

User Manual

55PUG6794
65PUG6794

PHILIPS

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Get Support

1.1

Identify and Register Your TV

Identify your TV – TV model number and serial number

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

Register your TV

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

Go to www.philips.com/TVsupport

1.2

TV Help and User Manual

🏠 (Home) > Settings > Help

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

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

- **Check the TV** – You can check whether the picture, sound and Ambilight* are working well while playing a short video clip.

- **Check the Network** – Check the Network Connection.

- **Update software** – Check available software updates.

- **User manual** – Read the user manual for TV information.

- **Troubleshooting** – Find a solution for frequently asked questions.

- **Factory settings** – Reset all settings to factory settings.

- **Reinstall TV** – Reinstall and redo the complete TV installation.

- **Contact info** – Shows the telephone number or web address for your country or region.

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.

For more TV troubleshooting and frequently asked questions (FAQs)...

Go

to <http://philips-tvconsumercare.kxondemand.com/portal/en/ModelSelect>

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

1.4

Consumer Care / Repair

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

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

Or consult our

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

TV model number and serial number

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

⚠ Warning

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

Software

2.1


Update Software

Search for Updates

Update from Internet

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

- You need a computer with a high-speed Internet connection and a USB memory device to upload the software on the TV.

- Use a USB memory device with 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 > All settings > Update software > Search for updates > USB > Local updates.

For dealers and expert users.

2.2

Software Version

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

To view the current TV software version.

Quick Guide

3.1

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 - 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 - Ambilight

To select one of the Ambilight styles or switch off Ambilight.

3 - INFO

To open or close program info.

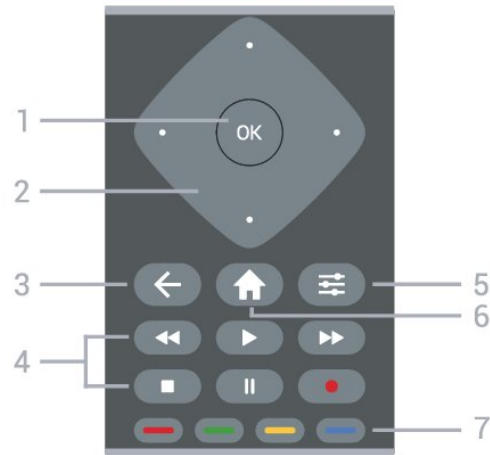
4 - SOURCES

To open the Sources menu.

5 - Search

To open the Smart TV searches page.

Middle



1 - OK key

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

2 - Arrow / navigation keys

To navigate up, down, left or right.

3 - BACK

To close a menu without changing a setting.

4 - Playback and Record

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

5 - OPTIONS

To open or close the Options Menu.

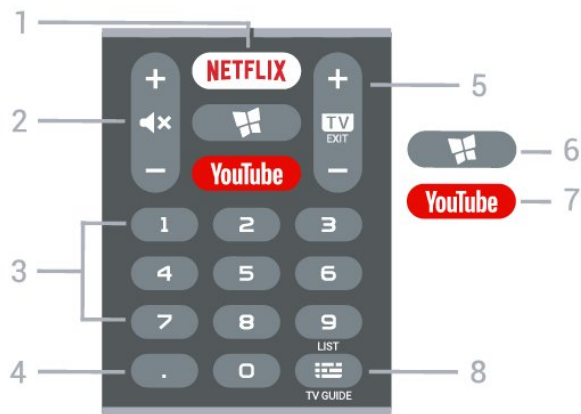
6 - Home

To open the Home menu.

7 - Color keys

Direct selection of options. Blue key , opens Help.

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.

Press **+** or **-** to adjust the volume.

3 - Number keys

To select a channel directly.

4 - **(Dot)**

To enter digital sub-channels.

5 - **TV EXIT** / **+** **-** Channel l

Press in the middle to switch back to watching TV or to stop an interactive TV application.

Press **+** or **-** to switch to the next or previous channel on the channel list.

6 - **SMART TV**

To open the Smart TV start page.

7 - **YouTube**

To open the YouTube app directly.

8 - **LIST / TV GUIDE**

Long press to open the channel list.

Short press to open or close the TV Guide.



⚠ Warning

Do not put any objects in front of IR sensor of the TV as 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 at the bottom of the TV to bring up the basic menu.

2 - Press left or right to select **🔊** Volume, **≡** Channel, or **📺** Sources. Select **🎬** Demo to start a demo movie.

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

The menu will disappear automatically.

3.2

IR sensor

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

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 color 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 6 inches 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 center of the screen.



Note:

Keep the TV away from dust-producing sources, such as stoves. Remove dust regularly to prevent dust from getting into the TV.

TV Stand

You can find the instructions for mounting the TV stand in the Quick Start Guide that comes with the TV. You can also 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 . . .



- 55PUx6794

VESA MIS-F 300x200, M6 (Minimum 10 mm, Maximum 18 mm)

- 65PUx6794

VESA MIS-F 400x200, M6 (Minimum 12 mm, Maximum 16 mm)

Caution

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

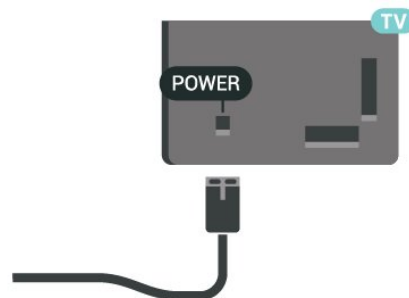
TP Vision Europe B.V. bears no responsibility for improper mounting or any mounting that results in accident or injury.

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 at the bottom of the TV.



Switch to standby

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

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

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

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

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.

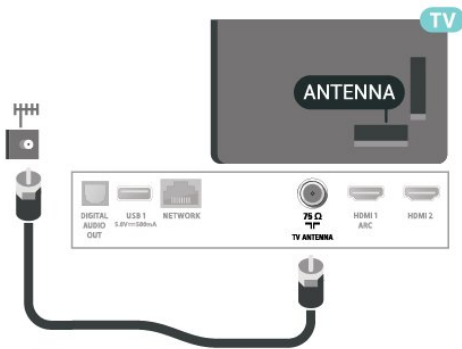
When you connect a device, the TV recognizes its type and gives each device a correct type name. You can change the type name if you wish. If a correct type name for a device is set, the TV automatically switches to the ideal TV settings when you switch to this device in the Sources menu.

