headphones**, the sound will be played through headphones.
- If you select **TV Speakers + Headphones**, the sound will be played through TV speakers and headphones.

To adjust the volume of TV speakers or headphones,

press **Volume** and press the arrows **➤** (right) or **➤** (left) to select the output source you want to adjust. Press the arrows **▲** (up) or **▼** (down) to adjust the volume.

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

Digital Output Settings

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

Digital out format

🏠 (Home) > Settings > All settings > Sound > Advanced > Digital out format

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

- **Stereo (uncompressed)**: If your audio playback devices have no multichannel sound processing, select to only output stereo content to your audio playback devices.
- **Multichannel**: Select to output multichannel audio content (compressed multichannel sound signal) or stereo audio content to your audio playback devices.
- **Multichannel (bypass)**: Select to send original bitstream from HDMI ARC to the connected HDMI Sound System.

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

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

Digital out levelling

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

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

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

Digital out delay

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

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

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

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

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

Channels

HbbTV Settings - Hybrid Broadcast Broadband TV

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

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

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

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

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

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

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

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

CAM Operator Profile

🏠 (Home) > Settings > All Settings > Channels
> CAM Operator Profile

To switch on operator profile for CI+/CAM for easy channel installation and updates.

General Settings

Connection Related Settings

USB Keyboard Settings

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

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

Mouse Settings

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

Adjust the motion speed of the USB mouse.

HDMI-CEC Connection - EasyLink

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



Switch on EasyLink

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

Operate HDMI CEC-compatible devices with TV remote control

🏠 (Home) > Settings > All settings > General settings > EasyLink > EasyLink remote

control > On

Note:

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

HDMI Ultra HD

🏠 (Home) > Settings > All settings > General settings > Input sources > HDMI (port) > HDMI Ultra HD

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

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

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

Maximum supported video timing format for HDMI Ultra HD options:

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

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

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

HDMI Auto game mode

🏠 (Home) > Settings > All settings > General settings > Input sources > HDMI (port) > 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. This feature is only selectable when HDMI Ultra HD set to Optimal.

Eco Settings

Set energy saving level

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

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

Set screen off to save energy consumption

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

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

Set TV switch off timer

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

Press the arrows ▲ (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.

Location - Home or Shop

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

- Select the location of your TV

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

- Shop mode is for in-store promotion.

Shop Setup

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

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

Adjust Picture and audio

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

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

Logos and banner

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

Set to display Feature logos and Promotional banner.

Demo Me autostart

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

Turn On/Off the Demo Me autostart.

Manage demos

🏠 (Home) > Apps > Demo me > Manage demos

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

Play demo video

🏠 (Home) > Apps > Demo me > Manage demos > Play

Select a demo video file and play.

Copy demo file

🏠 (Home) > Apps > Demo me > Manage demos > Copy to USB

Copy demo file to USB drive.

Delete demo file

🏠 (Home) > Apps > Demo me > Manage demos > Delete

Delete demo file from your TV.

Configuration of demo

🏠 (Home) > Apps > Demo me > Manage demos > Configuration

Set the TV to Main TV or Sub TV.

Download new demo file

🏠 (Home) > Apps > Demo me > Manage demos > Download new

If the Configuration is set to Main TV, you can download new demo file.

Auto delay setting

🏠 (Home) > Apps > Demo me > Manage demos > Auto delay setting

Set the Auto delay time from 15 seconds to 5 minutes.

Auto loop selection

🏠 (Home) > Apps > Demo me > Manage demos > Auto loop selection

Select a demo file for auto loop playing.

Reset TV Settings and Reinstall TV

Reset all settings value to original TV settings

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

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

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

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

Universal Access Settings

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

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

Switch on universal access settings

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

Universal access for hearing impaired people

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

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

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

Universal access for blind or partially sighted people

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

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

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

• Select **Mixed volume**, you can mix the volume of the normal audio with the audio commentary. Press the arrows **▲** (up) or **▼** (down) to adjust the value.

• Set **Audio effect** to **On** for extra audio effects in the commentary audio, like stereo or fading sound.

• Select **Speech** to set speech preference, **Descriptive** or **Subtitles**.

Dialogue enhancement

🏠 (Home) > Settings > All settings > Universal access > Dialogue enhancement

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

Lock Settings

Set Code and Change Code

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

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

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

Lock for Programme

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

Set a minimum age to watch rated programmes.

App lock

🏠 (Home) > Settings > All settings > Child lock > App lock

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

Set code

🏠 (Home) > Settings > All settings > Child lock > Set code

Set the PIN code to lock or unlock the TV.

