

User Manual

50BFL2114/12
58BFL2114/12
65BFL2114/12
70BFL2114/12
75BFL2114/12

PHILIPS

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Setting Up

Read Safety

Read the safety instructions first before you use the TV.

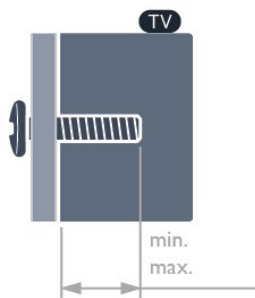
Wall Mounting

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

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

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

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



- 50BFL2114
VESA MIS-F 200x200, M6 (min.: 12mm, max.:14mm)
- 58BFL2114
VESA MIS-F 3 00x200, M6 (min.: 18mm, max.:22mm)
- 65BFL2114
VESA MIS-F 400x300, M6 (min.: 12mm, max.:18mm)
- 70BFL2114
VESA MIS-F 400x200, M8 (min.: 18mm, max.:23mm)
- 75BFL2114
VESA MIS-F 600x400, M8 (min.: 18mm, max.:28mm)

Preparation

First remove the 2 plastic screw caps out of the threaded bushes on the back of the TV (For 50" and 65").

Make sure that the metal screws, to mount the TV to the VESA-compliant bracket, go about 10mm deep inside the threaded bushes of the TV.

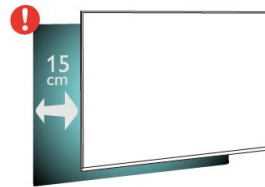
Caution

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

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

Tips on Placement

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

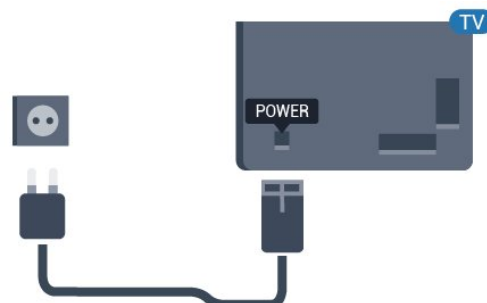


Note:

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

Power Cable

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

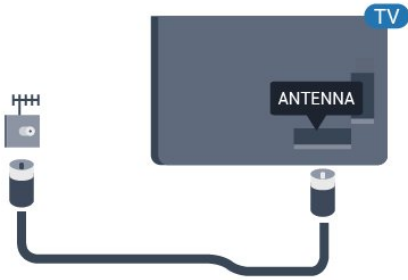


Antenna Cable

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 F Coax 75 Ohm RF antenna connector.

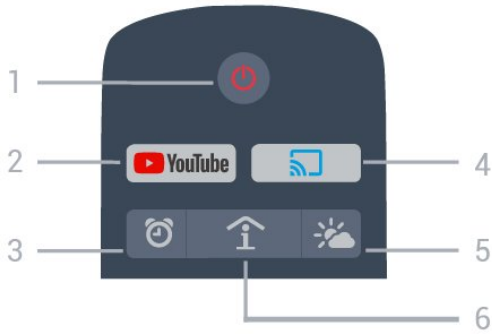
Use this antenna connection for NTSC-M and ATSC input signals.



Remote Control

Key overview

Top



1 - Standby / On

To switch the TV on or back to Standby.

2 - Youtube

To open Youtube.

3 - Alarm (Only in Professional Mode ON)

To set the alarm.

4 - Google Cast (Only in Professional Mode ON)

To mirror the content of your mobile device display on to the TV.

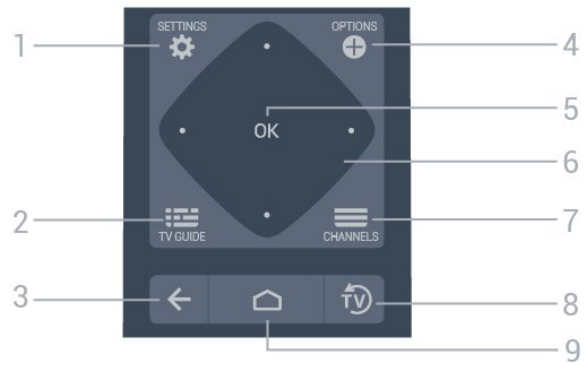
5 - Weather (Only in Professional Mode ON)

To show the weather information of your location.

6 - SMART INFO (Only in Professional Mode ON)

To show information provided by the Hotel.

Middle



1 - **SETTINGS**

To open the settings menu.

2 - **TV GUIDE** (Only in Professional Mode ON, optional function.)

To open a list of the current and scheduled TV programs of your channels.

3 - **BACK**

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

4 - **OPTIONS**

To open or close the options menu.

5 - **OK** key

To confirm a selection or setting.

6 - **Arrow / navigation** keys

To navigate up , down , left or right .

7 - **Channel**

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

8 - **EXIT**

To switch back to watching TV.

9 - **HOME**

To open the Home menu.

Bottom



1 - Volume

To adjust the volume level.

2 - color keys

Direct selection of options.

3 - CLOCK

To display the clock.

4 - Channel

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

5 - Mute

To mute the sound or to restore it.

2.2

IR Sensor

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

Warning

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

2.3

Cleaning

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




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

Switching On and Off


On or Standby

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

Switch on

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

Switch to standby

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

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

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

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

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 or bottom of the TV to bring up the basic menu.

2 - Press left or right to select  Volume,  Channel or  Sources.

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 on standby, select  and press the joystick key on the back or bottom of the TV.

Specifications

4.1

Environmental

4.2

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

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

4.3

Operating System

Android OS :

Android Pie 9

4.4

Reception

- Aerial input : 75 ohm coaxial (F-Type)
- Tuner bands : UHF, VHF
- Analogue TV : NTSC-M
- Digital TV : ATSC
- Digital video playback : MPEG2 SD/HD
- Digital audio playback : AC3

4.5

Display Type

Diagonal screen size

- 126 cm / 50 inch
- 146 cm / 58 inch
- 164 cm / 65 inch
- 178 cm / 70 inch
- 189 cm / 75 inch

Display resolution

- 3840 x 2160

4.6

Display Input Resolution

Video formats

Resolution — Refresh rate

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

Computer formats

Resolutions (amongst others)

- 640 x 480 - 60 Hz
- 800 x 600 - 60 Hz
- 1024 x 768 - 60 Hz
- 1280 x 800 - 60 Hz
- 1280 x 960 - 60 Hz
- 1280 x 1024 - 60 Hz
- 1366 x 768 - 60Hz
- 1440 x 900 - 60Hz
- 1600 x 1200 - 60 Hz
- 1920 x 1080 - 60 Hz
- 3840 x 2160 - 60 Hz

