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series

User Manual

32PHD4503

PHILIPS

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Get Support

Identify and Register your TV

Identify your TV - TV model number and serial number

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

Register your TV

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

Go to www.philips.com/welcome

TV Help and User Manual

Press  SETUP > Help

In the Help menu, you can easily get software updates, reset TV to default settings, and read the user manual.

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

On-line Help and User Manual

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

Go to www.philips.com/TVsupport.

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

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

Go

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

TV Help on your tablet, smartphone or computer

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

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

Consumer Care / Repair

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

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

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

TV model number and serial number

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

Warning

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

Software

Update Software

Search for Updates

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

You need a computer and a USB memory device to upload the software on the TV. Use a USB memory device with 256MB free space. Make sure that write protection is switched off.

1. Start the update on TV

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

2. Identify the TV

- Insert the USB memory into one of the USB connections of the TV.

Select **Start** and press **OK**. An identification file is written on the USB memory device.

3. Download the TV software

- Insert the USB memory into your computer.

- On the USB memory device, locate the file **update.htm** and double click it.

- Click on **Send ID**.

- Select your region

- If new software is available, download the .zip file.

After the download, unzip the file and copy the file **autorun.upg** onto the USB memory device.

Do not place this file in a folder.

4. Update the TV software

Insert the USB memory into the TV again. The update starts automatically.

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

Do not . . .

- use the remote control

- remove the USB memory device from the TV

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

Local Updates

For dealers and expert users...

🏠 (Home) > Settings > Update software > Local updates.

Software Version

To view the current TV software version...

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

Quick Guide

3.1

Remote Control

Batteries and Cleaning

Replace batteries

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

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

1. Slide the battery door in the direction shown by the arrow.

2. Replace the old batteries with 2 type AAA-R03-1.5V batteries. Make sure the + and - ends of the batteries line up correctly.

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

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

Cleaning

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

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

Key Overview

Top



1. **Power / On**
To switch the TV on or back to Standby.
2. **Playback keys**
- Play ►, to playback

- Pause ⏸, to pause playback
- Stop ■, to stop playback
- Rewind ◀◀, to rewind
- Fast forward ▶▶, to go fast forward

3. **TV GUIDE**

To open or close the TV Guide.

4. **USB**

To access USB storage device.

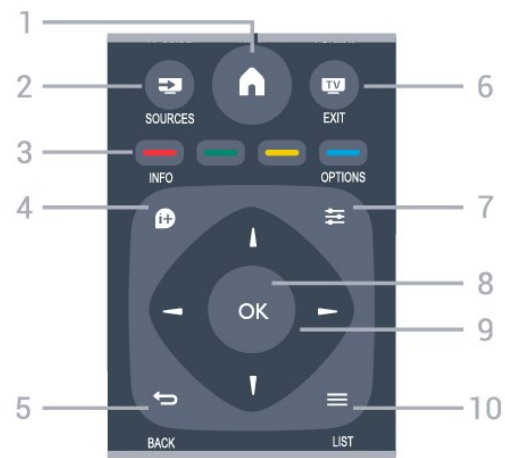
5. **FORMAT**

To open or close the Picture format menu.

6. **SETUP**

To open the Settings menu.

Middle



1. **HOME**

To open or close the home menu.

2. **SOURCES**

To open or close the Sources menu - the list of connected devices.

3. **Color keys**

The buttons function follow the on-screen instructions.

4. **INFO**

To open or close program information.

5. **BACK**

To switch back to the previous channel you selected.
To close a menu without changing a setting.

6. **EXIT**

To switch back to watching TV.

7. **OPTIONS**

To open or close the Options menu.

8. **OK key**

To confirm a selection or setting.

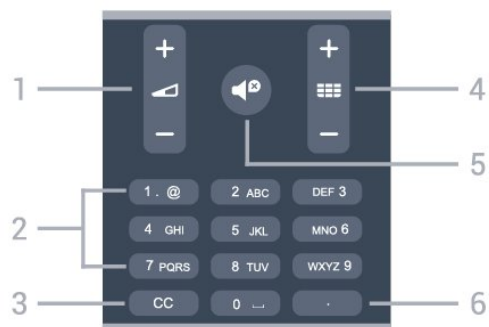
9. **Arrow / navigation keys**

To navigate up, down, left or right.

10. **LIST**

To open or close the channel list.

Bottom



1. Volume

To adjust the volume level.

2. Number keys

To select a TV channel directly.

3. CC (Closed captions)

To switch Closed captions on, off or On during mute.

4. Channel

To switch to the next or previous channel in the channel list. To start the next or previous chapter on a disc.

5. Mute

To mute the sound or to restore it.

6. (Dot)

To enter digital sub-channels.



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

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

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

The menu will disappear automatically.

3.2

IR sensor

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

Warning

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

3.3

Joystick - Local Control

Keys on TV

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

To open the basic menu...

