User Manual

24HFL3011T
32HFL3011T
40HFL3011T
43HFL3011T

PHILIPS

Contents

1
Setting up

1.1
Read safety

Read the safety instructions first before you use the TV.

1.2
TV stand and wall mounting

TV stand

You can find the instructions for mounting the TV stand in the Quick Start Guide. The Quick Start Guide can be downloaded from www.philips.com.
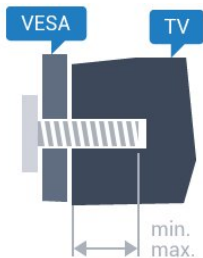
Use the product type number of the TV to look for the Quick Start Guide to download.

Wall mounting

Your TV is also prepared for a VESA-compliant wall mount bracket (sold separately).
Use the following VESA code when purchasing the wall mount . . .
To fix the bracket securely, use screws with a length indicated in the drawing.

– 24HFL3011 – VESA MIS-F 75x75, M4 (Minimum 10 mm, Maximum 12 mm)
– 32HFL3011 – VESA MIS-F 100x100, M4 (Minimum 10 mm, Maximum 15 mm)
– 40HFL3011 – VESA MIS-F 200x200, M4 (Minimum 10 mm, Maximum 15 mm)
– 43HFL3011 – VESA MIS-F 200x200, M4 (Minimum 10 mm, Maximum 15 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.

1.3
Tips on placement

– Position the TV where light does not shine directly on the screen.
– Position the TV up to 15 cm away from the wall.
– The ideal distance to watch TV is 3 times its diagonal screen size. When seated, your eyes should be level with the centre of the screen.
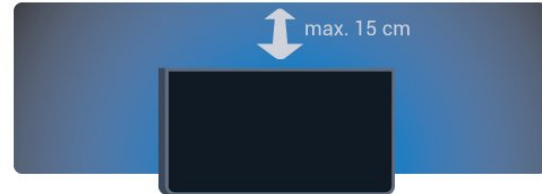
1.4
Power cable

– Insert the power cable into the **POWER** connector on the back of the TV.
– Make sure the power cable is securely inserted in the connector.
– Make sure that the power plug, in the wall socket, is accessible at all times.
– When you unplug the power cable, always pull the plug, never pull the cable.
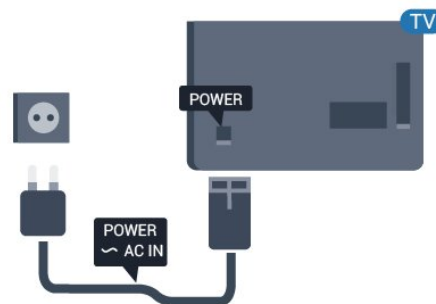
Although this TV has a very low standby power consumption, unplug the power cable to save energy if you do not use the TV for a long period of time.

Antenna cable

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

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

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

2

Connect devices

2.1
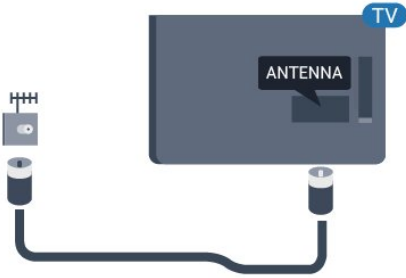
About connections

Connectivity guide

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

If you need help to connect several devices to the TV, you can visit the Philips TV connectivity guide. The guide offers information on how to connect and which cables to use.

Go to **www.connectivityguide.philips.com**

Antenna port

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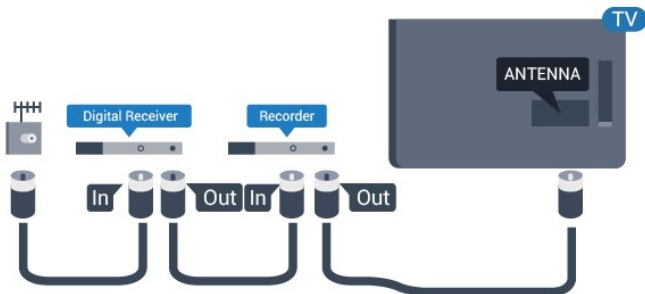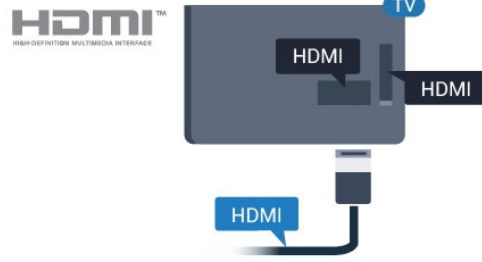
HDMI ports

HDMI quality

An HDMI connection has the best picture and sound quality. Use an HDMI cable for TV signal.

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

Copy protection

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

HDMI ARC

HDMI 1 connection on the TV have HDMI ARC (Audio Return Channel). If the device, typically a Home Theatre System (HTS), also has the HDMI ARC connection, connect it to HDMI 1 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.

In case you prefer to switch off ARC on the HDMI connections,

Consumer Mode: On — Press ♠ / ⌂.
Guest Mode: On — Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)

Select **Setup** > TV
settings > Sound > Advanced > HDMI 1 - ARC > Off .

HDMI Ultra HD

You can watch videos filmed or made in 'native' Ultra HD resolution – 3840x2160 pixels – on this TV.

Connect a Blu-ray Disc player, game console or computer that plays Ultra HD videos to one of HDMI connections. Use a High speed HDMI cable to connect. The HDMI UHD connections have ARC (Audio Return Channel).

HDMI CEC – EasyLink

EasyLink

With EasyLink you can operate a connected device with the TV remote control. EasyLink uses HDMI CEC (Consumer Electronics Control) to communicate with the connected devices. Devices must support HDMI CEC and must be connected with an HDMI connection.
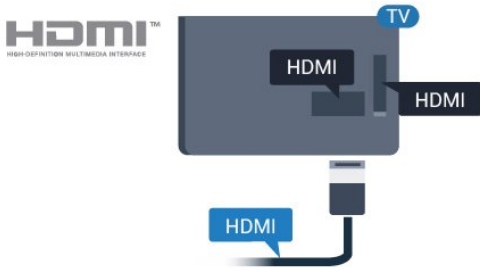
EasyLink setup

The TV comes with EasyLink switched on. Make sure that all HDMI CEC settings are properly set up on the connected EasyLink devices. EasyLink might not work with devices from other brands.

HDMI CEC on other brands

The HDMI CEC functionality has different names on different brands. Some examples are: Anynet, Aquos Link, Bravia Theatre Sync, Kuro Link, Simplink and Viera Link. Not all brands are fully compatible with EasyLink.

Example HDMI CEC branding names are property of their respective owners.

Operate devices

To operate a device connected to HDMI and set up with EasyLink, select the device – or its activity – in the list of TV connections.
Press ♠ / ⌂, select ⊡ SOURCES , select a device connected to an HDMI connection and press OK.

Once the device is selected, the TV remote control can control the device.
However ♠ / ⌂ and ⇌ OPTIONS keys and some other TV keys are not forwarded to the device.
If the key you need is not on the TV remote control, you can select the key in the Options menu.
Press ⇌ OPTIONS and select Controls in the menu bar. On the screen, select the device key you need and press OK.
Some very specific device keys might not be available in the Controls menu.

Note: Only devices that support EasyLink Remote Control function will respond to the TV remote control.

EasyLink On or Off

The TV comes with all EasyLink settings switched on. You can switch off any EasyLink setting independently.

To switch off EasyLink completely . . .

Consumer Mode: On – Not available in Consumer mode.
Guest Mode: On – Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)

EasyLink Remote Control

If you want devices to communicate but you don't want to operate them with the TV remote control, you can switch off EasyLink remote control separately. You can control multiple HDMI–CEC compliant devices with your TV remote control.

In the EasyLink settings menu, select EasyLink Remote Control and select No.

DVI to HDMI

If you still own a device that only has a DVI connection, you can connect the device to any of the HDMI connection with a DVI to HDMI adapter.

Use a DVI to HDMI adapter if your device only has a DVI connection. Use one of the HDMI connections and add an Audio L/R cable (mini–jack 3.5mm) to Audio In for sound, on the back of the TV.
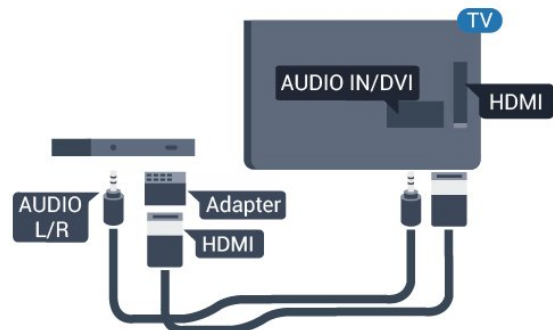
Copy protection

DVI and HDMI cables 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).

Y Pb Pr – Audio L R

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

The YPbPr connection can be used for High Definition (HD) TV signals. Next to the Y, Pb and Pr signals add the Audio Left and Right signals for sound.

Match the YPbPr (green, blue, red) connector colours with the cable plugs when you connect.
Use an Audio L/R cinch cable if your device also has sound.
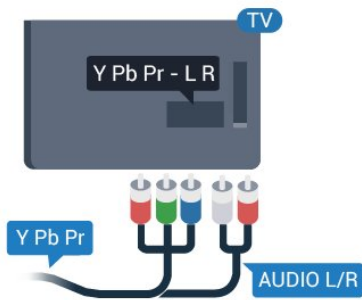
CVBS – Audio L R

CVBS – Composite Video is a high quality connection. Next to the CVBS signal adds the Audio Left and Right signals for sound.

Audio Out – Optical

Audio Out – Optical is a high quality sound connection. This optical connection can carry 5.1 audio channels. If your device, typically a Home Theatre System (HTS), has no HDMI ARC connection, you can use this connection with the Audio In – Optical connection on the HTS. The Audio Out – Optical connection sends the sound from the TV to the HTS.
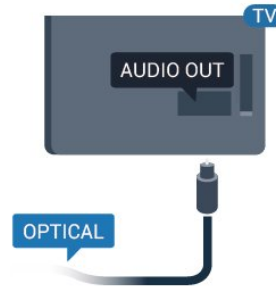
You can set the type of the audio out signal to fit the audio capabilities of your Home Theatre System.

If the sound does not match the video on screen, you can adjust the audio to video synchronization.

2.2

Common interface – CAM

CI+

This TV is ready for the CI+ Conditional Access.

With CI+ you can watch premium HD programmes, like movies and sports, offered by digital TV broadcasters in your region. These programmes are scrambled by the TV broadcaster and descrambled with a prepaid CI+ module.
Digital TV broadcasters provide this CI+ module (Conditional Access Module – CAM) when you subscribe to their premium programmes. These programmes have a high level of copy protection.
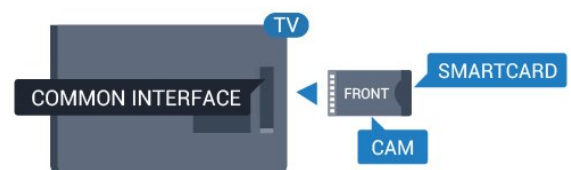
Contact a digital TV broadcaster for more information on terms and conditions.