4.7

Connectivity

TV Side

- USB 1 - USB 3.0
- Headphones - Stereo mini-jack 3.5mm
- HDMI 1/2 in - ARC

TV Bottom

- Network LAN - RJ45
- HDMI 3/4 in - ARC
- Antenna (75 ohm)
- USB 2 - USB 2.0
- 12V DC out
- 8 Ω Audio out
- Digital Audio Out

4.8

Dimensions and Weights

50BFL2114

- without TV stand:

Width 1127.64 mm - Height 655.31 mm - Depth 89.62 mm - Weight \pm 11.1 kg

58BFL2114

- without TV stand:

Width 1302.08 mm - Height 762.56 mm - Depth 89.92

mm - Weight ± 15 kg

65BFL2114

· without TV stand:

Width 1463.88 mm - Height 848.7 mm - Depth 90.72

mm - Weight ± 20.94 kg

70BFL2114

· without TV stand:

Width 1583.8 mm - Height 895.4 mm - Depth 92.7

mm - Weight ± 23.4 kg

75BFL2114

· without TV stand:

Width 1683.2 mm - Height 974.4 mm - Depth 93.7

mm - Weight ± 33.5 kg

4.9

Sound

- Output power (RMS) : 20W
- Dolby Audio
- DTS HD

Connect Devices

5.1

Connect Devices

Connectivity Guide

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

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

Antenna port

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

HDMI ports

HDMI Quality

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

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



Copy protection

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

HDMI ARC

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

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

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



HDMI CEC - EasyLink

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

Connect HDMI CEC-compatible devices to your TV, you can operate them with the TV remote control.

EasyLink HDMI CEC must be switched on on the TV and the connected device.






Note:

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

EasyLink On or Off

You can switch EasyLink on or off. The TV comes with the EasyLink settings switched on.

To switch off EasyLink completely...

Professional Mode OFF – Press  /  Home. Press , select **Settings** and press **OK**.

Select **Sources** > **EasyLink**, and press **OK**.

Select **EasyLink**, and press **OK**.

Select **Off** and press **OK**.


Press  **BACK**, repeatedly if necessary, to close the menu.

Professional Mode ON – Please refer to the 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.

To switch EasyLink Remote Control on or off...

Professional Mode OFF – Press  /  Home. Press , select **Settings** and press **OK**.

Select **Sources** > **EasyLink**, and press **OK**.

Select **EasyLink Remote Control** and press **OK**.

Select **On** or **Off** and press **OK**.

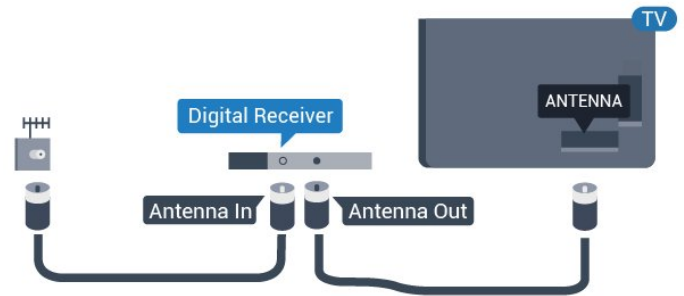
Press  **BACK**, repeatedly if necessary, to close the menu.

Professional Mode ON – Please refer to the installation manual.

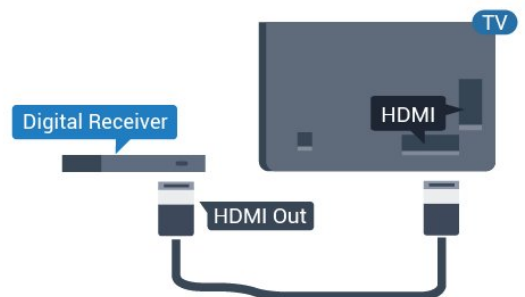
5.2

Receiver – Set-Top Box

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.



5.3

Home Theatre System - HTS

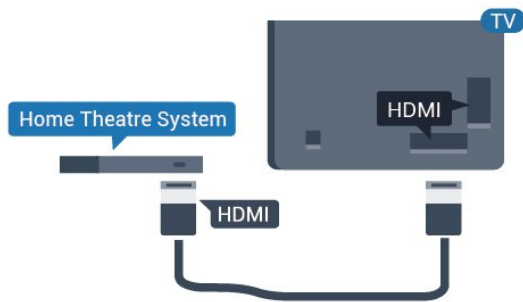
Connect with HDMI ARC

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 disk player.

HDMI ARC

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

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



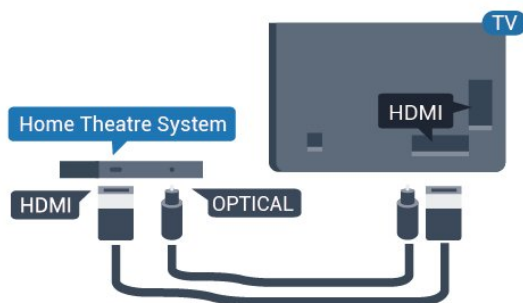
Audio to video synchronisation (sync)

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

*Not all TV support Optical (Toslink) function.

Audio Out Settings

Professional Mode OFF - Press  /  > Settings > Sound > Advanced > Audio out.

Professional Mode ON - Not available in this mode. (For professional mode information, please refer to Installation manual)

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

You can select where you want to hear the TV sound

and how you want to control it.



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

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

Problems with HTS sound

Sound with loud noise

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

Professional Mode OFF - Press  /  Home > Settings > Sound > Advanced >

Digital Out Format

Professional Mode ON - Not available in Guest Menu.

(For professional mode information, please refer to Installation manual)

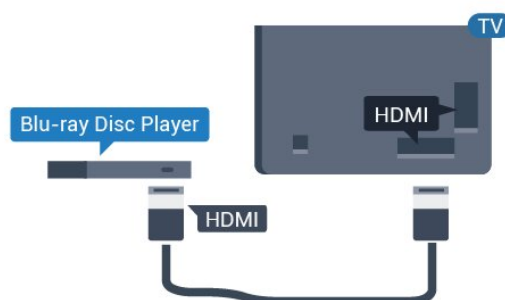
No sound

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

5.4

Blu-ray disk Player


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

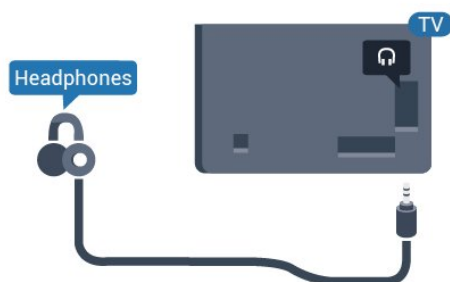


If the Blu-ray disk player has EasyLink HDMI CEC, you can operate the player with the TV remote control.