Setting Up

4.1

Read Safety

Read the safety instructions first before you use the TV.

To read the instructions, in **User manual**, see chapter **Safety and Care**.

4.2

TV Placement

Tips on Placement

- Position the TV where light does not shine directly on the screen.
- Position the TV up to 6 inches away from the wall.
- The ideal distance to watch TV is 3 times its diagonal screen size. When seated, your eyes should be level with the center of the screen.



TV Stand

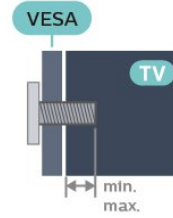
You can find the instructions for mounting the TV stand in the Quick Start Guide that came with the TV. In case you lost this guide, you can download it from www.philips.com.

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

Wall Mounting

5503 series TV

Your TV is also prepared for a VESA-compliant wall mount bracket (sold separately). Use the following VESA code when purchasing the wall mount . . .



- 43PFD5503 - VESA MIS-F 200x100, M6 (Minimum 9 mm, Maximum 11 mm)

Preparation

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

Caution

Wall mounting the TV requires special skills and should only be performed by qualified personnel. The TV wall mounting should meet safety standards according to the TV's weight. Also read the safety precautions before positioning the TV. TP Vision Europe B.V. bears no responsibility for improper mounting or any mounting that results in accident or injury.

4503 series TV

Your TV is also prepared for a VESA-compliant wall mount bracket (sold separately). Use the following VESA code when purchasing the wall mount . . .



- 32PHD4503 - VESA MIS-F 100, M4 (Minimum 10mm, Maximum 14 mm)

Preparation

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

Caution

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

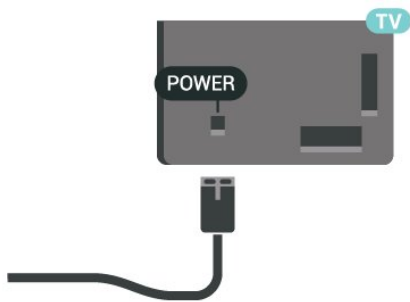
TP Vision Europe B.V. bears no responsibility for improper mounting or any mounting that results in accident or injury.

4.3

Turn on TV

Connect Power Cable

- Insert the power cable into the **POWER** connector on the back of the TV.
- Make sure the power cable is securely inserted in the connector.
- Make sure that the power plug in the wall outlet 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.


Switch On or Standby

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

Switch On

Press the power button on the side or the back of the TV.

Switch to standby

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

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

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

Connections

5.1

Connectivity guide

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

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

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

5.2

Antenna

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

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

5.3

Video Device

HDMI

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).

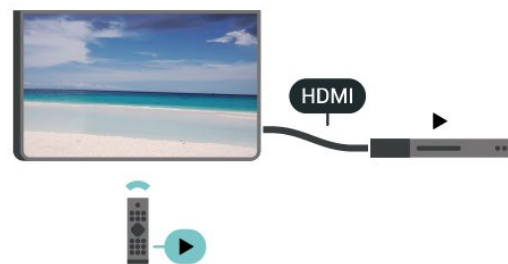
HDMI – DVI

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

Use **HDMI** connection and add an Audio L/R cable to Audio In for sound, on the back of the TV.

HDMI-CEC Connection – EasyLink

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



Switch on EasyLink

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

Operate HDMI CEC-compatible devices with TV remote control

🏠 (Home) > **Settings** > **General settings** > **EasyLink** > **EasyLink remote control** > **On**

Note:

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

Audio Device

HDMI ARC

Only **HDMI 2** on the TV has **HDMI ARC** (Audio Return Channel).


If the device, typically a Home Theater System (HTS), also has the HDMI ARC connection, connect it to **HDMI 2 ARC** connection on this TV. With the HDMI ARC connection, you do not need to connect the extra audio cable that sends the sound of the TV picture to the HTS. The HDMI ARC connection combines both signals.

Digital Audio Out - Optical

Audio Out - Optical is a high quality sound connection.

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

Headphones

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

Computer

HDMI - DVI

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

Use a DVI to HDMI adapter if your device only has a DVI connection. Use **HDMI** connection and add an Audio L/R cable for sound on the back of the TV.

Ideal Settings

 (Home) > Settings > Picture > Advanced > Computer

Set to **On** to have the ideal picture settings for using your TV as a computer monitor.


* Only available for HDMI sources.

USB Device

USB Flash Drive

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

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

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

USB Hard Drive

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

Minimum Disk Space

- To pause a broadcast, you need a USB compatible Hard Drive with a minimum of 4GB disk space.
- To pause and record a broadcast, you need a minimum of 32GB disk space.

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

To Pause

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

To Record

To pause and record a broadcast, you need a minimum of 32GB of disk space.

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

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

Follow the instructions on screen.