CAM

Insert a CAM module

Switch off the TV before inserting a CAM.
Look on the CAM for the correct method of insertion.
Incorrect insertion can damage the CAM and TV.

Use the Common Interface slot on the TV to insert the CAM card.

With the front of the card facing to you, gently insert the CAM as far as it will go.
Leave the card in the slot permanently.

It may take a few minutes before the CAM is activated. Removing the CAM will deactivate the broadcast service on TV.
If a CAM is inserted and subscription fees are paid, (connection methods can differ), you can watch the TV broadcast. The inserted CAM is exclusively for your TV.
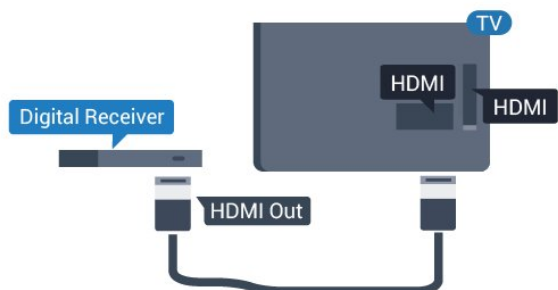
2.3
Set-top box – STB

Use 2 antenna cables to connect the antenna to the Set-top box (a digital receiver) and the TV.
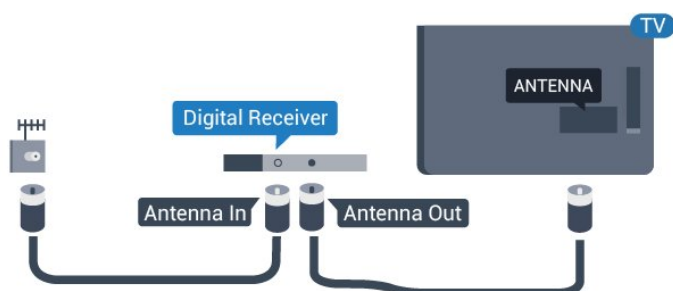
Next to the antenna connections, add an HDMI cable to connect the Set-top box to the TV.

Auto switch off

Switch off this automatic timer, if you only use the remote control of the Set-top box. Do this to prevent the TV from switching off automatically after a 4 hour period without a key press on the remote control of the TV.

Consumer Mode: On – Press ♠ / △.
Guest Mode: On – Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)

Select **Setup** > **TV settings** > **General settings** > **Switch off timer** and set the slider bar to **Off**.
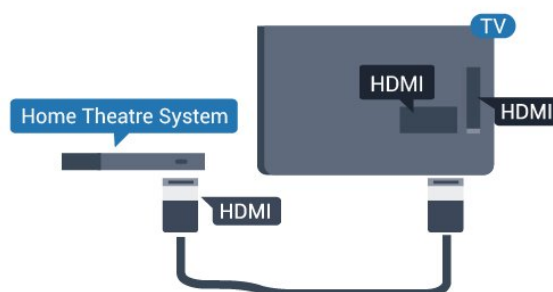
2.4
Home Theatre System – HTS

Connect with HDMI ARC

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

HDMI ARC

HDMI 1 connection on the TV have HDMI ARC (Audio Return Channel). If the device, typically a Home Theatre System (HTS), also has the HDMI ARC connection, connect it to HDMI 1 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.
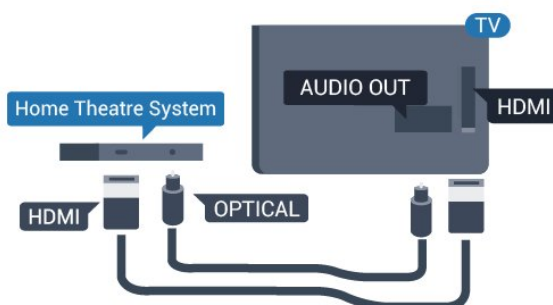

Audio to video synchronisation (sync)

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

Connect with HDMI

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

If the Home Theatre System has no HDMI ARC connection, add an optical audio cable (Toslink) to send the sound of the TV picture to the Home Theatre System.

Audio to video synchronisation (sync)

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

Audio Out settings

Audio Out delay

With a Home Theatre System (HTS) connected to the TV, the picture on TV and the sound from the HTS should be synchronised.

Automatic audio to video sync

With recent Philips Home Theatre Systems, the audio to video sync is automatically synchronised and always correct.

Audio sync delay

For some Home Theatre Systems you might need to adjust the audio sync delay to synchronise the audio to video. On the HTS, increase the delay value until there is a match between picture and sound. A delay value of 180ms may be required. Read the user manual of the HTS. With a delay value set up on the HTS, you need to switch off Audio Out delay on the TV.

To switch off the **Audio Out delay** . . .

1. Consumer Mode: On — Press ♠ / ⌂.
Guest Mode: On — Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > TV settings > **Sound** > **Advanced** > **Audio out delay**.
3. Select **Off** and press **OK**.
4. Press ⇐ / ←, repeatedly if necessary, to close the menu.

Audio Out offset

If you cannot set a delay on the Home Theatre System, you can set the TV to sync the sound. You can set an offset that compensates the time necessary for the Home Theatre System to process the sound of the TV picture. You can set the value in steps of 1ms. Maximum setting is 12ms. The Audio out delay setting should be switched on.

To synchronise the sound on the TV . . .

1. Consumer Mode: On — Press ♠ / ⌂.
Guest Mode: On — Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > TV settings > Sound > Advanced > Audio out offset.
3. Use the slider bar to set the sound offset and

press **OK**.
4. Press ⇐ / ←, repeatedly if necessary, to close the menu.

Audio Out format

If you have a Home Theatre System (HTS) with multichannel sound processing capabilities like Dolby Digital, DTS® or similar, set the Audio out format to Multichannel. With Multichannel, the TV can send the compressed multichannel sound signal from a TV channel or connected player to the Home Theatre System. If you have a Home Theatre System without multichannel sound processing, select Stereo.

To set the Audio Out format . . .

1. Consumer Mode: On — Press ♠ / ⌂.
Guest Mode: On — Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > TV settings > Sound > Advanced > Audio out format.
3. Select **Multichannel** or **Stereo**.
4. Press ⇐ / ←, repeatedly if necessary, to close the menu.

Audio Out levelling

Use the Audio Out leveling setting to level the volume (loudness) of the TV and the Home Theatre System when you switch over from one to another. Volume differences can be caused by differences in sound processing.

To level the difference in volume . . .

1. Consumer Mode: On — Press ♠ / ⌂.
Guest Mode: On — Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > TV settings > Sound > Advanced > Audio out leveling.
3. If the volume difference is large, select **More**. If the volume difference is small, select **Less**.
Press ⇐ / ←, repeatedly if necessary, to close the menu.

Audio Out leveling affects both the Audio Out – Optical and HDMI ARC sound signals.

Problems with HTS sound

Sound with loud noise

If you watch a video from a plugged in USB flash drive or connected computer, the sound from your Home Theatre System might be distorted.

1. Consumer Mode: On – Press ⌂ / ⌂.
Guest Mode: On – Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > TV
settings > Sound > Advanced > Audio out format.

No sound

If you cannot hear the sound from the TV on your Home Theatre System, check the following . . .

– Check if you connected the HDMI cable to a **HDMI 1** connection on the Home Theatre System.

– Check if the **HDMI ARC** setting on the TV is switched **On**.
Go to...

Consumer Mode: On – Press ⌂ / ⌂.
Guest Mode: On – Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)

Select **Setup** > TV
settings > Sound > Advanced > HDMI 1 –ARC.

2.5
Blu-ray Disc player

Use a **High speed HDMI** cable to connect the Blu-ray Disc player to the TV.
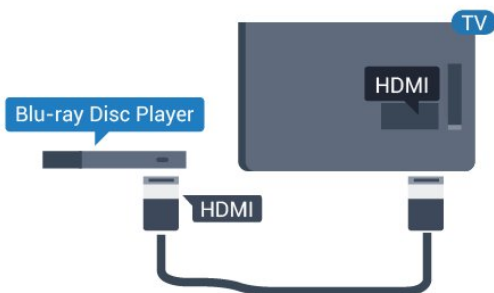
If the Blu-ray Disc player has EasyLink HDMI CEC, you can operate the player with the TV remote control.

2.6
DVD player

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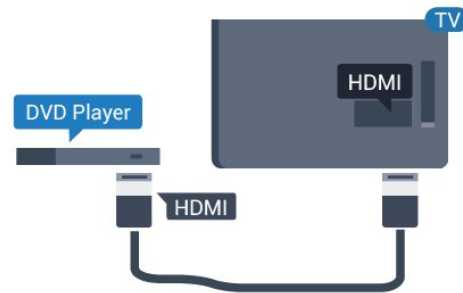
If the DVD player is connected with HDMI and has EasyLink CEC, you can operate the player with the TV remote control.

2.7
Game console

HDMI

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

Y Pb Pr – Audio L R

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

CVBS – Audio L R

Connect the game console to the TV with a composite cable (CVBS) and an audio L/R cable to the TV.

Best Setting

Before you start playing a game from a connected game console, we advice you to set the TV in the ideal setting Game.
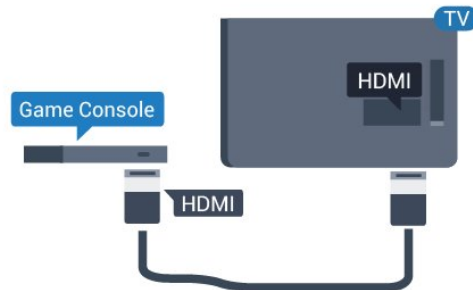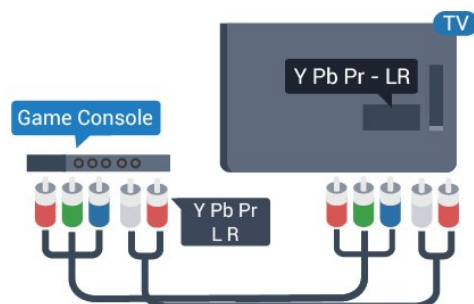
To set the TV to the ideal setting…

1. Consumer Mode: On ̶ Press ♠ / ⌂ .
Guest Mode: On ̶ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select Setup > TV
settings > Picture > Advanced > Activity style.
3. Select Game, Computer or TV. The setting TV returns to the picture settings for watching TV.
4. Press ⮌ / ⬅, repeatedly if necessary, to close the menu.

2.8
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 ♠ / ⌂, select SOURCES , select USB and press OK.

To stop watching the USB flash drive content, press TV or select another activity.
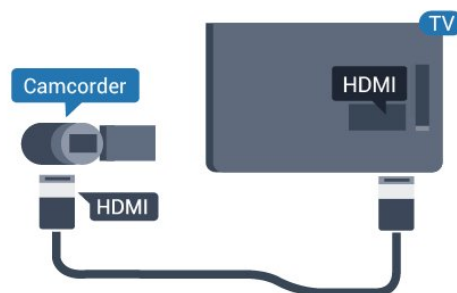To disconnect the USB flash drive, you can pull out the flash drive anytime.

