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HFL3117D

HFL3117Z

EN User Manual

PHILIPS

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1 Get started

TV tour

High Definition TV

If your TV is equipped with a High Definition (HD) display, you can watch HD video in these ways and more:

- a Blu-ray disc player, connected with an HDMI cable, playing a Blu-ray disc
- an upscaling DVD player, connected with an HDMI cable, playing a DVD disc
- an over-the-air HD broadcaster (DVB-T MPEG4)
- a digital HD receiver, connected with an HDMI cable, playing HD content from a cable or satellite operator
- an HD game console, connected with an HDMI cable, playing an HD game

Media playback

If you connect your TV to a USB storage device, you can enjoy your movies, music, and pictures on a wide screen TV with excellent sound.

Program guides

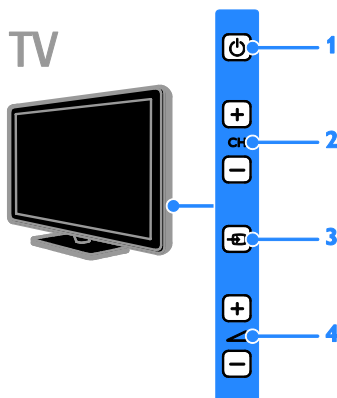
You can find out what's on and what's coming up, with the now and next EPG (Electronic Program Guide), or eight day EPG.

Intuitive menus

With the TV's intuitive menus, you can easily access the channel or media file that you want, or tweak the TV settings to suit your needs.

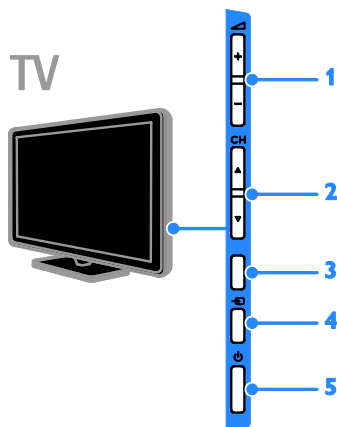
TV controls

Rear controls (For 32" and 42")



1. ⏻ (**Standby**): Switch the TV on or off.
2. CH +/- (**Channel +/-**): Switch to the next or previous channel.
3. Source (**Source**): Access a connected device.
4. Volume +/- (**Volume +/-**): Increase or decrease volume.

Side controls (For 22" and 26")



1. Volume +/- (**Volume +/-**): Increase or decrease volume.
2. CH +/- (**Channel +/-**): Switch to the next or previous channel.
3. No function.
4. Source (**Source**): Access a connected device.
5. ⏻ (**Standby**): Switch the TV on or off.

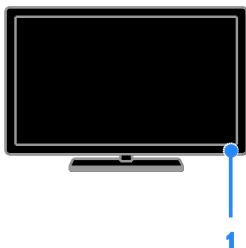
Sensors

1. Remote control sensor

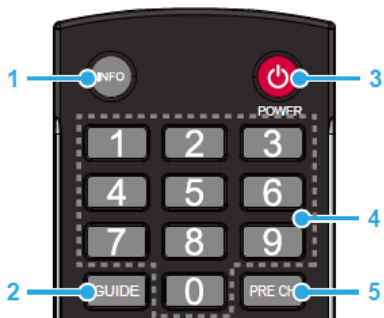
Point the remote control at the sensor.

Make sure that the line-of-sight between the remote control and the TV is not blocked by furniture or other objects.

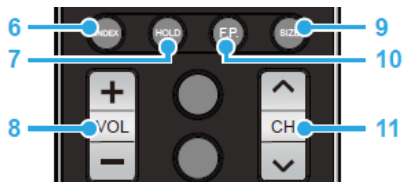
TV



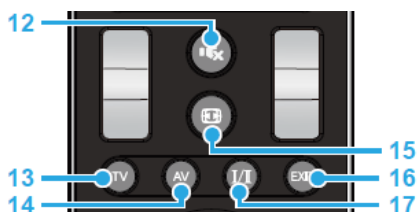
Remote control



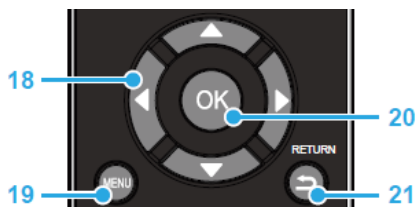
- 1. INFO:** Display information about current activity.
- 2. GUIDE:** Access TV Guide.
- 3. Power:** Switch the TV on or to standby.
- 4. 0-9 (Numeric buttons):** Select TV channels or enter text.
- 5. PRE CH:** Switch to previously viewed channel or input mode.



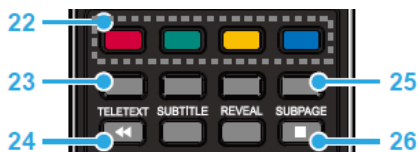
- 6. INDEX:** Return to the teletext index page.
- 7. HOLD:** Hold the current teletext page.
- 8. VOL +/- (Volume):** Adjust volume.
- 9. SIZE:** Teletext size function key.
- 10. F.P. (Favorite Page):** Open favorite page list in teletext mode.
- 11. CH:** Switch channels.



- 12. Mute:** Mute or restore audio.
- 13. TV:** Switch source to watch TV.
- 14. AV:** Access a connected device.
- 15. FORMAT:** Change picture format.
- 16. EXIT:** Returns to the normal viewing screen.
- 17. I/II (SAP):** Select Audio mode for watching TV.



- 18. Navigation buttons:** Navigate through menus and select items.
- 19. MENU:** Access the Home menu.
- 20. OK:** Confirm an entry or selection.
- 21. RETURN:** Return to the previous menu page or exit from a TV function.



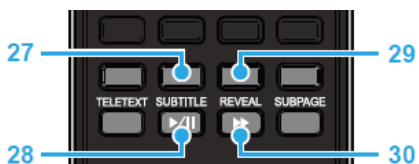
22. Color buttons: Select tasks or options. The buttons function according to the services offered by the service provider.

23. TELETEXT: Enable or disable teletext.

24. ◀◀: Fast reverse for multi-media playback.

25. SUBPAGE: Select the subpage.

26. ■ (Stop): Stop for multi-media playback.



27. SUBTITLE: Switch on or off subtitles.

28. ▶/II: Play/Pause for multi-media playback.

29. REVEAL: Reveal hidden information.

30. ▶▶ (Fast Forward): Fast Forward for multi-media playback.