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






Warning

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

Switch Source

6.1









Source List

- To open the sources menu, press  SOURCES .
- To switch to a connected device, select the device with the arrows  (up) or  (down) and press .
- To close the Source menu without switching to a device, press  SOURCES again.

6.2

Rename Device

- Only HDMI and AV IN sources can be renamed or replace a device icon

1. Press  SOURCES , and select HDMI or AV IN (if available).
2. Press  Edit and press .
3. Select one of the device icons and press , the preset name appears in the typing field.
4. Select **Rename**, then enter new name using on-screen keyboard.
 - Press  (red) key to enter with lower-case
 - Press  (green) key to enter with upper-case
 - Press  (yellow) key to enter number and symbol
 - Press  (blue) key to delete a character
5. Select **Done** when finished editing.

Channels

7.1

About Channels and Switch Channels

To watch TV channels

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

To switch to a channel from a 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 channels, press **LIST** again.

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).

7.2

Install Channel

Antenna and Cable

Search for Channels

Update existing channel list

(Home) > Settings > Antenna/cable installation > Search for channels > Update channels

Reinstall all channels

(Home) > Settings > Antenna/cable installation > Search for channels

1. Select **Reinstall channels** and press **OK**.
2. Select **Start** and press **OK** to update channels. This can take a few minutes.

Service Navigation

(Home) > Settings > Antenna/cable installation > Service Navigation

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

- If the Service navigation is set to **Off**, you can only browse the primary channels using channel + and -.

Digital: Reception Test

(Home) > Settings > Antenna/cable installation > Digital: Reception test

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

Alternatively, select frequency and check. To check the frequency, select **Search** and press **OK**.

Antenna Connection

(Home) > Settings > Antenna/cable installation > Antenna Connection

1. Select **Antenna** or **Cable**, and press **OK**.
2. Press (left) and select **Search for channels > Update channels**.
3. Select **Start** and press **OK**. This can take a few minutes.

Channel List Copy

Introduction

Channel list copy is intended for dealers and expert users.

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

Conditions

- Both TVs are from the same year range. Check the TV model name with the last number. (For example: xxPxx4xx3, 3 stands for 2018 product)

- Both TVs have compatible software versions.

Copy a Channel List, Check Channel List Version

To copy a channel list...

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

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

Check the current version of the channel list...

1. Press **⬆** (Home) > **Settings** > **General settings** > **Channel list copy**.
2. Select **Channel list copy** and select **Current version**, then press **OK**.
3. Press **⬅** (left) repeatedly if necessary, to close the menu.

Upload a Channel List

To TVs that are not installed

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

To a TV that is not yet installed

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

To Installed TVs

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

To an already installed TV

1. Verify the country setting of the TV. (To verify this setting, see chapter **Re-install channels**. Start this procedure until you reach the country setting. Press **⬅** **BACK** to cancel the installation.) If the country is correct continue with step 2. If the country is not correct, you need to start a reinstallation. See chapter **Re-install channels** and start the installation. Select the correct country and skip the channels search. Finish the installation. When done, continue with step 2.

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

3. To start the channel list upload, press **⬆** (Home) > **Settings** > **General settings** > **Channel list copy** > **Copy to TV** and press **OK**. Enter your PIN code if necessary.

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

Channel Options

Open Options

While watching a channel, you can set some options.

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

To open the options menu...

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

Closed Caption

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

Caption Service

Select the correct type of closed-caption services.

Alternate Audio

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

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

Audio Language

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

DTV Application

Display the list of Digital TV interactive applications.

Status

Select **Status** to view technical information on the channel.

Clock

Display time on the corner of the TV screen.

7.3

Channel List

Open 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.

Channel List Options

Open Option Menu

To open the channel list option menu...

1. Press **TV**, to switch to TV.
2. Press **≡ LIST** to open the current channel list.
3. Press **≡ OPTIONS**, and select one of options.
4. Press **≡ LIST** again to close the channel list.

Rename Channel

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

- Press **■** (red) key to enter with lower-case
 - Press **■** (green) key to enter with upper-case
 - Press **■** (yellow) key to enter number and symbol
 - Press **■** (blue) key to delete a character
7. Select **Done** when complete the editing.
 8. Press **≡ LIST** again to close the channel list.

Create or Edit Favorites Channel List

≡ LIST > **≡ OPTIONS** > **Create favourites list**

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

≡ LIST > **≡ OPTIONS** > **Edit favorites**

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

Select Channel Range

≡ LIST > **≡ OPTIONS** > **Select channel range**

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

Select Channel List

≡ LIST > **≡ OPTIONS** > **Select channel list**

Select one channel list you want to watch and press **OK**.

Lock, Unlock Channel

≡ LIST > **≡ OPTIONS** > **Lock channel, Unlock channel**

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

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

Search Channels

≡ LIST > **≡ OPTIONS** > **Search channel**

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

1. Press **TV**, to switch to TV.
2. Press **≡ LIST** to open the current channel list.
3. Press **≡ OPTIONS** > **Search channel**, and

press **OK**.