2.9
Camcorder

HDMI

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

CVBS – Audio L R

Use a Video Audio L/R cable to connect the camcorder to the TV.
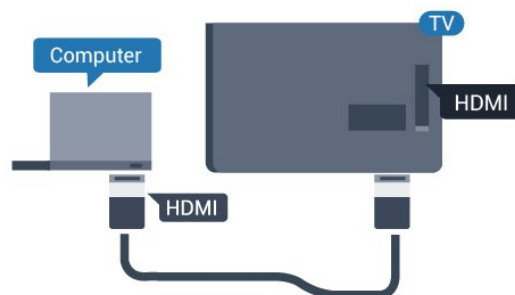
2.10
Computer

Connect

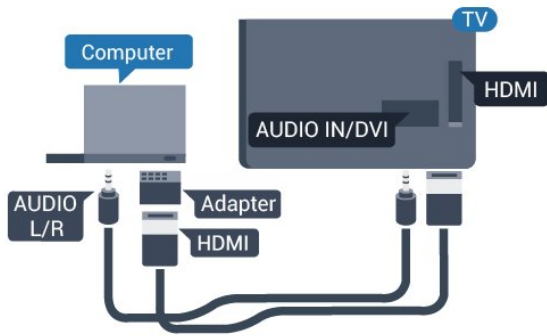You can connect your computer to the TV and use the TV as a PC monitor.

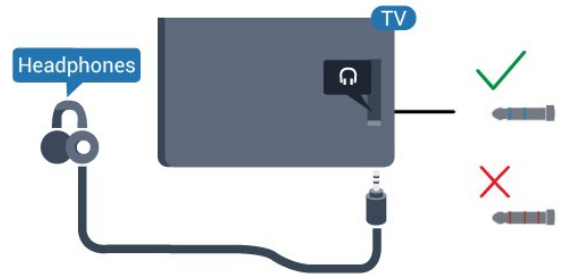With HDMI
Use an HDMI cable to connect the computer to the TV.

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

▶ (right) key on the remote control to select **Headphone**. To adjust headphone volume, please press ◀)) + or ◀)) – on the remote control.

Best Setting

Ideal monitor setting
If your computer is added as a Computer type of device in the Source menu (the list of connections), the TV is set to the ideal Computer setting automatically.

If you use your computer to watch movies or use it to play games, you might want to set the TV back to the ideal TV watching or gaming setting.

To set the TV to the ideal setting manually . . .

1. Consumer Mode: On – Press ↑ / ⌂.
Guest Mode: On – Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > TV
settings > Picture > Advanced > Activity style.
3. Select **Game**, **Computer** or TV. The setting **TV** returns to the picture settings for watching TV.
4. Press ↩ / ←, repeatedly if necessary, to close the menu.

Remember to set the Game or computer setting back to **Computer** when you stop playing the game.

2.11

Headphones

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

To adjust the volume . . .

Press ⚙ SETTINGS on the remote control to access quick settings, select **Headphones volume**, use the ▲ (up) or ▼ (down) keys on remote control to adjust the volume.

Or

Press volume key ◀)) on your remote control, the audio independent bar will appear. Press ◀ (left) or

3
Switch on

3.1
On, Standby or Off

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

To put the TV in Standby when the indicator light is off, press the small joystick key on the back of the TV. The indicator will light up.

With the TV in standby, press ⏻ on the remote control to switch the TV on.

Switch to standby

To switch the TV to Standby, press ⏻ on the remote control.

Switch Off

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.

3.2
Keys on TV

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

To open the basic menu...

1. With the TV switched on, press the joystick key on the back of the TV to bring up the basic menu.
2. Press left or right to select ◀ᴼ Volume, ≡ Channel or ⊡ Source.
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.

4. The menu will disappear automatically.

To switch the TV off, select ⏻ and press the joystick key.

3.3
Sleep timer

With the sleep timer, you can set the TV to switch to standby automatically after a preset time.

To set the sleep timer . . .

1. Consumer Mode: On — Press ⌂ / ⌂.
Guest Mode: On — Guest Menu: Press ⌂ / ⌂.
(For professional mode information, please refer to Installation manual)
2. Select Setup > TV settings / General settings > General settings > Sleep timer.
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.
3. Press ⇦ / ←, repeatedly if necessary, to close the menu.

3.4
Switch Off Timer

If the TV receives a TV signal but you don't press a key on the remote control during a 4 hour period, the TV switches off automatically to save energy. Also, if the TV does not receive a TV signal nor a remote control command for 10 minutes, the TV switches off automatically.

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 deactivate the Switch Off Timer ...

1. Consumer Mode: On — Press ♠ / ⌂.
Guest Mode: On — Guest Menu: Not available in
Guest Menu.
(For professional mode information, please refer to
Installation manual)
2. Select **Seutp** > **TV settings** > **General
settings** > **Switch off timer**.
3. Press ▲ (up) or ▼ (down) to adjust the
value. The value **0** deactivates the automatic switch
off.
4. Press ⬅ / ←, repeatedly if necessary, to close
the menu.

4
Remote control

4.1
Key overview

Top

1 – ⏻ **Standby / On**
To switch the TV on or back to Standby.

2 – ⏰ **ALARM**
To set the alarm.

3 – Playback keys
– Rewind ◀◀, to rewind.
– Play ▶, to playback.
– Pause ❙❙, to pause playback.
– Fast forward ▶▶, to go fast forward.

4 – ☰ **LIST**
To open the channel list.

5 – Playback key
– Stop ■, to stop playback.

6 – ⏱ **SLEEP**
To open the Sleep Timer list.

7 – 👤 **MY CHOICE**
To switch on mychoice.

8 – 🖽 **TV GUIDE**
To open or close the TV Guide.

Middle

1 – 📳 **SMART INFO**
To open the smart information page.

2 – ▬ ▬ ▬ ▬ Colour keys
Direct selection of options. Blue key ▬, opens **Help**.

3 – ⓘ INFO
To open or close programme info.

4 – ↩ BACK
To switch back to the previous channel you selected.
To close a menu without changing a setting.
To go back to the previous App/Internet page.

5 – 🏠 HOME
To open the Home menu.

6 – ⚙ SETTINGS
To open the Quick settings menu.

7 – ⇄ OPTIONS
To open or close the Options menu.

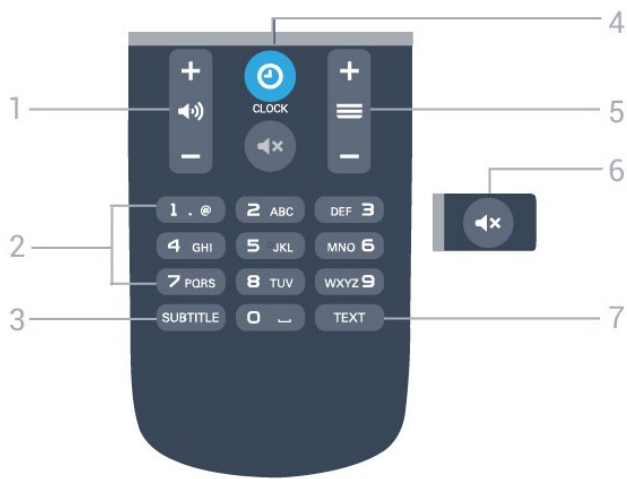**8 – OK** key
To confirm a selection or setting.

9 – Arrow / navigation keys
To navigate up, down, left or right.

10 – 📺 TV / EXIT
To switch back to watching TV. To leave an interactive TV application.

Bottom

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.

4.4
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.

1 – ◀)) Volume
To adjust the volume level.

2 – Number keys
To select a channel directly.

3 – SUBTITLE
To switch Subtitles on, off or on during mute.

4 – ⏲ CLOCK
To display the clock.

5 – ☰ Channel
To switch to the next or previous channel in the channel list. To open the next or previous page in Text/Teletext. To start the next or previous chapter on a disc.

6 – ◀✕ Mute
To mute the sound or to restore it.

7 – TEXT
To open or close Text/Teletext.

4.2
IR sensor

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

4.3
Batteries

1. Slide the battery door in the direction shown by the arrow.
2. Replace the old batteries with 2 type AAA-LR03-1.5V batteries. Make sure the + and the – ends of the batteries line up correctly.
3. Reposition the battery door.
4. Slide it back until it clicks.

5

TV channels

5.1

Channel Lists

About channel lists

After a channel installation, all channels appear on the channel list. Channels are shown with their name if this information is available.

With a channel list selected, press the arrows ▲ (up), ▼ (down), ◀ (left) and ▶ (right) to select a channel, then press OK to watch the selected channel. You only tune to the channels in that list when using ☰ + or ☰ − / P ︿ or P ﹀ keys.

Channel icons

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

Radio stations

If digital broadcasting is available, digital radio stations are installed during installation. Switch to a radio channel just like you switch to a TV channel. A Cable (DVB-C) channel installation usually places radio stations from channel number 1001 onwards.

Open a channel list

To open the current channel list...

1. Press TV, to switch to TV.
2. Press ☰ LIST to open the current channel list.
3. Press ☰ LIST again to close the channel list.

5.2

Watching TV channels

Watching channels

Tune to a channel

To watch TV channels, press 📺. The TV tunes to the TV channel you last watched.

Switch channels

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

Previous channel

− To switch back to the previously tuned channel, press ⬅.

Channel list

While watching a TV channel, press ☰ LIST 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 channel, press ☰ LIST again.

Radio channels

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

Channel options

Open options

While watching a channel, you can set some options.

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

To open the options menu...

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

Subtitles and subtitle language

Switch On

To switch on Subtitles, press SUBTITLE.

You can set subtitles to Subtitles off, Subtitles on, or Automatic.

Automatic

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

You can select your preferred subtitle languages in Subtitle Language.

Preferred subtitle languages

Subtitles for digital channels

There is no need to set subtitles in Text for digital channels.

Digital channels can offer several subtitle languages for a programme. You can set a preferred primary and secondary subtitle language. If subtitles in one of these languages are available, the TV will show them. If none of the preferred subtitle languages are available, you can select another subtitle language which is available.

To set the primary and secondary subtitle language…

1. Consumer Mode: On – Press ♠ / ⌂.
Guest Mode: On – Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **Channel settings** and select **Languages**.
3. Select **Primary subtitles** or **Secondary subtitles** and press **OK**.
4. Select a language and press **OK**.
5. Press ⬑ / ←, repeatedly if necessary, to close the menu.

Select a subtitle language

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

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

1. Press ⇄ OPTIONS.
2. Select **Subtitle language** and select one of the languages as subtitles temporarily.

Subtitles for analogue channels

For analogue channels, you need to make the subtitles available for each channel manually.