Region and Language Settings

Language

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

Change the language of the TV menu and messages

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

Set audio preference language

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

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

Set subtitle preference language

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

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

Set teletext preference language

🏠 (Home) > Settings > All settings > Region and

language > Language > Primary text, Secondary text

Some digital TV broadcasters have several Text languages available.

Clock

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

Correct clock automatically

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

- The standard setting for the TV clock is **Automatic**. The time information comes from the broadcasted UTC - Coordinated Universal Time information.
- If the clock is not correct, you can set the TV clock to **Country dependent**.
- When select **Country dependent**, you can set the time for **Automatic**, **Standard time**, or **Daylight saving time**.

Correct clock manually

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

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

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

Note:

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

Set time zone or set a time offset for your region

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

Select one of the time zones.

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

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

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

always switch off your TV earlier or reset the time during the countdown

Wireless and Networks

12.1

Home Network

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

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

12.2

Connect to Network

Wireless Connection

What You Need

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



Make the Connection - Wireless

🏠 (Home) > Settings > All 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 - Enter your encryption key. If you entered the encryption key for this network before, you can select **OK** to make the connection immediately.
- 3 - A message will be shown when the connection is successful.

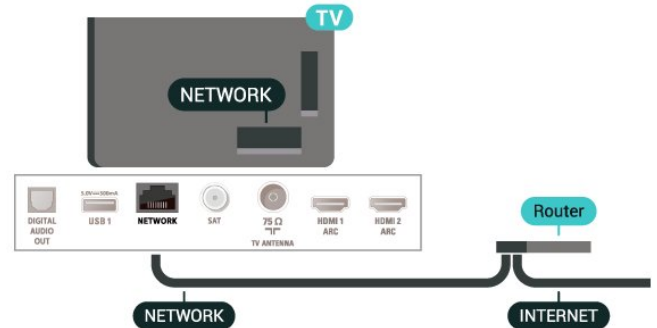
Turn Wi-Fi On or Off

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

Wired Connection

What You Need

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



Make the Connection

🏠 (Home) > Settings > All settings > Wireless and 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.

12.3

Wireless and Network Settings

View Network Settings

🏠 (Home) > Settings > All settings > Wireless and 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

🏠 (Home) > Settings > All settings > Wireless and 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

🏠 (Home) > Settings > All settings > Wireless and networks > Wired or Wi-Fi > Static IP configuration

1 - Select **Static IP configuration** and configure the connection.

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

Switch On with Wi-Fi (WoWLAN)

🏠 (Home) > Settings > All settings > Wireless and 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.

Digital Media Renderer - DMR

🏠 (Home) > Settings > All settings > Wireless and networks > Wired or Wi-Fi > Digital Media Renderer - DMR

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

Switch on Wi-Fi connection

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

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

Reset Screen Mirroring connection

🏠 (Home) > Settings > All settings > Wireless and networks > Wired or Wi-Fi > Reset Screen Mirroring connection

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

TV network name

🏠 (Home) > Settings > All settings > Wireless and 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.

Netflix settings

🏠 (Home) > Settings > All settings > Wireless and networks > Wired or Wi-Fi > Netflix settings

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

Clear Internet Memory

🏠 (Home) > Settings > All settings > Wireless and 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.

Smart TV

13.1

Setup Smart TV

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

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

Open Smart TV

To open the Smart TV start page, press **Smart TV**. Alternatively, you can press **Home** > **Apps**, select **Smart TV** and press **OK**.

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

Close Smart TV

To close the Smart TV start page, press **EXIT**.

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

13.2

Smart TV Start Page

Your Apps

You start Apps from the **Smart TV** start page.

Internet

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

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

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

13.3

App Gallery

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

Find the App for YouTube videos, a national newspaper, an online photo album, etc. There are Apps to rent a video from an online video store and Apps for watching programmes you missed. If the

App gallery does not hold what you are looking for, try the World Wide Web and surf the Internet on TV.

Search

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

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

TV on Demand / Video on Demand

TV on Demand

🏠 (Home) > Apps > TV on Demand

You can watch TV programmes you missed or watch your favourite programmes whenever it suits you best.

Video on Demand

🏠 (Home) > Apps > Video on Demand

You can rent movies from an online rental video store. The app is only available in Russian Federation and India.

Netflix

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

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

www.netflix.com

Rakuten TV

Watch the latest new releases on your Smart TV. The biggest blockbusters, award winning classics and TV series available instantly.