In the typing field, press **OK** to open on-screen keyboard, or press **↩ BACK** to hide the on-screen keyboard.

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

- Press **■** (red) key to enter with lower-case
- Press **■** (green) key to enter with upper-case
- Press **■** (yellow) key to enter number and symbol
- Press **■** (blue) key to delete a character

4. Select **Done** when finished editing.

5. Press **≡ LIST** again to close the channel list.

7.4

Select Channel Filter

≡ LIST > **≡ OPTIONS** > Select channel filter

Select one of channel combinations showing in the channel list.

7.5

Favorite Channels

About favorite Channels

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

Create a favorites List

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

Remove Channel from the Favorites List

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

7.6

Closed Caption (CC) and Language

Closed Caption

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

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

Note:

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

Switch on closed caption

1. While you watch TV, press **≡ OPTIONS**.
2. Select **Closed Caption** > **On** and press **OK**.

- **On:** Closed captioning is always on.
- **Off:** Closed captioning is always off.
- **On during mute:** Closed captioning is on only when the sound is muted with **⏸**.

Note:

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

Select type of closed caption

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

Audio Language

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

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


Note:

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

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

Menu Language


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

1. Press , select **All settings > Region and Language > Languages** and press **OK**.
2. Select on the language you need and press **OK**.
3. Press **◀** (left) repeatedly if necessary, to close the menu.

7.7

Ginga

You can set Ginga to On or Off.

1. Press , select **All settings > General settings > Ginga** and press **OK**.
2. Select **On** or **Off**.

TV guide

8.1

What You Need

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

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

8.2

Using the TV Guide

Open the TV Guide

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

Press **TV GUIDE** again to close.

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

Tune to a Program

Switch to a program

From the TV guide, you can switch to a current program.

To select a program, use the arrow keys to highlight the program name.

Navigate to the right to view programs scheduled later that day.

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

View program details

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

Change Day

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

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

Set a Reminder

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

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

To set a reminder...

1. Press **TV GUIDE** and select an upcoming program.
2. Press **Set reminder**.

To clear a reminder...

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

Search by Genre

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

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

List of Reminders

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


List of Reminders



To open the list of reminders...

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



Set a Recording

You can set a recording in the TV Guide.



In the TV Guide, a program set to be recorded is marked with .

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

To record a program...

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

To cancel a recording...

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

Recording and Pause TV

What You Need

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

Minimum Disk Space

- To pause a broadcast, you need a USB compatible Hard Drive with a minimum of 4GB disk space.
- To pause and record a broadcast, you need a minimum of 32GB disk space.

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

To Pause

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

To Record

To pause and record a broadcast, you need a minimum of 32GB of disk space.

1. Connect the USB Hard Drive to one of the **USB** connections on the TV. Do not connect another USB device to the other USB ports when formatting.
2. Switch on the USB Hard Drive and the TV.
3. When the TV is tuned to a digital TV channel, press **II** (Pause). Trying to pause will start the formatting.

Follow the instructions on screen.

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

Warning

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

Recording

What You Need

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

To record a TV program you need...

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

You cannot record when you are using Pause TV.

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

Record a Program

Record Now

To record the program you are watching right now, follow the on-screen instructions.

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

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

Schedule a Recording

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

To record a program...

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

record a program in your absence, remember to leave the TV switched to Standby and the USB Hard Drive switched on.

List of Recordings

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

To open the list of recordings...

1. Press **TV GUIDE**.
2. Press the color key **Recordings**.
3. With a recording selected in the list, you can remove the recording with the color key **Remove**. You can rename a recording with the color key **Rename**. Or you can press the color key **Adjust time** to change the recording start time and end time.

Watch a Recording

To watch a recording...

1. Press **TV GUIDE**.
2. Press the color key **Recordings**.
3. In the list of recordings, select the recording you need and press **OK** to start watching.
4. You can use the keys **Pause**, **Play**, **Rewind**, **Fast Forward** or **Stop**.
5. To switch back to watch TV, press **TV EXIT**.

9.3

Pause TV

What You Need

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

To pause a TV program you need...

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

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

You cannot use Pause TV when you are recording.

Pause a Program

To pause and resume a broadcast...

To pause a broadcast, press **Pause**. A progress bar at the bottom of the screen appears briefly.

To call up the progress bar, press **Pause** again.

To resume watching, press **Play**.

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

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

To switch back to the live TV broadcast, press **Stop**.

Replay

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

To replay a current broadcast...

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

Videos, Photos and Music

From a USB Connection

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

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

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

Warning

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

Photos

View Photos

Open photo folder

1. Press **SOURCES**, select **USB** and press **OK**.
2. Select **USB Flash Drive** and press **➤** (right) to select the USB device you need.
3. Select **Photos**, you can press **List** to have list view or press again **Thumbnails** for thumbnail view.