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

If you select On in the Subtitle menu when watching this analogue channel, subtitles will be shown if available.
To know if a channel is analogue or digital, switch to the channel and open **Status** in the **Options** menu.

Audio language

Preferred audio language

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

If none of the preferred audio languages is available, you can select another audio language which is available.

To set the primary and secondary audio language…

1. Consumer Mode: On – Press ♠ / ⌂.
Guest Mode: On – Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **Channel settings** and select **Languages**.
3. Select **Primary audio** or **Secondary audio** and press OK.
4. Select a language and press **OK**.
5. Press ⬑ / ←, repeatedly if necessary, to close the menu.

Select an audio language

To select an audio language when none of your preferred audio language is available…

1. Press ⇄ OPTIONS .
2. Select **Audio language** and select an audio language you want temporarily and press **OK**.

Audio languages for the hearing and visually impaired

Some digital TV channels broadcast special audio and subtitles adapted for people who are hearing or visually impaired.

Video selection

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

Dual I–II

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

Common Interface

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

Status

Select **Status** to view technical information on the channel (if it is analogue or digital) or a connected device you are watching.

Favourite channels

About favourite channels

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

Create a favourites list

1. While watching a TV channel, press ☰ LIST to open the channel list.
2. Select **All** to view all channels.
3. Select the channel, and press ▬ (yellow) to mark as favourite.
4. The selected channel is marked with a ❤.
5. To finish, press ⬐ / ←. The channels are added to the Favourites list.

To remove a channel from the favourites list, select the channel with ❤, then press ▬ (yellow) again to unmark as favourite.

Rename channels

You can rename channels in the channel list.

1. Select the channel you want to rename in one of the channel lists.
2. Press ▬ (red).
3. You can enter text with the the on-screen keyboard.

Text / Teletext

Text pages

To open Text (Teletext) while you are watching TV channels, press **TEXT**.
To close Text, press **TEXT** again.

Select a Text page

To select a page...

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

Text sub-pages

A Text page number can hold several subpages. The subpage numbers are shown on a bar next to the main page number.
To select a subpage, press ◀ or ▶.

T.O.P. Text pages

Some broadcasters offer T.O.P. Text.
To open T.O.P. Text pages within Text, press ⇄ OPTIONS and select T.O.P. overview.

Favourite pages

The TV makes a list of the last 10 Text pages you opened. You can easily reopen them again in the Favourite Text pages column.

1. In Text, select the star in the top left corner of the screen to show the column of favourite pages.
2. Press ▼ (down) or ▲ (up) to select a page number and press **OK** to open the page.
You can clear the list with the option **Clear favourite pages**.

Search Text

You can select a word and scan Text for all occurences of this word.

1. Open a Text page and press **OK**.
2. Select a word or number with the arrow keys.
3. Press **OK** again to jump immediately to the next occurence of this word or number.
4. Press **OK** again to jump to the subsequent occurence.
5. To stop searching, press ▲ (up) until nothing is selected.

Text from a connected device

Some devices that receive TV channels can also offer Text.
To open Text from a connected device...

1. Press ⌂ / ⌂, select the device and press **OK**.
2. While watching a channel on the device, press ⇄ OPTIONS, select **Show device keys** and select the ▤ key and press **OK**.
3. Press ⬐ / ← to hide the device keys.
4. To close Text, press ⬐ / ← again.

Digital Text (UK only)

Some digital broadcasters offer dedicated Digital Text or interactive TV on their digital TV channels. This includes normal Text using the number, colour and arrow keys to select and navigate.

To close Digital Text, press ⬐ / ←.

Text options

In Text, press ⇌ OPTIONS to select the following . . .

– Freeze page / Unfreeze page
To stop the automatic rotation of subpages.

– Dual screen / Full screen
To show the TV channel and Text alongside each other.

– T.O.P. overview
To open T.O.P. Text.

– Enlarge / Normal view
To enlarge the Text page for comfortable reading.

– Reveal
To unhide hidden information on a page.

– Cycle subpages
To cycle subpages when these are available.

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

– Text 2.5
To activate the Text 2.5 for more colours and better graphics.

Text setup

Text language

Some digital TV broadcasters have several Text languages available.
To set your primary and secondary Text language . . .

1. Consumer Mode: On ▬ Press ♠ / ◯.
Guest Mode: On ▬ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **Channel settings** > **Languages**.
3. Select **Primary Teletext** or **Secondary Teletext**.
4. Select your preferred Text languages.
5. Press ⇦ / ←, repeatedly if necessary, to close the menu.

Text 2.5

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

1. Press **TEXT**.
2. While watching the teletext, press ⇌ OPTIONS.
3. Select **Text 2.5** > **Off**.
4.Press ⇦ / ←, repeatedly if necessary, to close the menu.

6
Channel installation – Antenna, Cable

6.1
Update channels

Automatic update

If you receive digital channels, you can set the TV to automatically update the list with new channels. Alternatively, you can start a channel update yourself.

Automatic channel update

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

To switch off the message at start up . . .

1. Consumer Mode: On ━ Press ♠ / ⌂.
Guest Mode: On ━ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **Channel settings** > **Channel settings** and press **OK**.
3. Select **Channel update message** > **Off**.

To switch off the Automatic channel update . . .

1. Consumer Mode: On ━ Press ♠ / ⌂.
Guest Mode: On ━ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **Channel settings** > **Channel settings** and press **OK**.
3. Select **Automatic channel update** > **Off**.

Start an update

To start an update yourself . . .

1. Consumer Mode: On ━ Press ♠ / ⌂.
Guest Mode: On ━ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Search for channels** and press **OK**.
3. Select **Update channels** and follow the instructions on screen. The update may take a few minutes.

In certain countries, the Automatic channel update is done while watching TV or any moment when the TV is in standby.

6.2
Reinstall channels

Reinstall All Channels

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

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

To reinstall channels...

1. Consumer Mode: On ━ Press ♠ / ⌂.
Guest Mode: On ━ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Search for channels** > **Re-install Channels** follow the instructions on screen. The update may take a few minutes.

Reinstall TV

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

To redo a full TV installation...

1. Consumer Mode: On ━ Press ♠ / ⌂.
Guest Mode: On ━ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **General settings** > **Reinstall TV** and press **OK**. The installation may take a few minutes. Follow the instructions on screen.

6.3
DVB-T or DVB-C

DVB-T or DVB-C reception

DVB Settings

Access DVB settings

1. Consumer Mode: On ‒ Press ♠ / ⌂.
Guest Mode: On ‒ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Search for channels** and press **OK**.
3. Select **Re-install Channels**.
4. Select the country where you install this TV.
5. Select **Cable (DVB-C)**.
6. Select **Start to search channels**, or select **Settings** for DVB-C settings.
7. Press ⬑ / ←, repeatedly if necessary, to close the menu.

Symbol rate mode

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

If you received a specific symbol rate value, select **Manual**. However, the value you received could be in the predefined list of symbol rates already. Select **Predefined symbol rates** to check if your value is available automatically.

Symbol rate

With the **Symbol rate mode** set to **Manual**, you can enter the symbol rate value you received from your cable provider. To enter the value, use the number keys.

Network frequency

With **Frequency scan** set to **Quick** or **Advanced**, you can enter here the network frequency value received from your cable provider. To enter the value, use the number keys.

Frequency scan

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

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

Network ID

With **Frequency scan** set to **Quick**, you can enter here the network ID value received from your cable provider. To enter the value, use the number keys.

Digital channels

If you know your cable provider is not offering digital channels, you can skip searching for digital channels. Select **Off**.

Analogue channels

If you know your cable provider is not offering analogue channels, you can skip searching for analogue channels. Select **Off**.

Free / Scrambled

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

7
TV guide

7.1
What you need

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

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

7.2
Using the TV guide

Open the TV guide

To open the TV guide, press ≔ TV GUIDE.

Press ≔ TV GUIDE again to close.

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

Tune to a programme

Switch to a programme

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

View programme details

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

Change day

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

If the TV guide information comes from the broadcaster, you can press ≡ + to view the schedule of one of the next days. Press ≡ — to go back to the previous day.
Alternatively, you can press ⇵ OPTIONS and select Change day.
Select Previous day, Today or Next day and press OK, to select the day of the schedule.

Set a reminder

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

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

To set a reminder…

1. Press ≔ TV GUIDE and select an upcoming programme.
2. Press ⇵ OPTIONS.
3. Select Set reminder and press OK.

To clear a reminder…

1. Press ≔ TV GUIDE and select a programme with the reminder.
2. Press ⇵ OPTIONS.
3. Select Clear reminder and press OK.

Search by genre

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

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

8

Sources

8.1

## Switch to a device

In the list of connections – the Source menu – you can find the devices connected to the TV. From this Source menu, you can switch to a device.

Sources menu

To open the Sources menu, press 🏠 / ⌂, then select ⏩ SOURCES .
To switch to a connected device, select the device with the arrows ◀ (left) or ▶ (right) and press **OK**.
To close the Source menu without switching to a device, select ⏩ SOURCES again.

8.2

From standby

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

Play

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

Home Theatre System

You can switch on your Home Theatre System to listen to an audio disc or a radio channel and leave the TV in standby.
To only switch on the HTS, with the TV in standby, press 🏠 / ⌂ on the TV remote control, then select ⏩ SOURCES.

8.3

EasyLink

With **EasyLink** you can operate a connected device with the TV remote control. EasyLink uses HDMI CEC to communicate with the connected devices. Devices must support HDMI CEC and must be connected with an HDMI connection.

9
Timers and clock

9.1
Sleep timer

With the sleep timer, you can set the TV to switch to standby automatically after a preset time.

To set the sleep timer . . .

1. Consumer Mode: On ▬ Press ♠ / ⌂.
Guest Mode: On ▬ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **General settings** > **Sleep timer**.
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.
3. Press ⮌ / ←, repeatedly if necessary, to close the menu.

9.2
Clock

To know what time it is, press ⊙ **CLOCK** on the remote control to find the time on TV screen.

In some countries, digital broadcasts do not send UTC – Coordinated Universal Time information. The daylight saving change might be ignored and the TV might show an incorrect time.

To correct the TV clock...

1. Consumer Mode: On ▬ Press ♠ / ⌂.
Guest Mode: On ▬ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **General settings** > **Clock** > **Auto clock mode** and select **Country dependent**.

9.3
Switch off timer

If you do not press a key on the remote control during a 4 hour period, or if the TV receives no input signal nor remote control commands for 10 minutes, the TV switches off automatically to save energy.

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 the automatic switch off.

To deactivate the **Switch off timer**...

1. Consumer Mode: On ▬ Press ♠ / ⌂.
Guest Mode: On ▬ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **General settings** > **Switch off timer** and set the slider bar to 0 (Off).
3. Press ⮌ / ←, repeatedly if necessary, to close the menu.

10

Videos, Photos and Music

10.1

From a USB connection

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

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

If the list of files does not appear automatically…

1. Press ♠ / ⌂, then select ⊏ SOURCES, select ⊏ USB and press OK.
2. Select ⊏ USB Devices and press ▶ (right) to select the USB device you need.