Press the **Rakuten TV** key on your remote control or the app icon to open the Rakuten TV app. Your TV must be connected to the Internet to use the app. For more information about Rakuten TV, please visit www.rakuten.tv.

Amazon Prime Video

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

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

YouTube

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

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

Environmental

19.1

European Energy Label

The European Energy Label informs you on the energy efficiency class of this product. The greener the energy efficiency class of this product is, the lower the energy it consumes.

On the label, you can find the energy efficiency class, the average power consumption of this product in use and the average energy consumption for 1 year. You can also find the power consumption values for this product on the Philips website for your country at www.philips.com/TVsupport

19.2

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.

Specifications

20.1

Power

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

Power

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

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

20.2

Reception

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

* Only for DVB-T2, DVB-S2

20.3

Display Resolution

Diagonal screen size

- 43PUS75x5 : 108 cm / 43 inch
- 50PUS75x5 : 126 cm / 50 inch
- 58PUS75x5 : 146 cm / 58 inch
- 70PUS75x5 : 176 cm / 70 inch

Display resolution

- 3840 x 2160

Supported Input Resolution - Video

Support Timing

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

HDMI

- 480i
- 480p
- 576i
- 576p
- 720p
- 1080i
- 1080p
- 3840 x 2160p - 24Hz, 25Hz, 30Hz, 50Hz, 60Hz

HDMI - UHD

🏠 (Home) > Settings > General settings > Input sources > HDMI (port) > HDMI Ultra HD

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

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

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

20.5

Supported Input Resolution - Computer

- 640 x 480 - 60Hz
- 800 x 600 - 60Hz
- 1024 x 768 - 60Hz
- 1280 x 800 - 60Hz
- 1280 x 960 - 60Hz
- 1280 x 1024 - 60Hz
- 1366 x 768 - 60Hz
- 1440 x 900 - 60Hz
- 1920 x 1080 - 60Hz
- 3840 x 2160 - 60Hz

Note: For HDMI Input only

20.6

Sound

- Dolby Atmos® Virtualizer
- Clear Dialogue
- A.I Sound
- 5 Band Equalizer
- Output power (RMS) : 20W
- Dolby® Audio
- DTS-**HD**®

- Headphones – Stereo mini-jack 3.5mm

TV Rear

- Audio out – Optical Toslink
- USB 1 – USB 2.0
- Network LAN – RJ45
- Satellite tuner
- Antenna (75 ohm)
- HDMI 1 in – ARC – UHD – HDR
- HDMI 2 in – ARC – UHD – HDR

20.7

Multimedia

Connections

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

Supported USB file systems

- FAT, NTFS

Playback formats

- Video Codec : AVI, MKV, H.264/MPEG-4 AVC, MPEG1, MPEG2, MPEG4, WMV9/VC1, VP9, HEVC (H.265)
- Audio Codec : MP3, WAV, AAC, WMA (v2 up to v9.2), WMA-PRO (v9 and v10)
- Subtitles :
 - Format: SRT, SMI, SSA, SUB, ASS, TXT
 - Character encodings : UTF-8, Central Europe and Eastern Europe (Windows-1250), Cyrillic (Windows-1251), Greek (Windows-1253), Turkish (Windows-1254), Western Europe (Windows-1252)
- Maximum Supported Data Rate :
 - MPEG-4 AVC (H.264) is supported up to High Profile @ L5.1. 30Mbps
 - H.265 (HEVC) is supported up to Main / Main 10 Profile up to Level 5.1 40Mbps
 - VC-1 is supported up to Advanced Profile @ L3
- Image Codec : JPEG, GIF, PNG, BMP

Wi-Fi Certified

This TV is Wi-Fi Certified device.

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

20.8

Connectivity

TV Side

- Common Interface slot: CI+/CAM
- USB 2 – USB 3.0
- HDMI 3 in – ARC – UHD – HDR

Troubleshooting

21.1

Tips

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

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

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

Go to www.philips.com/TVsupport.

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

TV Help on your tablet, smartphone or computer

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

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

21.2

Switch On

The TV does not switch on

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

Creaking sound at startup or switch off

When you are turning the TV on or standby, you hear a creaking sound from the TV chassis. The creaking sound is due to the normal expansion and

contraction of the TV as it cools and warms up. This does not affect performance.

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

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

The standby light keeps on blinking

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

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

TV switches off by itself

If the TV switches off suddenly, the setting **Switch off timer** might be switched on. With **Switch off timer** the TV switches off after 4 hours if no remote control signals were received. To avoid this automatic switch off, you can deactivate this switch off.