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 connect to an antenna signal from an antenna distribution system. Use an F-type 75-ohm RF antenna connector.



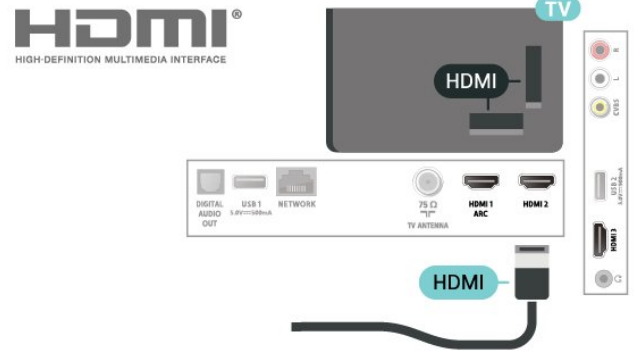
5.3

Video Device

HDMI

An HDMI connection has the best picture and sound quality.

For best signal quality transfer, use a high-speed HDMI cable. Do not use an HDMI cable longer than 16 feet (5 meters). You can connect devices supporting HDR to any of the HDMI connectors.

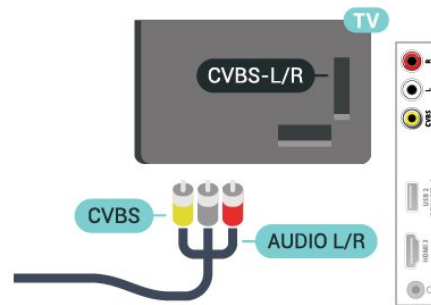


Copy protection

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).

Composite

AV IN - Composite Video is a standard quality connection. The Audio Left and Right signals for sound are next to the CVBS.



5.4

Audio Device

HDMI ARC

Only **HDMI 1** on the TV has **HDMI ARC** (Audio Return Channel).

If the device, typically a Home Theater System (HTS), also has the HDMI ARC connection, connect it to **HDMI 1** 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.

Mobile Device

Screen Mirroring

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, and, after connection, you can enjoy using Screen mirroring.

Stop Sharing

You can stop sharing a screen from the TV or 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 the TV. The TV will switch back to the last selected program.

From the TV

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

- press **TV 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.

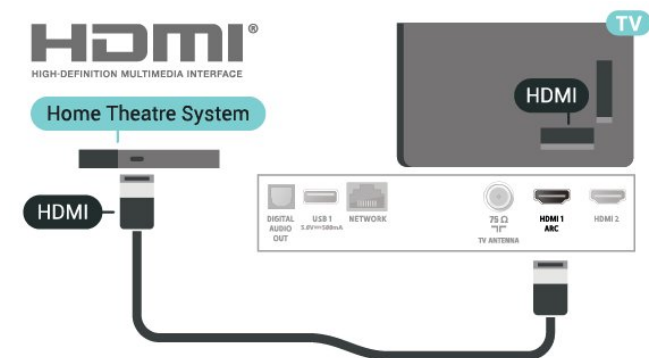
Note: Some devices do not support this function.

To block a device...

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

Unblock all devices

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




Digital Audio Out - Optical

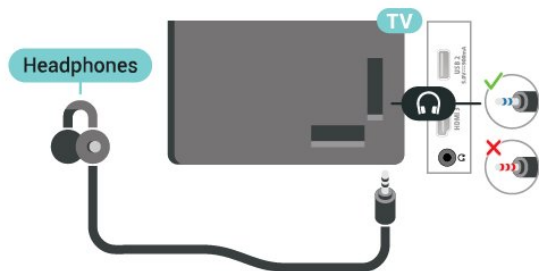
Audio Out - Optical is a high quality sound connection.

This optical connection can carry 5.1 audio channels. If your device, typically a Home Theater 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.



To unblock all blocked devices...

🏠 (Home) > Settings > All settings > Network > 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 > Network > 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 favorite 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.

5.6

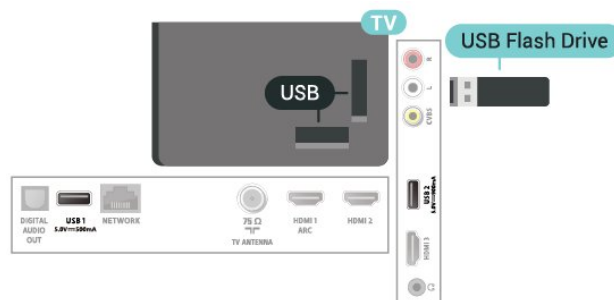
Other Device

USB Flash Drive

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

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

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



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

USB Hard Drive

Installation

If you connect a USB Hard Drive, you can pause or record a TV broadcast. The TV broadcast must be a digital broadcast (DVB broadcast or similar).

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

To Pause

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

To Record

To pause and record a broadcast, you need a minimum of 250GB disk space. If you want to record a broadcast with TV guide data from the Internet, you need to have the Internet connection installed on your TV before you install the USB Hard Drive.

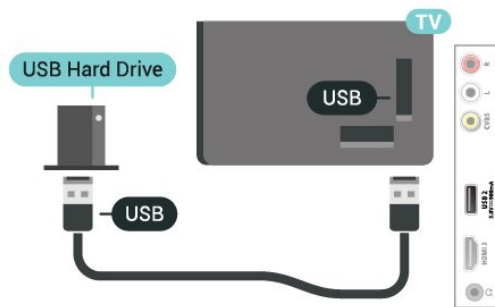
1 – Connect the USB Hard Drive to one of the **USB** connections on the TV. Do not connect another USB device to the other USB ports when formatting.

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

3 – When the TV is tuned to a digital TV channel, press **II** (Pause). Trying to pause will start the formatting.

Follow the instructions on screen.

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



Warning

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

To read the instructions, in Help, press the color key **Red** **Keywords** and look up **USB Hard Drive**.

Formatting

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

Warning

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

To format a USB Hard Drive...

- 1 - Connect the USB Hard Drive to one of the **USB** connections on the TV. Do not connect another USB device to the other USB ports when formatting.
- 2 - Switch on the USB Hard Drive and the TV.
- 3 - When the TV is tuned to a digital TV channel, press **II** (Pause). Trying to pause will start the formatting. Follow the instructions on screen.
- 4 - The TV will ask if you want to use the USB Hard Drive to store apps. Select **Agree** if you do.
- 5 - When the USB Hard Drive is formatted, leave it connected permanently.