You can browse your files in the folder structure you have organised on the drive.
To stop playing videos, photos and music, press TV.

Warning

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

10.2

Play your videos

Play videos

How you open the list of your media files on TV depends on the type of device where the files are stored. See the chapters above.

To play a video on TV…

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

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

Progress Bar

To show the progress bar when a video is playing

(playhead position, duration, title, date, etc.), press ❶ INFO.
Press again to hide the info.

Video options

During the video playback, press ⇌ OPTIONS to…

– **Subtitles**
Display the subtitles if available.

– **Audio language**
Play the audio language if available.

– **Repeat**, **Play once**
Play videos repeatedly or once.

– **Shuffle on**, **Shuffle off**
Play videos in sequence or at random.

– **Show info**
Display the file name.

– **Subtitle settings**
Set subtitle colour and position if available.

10.3

View your photos

View photos

How you open the list of your media files on TV depends on the type of device where the files are stored. See the chapters above.

To view all photos on TV…

Select ⊡ Photos, and select All and press OK.

To view a photo on TV…

Select ⊡ Photos, and select the file name and press OK.

To start a slide show on TV…

If there are several photos in a folder, you can start a slide show.

To start a slide show…

1. Select the folder with photos.
2. Press the colour key ▬ Slide Show.
– To jump to the next or previous photo, press ▶ (right – next) or ◀ (left – previous).
– To pause the slide show, press OK. To start again, press OK again.
– To stop the slide show, press OK and press ⮌ / ←.

Info

To view info on a photo (size, creation date, file path, etc.), select a photo and press ❶ INFO. Press again to hide the info.

Slideshow with music

You can watch a slideshow of your photos and listen to your music at the same time. You must start the music before you start the photo slideshow.

To play music with the slide show…

1. Select a song or a folder with songs and press **OK**.
2. Press ❶ **INFO** to hide file info and progress bar.
3. Press ⮌ / ←.
4. Now use the navigation arrows to select the folder with photos.
5. Select the folder with photos and press ━ **Slide Show**.
6. To stop the slideshow, press ⮌ / ←.

Photo options

With a photo on screen, press ⇄ **OPTIONS** to…

– **Start slideshow**, **Stop slideshow**
Start or stop slideshow.

– **Slideshow transitions**
Set the transition from one picture to the next.

– **Slideshow frequency**
Select the display time for each photo.

– **Repeat**, **Play once**
View the pictures repeatedly or once only.

– **Shuffle off**, **Shuffle on**
View the pictures in sequential order, or at random.

– **Rotate image**
Rotate photo.

– **Show info**
Display the picture name, date, size and next picture in the slide show.

– **Stop music**
Stop the music playing in the background.

10.4
Play your music

Play music

How you open the list of your media files on TV depends on the type of device where the files are stored. See the chapters above.

To play a song on TV…

Select ♫ **Music** , and select the file name and press **OK**.

If there are several songs in a folder, you can listen to them one after the other.

– To pause a song, press **OK**. Press **OK** again to

continue.

– To rewind or go fast forward, press ▶▶ or ◀◀. Press the keys several times to speed up – 2x, 4x, 8x, 16x, 32x.

– To jump to the next song in a folder, press **OK** to pause and select ▶ on screen and press **OK**.

– To go back to the folder, press ⮌ / ←, the music will keep on playing.

– To stop the music playback, press ■ (Stop).

Progress Bar

To show the progress bar when a song is playing (playhead position, duration, title, date, etc.), press ❶ **INFO**. Press again to hide the info.

Music options

Options for playing music…

– **Stop playback**
Stop music play.

– **Repeat**, **Play once**
Play songs repeatedly or once.

– **Shuffle on**, **Shuffle off**
Play songs in sequence or at random.

– **Show info**
Display the file name.

11
Settings

11.1
Picture

Picture style

Select a style

For easy picture adjustment, you can select a preset Picture Style.

1. Consumer Mode: On – Press ⌂ / ⌂.
Guest Mode: On – Guest Menu: Press ⌂ / ⌂.
(For professional mode information, please refer to Installation manual)

2. Select **Setup** > **TV settings** / **General settings** > **Picture** > **Picture style**, and select one of the styles in the list.
3. Select a style and press **OK**.

The available Picture styles are…

– **Personal** – The picture preferences you set during the first start up.
– **Vivid** – Ideal for daylight viewing
– **Natural** – Natural picture settings
– **Standard** – Most energy conscious setting – Factory setting
– **Movie** – Ideal for watching movies
– **Photo** – Ideal for viewing photos
– **Energy saving** – ideal for energy saving

Customise a style

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

Restore a style

The selected style will store the changes you made. We recommend to adjust the picture settings for the style **Personal** only. The Picture style – **Personal** can save its settings for each individual connected device in Sources menu.

To restore the style to its original setting…

1. Consumer Mode: On – Press ⌂ / ⌂.
Guest Mode: On – Guest Menu: Press ⌂ / ⌂.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** / **General settings** > **Picture** > **Restore style**, and select the Picture Style you want to restore.
3. Press **OK**. The style is restored.

Home or Shop

If the **Picture style** is switched back to **Vivid** every time you switch on the TV, the TV location is set to **Shop**. A setting meant for in-store promotion.

To set the TV for Home use…

1. Consumer Mode: On – Press ⌂ / ⌂.
Guest Mode: On – Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **General settings** > **Location** and press **OK**.
3. Select **Home** and press **OK**.
4. Press ⟵ / ←, repeatedly if necessary, to close the menu.

Picture settings

Colour

With **Colour**, you can adjust the colour saturation of the picture.

To adjust the colour…

1. Consumer Mode: On – Press ⌂ / ⌂.
Guest Mode: On – Guest Menu: Press ⌂ / ⌂.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** / **General settings** > **Picture** > **Colour**.
3. Press ▶ (right) and adjust the value with ▲ (up) or ▼ (down).
4. Press ⟵ / ←, repeatedly if necessary, to close the menu.

Contrast

With **Contrast**, you can adjust the brightness of the display backlight.

To adjust the level…

1. Consumer Mode: On – Press ⌂ / ⌂.
Guest Mode: On – Guest Menu: Press ⌂ / ⌂.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** / **General settings** > **Picture** > **Contrast**.
3. Press ▶ (right) and adjust the value with ▲ (up) or ▼ (down).
4. Press ⟵ / ←, repeatedly if necessary, to close the menu.

Sharpness

With **Sharpness**, you can adjust the level of sharpness in fine detail of the picture.

To adjust the sharpness…

1. Consumer Mode: On ‒ Press ⌂ / ⌂.
Guest Mode: On ‒ Guest Menu: Press ⌂ / ⌂.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** / **General settings** > **Picture** > **Sharpness**.
3. Press ▶ (right) and adjust the value with ▲ (up) or ▼ (down).
4. Press ⇦ / ←, repeatedly if necessary, to close the menu.

Advanced picture settings

Game or computer

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.

If you have a game console with a built-in Blu-ray Disc player, you might have set the type name to Bluray Disc. With **Activity style** you can switch to the ideal settings for gaming manually. Don't forget to switch to TV, when you return to watch TV.

To switch the setting manually…

1. Consumer Mode: On ‒ Press ⌂ / ⌂.
Guest Mode: On ‒ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **Picture** > **Advanced** > **Activity style**.
3. Select **Game**, **Computer** or **TV**. The setting **TV** returns to the picture settings for watching TV.
4. Press ⇦ / ←, repeatedly if necessary, to close the menu.

Colour settings

Colour enhancement

With **Colour enhancement**, you can enhance the colour intensity and the details in bright colours.

To adjust the level…

1. Consumer Mode: On ‒ Press ⌂ / ⌂.
Guest Mode: On ‒ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer

to Installation manual)
2. Select **Setup** > **TV settings** > **Picture** > **Advanced** > **Colour**.
3. Select **Colour enhancement** and press **OK**.
4. Select **Maximum**, **Medium**, **Minimum** or **Off**.
5. Press ⇦ / ←, repeatedly if necessary, to close the menu.

Colour temperature

With **Colour temperature**, you can set the picture to a preset colour temperature or select **Custom** to set a temperature setting yourself with **Custom colour temperature**. **Colour temperature** and **Custom colour temperature** are settings intended for expert users.

To select a preset…

1. Consumer Mode: On ‒ Press ⌂ / ⌂.
Guest Mode: On ‒ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **Picture** > **Advanced** > **Colour**.
3. Select **Colour Temperature** and press **OK**.
4. Select **Normal**, **Warm** or **Cool**. Or select **Custom** if you want to customise a colour temperature yourself.
5. Press ⇦ / ←, repeatedly if necessary, to close the menu.

Custom colour temperature

With **Custom colour temperature**, you can set a colour temperature yourself. To set a custom colour temperature, first select **Custom** in the Colour temperature menu. **Custom colour temperature** is a setting intended for expert users.

To set a custom colour temperature…

1. Consumer Mode: On ‒ Press ⌂ / ⌂.
Guest Mode: On ‒ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **Picture** > **Advanced** > **Colour**.
3. Select **Custom Colour Temperature** and press **OK**.
4. Press the arrows ▲ (up) or ▼ (down) to adjust the value. WP is white point and BL is black level. You can also select one of the presets in this menu.
5. Press ⇦ / ←, repeatedly if necessary, to close the menu.

Contrast settings

Contrast modes

With **Contrast Mode**, you can set the level at which power consumption can be reduced by dimming the intensity of the screen. Choose for the best power consumption or for the picture with the best intensity.

To adjust the level…

1. Consumer Mode: On – Press ♠ / △.
Guest Mode: On – Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **Picture** > **Advanced** > **Contrast** > **Contrast mode**.
3. Select **Standard**, **Best power**, **Best picture**, or **Off**.
4. Press ⬑ / ←, repeatedly if necessary, to close the menu.

Dynamic contrast

With **Dynamic Contrast**, you can set the level at which the TV automatically enhances the details in the dark, middle and light areas of the picture.

To adjust the level…

1. Consumer Mode: On – Press ♠ / △.
Guest Mode: On – Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **Picture** > **Advanced** > **Contrast** > **Dynamic contrast**.
3. Select **Maximum**, **Medium**, **Minimum** or **Off**.
4. Press ⬑ / ←, repeatedly if necessary, to close the menu.

Brightness

With **Brightness**, you can set the level of brightness of the picture signal. **Brightness** is a setting intended for expert users. We recommend non-expert users to adjust the brightness of the picture with the **Contrast** setting.

To adjust the level…

1. Consumer Mode: On – Press ♠ / △.
Guest Mode: On – Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **Picture** > **Advanced** > **Contrast** > **Brightness**.
3. Press ▶ (right) and adjust the value with ▲ (up) or ▼ (down).

4. Press ⬑ / ←, repeatedly if necessary, to close the menu.

Video contrast

With **Video Contrast**, you can decrease the range of the video contrast.