In **Help > User manual**, press the colour key **Keywords** and look up **Switch Off Timer**. Also, if the TV does not receive a TV signal nor a remote control command for 10 minutes, the TV switches off automatically.

21.3

Remote Control

TV does not respond to the remote control

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

21.4

Channels

No digital channels found during the installation

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

correct country and system.

No analogue channels found during the installation

- Check if the TV was connected with an antenna. Check the cable connections.
 - Check if you selected the correct DVB (Digital Video Broadcast) system. Select DVB-T (terrestrial) when you use an antenna or common antenna.
 - Redo the installation and select **Digital and analogue channels** during the installation.
- Some channels disappeared, cannot find all or some previously installed channels
- Check if you selected the correct **Channel list** or **Favourites list** you normally use.
 - Some channels might be moved or even deleted by the broadcaster. In the normal channels list, try to search for the channel you're missing. If the channel is still available, you can put it back in the favourites list.
 - A channel can be deleted from the channel list during **Automatic channel update**. These automatic updates are done overnight if the TV is on standby.

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

To avoid channels being deleted during the **Automatic channel update** because the TV could not find them although these channels are still there, you can switch off **Automatic channel update**.

🏠 (Home) > Settings > All Settings > Channels > Antenna/cable installation, Satellite installation* > Automatic channel update

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

DVB-T2 HEVC channel

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

21.5

Satellite

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

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

A dual head LNB cannot find a second satellite

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

- Check if the settings are set to two satellites.
- #### Changing the installation settings did not solve my problem

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

All satellite channels are gone

If you use a Unicable system, make sure you assigned two unique user band numbers for both built-in tuners in the Unicable settings. It might be that another satellite receiver in your Unicable system is using the same user band number.

Some satellite channels seem to have disappeared from the channel list

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

I cannot remove a satellite

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

Sometimes the reception is poor

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

21.6

Picture

No picture / distorted picture

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

Sound but no picture

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

press OK.

⬆️ (Home) > Settings > All

settings > Picture > Picture style

• Restore picture style, select back to Picture style, then press **➡️** Restore style.

• Reset all TV settings, go

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

• Check the connections of the source/input devices.

Poor reception

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

• Check if the antenna cable is properly connected.

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

• Check if all connections, to and from your devices, are properly connected.

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

⬆️ (Home) > Settings > Install

Channels > Antenna/cable

installlation > Analogue: manual installation

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

Poor picture from a device

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

• Restore picture style or change to another picture style.

Picture settings change after a while

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

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

A banner appears

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

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

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

• If the picture size - its aspect ratio - does not fit the screen, with black bars on the top and bottom or left and right side of the screen, press ⬆️ (Home) > Settings > All settings > Picture > Picture Format > Fill screen.

• If the picture size changes all the time, press ⬆️ (Home) > Settings > All settings > Picture > Picture Format > Fit to screen.

• If the position of the picture is incorrect on the screen, try to check the signal resolution and output type of the connected device,

press ⬆️ (Home) > Settings > All settings > Picture > Picture Format > Original.

Computer picture is not stable

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

⬆️ (Home) > Settings > All settings > Picture >

21.7

Sound

No sound or poor sound quality

• Check if the sound settings of the TV are OK, press the **🔊** volume or **🔇** mute key.

• If you use a digital receiver (set-top box), check if the volume on this receiver is not set to zero or mute.

• Check if the TV - the audio signal - is properly connected with the Home Theatre System, if you use such a system for the TV sound. Check if you connected the HDMI cable to an **HDMI1 ARC** connection on the Home Theatre System.

• Make sure that the TV audio output is connected to the audio input on the Home Theatre System.

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

Sound with loud noise

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

Press ⬆️ (Home) > Settings > All settings > Sound > Advanced > Digital out format

21.8

HDMI - UHD

HDMI

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

• If the TV does not recognise the HDMI device and

no picture is displayed, switch the source from one device to another and back again.

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

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

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

HDMI EasyLink does not work

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

No volume icon shown

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

21.9

USB

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

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

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

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

Choppy playback of USB files

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

21.10

Wi-Fi and Internet

Wi-Fi network not found or distorted

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

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

Internet does not work

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

router connection to the Internet.

The PC and Internet connection are slow

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

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

DHCP

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

21.11

Wrong Menu Language

Change the language back to your language.

1 – Press **⬆ Home**, and press **⬆ (up)** for once.

2 – Press **➤ (right)** for twice, and press **⬇ (down)** for once.