5.7

Bluetooth

What You Need

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

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

Attention - Audio to Video synchronization

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

Pairing a Device

Position the wireless speaker within a distance of about 16 feet from the TV. Read the user manual of the device for specific information on pairing and on wireless range. Make sure the TV's Bluetooth setting is switched on.

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

To pair a Bluetooth device with the TV...

- 1 - Switch on the Bluetooth device and place it within range of the TV.
- 2 - Select **Home** > **Settings** > **All settings** > **Wireless and Networks** and press **Right** (right) to enter the menu.
- 3 - Select **Bluetooth** > **Search Bluetooth Device**, and press **OK**.
- 4 - Select **Search** and press **OK**. Follow the instructions on the screen. You will pair the device with the TV, and the TV will store the connection. You might need to unpair a paired device first if the maximum number of paired devices has been reached.
- 5 - Select the type of device and press **OK**.
- 6 - Press **Left** (left) repeatedly if necessary, to close the menu.

Select a Device

To select a wireless device...

- 1 - Select **⬆ (Home) > Settings > All settings > Wireless and Networks** and press **OK**.
- 2 - Select **Bluetooth > Search Bluetooth Device** and press **OK**.
- 3 - In the list, select the wireless device and press **OK**.
- 4 - Press **⬅ (left)** repeatedly if necessary, to close the menu.

You can also select the connected device ...

- 1 - Select **⬆ (Home) > Settings > Audio out** and press **OK**.
- 2 - In the list, select the wireless device and press **OK**.

Remove a Device

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






To remove or disconnect a wireless device...

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

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

- Only CVBS, HDMI sources can be renamed or replace device icon.

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

- 1 - Select one of the device icons and press **OK**. The preset name then appears in the text field.
- 2 - Press  (up) to move to the text field, press **OK**, then enter a new name using the on-screen keyboard.
 - Press the  (red) key to use lowercase
 - Press the  (green) key to use uppercase
 - Press the  (yellow) key to enter numbers and symbols
 - Press the  (blue) key to delete a character
- 3 - Select **Enter** when you are done.

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** then press **OK**.
- Press **⏮+ or ⏮-** to switch channels.
- If you know the channel number, type in the number with the number keys. Press **OK** after you entered the number to switch channels.
- To switch back to the previously tuned channel, press **⬅ BACK**.

To switch to a channel from a channel list

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

Channel icons

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

Radio channels

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

This TV can receive digital television standard time 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/Cable Installation

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.

Service Navigation

⬆ (Home) > Settings > Install Channels > Antenna/Cable Installation > Service navigation

- If the Service navigation is set to **On**, You can browse the primary and secondary channels by pressing channel **⏮+ and ⏮-**.
- If the Service navigation is set to **Off**, you can only browse the primary channels using channel **⏮+ and ⏮-**.

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**.

Antenna Connection

🏠 (Home) > Settings > Install Channels > Antenna/Cable Installation > Antenna Connection

- 1 - Select **Antenna** or **Cable**, and press **OK**.
- 2 - Select **Start** and press **OK**. This can take a few minutes.

Channel Logos

🏠 (Home) > Settings > All settings > Channels > Channel logos

In some countries, the TV can show the channel logos. If you do not want these logos to appear, you can switch them off.

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 must be 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 > Expert mode settings > Channel list copy > Copy to USB

Check channel list version

🏠 (Home) > Settings > All settings > Channels > Expert mode settings > 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 > Expert mode settings > Channel List Copy > Copy to TV, then 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 > Expert mode settings > Channel List Copy > Copy to TV, then 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.

Program info


Select **Program info** to view information about the program you are watching.


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 color key  **Keywords** and look up **Audio Language**.

Closed Caption

To switch on Closed Caption, press  **OPTIONS**, then select **Closed Caption**.

Switch **Closed Caption** **On** or **Off** with this option. Select **On During Mute** to show closed captions only when the sound is muted with .

Caption Service

Select the correct type of closed caption services. For more information, in **Help**, press  **Keywords** and look up **Closed Caption**.

Dual I-II


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


Channel info

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

Universal Access

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

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





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

7.3

Channel List

Open Channel List




To open the current channel list...

- 1 - Press , to switch to TV.
- 2 - Press **OK** to open the current channel list.
- 3 - Press  **OPTIONS** > **Select channel list**, or long press  **TV Guide** to open the 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 , to switch to TV.
- Press **OK** to open the current channel list.
- Press  **OPTIONS**, and select one of options.
- Press  **BACK** to close the channel list.

Select Channel Filter


- 1 - Press , to switch to TV.
- 2 - Press **OK** to open the current channel list.
- 3 - Press  **OPTIONS** > **Digital**
- 4 - Select one of channel combinations showing in the channel list.

Create or Edit Favorites Channel List

 **OK** >  **OPTIONS** > **Create favorites list**

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

 **OK** >  **OPTIONS** > **Edit favorites**

Select a channel, then press **OK** to add to or remove from a channel favorites list. When you are done, press  **Done**.

Select Channel Range

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

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

Select Channel List

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

Select a range of channels in a favorites 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 - Press OK to open the current 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 the navigation keys to select a character, then press OK.
 - Press the **red** (red) key to use lowercase
 - Press **green** (green) key to use uppercase
 - Press the **yellow** (yellow) key to enter numbers and symbols
 - Press the **blue** (blue) key to delete a character
 - Select Enter to start searching
- 6 - Select **Done** when the search is done.
- 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 programs from connected devices.

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

Remove Favorite List

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

To remove existing favorite list, select Yes.

7.4

Favorite Channels

About favorite Channels

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

Create a favorites List

- 1 - While watching a TV channel, press OK to open the channel list.
- 2 - Select the channel, and press **green** Mark as favorites to mark as favorite.
- 3 - The selected channel is marked with a **♥**.
- 4 - To finish, press **←** BACK. The channels are added to the Favorites list.

Remove Channel from the Favorites List

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

Favorites List on TV Guide

You can link the TV Guide to your Favorites List.