To adjust the level…

1. Consumer Mode: On – Press ♠ / △.
Guest Mode: On – Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **Picture** > **Advanced** > **Contrast** > **Video contrast**.
3. Press ▶ (right) and adjust the value with ▲ (up) or ▼ (down).
4. Press ⬑ / ←, repeatedly if necessary, to close the menu.

Gamma

With **Gamma**, you can set a non-linear setting for picture luminance and contrast. **Gamma** is a setting intended for expert users.

To adjust the level…

1. Consumer Mode: On – Press ♠ / △.
Guest Mode: On – Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **Picture** > **Advanced** > **Contrast** > **Gamma**.
3. Press ▶ (right) and adjust the value with ▲ (up) or ▼ (down).
4. Press ⬑ / ←, repeatedly if necessary, to close the menu.

Sharpness settings

Super resolution

With **Super resolution**, you switch on a superior sharpness in line edges and contours.

To switch on or off…

1. Consumer Mode: On – Press ♠ / △.
Guest Mode: On – Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **Picture** > **Advanced** > **Sharpness** > **Super resolution**.
3. Select **On** or **Off**.
4. Press ⬑ / ←, repeatedly if necessary, to close

the menu.

Noise reduction

With **Noise reduction**, you can filter out and reduce the level of image noise.

To adjust the noise reduction…

1. Consumer Mode: On ‒ Press ♠ / ⌂.
Guest Mode: On ‒ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **Picture** > **Advanced** > **Sharpness** > **Noise reduction**.
3. Select **Maximum**, **Medium**, **Minimum** or **Off**.
4. Press ⇆ / ←, repeatedly if necessary, to close the menu.

MPEG artefact reduction

With **MPEG artefact reduction**, you can smoothen the digital transitions in the picture. MPEG artefacts are mostly visible as small blocks or jagged edges in images.

To reduce the MPEG artefacts…

1. Consumer Mode: On ‒ Press ♠ / ⌂.
Guest Mode: On ‒ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **Picture** > **Advanced** > **Sharpness** > **MPEG artefact reduction**.
3. Select **On** or **Off**.
4. Press ⇆ / ←, repeatedly if necessary, to close the menu.

Format and edges

Picture format

If black bars appear on top and bottom or on both sides of the picture, you can adjust the picture format to a format that fills the screen.

To change the picture format…

1. Consumer Mode: On ‒ Press ♠ / ⌂.
Guest Mode: On ‒ Guest Menu: Press ♠ / ⌂.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** / **General settings** > **Picture** > **Format and edges** > **Picture format** .
3. Select a format from the list and press **OK**.
4. Press ⇆ / ←, repeatedly if necessary, to close the menu.

Screen edges

With **Screen edges**, you can slightly enlarge the picture to hide distorted edges.

To adjust the edges…

1. Consumer Mode: On ‒ Press ♠ / ⌂.
Guest Mode: On ‒ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **Picture** > **Format and edges** > **Screen edges**.
3. Adjust the value with ▲ (up) or ▼ (down).
4. Press ⇆ / ←, repeatedly if necessary, to close the menu.

Picture shift

With **Picture shift**, you can slightly move the position of the picture.

To move the picture…

1. Consumer Mode: On ‒ Press ♠ / ⌂.
Guest Mode: On ‒ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **Picture** > **Format and edges** > **Picture shift**.
3. Adjust the position with ▲ (up), ▼ (down), ▶ (right), or ◀ (left).
4. Press ⇆ / ←, repeatedly if necessary, to close the menu.

11.2

Sound

Sound style

Select a style

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

1. Consumer Mode: On ‒ Press ♠ / ⌂.
Guest Mode: On ‒ Guest Menu: Press ♠ / ⌂.
(For professional mode information, please refer to Installation manual)

2. Select **Setup** > **TV settings / General settings** > **Sound** > **Sound style**, and select one of the styles in the list.
3. Select a style and press **OK**.

The available Sound styles are…

– **Personal** – The sound preferences you set during the first start up.
– **Original** – Most neutral sound setting
– **Movie** – Ideal for watching movies
– **Music** – Ideal for listening to music
– **Game** – Ideal for gaming
– **News** – IIdeal for speech

Restore a style

The selected style will store the changes you made. We recommend to adjust the sound settings for the style Personal only. The **Sound Style** – **Personal** can save its settings for each individual connected device in Sources menu.

To restore the style to its original setting…

1. Consumer Mode: On ━ Press ♠ / ⌂.
Guest Mode: On ━ Guest Menu: Press ♠ / ⌂.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings / General settings** > **Sound** > **Restore style**.

Sound settings

Bass

With **Bass**, you can adjust the level of low tones in the sound.

To adjust the level…

1. Consumer Mode: On ━ Press ♠ / ⌂.
Guest Mode: On ━ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **Sound** > **Bass**.
3. Press ▶ (right) and adjust the value with ▲ (up) or ▼ (down).
4. Press ⬑ / ←, repeatedly if necessary, to close the menu.

Treble

With **Treble**, you can adjust the level of high tones in the sound.

To adjust the level…

1. Consumer Mode: On ━ Press ♠ / ⌂.
Guest Mode: On ━ Guest Menu: Not available in

Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **Sound** > **Treble**.
3. Press ▶ (right) and adjust the value with ▲ (up) or ▼ (down).
4. Press ⬑ / ←, repeatedly if necessary, to close the menu.

Surround mode

With **Surround mode**, you can set the sound effect of the TV speakers.

To set the surround mode…

1. Consumer Mode: On ━ Press ♠ / ⌂.
Guest Mode: On ━ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **Sound** > **Surround mode**.
3. Press ▶ (right) and select **Stereo** or **Incredible surround**.
4. Press ⬑ / ←, repeatedly if necessary, to close the menu.

Headphones volume

With **Headphones volume**, you can set the volume of a connected headphones separately.

To adjust the volume…

Press ▧ SETTINGS on the remote control to access quick settings, select **Headphones volume**, use the ▲ (up) or ▼ (down) keys on remote control to adjust the volume.

Or

Press volume key 🔊 on your remote control, the audio independent bar will appear. Press ◀ (left) or ▶ (right) key on the remote control to select **Headphone**. To adjust headphone volume, please press 🔊 + or 🔊 – on the remote control.

Advanced sound settings

Auto volume levelling

With **Auto volume leveling**, you can set the TV to automatically level out sudden volume differences. Typically at the beginning of adverts or when you are switching channels.

To switch on or off…

1. Consumer Mode: On ━ Press ♠ / ⌂.
Guest Mode: On ━ Guest Menu: Not available in

Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **Sound** > **Advanced** > **Auto volume leveling**.
3. Press ▶ (right) and select **On** or **Off**.
4. Press ⬅ / ←, repeatedly if necessary, to close the menu.

TV speakers

You can send the TV sound to a connected audio device – a Home Theatre System or audio system. With **TV speakers**, you select where you want to hear the TV sound and how you want to control it.

– If you select **Off**, you permanently switch off the TV speakers.

– If you select **On**, the TV speakers are always on. With an audio device connected with HDMI CEC, you can use one of the EasyLink settings.

– If you select **EasyLink**, the TV sends the TV sound to the audio device. The TV will switch off the TV speakers when the device is playing the sound.

– If you select **EasyLink autostart**, the TV will switch on the audio device, send the TV sound to the device and switch off the TV speakers.
With **EasyLink** or **EasyLink autostart** selected, you can still switch to TV speakers or device speakers in the Picture and sound menu.

To set the TV speakers…

Consumer Mode: On – Not available in this mode.
Guest Mode: On – Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)

Clear sound

With **Clear Sound**, you improve the sound for speech. Ideal for news programmes.
You can switch the speech improvement on or off.

To switch on or off…

1. Consumer Mode: On – Press ♠ / ⌂.
Guest Mode: On – Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **Sound** > **Advanced** > **Clear Sound**.
3. Press ▶ (right) and select **On** or **Off**.
4. Press ⬅ / ←, repeatedly if necessary, to close the menu.

HDMI 1–ARC

If you do not need an Audio Return Channel (ARC) on any of the HDMI connections, you can switch the ARC signal off.

1. Consumer Mode: On – Press ♠ / ⌂.
Guest Mode: On – Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **Sound** > **Advanced** > **HDMI 1 – ARC**.
3. Press ▶ (right) and select **On** or **Off**.
4. Press ⬅ / ←, repeatedly if necessary, to close the menu.

Audio out format

With **Audio out format** you can set the audio out signal of the TV to fit the sound processing capabilities of your Home Theatre System.

To set **Audio out format**…

1. Consumer Mode: On – Press ♠ / ⌂.
Guest Mode: On – Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **Sound** > **Advanced** > **Audio out format**.
3. Press ▶ (right) and select **Multichannel** or **Stereo**.
4. Press ⬅ / ←, repeatedly if necessary, to close the menu.

Audio out levelling

With **Audio out levelling** you can level the sound volume of the Home Theatre System with the volume of the TV when you switch over from one to another.

To level the difference in volume…

1. Consumer Mode: On – Press ♠ / ⌂.
Guest Mode: On – Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **Sound** > **Advanced** > **Audio out levelling** .
3. Select **More**, **Medium**, or **Less**, then press **OK**.
4. If the volume difference is large, select **More**. If the volume difference is small, select **Less**.
5. Press ⬅ / ←, repeatedly if necessary, to close the menu.

Audio out delay

If you set an Audio sync delay on your Home Theatre System, to synchronise the sound with the picture, you must switch off **Audio out delay** on the TV.

To switch off **Audio out delay**…

1. Consumer Mode: On ‒ Press ♠ / ⌂.
Guest Mode: On ‒ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **Sound** > **Advanced** > **Audio out delay**.
3. Press ▶ (right) and select **Off** or **On**.
4. Press ⬑ / ←, repeatedly if necessary, to close the menu.

Audio out offset

If you cannot set a delay on the Home Theatre System, you can set a delay on the TV with **Audio out offset** .

To synchronise the sound on the TV…

1. Consumer Mode: On ‒ Press ♠ / ⌂.
Guest Mode: On ‒ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **Sound** > **Advanced** > **Audio out offset**.
3. Use the slider bar to set the sound offset and press **OK**.
4. Press ⬑ / ←, repeatedly if necessary, to close the menu.

11.3

General settings

Menu language

To change the language of the TV menus and messages…

1. Consumer Mode: On ‒ Press ♠ / ⌂.
Guest Mode: On ‒ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **Region and Language** > **Menu language**.
3. Select on the language you need.
4. Press ⬑ / ←, repeatedly if necessary, to close the menu.

Clock

Date and Time

Automatic

In some countries, digital broadcasts do not send UTC – Coordinated Universal Time information.
The daylight saving change might be ignored and the TV might show an incorrect time.

When you record programmes – scheduled in the TV Guide, we recommend not to change the time and date manually. In some countries, for some network operators, the **Clock** setting is hidden to avoid an incorrect clock setting.

To correct the TV clock automatically…

1. Consumer Mode: On ‒ Press ♠ / ⌂.
Guest Mode: On ‒ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **General settings** > **Clock** > **Auto Clock Mode**, and select **Country dependent**.
3. Select **Daylight saving** and select the appropriate setting.
4. Press ⬑ / ←, repeatedly if necessary, to close the menu.