5.5

Headphones

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

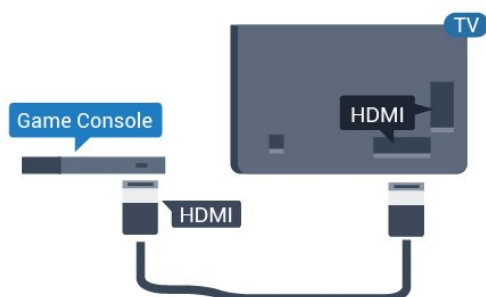


5.6

Game Console

HDMI


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



5.7

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  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...

Professional Mode

OFF – Press  /  Home, select  Apps, select  Sources. Choose USB press  OK.

Professional Mode On – Press  /  Home, select  TV Channels , select  SOURCES . Choose  USB and press  OK.

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

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

5.8

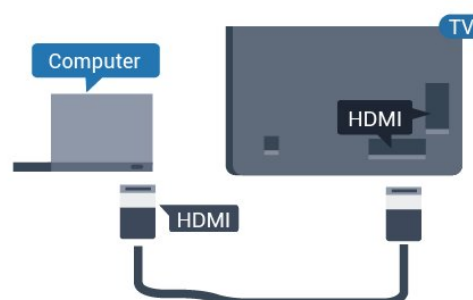
Computer

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.



Ideal Setting

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

To set the TV to the ideal setting...




Professional Mode OFF – Press  /  Home. Press  (down), select  Settings and press  OK.

Select  Picture and press  (right) to enter the menu. Select  Picture Style >  Computer and press  OK.

Select  On or  Off, and press  OK.

Press ← repeatedly if necessary, to close the menu.

Professional Mode

ON – Press  /  Home > 

More >  Settings >  Picture. Press OK.

Select Picture Style > Computer and press OK.

Select On or Off, and press OK.

Press ← repeatedly if necessary, to close the menu.

(For professional mode information, please refer to Installation manual)

TV Guide

Using the TV Guide

Open the TV Guide

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

Press  TV GUIDE again to close.

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




TV Guide can only be done in Professional Mode ON and is an optional function.

Games


Play a Game




By Apps

To start a game from a Game Apps...


Professional Mode Off – Press  /  Home, select  Apps and then select Google Play Games.

Sign in your Google account and start a game.

Press  BACK repeatedly or press  EXIT or stop the app with its dedicated exit/stop button.

Professional Mode ON – Press  /  Home. Select  Games.

Sign in your Google account and start a game.

Press  BACK repeatedly or press  EXIT or stop the app with its dedicated exit/stop button.







Professional Menu App

8.1




About the Professional Menu App

From the Professional Menu App, you can start any activity you can do with the TV.

The left part of the Professional Menu App is organised in rows...

- Recommended 
- TV Channels 
- Cast 
- Apps 
- Games 
- More 

The upper right part of the Professional Menu App is organised in rows...



- Manage Account
- Set Alarm 
- Weather 
- Menu Language 
- Current Time

8.2

Open the Professional Menu App

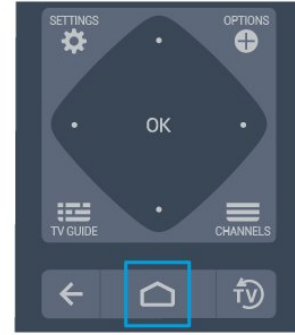
Professional Mode OFF - Please refer to Chapter "Android TV Home Screen".

Professional Mode ON - To open the Professional Menu App and open an item...

1 - Open the Professional Menu App by pressing Home  / .

2 - Select an activity by using the arrow keys and press **OK** to start the activity.

3 - To close the Professional Menu App without changing the current activity, press **←**.



When opening the Professional Menu App, the background application/content playback will stop. You have to select the application or content from the Professional Menu App to resume.

8.3

TV Channels

Channel Lists

About Channel Lists

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

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

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.

Open a Channel List

To open the current channel list...

1. Press **TV**, to switch to TV.
2. Press **≡ CHANNELS** to open the current channel list. Select **≡ All Channels** to show both TV and Radio channels. Select **TV** to show only TV Channels. Select **📻** to show only Radio channels.
3. Press **≡ CHANNELS** again to close the channel list.

Watching channels

Tune to a Channel

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

Switch channels

- To switch channels, press + or -.

Previous channel

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

Channel list

While watching a TV channel, press to open the channel lists.

Channel Options

Open Options

While watching a channel, you can set some options.

Depending on the type of channel you are watching (analog 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.

8.4

Games

To open the Professional Menu App and open Games...

1 - Press / Home to open the Professional Menu App.

2 - Select Games and press OK.

Ideal game setting

For some games, where speed and precision is needed, set the TV to the ideal **Game** setting before you start playing.

If your game console is added as a **Game** type of device in the Sources menu (list of connections), the TV is set to the ideal Game setting automatically. If the type of your game console is set as **Player** and used as a disk player most of the time, leave the device type set to **Player**.

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

- 1 - Select / Home > More > Settings > Picture > Picture style.
- 2 - Select **Game** and press OK.

3 - Press , repeatedly if necessary, to close the menu. Remember to set the Game or computer setting back to Off when you stop playing the game.

8.5

More

To open the Professional Menu App and open More...

- 1 - Open the Professional Menu App.
- 2 - Select More and press OK to open or start it.
- 3 - Select Settings.

• Picture :

Switch between the preset picture styles. There are ideal styles for watching movies or photos, etc.

• Sound :

Switch between the preset sound styles. There are ideal styles for watching movies, listening to music or playing a game.

• Picture Format :

Select a picture format that fits the screen.

• Menu Language :

Select your language and press OK.

4 - Select Features, and press OK.

• Set alarm :

An alarm can be set on the TV. The TV can wakeup on a defined alarm time. Alternatively, alarm time can be set by pressing the button on the remote control.

• 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.

• Weather :

Display the observed temperature, it contains 5 days of weather forecast for the current location.

Alternatively, alarm time can be set by pressing the button on the remote control.

• TV Guide :

Set the TV to receive TV Guide data from the broadcaster or from the Internet.

• TalkBack :

Talkback helps visual-impaired users interact with and enjoy this TV by using spoken word to let him know of what's on screen.

5 - Select **Personal** and press OK.

Professional Settings

Picture Style

Select a style

Press / Home > More > Settings > Picture > Picture style.