3 – Press 7 times **➤ (right)**, make sure the icon is **⚙**, and press **OK**.

4 – Press 7 times **⬇ (down)**, and press **➤ (right)** 3 times, select your language and press **OK**.

Safety and Care

22.1

Safety

Important

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

Risk of Electric Shock or Fire

- Never expose the TV to rain or water. Never place liquid containers, such as vases, near the TV. If liquids are spilt on or into the TV, disconnect the TV from the power outlet immediately. Contact Philips TV Consumer Care to have the TV checked before use.
- Never expose the TV, remote control or batteries to excessive heat. Never place them near burning candles, naked flames or other heat sources, including direct sunlight.
- Never insert objects into the ventilation slots or other openings on the TV.
- Never place heavy objects on the power cord.
- Avoid force coming onto power plugs. Loose power plugs can cause arcing or fire. Ensure that no strain is exerted on the power cord when you swivel the TV screen.
- To disconnect the TV from the mains power, the power plug of the TV must be disconnected. When disconnecting the power, always pull the power plug, never the cord. Ensure that you have full access to the power plug, power cord and outlet socket at all times.

Risk of Injury or Damage to the TV

- Two people are required to lift and carry a TV that weighs more than 25 kg or 55 lbs.
- If you mount the TV on a stand, only use the supplied stand. Secure the stand to the TV tightly. Place the TV on a flat, level surface that can support the weight of the TV and the stand.
- When wall mounted, ensure that the wall mount can safely bear the weight of the TV set. TP Vision bears no responsibility for improper wall mounting that results in accident, injury or damage.
- Parts of this product are made of glass. Handle with care to avoid injury or damage.

Risk of damage to the TV !

Before you connect the TV to the power outlet,

ensure that the power voltage matches the value printed on the back of the TV. Never connect the TV to the power outlet if the voltage is different.

Stability Hazards

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

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

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

Risk of Batteries

- Risk of explosion if the battery is replaced by an incorrect type.
- Replacement of a BATTERY with an incorrect type that can defeat a SAFEGUARD (for example, in the case of some lithium BATTERY types).
- Disposal of a BATTERY into fire or a hot oven, or mechanically crushing or cutting of a BATTERY, that can result in an EXPLOSION.
- Leaving a BATTERY in an extremely high temperature surrounding environment that can result in an EXPLOSION or the leakage of flammable liquid or gas.
- A BATTERY subjected to extremely low air pressure that may result in an EXPLOSION or the leakage of flammable liquid or gas.
- 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.

22.2

Screen Care

Clean

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

Terms of Use

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The written material packaged with the TV and the manual stored in the memory of the TV or downloaded from the Philips website www.philips.com/TVsupport are believed to be adequate for the intended use of the system.

The material in this manual is believed adequate for the intended use of the system. If the product, or its individual modules or procedures, are used for purposes other than those specified herein, confirmation of their validity and suitability must be obtained. TP Vision warrants that the material itself does not infringe any United States patents. No further warranty is expressed or implied. TP Vision cannot be held responsible neither for any errors in the content of this document nor for any problems as a result of the content in this document. Errors reported to Philips will be adapted and published on the Philips support website as soon as possible.

Terms of warranty - Risk of injury, damage to TV or void of warranty!

Never attempt to repair the TV yourself. Use the TV and accessories only as intended by the manufacturer. The caution sign printed on the back of the TV indicates risk of electric shock. Never remove the TV cover. Always contact Philips TV Customer Care for service or repairs. Find the telephone number in the printed documentation that came with the TV. Or consult our website www.philips.com/TVsupport and select your country if needed. Any operation expressly prohibited in this manual, or any adjustments and assembly procedures not recommended or authorised in this manual, shall void the warranty.

Pixel characteristics

This TV product has a high number of colour pixels. Although it has effective pixels of 99.999% or more, black dots or bright points of light (red, green or blue) may appear constantly on the screen. This is a structural property of the display (within common industry standards) and is not a malfunction.

CE compliance

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

Compliance with EMF

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

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

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Dolby Audio

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DTS-HD (italics)

DTS-*HD*

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Open Source

25.1

Open Source Software

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

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

open.source@tpv-tech.com

25.2

Open Source License

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Open Source

bash (3.2.48)

Bash is the shell, or command language interpreter, that will appear in the GNU operating system.

Bash is an sh-compatible shell that incorporates useful features from the Korn shell (ksh) and C shell (csh).

It is intended to conform to the IEEE POSIX

P1003.2/ISO 9945.2 Shell and Tools standard. It offers functional improvements over sh for both programming and interactive use.