Manual

To set the TV clock manually…

1. Consumer Mode: On ‒ Press ♠ / ⌂.
Guest Mode: On ‒ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **General settings** > **Clock** > **Auto Clock Mode**, and select **Manual**.
3. Select **Date** and **Time** to adjust.
4. Press ⬑ / ←, repeatedly if necessary, to close the menu.

Time zone

To set the time zone…

1. Consumer Mode: On ‒ Press ♠ / ⌂.
Guest Mode: On ‒ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **General settings** > **Clock** > **Time zone**.
3. Select one of the time zones.
4. Press ⬑ / ←, repeatedly if necessary, to close the

menu.

Sleep timer

With the sleep timer, you can set the TV to switch to standby automatically after a preset time.

To set the sleep timer…

1. Consumer Mode: On ‒ Press ♠ / ⌂.
Guest Mode: On ‒ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **General settings** > **Sleep timer**.
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.
3. Press ⇦ / ←, repeatedly if necessary, to close the menu.

Switch off timer

If the TV receives a TV signal but you don't press a key on the remote control during a 4 hour period, the TV switches off automatically to save energy. Also, if the TV does not receive a TV signal nor a remote control command for 10 minutes, the TV switches off automatically.

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 deactivate the Switch off timer…

1. Consumer Mode: On ‒ Press ♠ / ⌂.
Guest Mode: On ‒ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **General settings** > **Switch off timer**.
3. Select inside the slider bar to adjust the value. The value 0 (Off) deactivates the automatic switch off.
4. Press ⇦ / ←, repeatedly if necessary, to close the menu.

Location

To set the TV for Home use…

1. Consumer Mode: On ‒ Press ♠ / ⌂.
Guest Mode: On ‒ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **General settings** > **Location** and press **OK**.
3. Select **Home** and press **OK**.
4. Press ⇦ / ←, repeatedly if necessary, to close the menu.

TV placement

As part of the first installation, this setting is set to either **On a TV stand** or **On the Wall**. If you have changed the placement of the TV since then, adjust this setting accordingly for best sound reproduction.

1. Consumer Mode: On ‒ Press ♠ / ⌂.
Guest Mode: On ‒ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **General settings** > **TV Placement** and press **OK**.
3. Select **On a TV stand** or **On the Wall**.
4. Press ⇦ / ←, repeatedly if necessary, to close the menu.

Factory settings

You can set the TV back to the original TV settings (the factory settings).

To switch back to the original settings…

1. Consumer Mode: On ‒ Press ♠ / ⌂.
Guest Mode: On ‒ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **General settings** > **Factory Settings** and press **OK**.
3. Press ⇦ / ←, repeatedly if necessary, to close the menu.

Reinstall TV

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

To redo a full TV installation...

1. Consumer Mode: On ▬ Press ♠ / ⌂.
Guest Mode: On ▬ Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > **TV settings** > **General settings** > **Reinstall TV** and press **OK**.
3. Follow the instructions on screen. The installation may take a few minutes.

Specifications

12.1
Environmental

Saving energy

The **Eco settings** bundle the settings that help the environment.

While you are watching TV channels, press ▬ to open **Eco settings**.
Press ▬ again to close **Eco settings**.

Energy saving
This Picture style sets the picture, in the most ideal energy conscious setting.

Screen off
If you only listen to music, you can switch off the TV screen to save energy.
Select **Screen off** and press **OK**. To switch the screen back on, press any key on the remote control.

Auto switch off
If you do not press a key on the remote control during a 4 hour period, or if the TV receives no signal for 10 minutes, the TV switches off automatically to save energy.

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, deactivate the automatic switch off.

In addition to the **Eco settings**, your TV also has environmentally friendly technology with regard to power consumption.

Inactive devices off
Switch off connected EasyLink HDMI-CEC (Consumer Electronic Control) compliant devices that are inactive.

European energy label

The **European Energy Label** informs you on the energy efficiency class of this product. The greener the energy efficiency class of this product is, the lower the energy it consumes.
On the label, you can find the energy efficiency class, the average power consumption of this product in use and the average energy consumption for 1 year. You can also find the power consumption values for this product on the Philips website for your country at www.philips.com/TV

Product Fiche

24HFL3011
· Energy Efficiency Class : A+
· Visible Screen Size : 60 cm / 24 inch
· On Mode Power Consumption (W) : 19 W
· Annual Energy Consumption (kWh) * : 28 kWh
· Standby Power Consumption (W) **: 0.50 W
· Display Resolution (Pixels) : 1366 x 768p

32HFL3011
· Energy Efficiency Class : A+
· Visible Screen Size : 80 cm / 32 inch
· On Mode Power Consumption (W) : 31 W
· Annual Energy Consumption (kWh) * : 45 kWh
· Standby Power Consumption (W) ** : 0.50 W
· Display Resolution (Pixels) : 1366 x 768p

40HFL3011
· Energy Efficiency Class : A+
· Visible Screen Size : 102 cm / 40 inch
· On Mode Power Consumption (W) : 46 W
· Annual Energy Consumption (kWh) * : 68 kWh
· Standby Power Consumption (W) **: 0.50 W
· Display Resolution (Pixels) : 1920 x 1080p

43HFL3011
· Energy Efficiency Class : A+
· Visible Screen Size : 108 cm / 43 inch
· On Mode Power Consumption (W) : 42 W
· Annual Energy Consumption (kWh) * : 62 kWh
· Standby Power Consumption (W) **: 0.50 W
· Display Resolution (Pixels) : 1920 x 1080p

* Energy consumption kWh per year, based on the power consumption of the television operating 4 hours per day for 365 days. The actual energy consumption depends on how the television is used.

** When the TV is turned off with the remote control and no function is active.

End of use

Disposal of your old product and batteries

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

When this crossed-out wheeled bin symbol is attached to a product it means that the product is covered by the European Directive 2002/96/EC.

Disposal of Waste Equipment by Users in Private Household in the European Union.

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the enviroment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

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

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

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

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

12.2
Reception

– Aerial input : 75 ohm coaxial (IEC75)
– Tuner bands : Hyperband; S-Channel; UHF; VHF
– DVB : DVB-T (terrestrial, antenna) COFDM 2K/8K; DVB-T2; DVB-C (cable) QAM
– Analogue video playback : NTSC; SECAM; PAL
– Digital video playback : MPEG2 SD/HD (ISO/IEC 13818-2); MPEG4 SD/HD (ISO/IEC 14496-10)

– Digital audio playback (ISO/IEC 13818-3)

12.3
Display

Type

Diagonal screen size:

– 24HFL3011: 60 cm / 24 inch
– 32HFL3011: 80 cm / 32 inch
– 40HFL3011: 102 cm / 40 inch
– 43HFL3011: 108 cm / 43 inch

Display resolution:

– 1366 x 768p (for 24HFL3011/32HFL3011)
– 1920 x 1080p (for 40HFL3011/43HFL3011)

Display resolutions

Video formats

Resolution — Refresh rate

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

Computer formats

Resolutions (amongst others)

· 640 x 480p – 60 Hz
· 800 x 600p – 60 Hz
· 1024 x 768p – 60 Hz
· 1280 x 768p – 60 Hz
· 1360 x 765p – 60 Hz
· 1360 x 768p – 60 Hz
· 1280 x 1024p – 60 Hz
· 1920 x 1080p – 60 Hz

12.4
Power

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

Power
· Mains power : AC 220-240V +/-10%
· Ambient temperature : 5°C to 35°C
· Standby power consumption : less than 0.5W
· Power saving features : Eco mode, Picture mute (for radio), Auto switch-off, Eco settings menu.

The power rating stated on the product typeplate is the power consumption for this product during normal household use (IEC 62087 Ed.2). The maximum power rating, stated between brackets, is used for electrical safety (IEC 60065 Ed. 8.0).

12.5
Dimensions and weights

24HFL3011

– without TV stand:
Width 559.6 mm – Height 335.8 mm – Depth 44.9 mm
– Weight ± 3.29 kg

– with TV stand:
Width 559.6 mm – Height 344.5 mm – Depth 112 mm – Weight ± 3.32 kg

32HFL3011

– without TV stand:
Width 726.5 mm – Height 425.4 mm – Depth 76.8 mm – Weight ± 4.88 kg

– with TV stand:
Width 726.5 mm – Height 490.9 mm – Depth 186 mm – Weight ± 4.96 kg

40HFL3011

– without TV stand:
Width 918 mm – Height 531.5 mm – Depth 76.8 mm – Weight ± 8.0 kg

– with TV stand:
Width 918 mm – Height 596.7 mm – Depth 221.9 mm – Weight ± 9.98 kg

43HFL3011

– without TV stand:
Width 971.3 mm – Height 563.5 mm – Depth 77.3 mm – Weight ± 10.55 kg

– with TV stand:
Width 971.3 mm – Height 626.4 mm – Depth 212.1 mm – Weight ± 12.59 kg

12.6
Connectivity

TV Rear

– HDMI 1 in – ARC – HDCP 2.2
– HDMI 2 in – HDCP 2.2
– SERV. U: Service port
– AUDIO IN (DVI): Stereo 3.5mm mini-jack
– DIGITAL AUDIO OUT: SPDIF
– YPbPr : Y Pb Pr, Audio L/R : Stereo mini-jack 3.5mm
– USB
– TV ANTENNA: 75 ohm coaxial (IEC)

TV Side

– CI: Common Interface
– HDMI 3 in – HDCP 2.2
– USB
– Headphones: Stereo 3.5mm mini-jack

12.7
Sound

– Mono / Stereo
– Sound enhancement : Incredible Surround, Clear Sound
– Output power:
24": 10W (RMS @ 10% THD)
32"/40"/43": 16W (RMS @ 10% THD)

12.8
Multimedia

Note: Multimedia file names must not exceed 128 characters.

Supported multimedia connections

– USB (FAT / FAT 32 / NTFS): only connect USB devices that consume 500 mA of power or less.

Supported image files

– JPEG: *.jpg, *.jpeg
– PNG: *.png.jpg.jpg

Supported audio files

– MPEG1: *.mp3

Supported video files

– *.avi, *.mp4, *.mov, *.mkv, *.mpg, *.mpeg

Supported subtitle format

– SRT: multiple language support

13

Software

13.1

Software version

To view the current TV software version…

1. Consumer Mode: On – Press ♠ / ⌂.
Guest Mode: On – Guest Menu: Not available in
Guest Menu.
(For professional mode information, please refer to
Installation manual)
2. Select **Setup** > **Software settings** and press **OK** to
view current software information.
3. Press ⬑ / ⬅, repeatedly if necessary, to close the
menu.