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

- Personal - The picture preferences you set during the first start up.
- Vivid - Ideal for daylight viewing
- Natural - Natural picture settings
- Standard - Most energy conscious setting - Factory setting
- Movie - Ideal for watching movies
- Game - Ideal for playing games
- Computer - Ideal for connecting to computer

Picture Format

Select picture format

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

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

Press / Home > More > Settings > Picture format.

The following format can be available according the picture on screen.

- Wide screen
- Fill screen
- Fit to Screen
- Unscaled

Sound Style

Select a style

Press / Home > More > Settings > Sound > Sound style.

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

- Personal - Your personal choices made in Personalize picture and sound
- Original - Most neutral sound setting
- Movie - Ideal for watching movies
- Music - Ideal for listening to music
- Game - Ideal for gaming

- News - Ideal for speech

Language

Change the language of the TV menu and messages

Press / Home > More > Settings > Menu Language.

Select your language and press **OK**.

Eco Settings

Set screen off to save energy consumption

Press / Home > More > Features > Sleep Timer > Screen Off.

If you only listen to music on TV, you can switch off the TV screen.

Only the TV screen will switch off. To switch the screen back on, press any key on the remote control.

Set TV switch off timer

Press / Home > More > Features > Sleep Timer > Sleep Timer.

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

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

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

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

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

Google Account


Sign In

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

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

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

Sign In

Press  /  > Open the Professional Menu App screen.

Choose the Manage Account at the upper right part of the Professional Menu App screen and press **OK**. With the on-screen keyboard, enter your email address and password, press the same **OK** key to sign in.

Android TV Home Screen

About the Android TV Home Screen

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

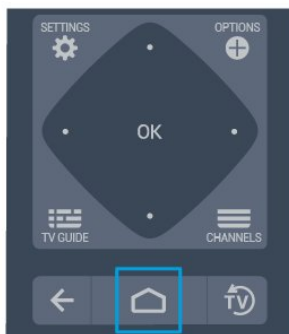
Like on your Android smartphone or tablet, the Home screen is the center of your TV. From the Home screen you can decide what to watch by browsing entertainment options from app and live TV. Your Home has channels to let you discover great contents from your Favorite apps. You can also add additional channels or find new apps to get more contents.

Open the Android TV Home Screen

Professional Mode ON - please refer to the installation manual.

Professional Mode OFF - To open the Android TV Home Screen and open an item...

- 1 - Press Menu and navigate to 'Philips Collection', then press OK.
- 2 - Select an activity using the arrow keys and press **OK** to start the activity.
- 3 - To close the Home menu without changing the current activity, press **←**.



When opening the Android TV Home screen, the background application/content playback will stop. You have to select the application or content from the Android TV Home screen to resume.

Android TV Settings

Picture

Picture Settings

Color, Contrast, Sharpness, Brightness

Adjust the picture color

Press **⌂** / **⌂** Home > **⚙️** Settings > Picture > Color.

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

Adjust the picture contrast

Press **⌂** / **⌂** Home > **⚙️** Settings >

Picture > Contrast. Press the arrows **▲** (up) or **▼** (down) to adjust the contrast value of the picture.

You can decrease contrast value to reduce power consumption.

Adjust the picture sharpness

Press **⌂** / **⌂** Home > **⚙️** Settings > Picture > Sharpness.

Press the arrows **▲** **▼**

Adjust brightness

Press **⌂** / **⌂** Home > **⚙️** Settings > Picture > Brightness.

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

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

Sound

Eco Settings

Sleep Timer

Press **⌂** / **⌂** Home > **⚙️** Settings > Eco Settings > Sleep Timer.

Set the TV to switch to standby automatically after a preset time. To disable this feature, please set time to zero.

Press the arrows **▲** (up) or **▼** (down) to adjust the value. The value 0 (Off) deactivates the automatic

switch off.




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

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

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

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

Screen Off

Press  /  Home >  Settings > Eco Settings > Screen Off.

If you only listen to music on TV, you can switch off the TV screen.

Only the TV screen will switch off. To switch the screen back on, press any key on the remote control.

9.4

Connect your Android TV

Google Account

Sign In

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

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

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

Sign In




Press  Home >  Apps > Google Play.

With the on-screen keyboard, enter your email address and password, press the same **OK** key to sign in.

Android Settings

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

To open these settings

Press  /  Home >  Settings > Settings > Android Settings.





9.5

Channels

Channel Lists

About Channel Lists

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




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

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.


Open a Channel List

To open the current channel list...

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

Watching channels

Tune to a Channel

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

Switch channels

- To switch channels, press **≡ +** or **≡ -**.

Previous channel

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

Channel list

While watching a TV channel, press **≡** to open the channel lists.

9.6

Channel Installation

9.7

Internet

Start Internet

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

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

To start the Internet browser...

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

Options on Internet

Some extras are available for the Internet.

To open the extras...

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

9.8

Smartphones and Tablets

9.9

Software

Update Software

Software Version

To view the current TV software version...

- 1 - Press **⌂ / ⌂**, select **Settings ⚙** and press **OK**.
- 2 - Select **Update Software > Current Firmware** and press **OK**.
- 3 - The version, release notes and creation date are shown.
- 4 - Press **←** (left) repeatedly if necessary, to close the menu.

Update from website

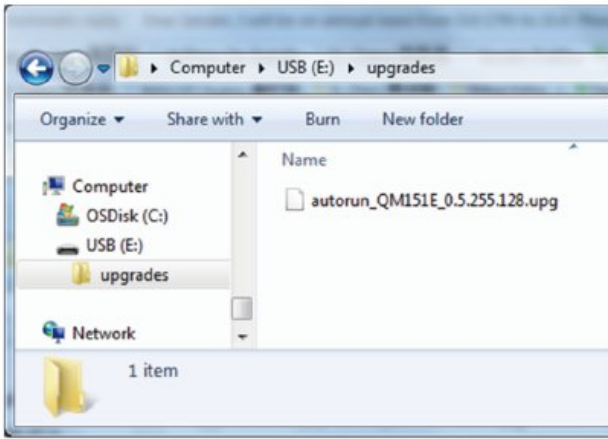
You can find the current firmware version of your TV in the settings menu under "Update Software" > "Current firmware".

Regularly check www.philips.com/support for new Firmware updates.

Follow the instructions below to update the firmware of your TV.

Download the latest software...