Important information

Safety

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

Risk of electric shock or fire!

- Never expose the TV to rain or water. Never place liquid containers, such as vases, near the TV. If liquids are spilt on or into the TV, disconnect the TV from the power outlet immediately. Contact Philips Consumer Care to have the TV checked before use.
- Never place the TV, remote control or batteries near naked flames or other heat sources, including direct sunlight. To prevent the spread of fire, keep candles or other flames away from the TV, remote control and batteries at all times.



- Never insert objects into the ventilation slots or other openings on the TV.
- Never expose the remote control or batteries to rain, water or excessive heat.
- Avoid force coming onto power plugs. Ensure that the power plug is fully inserted into the power socket. Loose power plugs can cause arcing or fire.
- When the TV is swiveled, ensure that no strain is exerted on the power cord. Strain on the power cord can loosen connections and cause arcing.
- 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 damage to the TV!

- Two people are required to lift and carry a TV that weighs more than 25kg or 55lbs.
- When stand mounting the TV, use only the supplied stand. Secure the stand to the TV tightly. Place the TV on a flat, level surface that can support the combined weight of the TV and the stand.
- When wall mounting the TV, use only a wall mount that can support the weight of the TV. Secure the wall mount to a wall that can support the combined weight of the TV and wall mount. TP Vision Netherlands B.V. bears no responsibility for improper wall mounting that results in accident, injury or damage.
- If you need to store the TV, disassemble the stand from the TV. Never lie the TV on its back with the stand installed.
- 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.
- Parts of this product can be made of glass. Handle with care to avoid injury and damage.

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 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.
- Educate children about the dangers of climbing on furniture to reach the TV.

Risk of swallowing batteries!

- The product/remote control may contain a coin type battery, which can be swallowed. Keep the battery 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 4 inches or 10 cm around the TV for ventilation. Ensure that curtains or other objects never cover the ventilation slots on the TV.

Risk of injury, fire or power cord damage!

- Never place the TV or any objects on the power cord.
- Disconnect the TV from the power outlet and aerial before lightning storms. During lightning storms, never touch any part of the TV, power cord or aerial 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 matches room temperature before connecting the TV to the power outlet.

Screen care

- Risk of damage to the TV screen!
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. Never use substances such as alcohol, chemicals or household cleaners on the TV.
- To avoid deformations and color fading, wipe off water drops as soon as possible.
- Avoid stationary images as much as possible. Stationary images are images that remain onscreen for extended periods of time. Stationary images include onscreen menus, black bars, time displays, etc. If you must use stationary images, reduce screen contrast and brightness to avoid screen damage.

Notice

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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 Netherlands B.V. warrants that the material itself does not infringe any United States patents. No further warranty is expressed or implied.

TP Vision Netherlands B.V. 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 Customer Care for service or repairs.



- Any operation expressly prohibited in this manual, or any adjustments and assembly procedures not recommended or authorised in this manual shall void the warranty.

Pixel characteristics

This LCD/LED product has a high number of 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.

CE compliance



This product is in compliance with the essential requirements and other relevant provisions of Directives 2006/95/EC (Low Voltage), 2004/108/EC (EMC).

Compliance with EMF

TP Vision Netherlands B.V. manufactures and sells many products targeted at consumers, which, like any electronic apparatus, in general have the ability to emit and receive electromagnetic signals.

One of Philips' leading Business Principles is to take all necessary health and safety measures for our products, to comply with all applicable legal requirements and to stay well within the Electro Magnetic Field (EMF) standards applicable at the time of producing the products.

Philips is committed to develop, produce and market products that cause no adverse health effects. TP Vision confirms that if its products are handled properly for their intended use, they are safe to use according to scientific evidence available today.

Philips plays an active role in the development of international EMF and safety standards, enabling Philips to anticipate further developments in standardisation for early integration in its products.

Trademarks and copyrights

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



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

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

Sustainability

Energy efficiency

This TV is designed with energy-efficient features.

- **Energy saving picture settings:** You can apply a combination of energy-saving picture settings.
- **Screen off:** If you only want to listen to audio from the TV, you can switch off the TV display. Other functions continue to operate normally.
- **Low standby power:** The advanced power circuitry reduces the power consumption of the TV to an extremely low level, without losing out on the constant standby functionality.

End of use

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



When this crossed-out wheeled bin symbol is attached to a product it means that the product is covered by the European Directive 2002/96/EC. 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 inform yourself about the local rules on separate collection of batteries because correct disposal helps to prevent negative consequences for the environmental and human health.



Help and support

Visit Philips website

If you can't find what you need in the onscreen **[Help]**, visit the Philips support website at www.philips.com/support.

At the Philips support website, you can also:

- Find answers to Frequently Asked Questions (FAQ)
- Download a printable PDF version of this user manual
- Email us a specific question
- Chat online with Philips Consumer Care (available in certain countries only)

Search the TV forum

Your question may have already been answered by the Philips TV community of users. Visit www.supportforum.philips.com.

Contact Philips

You can contact Philips Consumer Care in your country for support. The number is available in the leaflet accompanying this product, or online at www.philips.com/support.

Before you contact Philips, write down the model and serial number of your TV. You can find this information on the back of your TV or on the TV packaging.

2 Use your TV

Watch TV

Switch TV on or off



Switch the TV on

- Press the power switch on the TV.
- If the TV is in standby, press \odot on the remote control.

Note: There is a short delay before the TV responds.

Tip: If you cannot find your remote control and want to switch on the TV from standby, press **CH +/-** or **CH ▲ ▼** on the TV.

Switch TV to standby

Press \odot on the remote control.
The remote control sensor on the TV switches to red.

Switch off the TV

Press \odot on the TV.
The TV switches off.

Note: Though your TV consumes very little energy when it is in standby or switched off, it does use some energy. If you are not going to use the TV for an extended period of time, disconnect the TV from the mains plug.

Automatic switch off

You can save energy with this TV's energy efficiency settings. The settings are enabled by default, so that if there is no user interaction (such as pressing a remote control button or a control on the rear panel) for four hours, the TV will automatically switch to standby.

To disable automatic switch off

1. Press **MENU** on the remote control.
2. Select **[Timer] > [Auto Standby] > [Off]**, then press **OK**.

Adjust TV volume

Increase or decrease the TV volume

- Press **+/-** on the remote control, or
- Press **VOL +/-** on the side or back of the TV.



Mute or unmute the TV volume

- Press **MUTE** on the remote control to mute the volume.
- Press **MUTE** again to restore the volume.