In addition, most sh scripts can be run by Bash without modification.

Source: <http://www.gnu.org/software/bash/>

c-ares (1.10.0)

c-ares is a C library that performs DNS requests and name resolves asynchronously.

Source: <http://c-ares.haxx.se/>

coreutils (6.9)

The GNU Core Utilities are the basic file, shell and text manipulation utilities of the GNU operating system.

These are the core utilities which are expected to exist on every operating system.

Source: <http://www.gnu.org/software/coreutils/>

e2fsprogs (2.12.2)

e2fsprogs provides the filesystem utilities for use with the ext2 filesystem, it also supports the ext3 and ext4 filesystems.

This piece of software is made available under the terms and conditions of the e2fsprogs license, which can be found below.

Source: <http://e2fsprogs.sourceforge.net/>

Expat (2.01)

xml parser; Expat is an XML parser library written in C. It is a stream-oriented parser in which an application registers handlers for things the parser might find in the XML document (like start tags). An introductory article on using.

This piece of software is made available under the terms and conditions of the Expat license, which can be found below.

Source: <http://expat.sourceforge.net/>

DFB (4.2.31)

It is a software library for GNU/Linux/UNIX based operating system with a small memory footprint that provides graphics acceleration, input device handling and abstraction layer, and integrated windowing system with support for translucent windows and multiple display layers on top of the Linux framebuffer without requiring any kernel modifications

Source: http://sourceforge.net/projects/jointspace/files/remote_applications_SDK/remote_applications_SDK_v1.3.1/DirectFB141_source_1.3.1.7z/download

SAWMAN

SaWMan, the Shared application and Window Manager, is a new window manager module for use with DirectFB.

Source: <http://www.directfb.org/index.php?path=Main%2FDownloads&page=1>

findutils (4.2.31)

The GNU Find Utilities are the basic directory searching utilities of the GNU operating system. These programs are typically used in conjunction with other programs to provide modular and powerful directory search and file locating capabilities to other commands.
Source: <http://www.gnu.org/software/findutils/>

Freetype (2.4.3)
FreeType is a software font engine that is designed to be small, efficient, highly customizable, and portable while capable of producing high-quality output (glyph images).
Source: <http://freetype.sourceforge.net>

fuse (2.8.4)
Fuse is a simple interface for userspace programs to export a virtual filesystem to the linux kernel. This piece of software is made available under the terms and conditions of the fuse license, which can be found below.
Source: <http://fuse.sourceforge.net/>

gawk (3.1.5)
If you are like many computer users, you would frequently like to make changes in various text files wherever certain patterns appear, or extract data from parts of certain lines while discarding the rest. To write a program to do this in a language such as C or Pascal is a time-consuming inconvenience that may take many lines of code. The job is easy with awk, especially the GNU implementation: gawk.
Source: <http://www.gnu.org/software/gawk/>

glibc (2.12.2)
Any Unix-like operating system needs a C library: the library which defines the "system calls" and other basic facilities such as open, malloc, printf, exit...The GNU C library is used as the C library in the GNU system and most systems with the Linux kernel. This piece of software is made available under the terms and conditions of the glibc license, which can be found below.
Source: <http://www.gnu.org/software/libc/>

grep (2.5.1a)
The grep command searches one or more input files for lines containing a match to a specified pattern. By default, grep prints the matching lines.
Source: <http://www.gnu.org/software/grep/>

gzip (1.3.12)
GNU Gzip is a popular data compression program originally written by Jean-loup Gailly for the GNU project. Mark Adler wrote the decompression part.
Source: <http://www.gnu.org/software/gzip/>

inetutils (1.4.2)
Inetutils is a collection of common network programs.

Source: <http://www.gnu.org/software/inetutils/>
iptables (1.4.15)
For Cross connection.
Source: <http://www.netfilter.org/projects/iptables/>

iputils (s20101006)
The iputils package is set of small useful utilities for Linux networking. It was originally maintained by Alexey Kuznetsov.
Source: <http://www.skbuff.net/iputils/>