- 1 - Launch the Internet Explorer.
- 2 - Enter the Philips support site at url <http://www.philips.com/support>.
- 3 - Enter the model number. (You can find your model number from the label on the rear of the TV.)
- 4 - When enter your TV's product page, select **Support**.
- 5 - Select "Software updates", and click on "Download file" to download the software. (The software is available as a zip file.)
- 6 - If the software version is higher than the version installed on your TV, click the software download link.
- 7 - Accept the license agreement/Terms and Conditions, select "I agree", then the zip file will be downloaded automatically.
- 8 - Unzip the zip file to any directory using an archive utility.
- 9 - Create a folder name "upgrades" in the main directory of your USB flash drive.
- 10 - Copy the upg file you have extract earlier into the upgrades folder, as depicted in the picture below.
- 11 - disconnect your USB flash drive from the computer.



Update the software...

- 1 - Connect your USB flash drive (containing the software update) to the USB connector on the TV. Wait 30 seconds or until the USB drive is recognized by the TV.
- 2 - Your TV will start loading the software automatically.
- 3 - When the loading of the software finished, press "Start" to activate the upgrade of the TV.

Open Source Software

Open Source License

About Open Source License

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

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

TP Vision Netherlands B.V. MAKES NO WARRANTIES WHATSOEVER, EITHER EXPRESS OR IMPLIED, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, REGARDING THIS SOFTWARE. TP Vision Netherlands B.V. offers no support for this software. The preceding does not affect your warranties and statutory rights regarding any TP Vision Netherlands B.V. product(s) you purchased. It only applies to this source code made available to you.

Open Source

Android (9.0.0)

This tv contains the Android Pie Software. Android is a Linux-based operating system designed primarily for touchscreen mobile devices such as smartphones and tablet computers. This software will also be reused in TPVision Android based TV's. The original download site for this software is : <https://android.googlesource.com/> This piece of software is made available under the terms and conditions of the Apache license version 2, which can be found below. Android APACHE License Version 2 (<http://source.android.com/source/licenses.html>) This includes all external sources used by official Android AOSP.

linux kernel (4.9)

This tv contains the Linux Kernel. The original download site for this software is : <http://www.kernel.org/>. This piece of software is made available under the terms and conditions of the GPL v2 license, which can be found below. Additionally, following exception applies : "NOTE! This copyright

does *not* cover user programs that use kernel services by normal system calls - this is merely considered normal use of the kernel, and does *not* fall under the heading of "derived work". Also note that the GPL below is copyrighted by the Free Software Foundation, but the instance of code that it refers to (the linux kernel) is copyrighted by me and others who actually wrote it. Also note that the only valid version of the GPL as far as the kernel is concerned is `_this_` particular version of the license (ie v2, not v2.2 or v3.x or whatever), unless explicitly otherwise stated. Linus Torvalds"

mbed TLS (2.6.0)

Cryptographic and SSL/TLS capabilities used in Hue Streaming feature. The original download site for this software is : <https://tls.mbed.org/> . This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

aacenc (3.3.3)

Encoder AAC Bitstream. The original download site for this software is : <http://c-ares.haxx.se/> . This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

alsa (1.0.24.1)

Advanced Linux Sound Architecture (ALSA). The original download site for this software is : <http://www.alsa-project.org> . This piece of software is made available under the terms and conditions of the LGPL 2.0.1, which can be found below.

appweb (4.3.5)

The original download site for this software is : <http://www.appwebserver.org/> . This piece of software is made available under the terms and conditions of the GPL 2.0, which can be found below.

atf (1.3)

Arm-Trusted-Firmware. The original download site for this software is : <https://github.com/ARM-software/arm-trusted-firmware> . This piece of software is made available under the terms and conditions of the BSD, which can be found below.

bash (3.2.48)

The shell, or command language interpreter. The original download site for this software is : <http://www.gnu.org/software/bash/> . This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

bluetooth_mw (1.0)

BT Stack. The original download site for this software is : <https://android.googlesource.com/platform/system/bt> . This piece of software is made available under

the terms and conditions of the Apache 2.0 license, which can be found below.

bluetooth_stack (1.0)

BT Stack. The original download site for this software is : <https://android.googlesource.com/platform/system/bt> .This piece of software is made available under the terms and conditions of the Apache 2.0 license, which can be found below.

bluetooth_tool (1.0)

BT Stack. The original download site for this software is : <https://android.googlesource.com/platform/system/bt> .This piece of software is made available under the terms and conditions of the Apache 2.0 license, which can be found below.

boost (1.15.0)

Mainly use for encfs. The original download site for this software is : <http://www.boost.org/> .This piece of software is made available under the terms and conditions of the Boost Software License - Version 1.0, which can be found below.

busybox (1.15.3)

BusyBox combines tiny versions of many common UNIX utilities into a single small executable. The original download site for this software is : <http://www.busybox.net/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

c-ares (1.12.0)

c-ares is a C library that performs DNS requests and name resolves asynchronously. The original download site for this software is : <http://c-ares.haxx.se/> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

cJSON (1.7.7)

The original download site for this software is : <http://sourceforge.net/projects/cjson> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

coreutils (6.9)

Command like cp dd cat chroot. The original download site for this software is : <http://www.gnu.org/software/coreutils/> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

libcurl (7.59.0)

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. libcurl supports SSL certificates, HTTP POST, HTTP PUT, FTP uploading, HTTP form based upload, proxies, cookies, user+password authentication (Basic, Digest, NTLM, Negotiate, Kerberos), file transfer resume, http proxy tunneling and more!The original download site for this software is : <http://curl.haxx.se/libcurl/COPYRIGHT> AND PERMISSION NOTICECopyright (c) 1996 - 2010, Daniel Stenberg, daniel@haxx.se.All rights reserved.Permission to use, copy, modify, and distribute this software for any purposewith or without fee is hereby granted, provided that the above copyrightnotice and this permission notice appear in all copies.THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. INNO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

dfb (1.5.3)

The original download site for this software is : <http://www.directfb.org> .This piece of software is made available under the terms and conditions of the LGPL 2.0 license, which can be found below.

dibbler (1.0.1)

Dibbler is for implement dhcpv6 client. The original download site for this software is : <http://klub.com.pl/dhcpv6/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

dosfstools (2.9)

Create an MS-DOS file system under Linux. The original download site for this software is : <http://daniel-baumann.ch/files/software/dosfstools> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

e2fsprogs (1.41.14)

The original download site for this software is : <http://e2fsprogs.sourceforge.net> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

electric-fence (2.1.13)

Used for memory corruption detection. The original download site for this software is : http://perens.com/FreeSoftware/ElectricFence/electric-fence_2.1.13-0.1.tar.gz .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

encfs (1.3.2)

Use to encrypt file or dir. The original download site for this software is : <http://www.arg0.net/encfs> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

expat (2.1.0)