View a photo file

1. Press **SOURCES**, select **USB** and press **OK**.
2. Select **USB Flash Drive** and press **➤** (right) to select the USB device you need.
3. Select **Photos** and select one of photos, you can press **OK** to view the selected photo.

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.

Videos

Play Videos

To play a video on the TV...

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

- To pause the video, press **OK**. Press **OK** again to continue.
- To rewind or go fast forward, press **⏮** or **⏭**. Press the keys several times to speed up - 2x, 4x, 8x, 16x, 32x.
- To jump to the next or previous video in a folder, press **⏪** + or **⏩** -.
- To stop the video playback, press **■** (Stop).
- To go back to the folder, press **⏪**.

Open video folder

1. Press **SOURCES**, select **USB** and press **OK**.
2. Select **USB Flash Drive** and press **➤** (right) to select the USB device you need.
3. Select **Videos**, you can press **List** to have list view or press again **Thumbnails** for thumbnail view.

Play a video file

1. Press **SOURCES**, select **USB** and press **OK**.
2. Select **USB Flash Drive** and press **➤** (right) to select the USB device you need.
3. Select **Videos** and select one of video, you can press **OK** to play the selected video or press **▶** **Play all** to play all video files in the video

folder.

Video Options

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

Subtitles

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

Subtitle language

Play the subtitle language if available.

Audio language

Play the audio language if available.

Shuffle on, Shuffle off

Play videos in sequence or at random.

Repeat, Play once

Play videos repeatedly or once.

Show info

Display file information, like sound mode.

Subtitle settings




Set subtitle color, font size, position, time sync offset if available.

10.4





Music

Play Music

Open music folder

1. Press  **SOURCES**, select  **USB** and press **OK**.
2. Select  **USB Flash Drive** and press **>** (right) to select the USB device you need.
3. Select **Music**, you can see music files in list.

Play a music file

1. Press  **SOURCES**, select  **USB** and press **OK**.
2. Select  **USB Flash Drive** and press **>** (right) to select the USB device you need.
3. Select **Music** and select one of music, you can press **OK** to play the selected music or press  **Play all** to play all music files in the music folder.

Music Options

Options for playing music...

Repeat, Play once

Play songs repeatedly or once.

Shuffle on, Shuffle off

Play songs in sequence or at random.

Open TV Setting Menus

Home Menu Overview

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

Channels

This row contains all channels.

- Press **OK** to open TV guide.
- Press **➤** (right) to view channels with channel logos, or select **see all** to view all channels.

Sources

This row contains available sources on this TV.

Utilities

This row contains TV functions available to the user.

Settings

This row contains settings available to the user.

Utilities Menu

TV guide

Open TV guide. For more information, in **User manual**, see chapter **TV Guide**.

Recordings

For more information, in **User manual**, see chapter **Recording and Pause TV**.

Browse USB

View USB storage device.

Channels

View channel list.

Update software

For more information, in **User manual**, see chapter **Software**.

Demo Me

View Demo Me for demo on this TV.

Help

Use Help function to diagnose and get more information about your TV.

Quick Settings and All Settings

Quick settings menu:

Press **⚙** **SETUP** key on the remote control to find frequently used settings in Quick settings menu.

- **Picture style**: Select one of preset picture styles for ideal picture viewing.
- **Picture format**: Select one of preset picture format which fits the screen.
- **Sound style**: Select one of preset sound styles for ideal sound settings.
- **Headphone volume**: Adjust the volume of a connected headphone.
- **Audio out**: Set the TV to play the sound on TV or on the connected audio system.
- **Clock**: Display clock on the right-top corner TV screen.
- **Sleep timer**: Set the TV to switch to standby automatically after a preset time.
- **All settings**: View all settings menu.
- **Help**: Easily get software updated, reset TV to default settings, and read user manual.

All settings menu:

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

All Settings

Picture Settings

Picture Style

Select a style

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

⬆ (Home) > **Settings** > **Picture** > **Picture style**

The available Picture styles are ...

- **Personal** - The picture preferences you set during the first start up
- **Vivid** - Ideal for daylight viewing
- **Football** - Ideal for watching sports
- **Standard** - Most energy efficient setting

- **Movie** - Ideal for watching movies
- **Game** - Ideal for gaming

Customize a style

You can adjust and stored picture settings in in the currently selected picture style, like **Color**, **Contrast** or **Sharpness**.

Restore a style

To restore the style to its original setting, select back to **Picture style**, then press **Restore style**.