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

Use the TV Guide to view a list of current and scheduled TV programs on your favorite channels. Also, the 3 most watched channels on the broadcasters' default list appear after your favorite channels for preview. You need to add these channels to your favorites list to enable their operation (refer to "TV Guide" chapter).

On each page of the TV Guide, there is a "Did you know" grid inserted on your channel favorites list. The "Did you know" channel gives you useful tips on improving the way you use your TV.

7.5

Closed Caption and Language


Closed Caption

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

Note:

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


Switch on closed caption

- 1 - While you watch TV, press  **OPTIONS**.
 - 2 - Select **Closed Caption** > **On** and press **OK**.
- **On**: Closed caption is always on.
 - **Off**: Closed caption is always off.
 - **On during mute**: Closed caption is on only when the sound is muted with .

Note: Ginga is for Brazil only.


- When **CC** set to **On**, **Ginga** is **Off**.
- When **CC** set to **Off**, **Ginga** is **On** or **Off**.
- When **CC** set to **On** or **On during mute**, **Ginga** is **Off**.
- When **Ginga** set to **On**, **CC** is **Off**.

Select type of closed caption

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

Audio Language

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

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



Note:

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

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

Menu Language

To change the language of the TV menus and messages...


- 1 - Press  (**Home**), select **Settings** > **All settings** > **General settings** > **Language** > **Menu language**, then press **OK**.
- 2 - Select the language you want and press **OK**.
- 3 - Press  (left) repeatedly if necessary, to close the menu.

7.6

Ginga

Note: This is for Brazil only.

You can set **Ginga** to **On** or **Off**.

- 1 - Press  (**Home**).
- 2 - Select **Settings** > **All Settings** > **Channels** > **Ginga** and press **OK**.
- 3 - Select **On** or **Off**.

TV guide

8.1

What You Need

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

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

8.2

Using the TV Guide

Open the TV Guide

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

Press **≡ TV GUIDE** again to close.

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

Tune to a program

Switch to a program

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

View program details

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

Change Day

If the TV guide information comes from the broadcaster, you can press **+** to view the schedule for any of the next few days. Press **-** to go back to the previous day.

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

Set a Reminder

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

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

To set a reminder...

- 1 - Press **≡ TV GUIDE** and select an upcoming program.
- 2 - Press **🕒** Set reminder and press **OK**.

To clear a reminder...

- 1 - Press **≡ TV GUIDE** and select a program with the reminder, which is marked with a **🕒** (clock).
- 2 - Press **🕒** Clear reminder, and select **Yes**, then press **OK**.

Search by Genre

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

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

List of Reminders

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



List of Reminders

To open the list of reminders...



- 1 - Press **≡ TV GUIDE**.
- 2 - Press **≡ OPTIONS** and select **All reminders**.
- 3 - In the list of reminders, select the reminder you want to remove, the selected reminder is marked as **✓**.
- 4 - Select **Clear selected**, then press **OK**.
- 5 - Select **Close** to close the list of reminders.

Set a Recording



You can set a recording in the TV Guide.

To see the recording list, press  **Recordings** , a program set to be recorded is marked with a  (red dot) before the program's name.

To record a program...

- 1 - Press  **TV GUIDE** and select a future or ongoing program.
- 2 - Press the color key  **Record** .

To cancel a recording...

- 1 - Press  **TV GUIDE** and select the program set for recording.
- 2 - Press the color key  **Clear recording** .

Recording and Pause TV

Recording

What You Need

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

To record a TV program, you need...

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

You cannot record when you are using Pause TV.

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

Record a program

Record Now

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

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

When TV Guide data is available, the program you are watching will be recorded from the moment you pressed the recording key until the program ends.

- If you receive TV guide information from the broadcaster, the recording starts immediately. You can adjust the end time of the recording in the list of recordings.

Schedule a Recording

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

To record a program...

- 1 - Press **≡** TV GUIDE.
- 2 - On the TV guide, select the channel and program you wish to record. Press **➤** (Right) or **➤** (Left) to scroll through the programs of a channel.
- 3 - With the program highlighted, press the color key **■** Record . The program is now scheduled for recording. A warning will show automatically when overlapping recordings are scheduled. If you plan to record a program in your absence, remember to leave the TV switched to Standby and the USB Hard Drive switched on.

List of Recordings

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

To open the list of recordings...

Press **≡** TV GUIDE.

- 1 - Press the color key **■** Recordings .
- 2 - In the list of recordings, select the tabs **New**, **Watched** or **Expired** and press **OK** to filter your view.
- 3 - With a recording selected in the list, you can remove the recording with the color key **■** Remove . You can rename a recording with the color key **■** Rename .

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

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

Manual recording

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









To schedule a recording manually...

- 1 - Press **≡** TV GUIDE.
- 2 - Press the color key **■** Recordings .
- 3 - Press the color key **■** Schedule and press **OK**.
- 4 - Select the tuner from where you want to record and press **OK**.
- 5 - Select the channel to record from and press **OK**.
- 6 - Select the day of the recording and press **OK**.
- 7 - Set the start and end time of the recording. Select a button and use the **▲** (up) or **▼** (down) keys to set the hours and minutes.
- 8 - Select **Schedule** and press **OK** to schedule the manual recording.

The recording will appear in the list of scheduled recordings and reminders.

Watch a Recording

To watch a recording...

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

9.2

Pause TV

What You Need

To pause a TV program, you need...




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



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


You cannot use Pause TV when you are recording.

Pause a program

To pause and resume a broadcast...

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






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

To switch back to the actual TV broadcast, press  (Stop).

Replay

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

To replay a current broadcast...

- 1 - Press  (Pause)
- 2 - Press  (Rewind). You can press  repeatedly to select from where you want to start viewing the paused broadcast. Press these keys repeatedly to change speed. At one point you will reach the start of the broadcast storage or the maximum time span.
- 3 - Press  (Play) to watch the broadcast again.
- 4 - Press  (Stop) to watch the broadcast live.

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 organized on the USB Hard Drive.

Warning

If you try to pause or record a program 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.

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)

Photo Options

With a photo on screen, 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 music playback.

Slideshow speed

Set the speed of the slideshow.

Slideshow transitions

Set the transition from one picture to the next.