Libcurl (7.30.0)
HTTP client; libcurl is a free and easy-to-use client-side URL transfer library, supporting FTP, FTPS, HTTP, HTTPS, SCP, SFTP, TFTP, TELNET, DICT, LDAP, LDAPS, FILE, IMAP, SMTP, POP3 and RTSP. libcurl supports SSL certificates, HTTP POST, HTTP PUT, FTP uploading, HTTP form based upload, proxies, cookies, user+password authentication (Basic, Digest, NTLM, Negotiate, Kerberos4), file transfer resume, http proxy tunneling and more!
This piece of software is made available under the terms and conditions of the Libcurl license, which can be found below.
Source: <http://curl.haxx.se/>

libiconv (1.11.1)
This library provides an iconv() implementation, for use on systems which don't have one, or whose implementation cannot convert from/to Unicode. . . This piece of software is made available under the terms and conditions of the libiconv license, which can be found below.
Source: <http://ftp.gnu.org/pub/gnu/libiconv>

libmtp (0.3.6)
libmtp is an Initiator implementation of the Media Transfer Protocol (MTP) in the form of a library suitable primarily for POSIX compliant operating systems. We implement MTP Basic, the stuff proposed for standardization.
Source: <http://libmtp.sourceforge.net/>

libjpeg (6b)
This library is used to perform JPEG decoding tasks. This piece of software is made available under the terms and conditions of the libjpeg license, which can be found below.
Source: <http://www.ijg.org/>

libusb
This is the home of libusb, a library that gives user level applications uniform access to USB devices across many different operating systems. libusb is an open source project licensed under the GNU Lesser General Public License version 2.1. Many participants in the libusb community have helped and continue to help with ideas, implementation, support and improvements for

libusb.

This piece of software is made available under the terms and conditions of the libusb license, which can be found below.

Source:

<http://libusb.wiki.sourceforge.net>

<http://www.libusb.org/>

libusb-compat

Library to enable user space application programs to communicate with USB devices.

This piece of software is made available under the terms and conditions of the libusb-compat license, which can be found below.

Source:

<http://libusb.wiki.sourceforge.net/LibusbCompat0.1>

libpng (1.2.43)

libpng -THE reference library for reading, displaying, writing and examining png Image Network Graphics.

This piece of software is made available under the terms and conditions of the libpng license, which can be found below.

Source: <http://sourceforge.net/projects/libpng/files/>

Libxml2 (2.7.8)

The "libxml2" library is used in AstroTV as a support for the execution of NCL application. This library was developed for the GNOME software suite and is available under a "MIT" license.

Source: <http://www.xmlsoft.org>

Linux Kernel (3.1)

The Linux kernel is an operating system kernel used by the Linux family of Unix-like operating systems.

This piece of software is made available under the terms and conditions of the Linux Kernel license, which can be found below.

Source: <http://www.kernel.org>

Linux Fusion (8.7.0)

Source: GNU

liveMedia (2011.06.12)

c++ runtime library for RTSP requirement

Source: www.live555.com

lvm2 (2.02.89)

Userspace toolset that provide logical volume management facilities on linux.

This piece of software is made available under the terms and conditions of the lvm2 license, which can be found below.

Source: <ftp://sources.redhat.com/pub/lvm2/releases/>

module-init-tools (3.12)

Provides developer documentation for the utilities used by Linux systems to load and manage kernel modules (commonly referred to as "drivers").

Source: <https://modules.wiki.kernel.org/index.php/M>

ain_Page

mtd-utils

The aim of the system is to make it simple to provide a driver for new hardware, by providing a generic interface between the hardware drivers and the upper layers of the system. Hardware drivers need to know nothing about the storage formats used, such as FTL, FFS2, etc., but will only need to provide simple routines for read, write and erase. Presentation of the device's contents to the user in an appropriate form will be handled by the upper layers of the system.

This piece of software is made available under the terms and conditions of the mtd-utils license, which can be found below.

Source: <http://www.linux-mtd.infradead.org/index.html>

ncurses (5.7)

The ncurses (new curses) library is a free software emulation of curses in System V Release 4.0 (SVr4), and more. It uses terminfo format, supports pads and color and multiple highlights and forms characters and function-key mapping, and has all the other SVr4-curses enhancements over BSD curses. SVr4 curses is better known today as X/Open Curses.

Source: <http://www.gnu.org/software/ncurses/>

net-tools (1.6)

The Net-tools?package is a collection of programs for controlling the network subsystem of the Linux kernel.

Source: <http://www.linuxfromscratch.org/blfs/view/6.3/basicnet/net-tools.html>

NTFS-3G Read/Write Driver (2010.5.22)

NTFS-3G is an open source cross-platform implementation of the Microsoft Windows NTFS file system with read-write support. NTFS-3G often uses the FUSE file system interface, so it can run unmodified on many different operating systems. It is runnable on Linux, FreeBSD, NetBSD, OpenSolaris, BeOS, QNX, WinCE, Nucleus, VxWorks, Haiku, MorphOS, and Mac OS X It is licensed under either the GNU General Public License or a proprietary license. It is a partial fork of ntfsprogs and is under active maintenance and development.