Color, Contrast, Sharpness, Brightness

Adjust the picture color

🏠 (Home) > **Settings** > **Picture** > **Color**

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

Adjust the picture contrast

🏠 (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

🏠 (Home) > **Settings** > **Picture** > **Sharpness**

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

Adjust the picture brightness

🏠 (Home) > **Settings** > **Picture** > **Brightness**

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

Advanced Picture Settings

Computer

🏠 (Home) > **Settings** > **Picture** > **Advanced** > **Computer**

Set to **On** to have the ideal picture settings for using your TV as a computer monitor.

* Only available for HDMI sources.

Color Settings

🏠 (Home) > **Settings** > **Picture** > **Advanced** > **Color**

Adjust the color enhancement

🏠 (Home) > **Settings** > **Picture** > **Advanced** > **Color** > **Color enhancement**

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

Select the preset color temperature

🏠 (Home) > **Settings** > **Picture** > **Advanced** > **Color** > **Color temperature**

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

Customize color temperature

🏠 (Home) > **Settings** > **Picture** > **Advanced** > **Color** > **Custom color temperature**

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

Contrast Settings

Contrast Modes

🏠 (Home) > **Settings** > **Picture** > **Advanced** > **Contrast** > **Contrast mode**

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

Dynamic Contrast

🏠 (Home) > **Settings** > **Picture** > **Advanced** > **Contrast** > **Dynamic contrast**

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

Video Contrast, Gamma

Video contrast

🏠 (Home) > Settings > Picture > Advanced > Contrast > Video contrast

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

Gamma

🏠 (Home) > Settings > Picture > Advanced > Contrast > Gamma

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

Super Resolution

🏠 (Home) > Settings > Picture > Advanced > Sharpness > Super Resolution

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

Picture Clean

🏠 (Home) > Settings > Picture > Advanced > Picture clean

Noise reduction

🏠 (Home) > Settings > Picture > Advanced > Picture clean > Noise reduction

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

MPEG Artifact Reduction

🏠 (Home) > Settings > Picture > Advanced > Picture clean > MPEG artifact reduction

Select **On**, to smoothen the digital transitions in the picture. MPEG artifacts are mostly visible as small blocks or jagged edges in on-screen images.

Format and Edges

🏠 (Home) > Settings > Picture > Format and edges

Picture format

🏠 (Home) > Settings > Picture > 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.

Screen Edges

🏠 (Home) > Settings > Picture > Format and edges > Picture format > Screen edges

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

Sound Settings

Sound Style

Select a style

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

🏠 (Home) > Settings > Sound > Sound style

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** - Ideal for speech

Customize a style

You can adjust and stored sound settings in the currently selected sound style, like **Bass** or **Treble**.

Restore a style

To restore the style to its original setting, select back to **Sound style**, then press **➡ Restore style**.

Bass, Treble

Bass

🏠 (Home) > Settings > Sound > Bass

Press the arrows **▲** (up) or **▼** (down) to adjust the level of low tones in the sound.

Treble

🏠 (Home) > Settings > Sound > Treble

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

color level of high tones in the sound.

Headphone Volume

🏠 (Home) > Settings > Sound > Headphone volume

Press the arrows ▲ (up) or ▼ (down) to adjust the volume of a connected headphone separately.

Surround Sound

🏠 (Home) > Settings > Sound > Surround Sound

Select the surround sound effect for the internal TV speakers.

TV Placement

🏠 (Home) > Settings > Sound > TV placement

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

Advanced Sound Settings

Volume Control

Auto volume leveling

🏠 (Home) > Settings > Sound > Advanced > Auto volume leveling

Select **On** to automatically level out sudden volume differences. Typically when you are switching channels.

Delta volume

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

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

Audio Out Settings

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

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

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

- If you select **TV speakers off**, you permanently switch off the TV speakers.
- If you select **TV speakers**, the TV speakers are

always on.

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.

Clear Sound

🏠 (Home) > Settings > Sound > Advanced > Clear sound

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

Digital Output Settings

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

Digital out format

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

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

- If you have a Home Theater System (HTS) with multichannel sound processing capabilities, set **Digital 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 Theater System.

- If you have a Home Theater System without multichannel sound processing, select **Stereo**.

Digital out leveling

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

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

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

Digital out delay

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

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

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

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

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

Eco Settings

Set energy saving level

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

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

Set screen off to save energy consumption

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

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

Set TV switch off timer

🏠 (Home) > Settings > Eco settings > Switch off timer.

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

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

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

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

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

General Settings

Connection Related Settings

USB Hard Drive

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

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

HDMI-CEC Connection - EasyLink

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

Switch on EasyLink

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

Operate HDMI CEC-compatible devices with TV remote control

🏠 (Home) > Settings > General settings > EasyLink > EasyLink remote control > On.

Note:

- EasyLink might not work with devices from other brands.