Adjust headphone volume

1. Press **MENU** > **[Sound]**.
2. Select **[Headphone volume]**, then press **OK**.

Switch TV channels

- Press **CH** on the remote control, or
- Press **CH +/-** or **CH ▲ ▼** on the side or back of the TV.
- Press the **Numeric buttons** to enter a channel number.



Manage channel lists

After the channels are installed, you can manage them:

- Rename channels
- Reorder channels
- Skip channels
- Listen to digital radio

Rename channels

You can rename channels. The name appears when the channels are selected.

1. Press **MENU** > **[Setup]** > **[Channels]** > **[Channel Edit]**, then press **OK**.

The channel list is displayed.

2. Select the channel to rename, then press **OK**.

3. Select **[Channel Name]**, then press **OK**.

4. Press the **Navigation buttons** to select each character, then press **OK**.

- Press **OK** in the entry screen to enable the **Onscreen Keyboard**, or
- Press **[ABC]** or **[abc]** to select an uppercase or lowercase letter.

5. Once complete, select **[Done]**, then press **OK** to confirm when prompted.

6. Press **EXIT** to exit.

Reorder channels

After the channels are installed, you can reorder the channel list.

1. Press **MENU** > **[Setup]** > **[Channels]** > **[Channel Sort]**, then press **OK**.

The channel list is displayed.

2. Select two channels to swap the positions.

3. Press **EXIT** to exit.

Skip channels

After the channels are installed, you can skip one or more channels when using remote control to switch channels.

1. Press **MENU** > **[Setup]** > **[Channels]** > **[Channel Skip]**, then press **OK**.

The channel list is displayed.

2. Select channels to skip.

3. Press **EXIT** to exit.

Listen to digital radio

If digital radio channels are available, you can listen to them. They are installed automatically when you install the TV channels.

1. While you watch TV, press **OK**.

The channel list is displayed.

2. Select a radio channel, then press **OK**.

Select a source

View from Source menu

Press **AV** to display a list of connector names.

Select the connector that connects the device to the TV.

1. Press **AV**.

2. Press **▲▼** to select a connector in the list.

3. Press **OK** to confirm.

Use smart settings

Your TV comes with smart picture and sound settings. You can apply these settings or customize them.

Select your preferred picture setting

1. While you watch TV, press **MENU**.

2. Select **[Picture]** > **[Viewing Mode]**.

3. Select an option, then press **OK**:

- **[Dynamic]**: Enhance picture contrast and sharpness.
- **[Normal]**: Ideal settings for normal ambient room lighting conditions.
- **[Cinema]**: Ideal settings for movies.
- **[User]**: Customize and store your own picture settings.
- **[Game]**: Ideal settings for games.

Select your preferred sound setting

1. While you watch TV, press **MENU**.

2. Select **[Sound]** > **[Mode]**.

3. Select an option, then press **OK**:

- **[Music]**: Ideal settings for music video.
- **[Speech]**: Ideal settings for spoken audio, such as the news.

Change picture format

You can change the picture format to suit the video source.

1. Press **(FORMAT)**.

2. Select a picture format, then press **OK** to confirm.

The available picture formats depend on the video source:

- **[16:9]:** Display the classic 16:9 format without distortion.
- **[Just]:** Adjust the picture format according to the input source
- **[4:3]:** Display the standard 4:3 format without distortion.
- **[Zoom 1]:** Stretch 4:3 format to 14:9
- **[Zoom 2]:** Stretch 4:3 format to 16:9.

View program guide

You can view information about digital TV channels using program guides provided by broadcasters. This information can include:

- Channel schedules for the day ('Now and next') or up to 8 days, if supported by your broadcaster
- Synopsis of programs

Use TV program guide options

You can customize the displayed information to:

- Remind you when programs start
- Display only preferred channels

1. Press **GUIDE**.
2. Follow the on screen instructions.

View media

What you can do

You can play photos and music on your TV from a USB device connected to the TV.

Play files from USB

If you have photos or music files on a USB storage device, you can play the files on TV.

Caution:

- TP Vision is not responsible if the USB storage device is not supported, nor is it responsible for damage or loss of data in the device.
- Do not overload the USB port. If you connect a USB storage device that consumes more than 500mA power, make sure that it is connected to its own external power supply.

View USB contents

1. Connect the USB device to the USB connector on the TV.
2. Press **AV**, select **[USB]**, then press **OK**.
3. Select **[Photo]** or **[Music]**, then press **OK**
4. Select a file from the content browser, then press **OK** to start play.

Press **Info button** to display the file information.

View pictures

Press the **Navigation buttons** to select a picture, then press **OK** to start the slideshow.

- Press **Navigation buttons** to search for a picture.
- Press **EXIT** to exit content browser.

Press **Blue button** to access or exit the picture options:

- **[Repeat]:** View slideshow repeatedly.

Listen to music

Press the **Navigation buttons** to select a music track, then press **OK** to control play.

- Press **◀ / ▶** to play previous or next music track.
- Press **EXIT** to exit content browser.

Press **Blue button** to access or exit the music options:

- **[Repeat One]:** Repeat a track.
- **[Repeat All]:** Repeat the playlist.

3 Use more of your TV

Professional mode


What you can do

With professional mode, you can configure this TV for commercial use.

- Blocking guests from modifying the TV channels or settings.
- Limiting the maximum volume
- Controlling on-screen information

Note: In professional mode, most of the mainstream features are replaced by similar features for commercial use.

Enter Professional mode

1. Press **MENU** on the remote control.
2. Press **3, 1, 9, 7, 5, 3, **.

The professional setup menu appears.

Switch on

1. In professional setup menu, select **[PBS settings]** > **[PBS mode]**.
2. Use the **Navigation buttons** to select a setting to change, then press **OK**:
 - **[On]**: Switch on professional mode. Hospitality features are enabled.
 - **[Off]**: Switch off professional mode. The TV operates as a normal consumer TV.

3. Press **EXIT** to store all professional mode settings and exit.

Volume setting

1. In professional setup menu, select **[PBS settings]**, then press **OK**.
2. Select **[Maximum volume]** to set the maximum volume limitation or **[Switch on volume]** to set the volume when turn on the TV.

Guest menu

Here are a few settings that the hotel guests can change.