This piece of software is made available under the terms and conditions of the NTFS-3G Read/Write Driver license, which can be found below.

Source: <http://www.tuxera.com>

openssl (1.0.1j)

OpenSSL is an open source implementation of the SSL and TLS protocols. The core library (written in the C programming language) implements the basic cryptographic functions and provides various utility functions. Wrappers allowing the use of the OpenSSL library in a variety of computer languages are available.

Source: <http://www.openssl.org/>

procps (ps, top) (3.2.8)

procps is the package that has a bunch of small useful utilities that give information about processes using the /proc filesystem.

The package includes the programs ps, top, vmstat, w, kill, free, slabtop, and skill.

Source: <http://procps.sourceforge.net/index.html>

samba (3.0.37)

Samba is the standard Windows interoperability suite of programs for Linux and Unix.

Source: <http://www.samba.org/>

SaWMan (1.5.3)

SaWMan, the Shared application and Window Manager, is a new window manager module for use with DirectFB.

Source: <http://www.directfb.org>

sed (4.1.5)

sed (stream editor) isn't an interactive text editor.

Instead, it is used to filter text, i.e., it takes text input, performs some operation (or set of operations) on it, and outputs the modified text.

sed is typically used for extracting part of a file using pattern matching or substituting multiple occurrences of a string within a file.

Source: <http://www.gnu.org/software/sed/>

SQLite3 (2.12.2)

SQLite is a in-process library that implements a self-contained, serverless, zero-configuration, transactional SQL database engine.

This piece of software is made available under the terms and conditions of the SQLite3 license, which can be found below.

Source: <http://www.sqlite.org/>

SquashFS

SquashFS is a compressed read-only file system for Linux. SquashFS compresses files, inodes and directories, and supports block sizes up to 1 MB for greater compression. SquashFS is also the name of free/open software, licensed under the GPL, for accessing SquashFS filesystems.

This piece of software is made available under the terms and conditions of the SquashFS license, which can be found below.

Source: <http://squashfs.sourceforge.net/>

tar (1.17)

GNU Tar provides the ability to create tar archives, as well as various other kinds of manipulation.

For example, you can use Tar on previously created archives to extract files, to store additional files, or to update or list files which were already stored.

Source: <http://www.gnu.org/software/tar/>

u-Boot (2011.12)

The uboot will load the linux kernel to dram, and jump

to run .

This piece of software is made available under the terms and conditions of the u-Boot loader license, which can be found below.

Source: <http://www.denx.de>

udhcpc (0.9.8cvs20050303-3)

Source: <http://udhcp.sourceforge.com/downloads/0.9.8cvs20050303-3/>

uDirectFB (1.5.3)

Source: <http://www.directfb.org>

uriparser (0.7.7)

Uriparser is a strictly RFC 3986 compliant URI parsing and handling library written in C. uriparser is cross-platform, fast, supports Unicode and is licensed under the New BSD license.

Source: <http://uriparser.sourceforge.net/>

util-linux-ng (2.18)

Various system utilities.

Source: <http://userweb.kernel.org/~kzak/util-linux-ng/>

wget (1.10.2)

GNU Wget is a free software package for retrieving files using HTTP, HTTPS and FTP, the most widely-used Internet protocols.

It is a non-interactive commandline tool, so it may easily be called from scripts, cron jobs, terminals without X-Windows support, etc.

Source: <http://ftp.gnu.org/gnu/wget/wget-1.10.2.tar.gz>

wpa_supplicant v0.8(wext)/v2.3(cfg80211)

wpa_supplicant is a WPA Supplicant for Linux, BSD, Mac OS X, and Windows with support for WPA and WPA2 (IEEE 802.11i / RSN). It is suitable for both desktop/laptop computers and embedded systems. Supplicant is the IEEE 802.1X/WPA component that is used in the client stations. It implements key negotiation with a WPA Authenticator and it controls the roaming and IEEE 802.11

authentication/association of the wlan driver.

Source: https://w1.fi/wpa_supplicant/

xerces-c++ (3.1.1)

Source: <http://xerces.apache.org/>

zlib (6b)

The 'zlib' compression library provides in-memory compression and decompression functions, including integrity checks of the uncompressed data.

This piece of software is made available under the terms and conditions of the zlib license, which can be found below.

Source: <http://www.zlib.net/>

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