Xml parser; Expat is an XML parser library written in C. It is a stream-oriented parser in which an application registers handlers for things the parser might find in the XML document (like start tags). An introductory article on using .The original download site for this software is : <http://expat.sourceforge.net/> .

findutils (4.2.31)

The original download site for this software is : <http://www.gnu.org/software/findutils/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

freetype (2.7.1)

FreeType 2 is a software font engine that is designed to be small, efficient, highly customizable, and portable while capable of producing high-quality output (glyph images). The original download site for this software is : <http://freetype.sourceforge.net> .

fuse (2.8.4)

Fuse is a simple interface for userspace programs to export a virtual filesystem to the linux kernel. The original download site for this software is : <http://sourceforge.net/projects/fuse> .This piece of software is made available under the terms and conditions of the GPL 2.0/LGPLv2 license, which can be found below.

fusion (8.7.0)

The original download site for this software is : <https://www.openhub.net/p/linuxfusion> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

gawk (3.1.5)

The original download site for this software is : <http://www.gnu.org/software/gawk/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

gdisk (0.8.1)

The original download site for this software is : <http://www.rodsbooks.com/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

glibc (2.18)

The original download site for this software is : <http://www.gnu.org/software/libc> .This piece of software is made available under the terms and conditions of the LGPL 2.0.1 license, which can be found below.

googletest (1.7.0)

The original download site for this software is : <https://github.com/google/googletest> .This piece of software is made available under the terms and conditions of the BSD-3 license, which can be found below.

grep (2.5.1a)

The original download site for this software is : <http://www.gnu.org/software/grep/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

gzip (1.3.12)

The original download site for this software is : <http://www.gnu.org/software/gzip/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

harfbuzz (1.4.2)

Libpng, a text shaping library. The original download site for this software is : <http://harfbuzz.org/> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

icu (51.1)

ICU is a mature, widely used set of C/C++ and Java libraries providing Unicode and Globalization support for software applications. The original download site for this software is : <http://site.icu-project.org> .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

inetutils (1.4.2)

The original download site for this software is : <http://www.gnu.org/software/inetutils/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

iptables (1.4.15)

Iptables is a user space application program that allows a system administrator to configure the tables provided by the Linux kernel firewall (implemented as

different Netfilter modules) and the chains and rules it stores. Different kernel modules and programs are currently used for different protocols; iptables applies to IPv4. The original download site for this software is : <https://android.googlesource.com/> .This piece of software is made available under the terms and conditions of the GPL 2.0.

iputils (s20101006)

Set of small useful utilities for Linux networking. The original download site for this software is : <http://www.skbuff.net/iputils/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

jansson (2.4)

set of small useful utilities for Linux networking. The original download site for this software is : <http://www.digip.org/jansson/> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

jpeg (6b)

The 'libjpeg' library used for jpeg image decode. The original download site for this software is : <http://www.ijg.org/> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

jsonrpc (2.0)

Jsonrpc implements the parsing and validation of the jsonrpc/2.0 request before handing it over to user-defined methods. The original download site for this software is : <https://github.com/pijyoi/jsonrpc> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

libdwarf

Libdwarf is a library and a set of command-line tools for reading and writing DWARF2 and later debugging information. Libdwarf handles the details of the actual format so coders can focus on the content. The original download site for this software is : <https://sourceforge.net/projects/libdwarf/> .This piece of software is made available under the terms and conditions of the LGPL v2.1 license, which can be found below.

libelf (0.8.1.3)

The original download site for this software is : <http://www.mr511.de/software/> .This piece of software is made available under the terms and conditions of the LGPL v2 license, which can be found below.

libiconv (1.11.1)

GNU libiconv is a conversion library. To convert between a given text encoding and the users encoding, or to convert between internal string

representation (Unicode) and external string representation (a traditional encoding). The original download site for this software is : <http://www.gnu.org/software/libiconv> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

libnl (v3.2.29)

The original download site for this software is : <http://www.infradead.org/~tgr/libnl/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

libusb (1.0.9)

The original download site for this software is : <http://libusb.sourceforge.net/> .This piece of software is made available under the terms and conditions of the LGPLv2.1 license, which can be found below.

libuv (libuv-v1.20.3)

The original download site for this software is : <https://libuv.org> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

libwebsockets (3.0)

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libxml2 (2.7.8)

Libxml2 is the XML C parser and toolkit developed for the Gnome project. The original download site for this software is : <http://www.xmlsoft.org/> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

lighttpd (1.4.35)

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liveMedia (2011.06.12)

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lvm2 (2.02.89)

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lz4 (1.8.1.2)

The original download site for this software is : lz4.github.io/lz4/ .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

lzma (4.65)

The original download site for this software is : <http://www.7-zip.org/sdk.html/> .

mng (1.0.10)

Libmng -THE reference library for reading, displaying, writing and examining Multiple-Image Network Graphics.MNG is the animation extension to the popular PNG image-format. The original download site for this software is :

<http://sourceforge.net/projects/libmng/files/> .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

module-init-tools (3.12)

Linux userspace module loading utilities. The original download site for this software is : https://modules.wiki.kernel.org/index.php/Main_Page .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

mtp (1.1.6)

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ncurses (5.7)

Provide character terminal processing library. The original download site for this software is : <http://www.gnu.org/software/ncurses/> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

net-tools (1.60)

A program contains network command. The original download site for this software is : <http://www.linuxfromscratch.org/blfs/view/6.3/basicnet/net-tools.html> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

nghttp2 (1.21.1)

nghttp2 is an implementation of Hypertext Transfer Protocol version 2 in C. The original download site for this software is : <http://nghttp2.org> .This piece of software is made available under the terms and conditions of the MIT license, which can be found below.

ntfs-3g (2010.5.22)

ntfs-3g-1.5012.tgz/ntfs-3g-1.5012/libntfs-3g/attrib.c. The original download site for this software is : <http://www.tuxera.com/community/ntfs-3g-download/> .This piece of software is made available under the terms and conditions of the GPL 2.0/LGPLv2 license, which can be found below.

ntfsprogs (2.0.0)

C runtime library. The original download site for this software is : <http://sourceforge.net/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

ogg (1.3.2)

Libogg: a library for audiomixer, that can provide audio mixer. The original download site for this software is : <http://www.vorbis.com> .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

openh264 (1.7.0)

Openh264 is a codec library which supports H.264 encoding and decoding. It is suitable for use in real time applications such as WebRTC. The original download site for this software is :<http://www.openh264.org> .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

openssh (6.3p1)