Picture settings

1. Press **MENU** > **[Picture]**, then press **OK**.
 - **[Viewing Mode]**: Select the preferred viewing mode.

Sound settings

1. Press **MENU** > **[Sound]**, then press **OK**.
 - **[Mode]**: Select the preferred audio mode.
 - **[Audio Description]**:
 - **[Normal]**: Set regular audio only.
 - **[Hard of Hearing]**: Sets the mix of hearing impaired audio with regular audio.
 - **[Visually Impaired]**: Sets the mix of hearing impaired audio with regular audio.
 - **[Volume]**: Adjust the volume of audio description.

Timer settings

1. Press **MENU** > **[Timer]**, then press **OK**.
 - **[Off Timer]**: Set a preset time to switch the TV to standby mode automatically.

Setup

1. Press **MENU** > **[Setup]**, then press **OK**.
 - **[Language]**: Select the preferred audio, subtitle, and teletext language.
 - **[Display Settings]**: Set the preferred subtitle type.

Play games

Add a game console

You can play games consoles projected on a wide screen TV with excellent sound. Before you start, connect your game console to this TV.

Game setting

The Game option in the Viewing Mode settings optimizes the TV display for gaming without picture lag.

Switch to Game setting

1. Press **MENU**.
2. Select **[Picture] > [Viewing Mode] > [Game]**, then press **OK**. The TV is ready for gaming.

Note: When your gaming session ends, switch back to your usual Viewing Mode setting.

View Teletext

Select a page

While you watch channels that broadcast teletext, you can view the teletext.

1. Select a channel that broadcasts teletext, then press **TELETEXT**.
2. Select a page in one of these ways:
 - Enter the page number with the **Numeric buttons**.
 - Press **CH + / CH -** to view the next or previous page.
 - Press the **Color buttons** to select a color coded item.
3. Press **EXIT** to exit.

Teletext options

1. While you view teletext, press **MENU**.
2. Select an option:
 - **[Freeze page] / [Unfreeze page]**: Freeze or unfreeze the current page.
 - **[Dual screen] / [Full screen]**: Enable or disable dual screen teletext. Dual screen displays both the current channel and the teletext broadcast on two halves of the TV screen.
 - **[T.O.P. overview]**: Table Of Pages (T.O.P.) teletext broadcasts allow you to jump from one subject to another without entering page numbers.
 - **[Enlarge] / [Normal view]**: Zoom in the page. Press the **Navigation buttons** to move around the enlarged view.
 - **[Reveal]**: Hide or reveal hidden information on a page, such as solutions to riddles or puzzles.
 - **[Cycle subpages]**: If subpages are available, each is shown automatically.
 - **[Language]**: Switch to a different language group to correctly display different character sets.
3. Press **EXIT** to exit.

Teletext language

For digital TV channels where the broadcasters provide with different teletext languages, you can select your preferred primary and secondary language.

1. Press **MENU**.
2. Select **[Setup] > [Language] > [Preferred Teletext]**.
3. Select a language, then press **OK**.

Subpages

If the teletext page contains several subpages, you can view each subpage in succession. These subpages are shown on a bar next to the main page number.

If subpages are available, press **◀** or **▶** to select them.

Digital teletext

If a digital TV channel's broadcaster offers dedicated digital text or interactive services, you can view digital teletext. Such channels may have digital teletext with more interactive features.

Note: Digital text services are blocked when subtitles are broadcast and switched on.

When in digital teletext:

- Press the **Navigation buttons** to select or highlight items.
- Press the **Color buttons** to select an option, then press **OK** to confirm or activate.

Set locks and timers

Clock

You can display a clock on the TV. The clock displays the time that is broadcast by your TV service operator.

Display the TV clock

1. While you watch TV, press **INFO**.

The clock is displayed on the top right hand corner of the TV screen.

Set the clock

You can change the clock mode to automatic or manual. By default, it is set to automatic mode, which automatically synchronizes it to Coordinated Universal Time (UTC). If your TV cannot receive UTC transmissions, set the clock manually.

1. While you watch TV, press **MENU**.
2. Select **[Setup]** > **[Other Settings]** > **[Time Zone]**.
3. Select **[Auto]** or set the time zone based on GMT, then press **OK**.

Timer

You can switch the TV to standby after a specified time. During the countdown to the specified time, you can switch off your TV earlier or reset the timer.

1. Press **MENU**.
2. Select **[Timer]** > **[Off Timer]**.
3. Press the **Navigation buttons** to set the timer.
The timer can be set up to 90 minutes, in steps of 15 minutes. To switch off the timer, set it to zero minutes.
4. After the specified time, the TV switches to standby.

Auto standby

You can switch the TV to standby mode if the TV is not in used for a specified time.

1. Press **MENU**.
2. Select **[Timer]** > **[Auto Standby]**.
3. Press the **Navigation buttons** to set the timer.

Child lock

To protect children from unsuitable TV programs, you can lock the TV or block age rated programs.

Set or change the child lock code

1. Press **MENU**.
2. Select **[Setup]** > **[Child lock]**.
3. Enter the code with the **Numeric buttons**.
4. Select **[Change PIN]**.
5. Enter the code with the **Numeric buttons**.

Tip: If you forget your code, enter '8888' to override any existing codes.

Lock or unlock channels

1. In the child lock menu, select **[Channel Block]**.
2. Select the channel to lock or unlock, then press **OK**.

Note:

If you access the channels from the channel list, you are prompted to enter your lock code.

Lock or unlock input

Lock the specific external input signals.

1. In the child lock menu, select **[Input Block]**.
2. Select the source to lock or unlock, then press **OK**.

Note:

If you access the input source from the input list, you are prompted to enter your lock code.

Parental rating

You can set your TV to display only programs with ratings limit. This restriction only applies to digital channels from broadcasters that rate their programs according to rating limit.

1. Press **MENU**.
2. Select **[Setup] > [Child lock]**.
3. Enter the code with the **Numeric buttons**.
4. Select **[Parental Rating]**.
5. Select a rating limit, then press **OK**.

For information on child lock codes, see **Use more of your TV > Set locks and timers > Child lock** (Page 15).

Clear child lock settings

You can clear all the child lock settings at once.

1. Press **MENU**.
2. Select **[Setup] > [Child lock]**.
3. Enter the code with the **Numeric buttons**.
4. Select **[Clear All]**, then press **OK**.

Use HDMI Control

What you can do

You can get the most out of your HDMI-CEC-compliant devices with HDMI Control enhanced control features. Connect your HDMI-CEC compliant devices through HDMI to your TV and control them at the same time with your TV remote control.

Note: Other brands describe HDMI-CEC functionality differently. Some examples are Anynet (Samsung), Aquos Link (Sharp) or BRAVIA Sync (Sony). Not all brands are fully compatible with Philips TV.