360 Photo

View 360 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 **360 Photos**, and you can press **Sort** to browse your 360 photos by date, month, year or alphabetically by name.
- 4 - Select one of 360 photos, and press **OK** to view it.
 - To view photos, select **360 Photos** in the menu bar, select a photo thumbnail and press **OK**.
 - If there are several 360 photos in the same folder, select a 360 photo and press **Slide show** to start a slide show of all 360 photos in the 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), **▶** (Play all/Play one), **⏴** (Little Planet), **⏵** (Auto Mode/Manual mode).
 - Little Planet: An alternate and fun view of 360 photos. When Little Planet view is started, the 360 photo is rendered in a wrapped around view, like a planet.
 - Auto Mode/Manual mode: when the 360 player is started, it auto pans the selected 360 photo from left to right (0 to 360 degrees) in 360 view. When manual mode is entered, the 360 player stops auto panning/rotating to allow manually panning/rotating with the remote control keys.

360 Photo Options

With a 360 photo on-screen, press  **OPTIONS** to...

List/Thumbnails

View 360 photos with list view or thumbnail 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 music playback.






10.4

Videos















Play Videos

To play a video on the TV...


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

- To pause the video, press **OK**. Press **OK** again to continue.
- To rewind or fast forward, press  or . Press the keys several times to speed up to 2x, 4x, 8x, 16x, 32x.
- To jump to the next video in a folder, press **OK** to pause, then 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)

Video Options

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

List/Thumbnails

View video files with list view or thumbnail 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)

Music Options

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

Shuffle off, Shuffle on

Play songs in sequential order or at random.

Repeat, Play once

Play songs on a loop or just once.

Open TV Setting Menus

11.1

Home Menu Overview

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

Sources

This row contains available sources on this TV.

Watch TV

This row contains TV functions available to the 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 available to the 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.

11.2

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 the 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 a preset Ambilight style.
- **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.
- **Picture settings** – Adjust all picture settings.
- **All settings** – View all settings menu.
- **Help** – Diagnose and get more information about your TV. For more information, in **Help**, press the color 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**.

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

11.3

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
- **Football** – Ideal for watching sports
- **Standard** – Most energy conscious setting
- **Movie** – Ideal for watching movies
- **Game** – Ideal for gaming*
- **Monitor** – Ideal for computer monitor**

* Picture style – Game and Monitor are not available for some video sources.

** Picture style – Monitor is only available when HDMI source video is compatible with the PC application.

Custom a style

You can adjust and store picture settings in the

currently selected picture style,
like Color, 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**.

For HDR content

The styles for HDR content are...

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

For Dolby Vision content

The styles for Dolby Vision content are...

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

Color, Contrast, Sharpness, Brightness

Adjust the picture color

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

Press the arrows **⬆️ (up)** or **⬇️ (down)** to adjust the color saturation value of the picture.

Adjust the picture contrast

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

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

You can decrease contrast value to reduce power consumption.

Adjust the picture sharpness

⬆️ (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

Tint

⬆️ (Home) > Settings > All settings > Picture > Expert mode settings > Tint

With **Tint**, you can adjust the level of tint in fine detail of the picture. (NTSC only)

Color Settings

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

Adjust the color enhancement

⬆️ (Home) > Settings > All settings > Picture > Expert mode settings > Color enhancement

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

Select the preset color temperature

⬆️ (Home) > Settings > All settings > Picture > Expert mode settings > Color temperature

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

Customize color temperature


⬆️ (Home) > Settings > All settings > Picture > Expert mode settings > Custom color temperature

Select **Custom** in Color temperature menu to customize a color temperature yourself. Press the arrows **⬆️ (up)** or **⬇️ (down)** to adjust the value.

Whitepoint alignment

⬆️ (Home) > Settings > All

settings > Picture > Expert mode settings > Whitepoint alignment

Customize the whitepoint alignment based on the selected color temperature of the picture. Press the arrows ▲ (up) or ▼ (down) to adjust the value, and 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 Plus

🏠 (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 HDR (High-Dynamic Range) signal is detected.

• The TV can play HDR programs from any HDMI connection, broadcast, Internet source (e.g. Netflix) or connected USB memory device.

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 Artifact Reduction

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

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

Motion Settings

Motion Styles

Motion Styles

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

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

Select **Off** to switch off or select one of the motion

styles to have a better viewing experience.
(Movie, Sports, Standard, Smooth or Personal)

Not available for below cases:

- **🏠 (Home) > Settings > All settings > Picture style > Game.**
- Network/Internet streaming Ultra HD 50Hz/60Hz videos.

Natural Motion

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 wide screen.
- **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 may still show black bars.
- **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** – shows the original format of the incoming picture.

- **🏠 (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** 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 program 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 check more advanced sound settings

Custom a style

You can adjust and stored sound settings in the currently selected sound style.

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 to sound. With height dimension, sound can be precisely placed and moved in three-dimensional space.

Clear dialog

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

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

Equalizer

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

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 **Analog** 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 **Bluetooth**, select one of your connected Bluetooth audio devices. The TV will switch off the TV speakers when the device is playing the sound.
- 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 leveling

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

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 Theater Systems you might need to adjust the audio sync delay to synchronize the audio to the video. Select **Off** if a sound delay is set on your Home Theater 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 Theater System, you can set the TV to sync the sound.
- You can set an offset that compensates for the time necessary for the Home Theater System to process the sound of the TV picture.
- You can set the value in steps of 5ms. Maximum setting is 60ms.

General Settings

Connection Related Settings

Format USB Hard Drive

🏠 (Home) > Settings > All settings > General settings > Format USB Hard Drive

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

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.

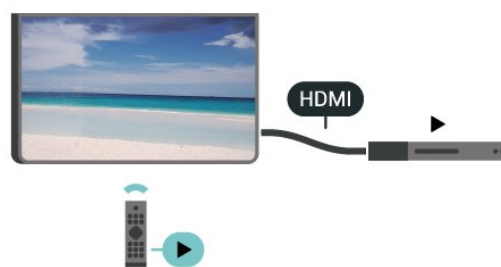
Mouse Settings

🏠 (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 Theater 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 recognize 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.

Supported 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**.

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 the 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 a 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 play.

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 minute

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

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 time setting for the TV clock is Automatic. The time information comes from the broadcasted UTC - Coordinated Universal Time information.

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

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 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.

Dialog enhancement

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

Increase the intelligibility of dialog and commentary.

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 programs.