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

Location - Home or Shop

Select the location of your TV

🏠 (Home) > Settings > General settings > Location

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

Set the Shop setting

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

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

Reset TV Settings and Reinstall TV

Reset all settings value to original TV settings

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

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

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

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

Region and Language Settings

Languages

Change the language of the TV menu and messages

🏠 (Home) > Settings > Region and language > Languages > Menu language

Clock

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

Correct clock automatically

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

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

- If the clock is not correct, you can set the TV clock to Manual.

Correct clock manually

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

🏠 (Home) > Settings > Region and

language > Clock > Date, Time

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

Note:

- If none of the automatic settings display the time correctly, you can set the time manually.

Set time zone

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

Select one of the time zones.

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

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

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

Universal Access Settings

🏠 (Home) > Settings > Universal access

With Universal Access switched on, the TV is prepared for use for the blind or partially sighted people.

Switch on universal access settings

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

Universal access for blind or partially sighted people

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

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

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

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

- Set Audio effects to On for extra audio effects in

the commentary audio, like stereo or fading sound.

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

Lock Settings

Set Code and Change Code

Set new code or reset change code

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

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

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

Age Ratings

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

Set a minimum age to watch rated programs.

Content Ratings

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

Set a content rating that will lock rated programs.

Environmental

End of Use

Disposal of your old product and batteries

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



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



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

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

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



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

Specifications

13.1

Power

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

Power

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

13.2

Reception

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

13.3

Display Resolution

For 5503 series

Diagonal screen size

- 108 cm / 43 inch

Display resolution

- 1920x1080

For 4503 series

Diagonal screen size

- 80 cm / 32 inch

Display resolution

- 1366x768

Display Input Resolution

For PHD series TV

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 (among others)

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

For PFD series TV

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 (among others)

- 640 x 480p - 60 Hz
- 800 x 600p - 60 Hz
- 1024 x 768p - 60 Hz
- 1280 x 768p - 60 Hz
- 1360 x 768p - 60 Hz
- 1280 x 1024p - 60 Hz
- 1920 x 1080p - 60 Hz

13.5

Sound

- Output power (RMS) : 10W
- Dolby Audio
- DTS 2.0+ Digital out™

Multimedia

Supported USB file systems

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

Playback formats

Image Codec: JPEG, GIF, PNG, BMP

- Audio Codec: MP3, WAV, WMA (v2 up to v9.2), AC3, AAC, HE-AAC, DTS 2.0

- Video Codec: AVI, MKV, H.264/MPEG-4 AVC, MPEG1, MPEG2, MPEG4, WMV9/VC1, HEVC

- Subtitle: SRT, SMI, SSA, SUB, ASS, TXT

Connectivity

TV Side

- USB
- Headphones: Stereo 3.5mm mini-jack
- TV ANTENNA: 75 ohm coaxial

TV Bottom

- HDMI 1
- HDMI 2
- SPDIF: Digital Audio Out - RCA
- AV : AV, Audio L/R

Troubleshooting

14.1

Tips

If you can't find a solution for your TV problem in **Troubleshooting**, you can press **⚙️ SETUP > Help > User manual** to find the information you are looking for.

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

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

Go to www.philips.com/TVsupport.

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

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

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

TV Help on your tablet, smartphone or computer

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

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

14.2

Switch On

The TV does not switch on

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

- Connect the TV to another wall mains socket and try switching on.

- Disconnect all connected devices from the TV and try switching on.

- If the standby light on TV is on, the TV might not respond to the remote control.

Creaking sound at startup or switch off

When you are turning the TV on, 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.

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

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

The standby light keeps on blinking

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

TV switches off by itself

If the TV switches off suddenly, the setting **switch off timer** might be switched on. With **switch off timer** the TV switches off after 4 hours if no remote control signals were received. To avoid this automatic switch off, you can deactivate this switch off. Also, if the TV does not receive a TV signal nor a remote control command for 10 minutes, the TV switches off automatically.

14.3

Remote Control

TV does not respond to the remote control

The TV requires some time to start up. During this time, the TV does not respond to the remote control or TV controls. This is normal behavior.

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.

Channels

No digital channels found during the installation

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.

Picture

No picture / distorted picture

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

Sound but no picture

- Make sure that the picture settings are set correctly.

Poor antenna reception

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

Poor picture from a device

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

Picture settings change after a while

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

A commercial banner appears

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

Picture does not fit the screen

- Change to a different picture format.

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

HDMI

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, 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 behavior is normal.

USB

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.

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.

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

Risk of Injury or Damage to the TV

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

care to avoid injury or damage.

Risk of damage to the TV!

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

Risk of Injury to Children

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

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

Risk of swallowing batteries!

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

Risk of Overheating

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

Lightning Storms

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

Risk of Hearing Damage

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

Low Temperatures

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

Humidity

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

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

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 color fading, wipe off water drops as quickly as possible.

- Avoid stationary images as much as possible. Stationary images are images that remain on screen for extended periods of time. Stationary images include on screen menus, black bars, time displays, etc. If you must use stationary images, reduce screen contrast and brightness to avoid screen damage.