After you switch on HDMI Control, the following features are available:

One-touch play

When you play an HDMI-CEC compliant device, the TV switches on from standby and switches to the correct source.

One-touch standby

When you press **⏻** on the TV remote control, the TV and all HDMI-CEC compliant devices switch to standby mode.

EasyLink remote control

You can control multiple HDMI-CEC compliant devices with your TV remote control.

System audio control

If you connect an HDMI-CEC compliant device that includes speakers through the HDMI ARC connector, you can choose to hear the TV audio from those speakers instead of the TV speakers.

Synchronize audio

If you connect your TV to a home theater, you can synchronize the audio and video to avoid lag between the picture and sound.

Switch off connecting device

If your connecting device is not the active source, you can save energy by setting the TV to switch it to standby.

What you need

- Connect at least two HDMI-CEC compliant devices through HDMI. See **Connect your TV > Connect devices** (Page 23).
- Configure each HDMI-CEC compliant device properly
- Switch on HDMI Control

Switch on HDMI Control

1. Press **MENU**.
2. Select **[Setup] > [HDMI Control]**.
3. Select **[On]** or **[Off]**.

With HDMI ARC compliant device

If a connected device is HDMI Audio Return Channel (HDMI ARC) compliant, you can output TV audio through an HDMI cable. Additional audio cables are not required. Make sure you connect the device to the HDMI ARC connector on the TV. See **Connect your TV > About cables > HDMI** (Page 22).

4 Set up your TV

Picture and sound

More picture settings

You can change the settings in the Picture menu.

1. Press **MENU** > **[Picture]**, then press **OK**.
2. Select a setting to adjust, then press **OK**.
 - **[Viewing Mode]**: Access predefined picture settings.
 - **[Backlight]**: Change the brightness of the TV to match the lighting condition.
 - **[Contrast]**: Change the intensity of the bright areas, keeping dark areas unchanged.
 - **[Brightness]**: Change the intensity and details of the dark areas.
 - **[Colour]**: Change color saturation.
 - **[Sharpness]**: Change sharpness.
 - **[Tint]**: Change the color tone.
 - **[Colour Balance]**: Change the overall color balance.
 - **[P-NR]**: (Picture Noise Reduction) Filter and reduce noise.
 - **[3D-COMB]**: Make still or slow moving pictures look more vivid.
 - **[Screen Display]**: Turn off the screen when listening to the sound without watching the TV to reduce power consumption. Press any buttons to turn on the screen.
 - **[H.Position]**: Adjust the horizontal position of the picture. For HDMI (DVI) only.
 - **[V.Position]**: Adjust the vertical position of the picture. For HDMI (DVI) only.

- **[Advanced Settings]**: Provide various advanced settings for improving the picture quality.
 - **[16:9 Overscan]**: Select the screen area displaying the image.
 - **[Adaptive Brightness]**: Enrich the colors and the depth of the picture.
 - **[Dynamic Back Light]**: Reduce power consumption by dimming the TV backlight to match room lighting conditions.
 - **[DVI Input Settings]**: Change the black level in the image for HDMI input mode with DVI input signal manually. For HDMI terminal with DVI input signal only.
 - **[3:2 Pulldown]**: Detect a film-based source (originally encoded at 24 frames/second), analyze it then recreate each file frame for high-definition picture quality. For the input resolution of 576i, 480i, and 1080i only.

More sound settings

You can change the settings in the Sound menu.

1. Press **MENU** > **[Sound]**, then press **OK**.
2. Select a setting to change, then press **OK**:
 - **[Mode]**: Access predefined sound settings.
 - **[Bass]**: Change the bass level.
 - **[Treble]**: Change the treble level.
 - **[Balance]**: Change the balance of the left and right speakers.
 - **[Headphone volume]**: Change headphone volume.
 - **[Surround]**: Switch on spatial sound.
 - **[MPX]**: Select multiplex sound mode (if available). For analogue mode only.
 - **[SPDIF Selection]**: Select audio output through the digital audio connector. Select **[PCM]** to convert non-PCM audio or **[Auto]** to output to home theater.
 - **[SPDIF Delay]**: Automatically sync the image on the TV to the audio from a connected home theater.

- **[HDMI1 Input]:** Selects **[Digital]** to input audio signal from HDMI terminal, or select **[Analogue]** to input audio signal from L/R jack of AV2 INPUT.
- **[Audio Description]:** Some digital TV broadcasters provide special audio and subtitle features for people who are hearing or visually impaired. You can switch these features on or off.
 - **[Normal]:** Set regular audio only.
 - **[Hard of Hearing]:** Set the mix of hearing impaired audio with regular audio.
 - **[Visually Impaired]:** Set the mix of hearing impaired audio with regular audio.
- **[Volume]:** Adjust the volume of audio description.

Channel settings

Automatic install

When the TV was switched on for the first time, a full installation of channels was performed.

To reinstall all available TV channels, you can run this full installation again.

1. Press **MENU**.
2. Select **[Setup] > [System Menu] > [Shipping Condition]**, then press **OK**.
3. Follow the onscreen instruction to start the full installation.

Auto channel Scan

Set the channel list automatically.

1. Press **MENU**.
2. Select **[Setup] > [Channels] > [Auto Scan]**, then press **OK**.
3. Start channel search.

Tip: Press **OK** to see the channel list.

Check RF signal condition

You can scan single RF channels and check the signal condition.

1. Press **MENU**.
2. Select **[Setup] > [Channels] > [Single RF Scan]**.
3. Check the **[Signal Strength]** and **[Signal Quality]**.

Install analog channels

You can search and store analog TV channels one by one.

1. While you watch TV, press **MENU**.
2. Select **[Setup] > [Channels] > [Analogue Manual Scan]**.
3. Select **[Scan Up]** or **[Scan Down]**, then press **OK**.
4. Once the channel update is complete, press **EXIT** to exit.

Note: If the reception is poor, reposition your antenna and repeat the procedure.

Fine-tune analog channels

If the reception of an analog TV channel is poor, you can fine-tune the TV channel.

1. Press **MENU**.
2. Select **[Setup] > [Channels] > [Fine Tuning]**.
3. Select the channel, and then press **OK**.
4. Press **◀** or **▶** to fine-tune the channel, and then press **OK**.

Update channel list

When the TV was switched on for the first time, a full installation of channels was performed.

When there are changes to these channel lists, update channel list automatically without erasing the original information.