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

Age Rating

🏠 (Home) > Settings > All settings > Child lock > Age ratings lock

To prevent children from watching a program not suitable for their age, you can set a minimum age to watch rated programs.

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

Content Rating

🏠 (Home) > Settings > All settings > Child lock > Content ratings lock

To prevent children from watching a program not suitable for them, you can set a lock to block the rated programs.

Digital channels can have their programs rated by content. To watch a locked program, you must enter the Child lock code first.

App lock

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

You can lock apps unsuited for children. The App lock asks 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.

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.



Turn Wi-Fi On or Off

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

Make the Connection

Make the Connection - Wireless

⬆ (Home) > Settings > All settings > Wireless and networks > Connect to network > Wireless

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

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

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

Make the Connection - WPS

⬆ (Home) > Settings > All settings > Wireless and networks > Connect to network > WPS

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

- 1 - Go to the router, press the WPS button and return to the TV within 2 minutes.
- 2 - Select **Connect** to make the connection.
- 3 - A message will be shown when the connection is successful.

Make the Connection - WPS with PIN Code

⬆ (Home) > Settings > All settings > Wireless and networks > Connect to network > WPS with PIN Code

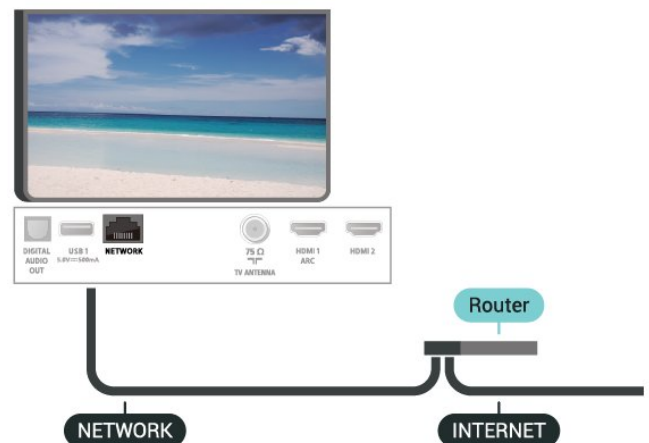
If your router has WPS with a PIN code, you can directly connect to the router without scanning for networks. If you have devices in your wireless network that use the WEP security encryption system, you cannot use WPS.

- 1 - Write down the 8-digit PIN code shown on screen and enter it in the router software on your PC. Consult the router manual on where to enter the PIN code in the router software.
- 2 - Select **Connect** to make the connection.
- 3 - A message will be shown when the connection is successful.

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 > Connect to network > Wired

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

2 - Make sure that the router is turned 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 > 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 > 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 > Static IP configuration

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

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

Switch On with Wi-Fi (WoWLAN)

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

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

Switch on Wi-Fi connection

🏠 (Home) > Settings > All settings > Wireless and networks > 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 > Reset Screen mirroring connections

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

TV network name

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

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

Clear Internet Memory

🏠 (Home) > Settings > All settings > Wireless and networks > 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 favorites, Internet bookmarks and history. Interactive MHEG applications can also save so-called 'cookies', on your TV. These files will also be cleared.

Bluetooth

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

You can connect, disconnect, or removed a wireless Bluetooth device.

Interactive TV settings

This takes you to the **Viewing data settings** where you can enable or disable the collection of your viewing data by Samba TV and access Samba TV's **Privacy Policy**, which explains how viewing data is collected (if you enable collection) and used.

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 one of your links to the Internet.

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

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.

Recommended Apps

In this window, Philips presents a range of recommended Apps for your country, Apps for Online TV or a selection of rental movies from Video stores. You can select and open them from the Recommended Apps window.

App Gallery

Open the **App Gallery** on home screen to browse the Apps, the collection of tailored websites for TV.

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

Search

With Search, you can search the **App Gallery** for 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. Select a keyword from list of keywords found and press **OK** to search for items with that keyword.

TV on Demand

TV on Demand

🏠 (Home) > Apps > TV on Demand

You can watch TV programs you missed or watch your favorite programs whenever it suits you best.

Ambilight

15.1

Ambilight Style

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

You can select the way Ambilight follows.

Follow Video

🏠 (Home) > Settings > Ambilight > Ambilight style > Follow video

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

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

Follow Audio

🏠 (Home) > Settings > All settings > Ambilight > Ambilight style > Follow audio

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

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

Follow Color

🏠 (Home) > Settings > All settings > Ambilight > Ambilight style > Follow Color

Select one of the preset color styles.

- **Hot lava** – Red color variations
- **Deep water** – Blue color variations
- **Fresh nature** – Green color variations
- **Warm white** – Warm white color variations
- **Cool white** – Cool white color variations

Follow Flag

🏠 (Home) > Settings > All settings > Ambilight > Ambilight style > Follow flag

Select one of the preset flag styles.

Follow App

🏠 (Home) > Settings > Ambilight > Ambilight style > Follow app

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

15.2

Ambilight Brightness, Saturation

Brightness

🏠 (Home) > Settings > All settings > Ambilight > Brightness

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

Saturation

🏠 (Home) > Settings > All settings > Ambilight > Saturation

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

15.3

Ambilight+hue

Configure the Hue Bulbs

Step 1 - Network

🏠 (Home) > Settings > All settings > Ambilight > Ambilight + hue > Configure the hue bulbs

In this first step, you will prepare the TV to find the **Philips Hue Bridge**. The TV and the Philips Hue Bridge must use the same network.

Setting up...

1 – Connect the Philips Hue Bridge to the power outlet.

2 – Connect the Philips Hue Bridge to the same router you are using for the TV — use an Ethernet cable to connect.

3 - Switch on the Hue bulbs.

To start the configuration...

1 - Press **⬆️ (Home)** > **Settings** > **All settings** > **Ambilight** > **Ambilight + hue** > **Configure the hue bulbs**.

2 - Select **Start now** and press **OK**. The TV will search for the Philips Hue Bridge. If the TV is not yet connected to your network, the TV will start the network setup first. If the Philips Hue Bridge appears in the list, select the Hue Bridge you want to use.

For more info on connecting the TV to your home network, in **Help**, press the color key **⬇️ Keywords** and look up **Network Settings**.

Step 2 - Hue Bridge

In the next step, you will link up the TV with the **Philips Hue Bridge**.
The TV can only be linked up to one Hue Bridge.