15.3

Terms of Use

2018 © TP Vision Europe B.V. All rights reserved.

This product was brought to the market by TP Vision Europe B.V. or one of its affiliates, hereinafter referred to as TP Vision, which is the manufacturer of the product. TP Vision is the warranter 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.

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to adjust earlier supplies accordingly.

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

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

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

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

Pixel characteristics

This LCD/LED 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.

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 safety standards, enabling TP Vision to anticipate further developments in standardization for early integration in its products.

Copyrights

16.1

HDMI

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



16.2

Dolby Audio

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



16.3

DTS 2.0 + Digital Out™

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16.4

Other Trademarks

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

Open Source

17.1

Open Source Software

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

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

17.2

Open Source License

About Open Source License

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

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

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Open Source

uboot loader

Source: <http://www.denx.de/wiki/U-Boot>

busybox (v1.23.2)

BusyBox combines tiny versions of many common UNIX utilities into a single small executable. It provides replacements for most of the utilities you usually find in GNU fileutils, shellutils, etc. The utilities in BusyBox generally have fewer options than their full-featured GNU cousins; however, the options that are included provide the expected functionality and behave very much like their GNU counterparts. BusyBox provides a fairly complete environment for any small or embedded system.

Source: <https://busybox.net/>

libz (1.2.8)

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. The zlib data format is itself portable across platforms.

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

libcurl (7.49.1)

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.

Source: <http://curl.haxx.se/libcurl/>

log4c (1.2.1)

Apache log4cxx is a logging framework for C++ patterned after Apache log4j, which uses Apache Portable Runtime for most platform-specific code and should be usable on any platform supported by APR. Apache log4cxx is licensed under the Apache License, an open source license certified by the Open Source Initiative.

Source: https://logging.apache.org/log4cxx/latest_stable/

libtinycrypt (1.1)

A library to handle compressed formats like MP3 etc.

Source: <http://git.alsa-project.org/?p=tinycrypt.git;a=summary>

GStreamer (V1.0)

GStreamer is a plugin-based framework licensed under the LGPL.

Source: <https://gstreamer.freedesktop.org/documentation/licensing.html>

mxml (2.8)

Source: <http://michaelsweet.github.io/mxml/>

libiconv (1.14)

International text is mostly encoded in Unicode. For historical reasons, however, it is sometimes still encoded using a language or country dependent character encoding.

Source: <https://www.gnu.org/software/libiconv/>

libavcodec, libavformat, libavutil

FFmpeg is the leading multimedia framework, able to decode, encode, transcode, mux, demux, stream, filter and play pretty much anything that humans and machines have created. It supports the most obscure ancient formats up to the cutting edge. No matter if they were designed by some standards committee, the community or a corporation. It is also highly portable: FFmpeg compiles, runs, and passes our testing infrastructure FATE across Linux, Mac OS X, Microsoft Windows, the BSDs, Solaris, etc. under a wide variety of build environments, machine architectures, and configurations.

Source: <https://www.ffmpeg.org/>

libfreetype (2.6.3)

FreeType is a freely available software library to render fonts.

It is written in C, designed to be small, efficient, highly customizable, and portable while capable of producing high-quality output (glyph images) of most vector and bitmap font formats.

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

libglibc (2.19)

The GNU C Library project provides the core libraries for the GNU system and GNU/Linux systems, as well as many other systems that use Linux as the kernel.

Source: <https://www.gnu.org/software/libc/>

libstdc++ (6.0.20)

libc++ is a new implementation of the C++ standard library, targeting C++11.

All of the code in libc++ is dual licensed under the MIT license and the UIUC License (a BSD-like license).

Source: <http://libcxx.lvm.org/>

libfribidi (0.19.6)

GNU FriBidi is an implementation of the Unicode Bidirectional Algorithm (bidi).

GNU FriBidi has no required dependencies. The list of projects using GNU FriBidi is growing and they provide a wealth of examples of using the various APIs to learn from.

Source: <https://fribidi.org/>

libsqlite3 (3.8.5)

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

SQLite is an embedded SQL database engine. Unlike most other SQL databases, SQLite does not have a separate server process.

SQLite is a compact library. With all features enabled,

the library size can be less than 500KiB, depending on the target platform and compiler optimization settings.

Source: <https://sqlite.org/>

libpng (1.6.16)

libpng is the official PNG reference library. It supports almost all PNG features.

Source: <http://libpng.org/pub/png/libpng.html>

libstbci-openssl.a (1.0.2g)

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>

libjpeg (v9a)

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

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

libdirectfb (directfb-1.7-1)

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.

It is a complete hardware abstraction layer with software fallbacks for every graphics operation that is not supported by the underlying hardware. DirectFB adds graphical power to embedded systems and sets a new standard for graphics under Linux.

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

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