1. Press **MENU**.
2. Select **[Setup] > [Channels] > [Update Channel List]**, then press **OK**.
3. Start channel search.
4. Once the channel update is complete, press **EXIT** to exit.

Language settings

Audio language

For digital channels that are broadcast with multiple audio languages, you can set your preferred audio languages. The TV automatically switches to one of these languages, if they are available.

1. Press **MENU**.
2. Select **[Setup] > [Language]**.
3. Select **[Preferred Audio 1]** or **[Preferred Audio 2]** to set the preferred audio languages.
4. Press **◀** or **▶** to select the language.

Subtitle language

For certain digital channels, you can change the subtitle language.

1. While you watch TV, press **MENU**.
2. Select **[Setup] > [Language]**.
3. Select **[Preferred Subtitle 1]** or **[Preferred Subtitle 2]** for the preferred language.
4. Press **◀** or **▶** to select the language.

Preferred Subtitle Type

Select the preferred subtitle type.

1. Press **MENU**.
2. Select **[Setup] > [Display Settings] > [Preferred Subtitle Type]**.
3. Select **[Standard]** for preset subtitles (depending on the broadcaster) or **[Hearing Impaired]** for providing aids in understanding and enjoyment with DVB subtitles (depending on the broadcaster).

Other settings

Power saving

Reduce brightness of picture to save the power consumption.

1. Press **MENU**.
2. Select **[Setup] > [Other Settings] > [Power Save]**.
3. Select **[On]** or **[Off]**

Location

To make sure that the correct TV settings are applied, you can select where the TV is used.

Shop or home mode

Select **[Home]** mode to access all TV settings. In **[Shop]** mode, you can access only limited settings. Set the correct location at the initial setup wizard.

Country Region

Select the correct region to adjust the standard time.

1. Press **MENU**.
2. Select **[Setup] > [Other Settings] > [Country Region]**.
3. Select the correct region.

Update software

Check version

1. Press **MENU**.
2. Select **[Setup] > [System Menu] > [System Information]**, then press **OK**.

The version of the current software is displayed.

Caution: Do not install a lower version of software than the current version installed on your product. TP Vision cannot be held liable or be made responsible for problems caused by a software downgrade.

Update the software through one of these methods:

- update new software automatically
- update new software manually by air

Update automatically

When available, the TV can receive software updates through digital broadcasts. When a software update is received, you are prompted to update the software.

1. Press **MENU**.
2. Select **[Setup] > [System Menu] > [OAD] > [On]**.
3. Select **[Auto Download] > [On]** to enable the TV downloading the new software upon broadcasting.
4. Select **[Auto Install] > [On]** to install new software automatically.

Update manually by air

1. Press **MENU**.
2. Select **[Setup] > [System Menu] > [OAD] > [On]**.
3. Select **[Manual OAD]**, then press **OK**.

Follow the onscreen instructions.

Restore default settings

You can reset all picture and sound settings and reinstall all TV channels on your TV.

1. Press **MENU**.
2. Select **[Setup] > [System Menu] > [Shipping Condition]**, then press **OK**.
3. Follow the onscreen instruction to start the full installation.

5 Connect your TV

About cables

Cable quality

Overview

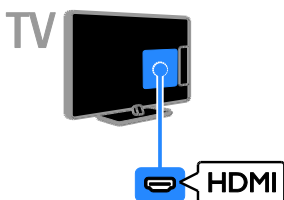
Before you connect devices to the TV, check the available connectors on the device. Connect the device to the TV with the highest quality connection available. Good quality connectors transfer picture and sound better.

The connections shown in this user manual are recommendations only. Other solutions are possible.

HDMI

An HDMI connection has the best picture and sound quality.

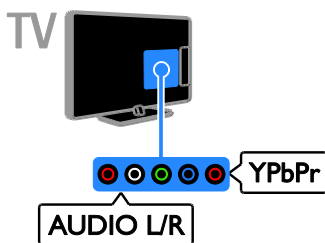
- An HDMI cable combines video and audio signals. Connect HDMI for high-definition (HD) TV signals, and to switch on EasyLink.
- An HDMI Audio Return Channel (ARC) connector allows output of TV audio to an HDMI ARC compliant device.
- Connect HDMI cables shorter than 5 meters/16.4 feet.



Y Pb Pr

Component video (Y Pb Pr) only transmits video. For sound, also connect to Audio Left/Right.

- The Y Pb Pr connection can handle high-definition (HD) TV signals.
- Match the Y Pb Pr connector colors to the cable plugs.



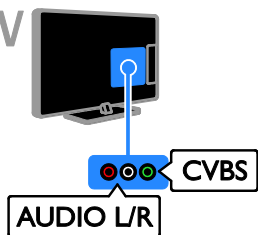
CVBS

CVBS only transmits video. For sound, also connect to Audio Left/Right.

- CVBS connections provides standard picture quality.
- On certain models, the video input socket on your TV is labelled as VIDEO, AV IN or COMPOSITE.



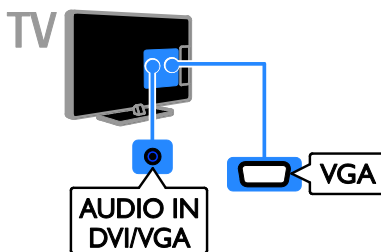
TV



VGA

You can connect VGA to display PC content on the TV.

VGA only transmits video. For sound, also connect to AUDIO IN.



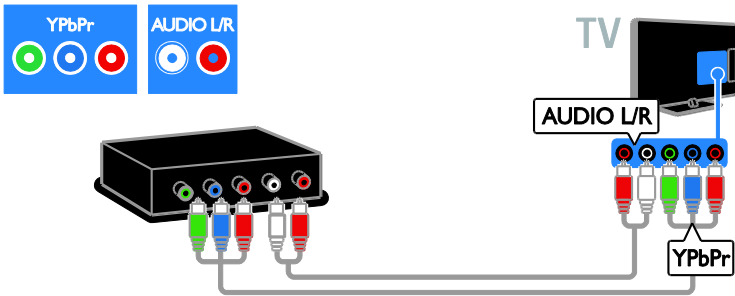
Connect devices

Blu-ray or DVD disc player

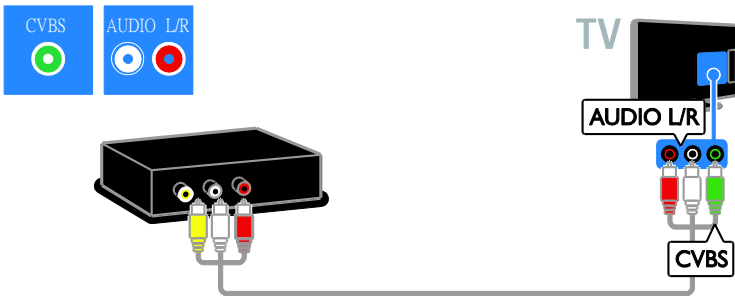
Connect the disc player with an HDMI cable to the TV.