To link the Hue Bridge...

1 - With the TV connected to your home network, it will show the available Hue Bridges. If the TV did not find your Hue Bridge yet, you can select **Scan again** and press **OK**.

If the TV found the only Hue Bridge you have, select the Hue Bridge name and press **OK**.

If you have more than one Hue Bridge available, select the Hue Bridge you want to use and press **OK**.

2 - Select **Start** and press **OK**.

3 - Now go to the **Philips Hue Bridge** and press the link button in the middle of the device. This will link the Hue Bridge with the TV. Do this within 30 seconds. The TV will confirm if a Hue Bridge is now linked to the TV.

4 - Select **OK** and press **OK**.

With the Philips Hue bridge linked to the TV, go to page **Hue bulbs**.

Step 3 - Hue Bulbs

In the next step, you will select the **Philips Hue bulbs** that have to follow the Ambilight.
You can select a maximum of 9 Philips Hue bulbs for Ambilight+hue.

To select the bulbs for Ambilight+hue...

1 - In the list, mark the bulbs that have to follow the Ambilight. To mark a bulb, select the bulb name and press **OK**. When you mark a bulb, the bulb will blink once.

2 - When you're done, select **OK** and press **OK**.

Step 4 - Configure Bulb

In the following step, you will configure each **Philips Hue bulb**.

To configure each Hue bulb...

1 - Select a bulb to configure and press **OK**. The bulb you selected is flashing.

2 - Select **Start** and press **OK**.

3 - First indicate where you placed the bulb relative to the TV. A correct setting of the **Angle** will send the correct Ambilight color to the bulb. Select the slider bar to adjust the position.

4 - Secondly, indicate the **Distance** between the bulb and the TV. The further away from the TV, the weaker the Ambilight color. Select the slider bar to adjust the distance.

5 - Finally, set the **Brightness** of the bulb. Select the slider bar to adjust the brightness.

6 - To stop configuring this bulb, select **OK** and press **OK**.

7 - In the **Configure Ambilight+hue** menu, you can do the same for each bulb.

8 - When all Ambilight+hue bulbs are configured, select **Finish** and press **OK**.

Ambilight+hue is ready for use.

Ambilight+hue Settings

⬆️ (Home) > **Settings** > **All settings** > **Ambilight** > **Ambilight + hue** > **Switch off**

Switch off Ambilight+hue

⬆️ (Home) > **Settings** > **All settings** > **Ambilight** > **Ambilight + hue** > **Immersion**

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

⬆️ (Home) > **Settings** > **All settings** > **Ambilight** > **Ambilight + hue** > **Lounge light+hue**

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

⬆️ (Home) > **Settings** > **All settings** > **Ambilight** > **Ambilight + hue** > **View configuration**

View current setup of the Ambilight+hue, network,

Bridge and bulbs.

🏠 (Home) > Settings > All settings > Ambilight > Ambilight + hue > Reset configuration

Reset current setup of the Ambilight+hue.

15.4

Advanced Ambilight Settings

Wall color

🏠 (Home) > Settings > All settings > Ambilight > Advanced > Wall color

- Neutralize the influence of a colored wall on the Ambilight colors
- Select the color of the wall behind the TV and the TV will modify the Ambilight colors to appear as they are intended.

TV switch off

🏠 (Home) > Settings > All settings > Ambilight > Advanced > TV switch off

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

15.5

Lounge Light Mode

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

After putting your TV on standby, if you want to switch on the Ambilight lounge light, follow these steps:

- 1 - Press the **Ambilight** button.
- 2 - After pressing the **Ambilight** button, the Ambilight lounge light is switched on.
- 3 - Press the **Ambilight** button again if you want to change to a different lighting effect.
- 4 - To switch off the Ambilight lounge light, press the **Ambilight** button until you see the light turn off. You may need to press the **Ambilight** button a few times.

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

Amazon Prime Video

With 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, visit www.primevideo.com.

YouTube

YouTube provides a platform to connect to the world. Watch and discover popular videos 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, visit www.youtube.com.

Environmental

19.1

Energy Label

The **Energy Label** informs you of the energy efficiency class of this product. The greener the energy efficiency class is, the less energy it consumes. The label shows 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.

Batteries and Cells



WARNING: Be careful when handling and disposing of batteries and cells.

- Do not dispose of batteries and cells in your general household waste.
- Improper disposal of batteries and cells can pose a hazard to health and the environment.
- To help protect our health and the environment, Envision provides collection points at its Service Centers.
- To prevent leakage from batteries or cells, which can cause damage to health, the environment and the product, we recommend the following: (i) Remove batteries from remote controls if they are not used for a long time. (ii) Do not mix batteries (old batteries with

new batteries, regular batteries with alkaline batteries, etc.) (iii) Do not expose products containing batteries/cells to high temperatures.

- Batteries and cells disposed of and received by Envision-approved Service Centers are taken to an ecologically sound destination.
- If you have any questions or concerns, please call +55 (11) 2938 0245 (Greater São Paulo) and +55 800 701 0245 (other regions and states) or go to <http://www.philips.com.br>.

DISPOSAL OF BATTERIES AND CELLS



After use, batteries and/or cells should be taken to the business establishment or approved service center network.

Linha Verde automated telephone system

If you have any concerns about the environment and sustainability, please contact Linha Verde at +55 (92) 2126 8977. Envision and the environment thank you for your cooperation.

CUIDADO! Evite o uso prolongado do aparelho com volume superior a 85 decibéis, pois isto poderá prejudicar a sua audição.

A tabela abaixo lista alguns exemplos de situações e respectivos níveis de pressão sonora em decibéis.

Nível de Decibéis	Exemplo
30	Biblioteca silenciosa, susurros leves.
40	Sala de estar, refrigerador, quarto longe de trânsito.
50	Trânsito leve, conversação normal, escritório silencioso.
60	Ar-condicionado a uma distância de 6m, máquina de costura.
70	Aspirador de pó, secador de cabelo, restaurante ruidoso.
80	Tráfego médio de cidade, coletor de lixo, alarme de despertador a uma distância de 60cm.
OS RUÍDOS ABAIXO PODEM SER PERIGOSOS EM CASO DE EXPOSIÇÃO CONSTANTE	
90	Metrô, motocicleta, tráfego de caminhão, cortador de grama.
100	Caminhão de lixo, serra elétrica, furadeira pneumática.
120	Show de banda de rock em frente às caixas acústicas, trovão.
140	Tiro de arma de fogo, avião a jato
180	Lançamento de foguete.