13.2

Open source software

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

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

open.source@tpvision.com

13.3

Open source license

Open source license

Open source license statement

Acknowledgements and License Texts for any open
source software used in this product.
This is a document describing the distribution of the
source code used in this product, which fall
either under the GNU General Public License (the
GPL), or the GNU Lesser General Public License (the
LGPL), or any other open source license.
Instructions to obtain source code for this software
can be found in the documentation supplied with this
product.
TP VISION MAKES NO WARRANTIES WHATSOEVER,
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FITNESS FOR A PARTICULAR PURPOSE, REGARDING
THIS SOFTWARE.

TP Vision offers no support for this software. The
preceding does not affect your warranties
and statutory rights regarding any product(s) you
purchased. It only applies to this source code
made available to you.

libsqlite3

SQLite is a C library that implements an SQL database
engine.
Programs that link with the SQLite library can have
SQL database access without running a separate
RDBMS process.

Source: http://linuxappfinder.com/package/libsqlite
3-0

libpng

It supports almost all PNG features, is extensible, and
has been extensively tested for over 17 years

Source: http://www.libpng.org

libboost

Provides a repository for free peer-reviewed portable
C++ source libraries. The emphasis is on libraries
which work well with the C++ standard library

Source: http://www.boost.org

libjpeg (6b)

Libjpeg is a widely used C library for reading and
writing JPEG image files.

Source: http://libjpeg.sourceforge.net/

zlib

zlib is designed to be a free, general-purpose, legally
unencumbered -- that is, not covered by any patents
-- lossless data-compression library for use on
virtually any computer hardware and operating
system.

Source: www.zlib.net

DirectFB

DirectFB is a thin library that provides hardware graphics acceleration, input device handling and abstraction, integrated windowing system with support for translucent windows and multiple display layers, not only on top of the Linux Framebuffer Device.

Source: https://github.com/DirectFB

FFMpeg (0.6)

Cross-platform solution to record, convert and stream audio and video. It includes libavcodec - the leading audio/video codec library

Source: http://www.ffmpeg.org

Log4c

Log4c is a library of C for flexible logging to files, syslog and other destinations. It is modeled after the Log for Java library, staying as close to their API as is reasonable. Here is a short introduction to Log4j which describes the API, and design rationale.

Source: http://log4c.sourceforge.net

libmtd

MTD development is kept in GIT and managed according to standard Linux development practices.

Source: http://www.linux-mtd.infradead.org

iconv

This library provides an iconv() implementation, for use on systems which don't have one, or whose implementation cannot convert from/to Unicode.

Source: https://github.com/GerHobbelt/libiconv

libcurl

libcurl is a free and easy-to-use client-side URL transfer library, supporting DICT, FILE, FTP, FTPS, Gopher, HTTP, HTTPS, IMAP, IMAPS, LDAP, LDAPS, POP3, POP3S, RTMP, RTSP, SCP, SFTP, SMTP, SMTPS, Telnet and TFTP.

Source: https://curl.haxx.se/libcurl/

libexif

the EXIF parsing library. exif, the simple command line interface to libexif. ... as libexif source tarball releases

Source: http://libexif.sourceforge.net

openssl

OpenSSL is an open source project that provides a robust, commercial-grade, and full-featured toolkit for the Transport Layer Security (TLS) and Secure Sockets Layer (SSL) protocols. It is also a general purpose cryptography library.

Source: https://www.openssl.org

uchardet

An encoding detector library ported from Mozilla

Source: https://github.com/BYVoid/uchardet

webkit

WebKit is the web browser engine used by Safari, App Store, and many other OS X, iOS, and Linux applications.

Source: https://webkit.org

Troubleshooting and support

14.1
Troubleshooting

Channels

No digital channels found during the installation

See the technical specifications to make sure that your TV supports DVB-T or DVB-C in your country. Make sure that all cables are properly connected and that the correct network is selected.

Previously installed channels are not in the channel list

Make sure that the correct channel list is selected.

General

The TV does not switch on

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

Creaking sound at startup or switch off

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

TV does not respond to the remote control

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

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

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

Wrong menu language

Change the language back to your language.

1. Consumer Mode: On – Press ♠ / ⌂.
Guest Mode: On – Guest Menu: Not available in Guest Menu.
(For professional mode information, please refer to Installation manual)
2. Select **Setup** > TV settings > Region and Language > Menu language and press OK.
3. Select the language you want and press OK.
4. Press ↰ / ←, repeatedly if necessary, to close the menu.

Picture

No picture / distorted picture

– Make sure that the antenna is properly connected to the TV.
– Make sure that the correct device is selected as the display source.
– Make sure that the external device or source is properly connected.

Sound but no picture

– Make sure that the picture settings are set correctly.

Poor antenna reception

– Make sure that the antenna is properly connected to the TV.
– Loud speakers, unearthed audio devices, neon lights, high buildings and other large objects can influence reception quality. If possible, try to improve the reception quality by changing the antenna direction or moving devices away from the TV.
– If reception on only one channel is poor, fine-tune this channel.

Poor picture from a device

– Make sure that the device is connected properly.
– Make sure that the picture settings are set correctly.

Picture settings change after a while

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

A commercial banner appears

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

Picture does not fit the screen

Change to a different picture format.
Press ✿ SETTINGS key on remote control to access the quick settings, then select **Picture format** for adjustments.

Picture format keeps changing with different channels

Select a non 'Auto' picture format.

Picture position is incorrect

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

Computer picture is not stable

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

Sound

No sound or poor sound quality

If no audio signal is detected, the TV automatically switches the audio output off — this does not indicate malfunction.

– Make sure that the sound settings are correctly set.
– Make sure that all cables are properly connected.
– Make sure that the volume is not muted or set to zero.
– Make sure that the TV audio output is connected to the audio input on the Home Theatre System.
– Sound should be heard from the HTS speakers.
– Some devices may require you to manually enable HDMI audio output. If HDMI audio is already enabled, but you still do not hear audio, try changing the digital audio format of the device to PCM (Pulse Code Modulation). Refer to the documentation accompanying your device for instructions.

Connections

HDMI

– Note that HDCP (High-bandwidth Digital Content Protection) support can delay the time taken for a TV to display content from an HDMI device.
– If the TV does not recognise the HDMI device and no picture is displayed, switch the source from one device to another and back again.
– If there are intermittent sound disruptions, make sure that output settings from the HDMI device

are correct.
– If you use an HDMI-to-DVI adapter or HDMI-to-DVI cable, make sure that an additional audio cable is connected to AUDIO IN (mini-jack only), if available.

EasyLink does not work

– Make sure that your HDMI devices are HDMI-CEC compatible. EasyLink features only work with devices that are HDMI-CEC compatible.

No volume icon shown

– When a HDMI-CEC audio device is connected this behaviour is normal.

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

– Make sure that the USB storage device is set to Mass Storage Class compliant, as described in the storage device's documentation.
– Make sure that the USB storage device is compatible with the TV.
– Make sure that the audio and picture file formats are supported by the TV.

Choppy playback of USB files

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

14.2

Register

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

Go to www.philips.com/welcome

14.3

Online help

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

Go to www.philips.com/support .

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.

Consumer Care / Repair

For support and repair, call the Consumer Care hotline in your country.

Find the telephone number in the printed documentation that came with the TV.
Or consult our website **www.philips.com/support**.

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 attemp to repair the TV yourself. This may cause severe injury, irrepairable damage to your TV or void your warranty.

Safety and care

15.1

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.

Secure the TV from falling over

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

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

Risk of electric shock or fire

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

Risk of injury or damage to the TV

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

Risk of damage to the TV !

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

Risk of injury

Follow these precautions to prevent the TV from toppling over and causing injury:

· Never place the TV on a surface covered by a cloth or other material that can be pulled away.
· Ensure that no part of the TV hangs over the edge of the mounting surface.
· Never place the TV on tall furniture, such as a bookcase, without anchoring both the furniture and TV to the wall or a suitable support.
· Teach children about the dangers of climbing on furniture to reach the TV.

Risk of swallowing batteries !

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

Risk of overheating

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

Lightning storms

Disconnect the TV from the power outlet and antenna before lightning storms.
During lightning storms, never touch any part of the TV, power cord or antenna cable.

Risk of hearing damage

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

Low temperatures

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

Humidity

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

15.2
Screen care

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

Terms of Use

16.1
Terms of Use – TV

2016 © TP Vision Europe B.V. All rights reserved.

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

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

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

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

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

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

CE compliance
Hereby, TP Vision Europe B.V. declares that this television is in compliance with the essential requirements and other relevant provisions of Directives 1999/5/EC (RTTE), 2004/108/EC (EMC), 2006/95/ EC (Low Voltage), 2009/125/EC (Energy Labelling) and 2011/65/EC (RoHS).
From June 2016 onwards the following Directives are valid 2014/53/EU (RED), 2009/125/EC (Eco Design), 2010/30/ EU (Energy Labelling) and 2011/65/EC (RoHS).

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

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

Türkiye Cumhuriyeti: EEE Yönetmeliğine Uygundur

16.2
Copyrights

HDMI

 HDMI®

The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

Dolby

Dolby®

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

MHEG software

The copyright in MHEG software (the Software) comprised in this television (this product) and included to enable you to use interactive television features is owned by S&T CLIENT SYSTEMS LIMITED (the Owner). You are permitted to use the Software only in conjunction with this product.

Kensington

(If applicable)

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Index

Contact information

Albania/Shqipërisë
+355 44806061

Andorra
+34 915 909 335

Armenia
0-800-01-004

Austria/Österreich
0150 2842133

Belarus/Беларусь
8 10 800 2000 00 04

Belgium/België/Belgique
02 7007360

Bulgaria/България
0 0800 1154426
+359 2 4916273

Croatia/Hrvatska
0800 222 782

Czech Republic/Česká republika
800 142100

Denmark/Danmark
352 587 61

Estonia/Eesti Vabariik
800 0044 307

Finland/Suomi
09 229 019 08

France
01 57324070

Germany
0696 640 4383

Greece/Ελλάδα
0 0800 4414 4670

Greece Cyprus
800 92 256

Hungary/Magyarország
068 001 85 44
(06 1) 700 8151

Republic of Ireland/Poblacht nah Éireann
1 601 1161

Northern Ireland/Tuaisceart Éireann
1 601 1161

Italy/Italia
02 4528 7030

Kazakhstan/Қазақстан
8 10 800 1000 00 04

Kosovo/Kosovës
+355 44806061

Latvia/Latvija
800 03 448

Lithuania/Lietuva
880 030 049

Luxembourg/Luxemburg
26 84 3000

Montenegro
+ 382 20 240 644

Netherlands/Nederlands
010 4289533

Norway/Norge
22 70 82 50

Poland/Polska
022 203 0327

Portugal
0800 780 902

Romania/România
03 727 66905
031 6300042

Russia/Россия
8 (800) 220 0004

Serbia/Srbija
+ 381 11 40 30 100

Slovakia/Slovensko
0800 0045 51

Slovenia
0800 80 255

Spain/España
915 909 335

Sweden/Sverige
08 6320 016

Switzerland/Schweiz/Suisse
223 102 116

Turkey/Türkiye
0 850 222 44 66

Ukraine/Україна
0 800 500 480

United Kingdom
020 7949 0069