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

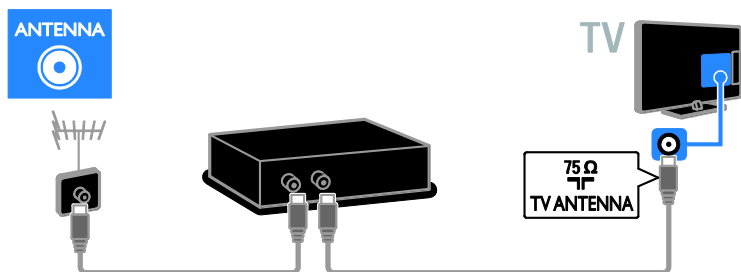


Connect the disc player with a composite cable (CVBS) and an audio L/R cable to the TV.

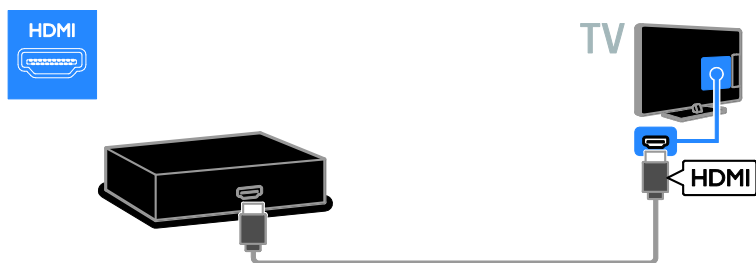


TV receiver

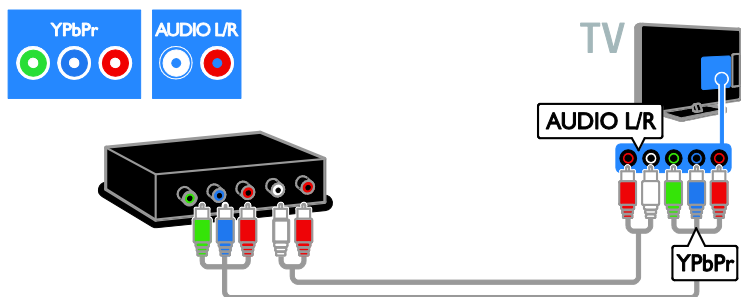
Connect the digital TV receiver with an antenna cable to the TV.



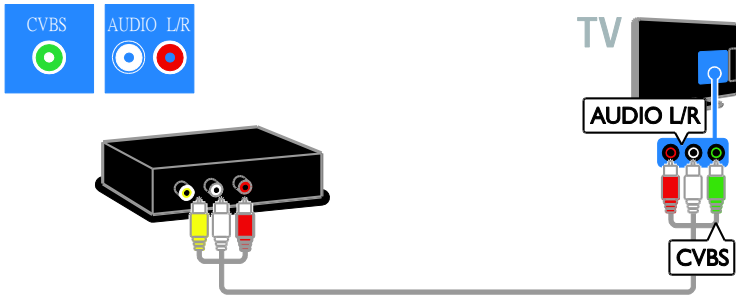
Connect the digital TV receiver with an HDMI cable to the TV.



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



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

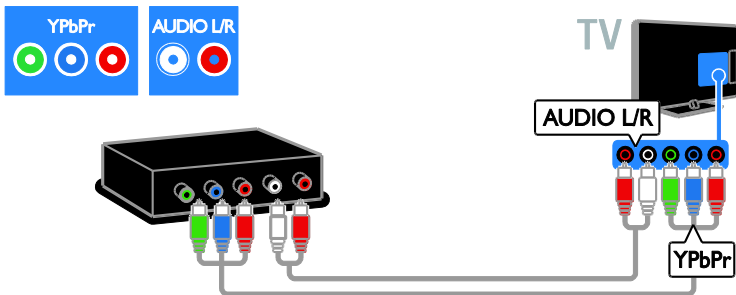


Video recorder

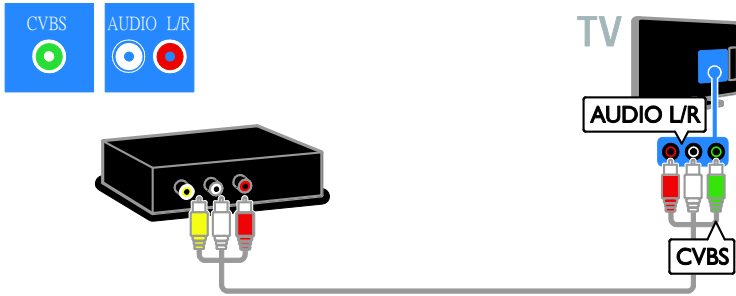
Connect the recorder with an antenna cable to the TV.



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



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

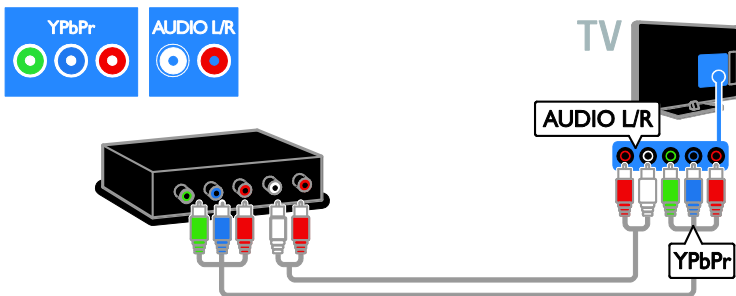


Game console

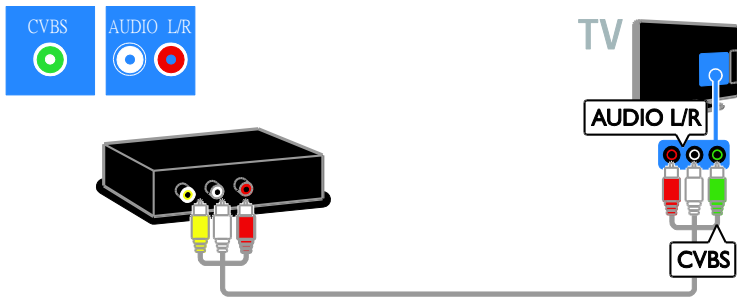
Connect the game console with an HDMI cable to the TV.