- Informação cedida pela Deafness Research Foundation, por cortesia.

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 110–240V +/-10%
- Ambient temperature: 5°C to 35°C

20.2

Reception

- Antenna input: 75 ohm coaxial (F-type)
- Tuner bands: Hyperband, UHF, VHF
- ISDB-T
- Analog video playback: 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)

20.3

Display Resolution

Diagonal screen size

- 55PUx6794: 139 cm / 55 inch
- 65PUx6794: 164 cm / 65 inch

Display resolution

- 3840 x 2160

20.4

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 recognize 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.

Composite

- PAL, NTSC, SECAM

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

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, HEVC, H.264/MPEG-4 AVC, MPEG1, MPEG2, MPEG4, WMV9/VC1, VP9
- 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)
- Image Codec: JPEG, GIF, PNG, BMP, HEIF, 360 photo

Wi-Fi Certified

This TV supports Wi-Fi certified devices.

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

Connectivity

TV Side

- CVBS: CVBS, Audio L/R
- USB 2: USB 3.0
- HDMI 3 in: UHD – HDR
- Headphones: Stereo mini-jack 3.5mm

TV Bottom

- Digital Audio out: Optical
- USB 1: USB 2.0
- Network LAN: RJ45
- SERV.U – "SERV.U" is used by customer service to troubleshoot any faults.
- Antenna (75 ohm)
- HDMI 1 in: ARC – UHD – HDR
- HDMI 2 in: 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.

For more TV troubleshooting and frequently asked questions (FAQs)...

Go to <http://philips-tvconsumercare.kxondemand.com/portal/en/ModelSelect>

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 behavior. 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 color 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 color 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 behavior.
- 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 broadcast system.
- Redo the installation and check if you select the correct country and system.

No analog channels found during the installation

- Check if the TV was connected with an antenna. Check the cable connections.
- Check if you selected the correct broadcast system.
- Redo the installation and select **Digital and Analog Channels** during the installation.

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

- Check if you selected the correct **Channel list** or **Favorites 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 favorites list.
- A channel can be deleted from the channel list during **Automatic channel update**. Automatic updates take place overnight if the TV is on standby. Channels that do not exist anymore are deleted and new channels are 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 prevent channels from being deleted during **Automatic channel update** because the TV could not find them, although they still exist, you can switch off **Automatic channel update**.

⬆ (Home) > Settings > All Settings > Channels > Antenna/cable installation > Automatic channel update

21.5

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 analog 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 Installation > 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 strength** and **Signal quality**.

Poor picture from a device

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

Picture settings change after a while

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

⬆ (Home) > Settings > 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 constantly, press **⬆️ (Home)** > **Settings** > **All settings** > **Picture** > **Picture Format** > **Fit to screen**.
- If the position of the picture is incorrect, try to check the signal resolution and output type of the connected device, and 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** >

21.6

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 Theater 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 Theater System.
- Make sure that the TV audio output is connected to the audio input on the Home Theater System. Sound should be heard from the HTS (Home Theater 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 Theater System might be distorted. This noise is heard when the audio or video file has DTS sound but the Home Theater 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**

21.7

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 recognize 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 recognize 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 color 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 behavior is normal.

21.8

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 color 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.

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.

Wrong Menu Language

Change the language back to your language.

- 1 - Press **⬆** (Home), select **Settings > Region and language > Languages > Menu language** and press **OK**.
- 2 - Select the language you want and press **OK**.
- 3 - Press **⬅** **BACK** to close the menu.

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 split 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 main 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 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.
- 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 use cabinets or stands or mounting methods recommended by the manufacturer of the television.
- ALWAYS use furniture that can safely support the television.
- ALWAYS educate children about the dangers of climbing on furniture to reach the television or its controls.
- ALWAYS route cords and cables connected to the television so that they cannot be tripped over, pulled or grabbed.
- NEVER place a television in an unstable location.
- NEVER place the television on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and television to a suitable support.
- NEVER place the television on cloth or other materials that may be located between the television 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 is going to be retained and relocated, the same considerations as above should be applied.

Risk of Swallowing Batteries

The remote control may contain coin-type batteries which can easily be swallowed by small children. Keep these batteries out of reach of children at all times.

Risk of Overheating

Never install the TV in a confined space. Always leave a space of at least 10 cm or 4 inches around the TV for ventilation. Ensure curtains or other objects never cover the ventilation slots on the TV.

Lightning Storms

Disconnect the TV from the power outlet and antenna before lightning storms.

During lightning storms, never touch any part of the TV, power cord or antenna cable.

Risk of Hearing Damage

Avoid using earphones or headphones at high volumes or for prolonged periods of time.

Low Temperatures

If the TV is transported in temperatures below 5°C or 41°F, unpack the TV and wait until the TV temperature reaches room temperature before connecting the TV to the power outlet.

Humidity

In rare occasions, depending on temperature and humidity, minor condensation can occur on the inside of the TV glass front (on some models). To prevent this, do not expose the TV to direct sunlight, heat or extreme humidity. If condensation occurs, it will disappear spontaneously while the TV is playing for a few hours.

The condensation moisture will not harm the TV or cause malfunction.

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 color fading, wipe off water drops as quickly as possible.
- Avoid stationary images as much as possible.

Stationary images are images that remain on screen for extended periods of time. Stationary images include on screen 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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Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips N.V. or their respective owners. Envision reserves the right to change products at any time without being obliged to adjust earlier supplies accordingly.

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

The material in this manual is believed adequate for the intended use of the system. If the product, or its individual modules or procedures, are used for purposes other than those specified herein, confirmation of their validity and suitability must be obtained. Envision warrants that the material itself does not infringe any United States patents. No further warranty is expressed or implied. Envision 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 authorized in this manual, shall void the warranty.

Pixel characteristics

This TV product has a high number of color 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.

Envision is committed to developing, producing and marketing products that cause no adverse health effects. Envision 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. Envision plays an active role in the development of safety standards, enabling Envision to anticipate further developments in standardization for early integration in its products.

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24.5

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Open Source

25.1

Open Source Software

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

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25.2

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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/Main_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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