Openssh is secure shell protocol version. The original download site for this software is : <ftp://ftp.openbsd.org/pub/OpenBSD/OpenSSH/portable/openssh-6.3p1.tar.gz> .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

openssl (1.0.2g)

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png (1.2.43)

libpng -THE reference library for reading, displaying, writing and examining png Image Network Graphics. The original download site for this software is : <http://sourceforge.net/projects/libpng/files/> .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

popt (1.16)

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procmem (2.0)

The original download site for this software is : https://github.com/babuneelam/procmem_linux_x86_port .This piece of software is made available under the terms and conditions of the Apple Public Source License.

procps (3.2.8)

Command for watch system process. The original download site for this software is : <http://procps.sourceforge.net/index.html> .This piece of software is made available under the terms and conditions of the LGPLv2 license, which can be found below.

procrank (2.0)

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psmisc (22.13)

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pugixml (1.8)

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python (2.7.9)

The original download site for this software is : <http://www.python.org/> .

qrencode (3.4.2)

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rlog (1.4)

The original download site for this software is : <http://www.arg0.net/rlog> .This piece of software is made available under the terms and conditions of the GPL 2.1 license, which can be found below.

rng-tools (5)

The original download site for this software is : <http://sourceforge.net/projects/gkernel/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

samba (3.0.37)

Samba is the standard Windows interoperability suite

of programs for Linux and Unix. The original

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sawman (1.5.3)

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sed (4.1.5)

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simple-mtpfs (0.2)

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sqlite (3.8.4.3)

Implements a self-contained, serverless, zero-configuration, transactional SQL database engine. The original download site for this software is : <http://www.sqlite.org/> . This piece of software is made available under the terms and conditions of the LGPLv2.1 license, which can be found below.

sqlite3 (3.7.2)

Implements a self-contained, serverless, zero-configuration, transactional SQL database engine. The original download site for this software is : <http://www.sqlite.org/> . This piece of software is made available under the terms and conditions of the LGPLv2.1 license, which can be found below.

tar (1.17)

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thttpd (2.25b)

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toybox (0.4.0)

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ttxfont (1.0)

The original download site for this software is : <http://linux.bytesex.org/xawtv/tvfonts/html> <Http://zapping.sourceforge.net/ZVBI/index.html> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

uboot (2011.12)

The uboot will load the linux kernel to dram, and jump to run . The original download site for this software is : <http://www.denx.de> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

udhcp (0.9.9-pre)

Terminal device as a DHCP client. The original download site for this software is : <http://udhcp.sourceforge.com/downloads/0.9.8cvs20050303-3/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

unicode (3.2)

The original download site for this software is : <http://www.icu-project.org/> .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

uriparser (0.7.7)

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util-linux-ng (2.18)

util-linux is a random collection of Linux utilities. The original download site for this software is : <http://userweb.kernel.org/~kzak/util-linux-ng/> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

webp (0.2.1)

libwebp: a library for browser, that can improve the performance of downloading image webp.txt's directory http://teams.mediatek.com/dtv/SSD/SS3/Task%20Forces/Forms/AllItems.aspx?RootFolder=%2fdtv%2fSSD%2fSS3%2fTask%20Forces%2f3rd%20party%20list%2fLicense_Texts&FolderCTID=&View=%7b4DF37793-E07B-481C-BBFC-CD139C18D384%7d .The original download site for this software is : <http://code.google.com/p/webp/> .This piece of software is made available under the terms and conditions of the BSD license, which can be found below.

wget (1.10.2)

Check network for http/https .The original download site for this software is : <http://ftp.gnu.org/gnu/wget/wget-1.10.2.tar.gz> .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

wireless_tools (v29)

The original download site for this software is : http://www.hpl.hp.com/personal/Jean_Tourrilhes/Linux/Tols.html .This piece of software is made available under the terms and conditions of the GPL 2.0 license, which can be found below.

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

Library used by legacy HAL to talk to wpa_supplicant daemon.The original download site for this software is : https://w1.fi/wpa_supplicant/ .This piece of software is made available under the terms and conditions of the LGPLv2.1 license, which can be found below.

xerces (3.1.1)

C runtime library. The original download site for this software is : <http://xerces.apache.org/> .This piece of software is made available under the terms and conditions of the Apache License Version 2.0, which can be found below.

zlib(1.2.3)

The 'zlib' compression library provides in-memory compression and decompression functions, including integrity checks of the uncompressed data. The original download site for this software is : <http://www.zlib.net/> .

Hue SDK (1.8.1)

TV ambihue app uses Philips SDK to find the hue bridge nameThe original download site for this software is : <https://developers.meethue.com/documentation/java-multi-platform-and-android-sdk>

Opera Web Browser (SDK 4.8.0)

This TV contains Opera Browser Software. Third-party licenses

WebKit

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WebKit
URL: <http://webkit.org/>

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Copyright FAQ
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competitors can't just drop the fonts as is into a font sale system and sell them as is. It seems fair that if Bitstream can't make money from the Bitstream Vera fonts, their competitors should not be able to do so either. You can sell the fonts as part of any software package, however.

2. I want to package these fonts separately for distribution and sale as part of a larger software package or system. Can I do so?

Yes. A RPM or Debian package is a "larger software package" to begin with, and you aren't selling them independently by themselves. See 1. above.

3. Are derivative works allowed?
Yes!

4. Can I change or add to the font(s)?
Yes, but you must change the name(s) of the font(s).

5. Under what terms are derivative works allowed?

You must change the name(s) of the fonts. This is to ensure the quality of the fonts, both to protect Bitstream and Gnome. We want to ensure that if an application has opened a font specifically of these names, it gets what it expects (though of course, using fontconfig, substitutions could still could have occurred during font opening). You must include the Bitstream copyright. Additional copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer,

happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

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libcurl
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libcurl - lib/krb5.c
URL: <https://github.com/bagder/curl/blob/master/lib/krb5.c>

/* GSSAPI/krb5 support for FTP - loosely based on old krb4.c

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libcurl - lib/security.c
URL: <https://github.com/bagder/curl/blob/master/lib/security.c>

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* use in Curl. His latest changes were done 2000-09-18.

*
* It has since been patched and modified a lot by Daniel Stenberg
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David M. Gay's floating point routines
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dynamic annotations
URL: <http://code.google.com/p/data-race-test/wiki/DynamicAnnotations>

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google-glog's symbolization library
 URL: <https://github.com/google/glog>

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dom-distiller-js

URL: <https://github.com/chromium/dom-distiller>

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URL: <https://github.com/cisco/libsrtsp>

```
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modp base64 decoder
URL: <https://github.com/client9/stringencoders>

```
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encoder/decoder
* Version 1.3 -- 17-Mar-2006
* http://modp.com/release/base64
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Mojo
URL: <https://github.com/domokit/mojo>

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mt19937ar
URL: <http://www.math.sci.hiroshima-u.ac.jp/m-mat/MT/MT2002/emt19937ar.html>

A C-program for MT19937, with initialization improved 2002/1/26.

Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using
`init_genrand(seed)`
or `init_by_array(init_key, key_length)`.

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Netscape Plugin Application Programming Interface (NPAPI)

URL: <http://mxr.mozilla.org/mozilla-central/source/modules/plugin/base/public/>

Version: MPL 1.1/GPL 2.0/LGPL 2.1

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Protocol Buffers
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Quick Color Management System
URL: <https://github.com/jrmuizel/qcms/tree/v4>

qcms
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re2 - an efficient, principled regular expression library
URL: <https://github.com/google/re2>

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sfntly
URL: <https://github.com/googlei18n/sfntly>

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Snappy: A fast compressor/decompressor

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Web Animations JS

URL: <https://github.com/web-animations/web-animations-js>

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x86inc
URL: <http://git.videolan.org/?p=x264.git;a=blob;f=common/x86/x86inc.asm>

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;
*****
;
*****
;
.* Copyright (C) 2005-2011 x264 project
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.* Authors: Loren Merritt <lorenm@u.washington.edu>
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*****
;

```

; This is a header file for the x264ASM assembly language, which uses ; NASM/YASM syntax combined with a large number of macros to provide easy

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; It also has various other useful features to simplify writing the kind of

; DSP functions that are most often used in x264.

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Send patches or ideas

; to x264-devel@videolan.org.

zlib

URL: <http://zlib.net/>

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.4, March 14th, 2010

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url_parse

URL: <http://mxr.mozilla.org/comm-central/source/mozilla/network/base/src/nsURLParsers.cpp>

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```
printf("%s",png_get_copyright(NULL));
```

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Glenn Randers-Pehrson
glennrp at users.sourceforge.net
February 25, 2010

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=====

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www.netflix.com

Help and Support

12.1

Troubleshooting

Picture

No picture / distorted picture

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

Sound but no picture

- Make sure that the picture settings are set correctly.

Poor antenna reception

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

Poor picture from a device

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

Picture does not fit the screen

Change to a different picture format.

Picture position is incorrect

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

Computer picture is not stable

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

Sound

No sound or poor sound quality

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

- Make sure that the sound settings are correctly set.
- Make sure that all cables are properly connected.
- Make sure that the volume is not muted or set to zero.
- Make sure that the TV audio output is connected to

the audio input on the Home Theatre System.

Sound should be heard from the HTS speakers.

- Some devices may require you to manually enable HDMI audio output. If HDMI audio is already enabled, but you still do not hear audio, try changing the digital audio format of the device to PCM (Pulse Code Modulation). Refer to the documentation accompanying your device for instructions.

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 recognize 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.

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

TV model number and serial number

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

⚠ Warning

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

Safety and Care

13.1

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.

No modify this equipment without authorization of the manufacturer.

Risk of Electric Shock or Fire

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

Risk of Injury or Damage to the TV

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

Risk of damage to the TV !

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

Stability Hazards

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

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

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

Risk of batteries

- Do not ingest the battery. Chemical burn hazard.
- The remote control may contain a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
- Keep new and used batteries away from children.
- If the battery compartment does not close securely, stop using the product and keep it away from children.
- If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.
- Risk of fire or explosion if the battery is replaced by an incorrect type.

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

Risk of Overheating

Never install the TV in a confined space. Always leave a space of at least 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.

Terms of Use

14.1

Terms of Use – TV

2020 © 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 authorized in this manual, shall void the warranty.

Pixel characteristics

This TV product has a high number of color pixels. Although it has effective pixels of 99.999% or more,

black dots or bright points of light (red, green or blue) may appear constantly on the screen. This is a structural property of the display (within common industry standards) and is not a malfunction.


14.2

Terms of Use – Philips App Gallery

In Help, press the color key  **Keywords** and look up **Terms of Use, App Gallery** for more information.

14.3

Terms of Use – Philips TV Collection

In Help, press the color key  **Keywords** and look up **Terms of Use, Philips TV Collection** for more information.

14.4

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Supplier's Declaration of Conformity

Trade Name : PHILIPS

Responsible Party : Envision Peripherals Inc.

Model :

50BFL2114/27

58BFL2114/27

65BFL2114/27

70BFL2114/27

75BFL2114/27

Address : 490 N McCarthy Blvd. Suite #120

Milpitas, CA 95035

Telephone Number : 510-354-0898

14.5

Notice

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. It is the responsibilities of the user to correct such interference.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Operations in the 5GHz products are restricted to indoor usage only.

This equipment complies with FCC/ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

14.6

FCC Warning

Changes or modifications not expressly approved by the party responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

14.7

IC Statement

This device complies with Industry Canada license—exempt RSS standard(s).

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment.

14.8

Energy Star

ENERGY STAR is a program run by the U.S. Environmental Protection Agency (EPA) and U.S. Department of Energy (DOE) that promotes energy efficiency.

This product qualifies for ENERGY STAR in the "factory default" settings and this is the setting in which power savings will be achieved.

Changing the factory default picture settings or enabling other features will increase power consumption that could exceed the limits necessary to qualify for ENERGY STAR rating.

For more information on the ENERGY STAR program, refer to energystar.gov.



Copyrights

15.1

HDMI

HDMI

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15.2

Dolby Audio

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15.3

Microsoft

Windows Media

Windows Media is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.



Microsoft PlayReady

Content owners use Microsoft PlayReady™ content

access technology to protect their intellectual property, including copyrighted content.

This device uses PlayReady technology to access PlayReady-protected content and/or WMDRM-protected content. If the device fails to properly enforce restrictions on content usage, content owners may require Microsoft to revoke the device's ability to consume PlayReady-protected content. Revocation should not affect unprotected content or content protected by other content access technologies. Content owners may require you to upgrade PlayReady to access their content. If you decline an upgrade, you will not be able to access content that requires the upgrade.

15.4

Wi-Fi Alliance

Wi-Fi

The Wi-Fi CERTIFIED™ Logo is a registered trademark of Wi-Fi Alliance®



15.5

Kensington

Kensington

(If applicable)

Kensington and Micro Saver are registered US trademarks of ACCO World Corporation with issued registrations and pending applications in other countries throughout the world.



15.6

Other Trademarks

All other registered and unregistered trademarks are the property of their respective owners.

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