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

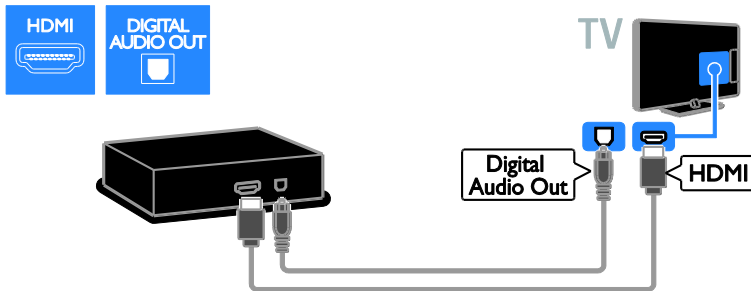


Connect the game console with a composite cable (CVBS) and an audio L/R cable to the TV.

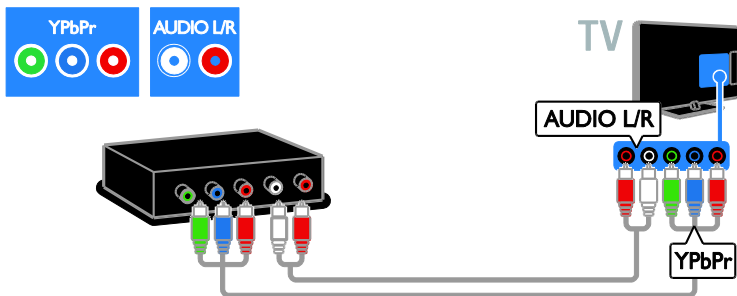


Home theater

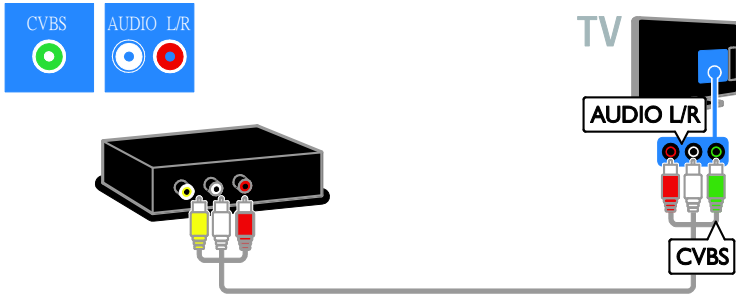
Connect the home theater with an HDMI cable and a coaxial audio cable to the TV.



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

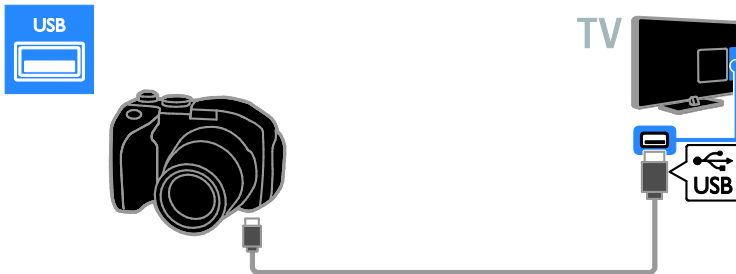


Connect the home theater with a composite cable (CVBS) and an audio L/R cable to the TV.



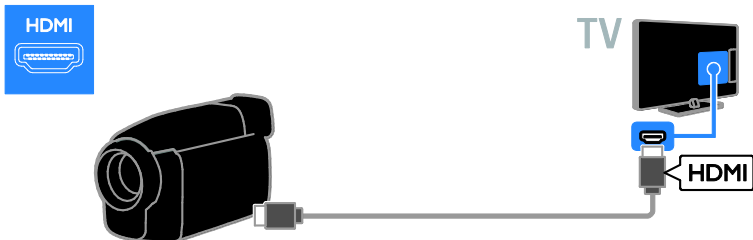
Digital camera

Connect the digital camera with a USB cable to the TV. (For certain camera models only)

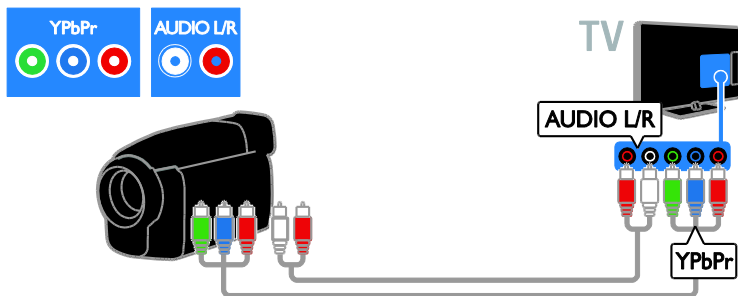


Digital camcorder

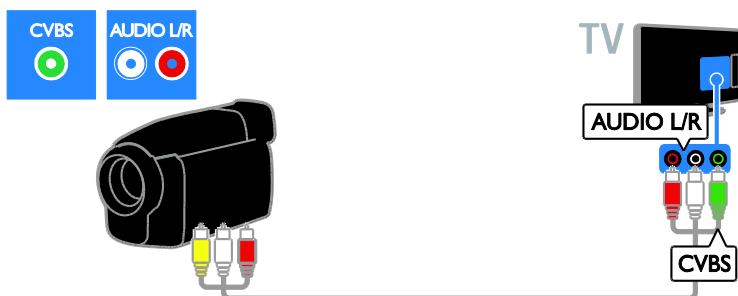
Connect the digital camcorder with an HDMI cable to the TV.



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



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



Connect more devices

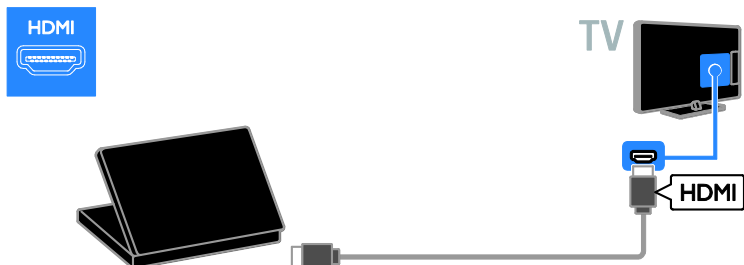
USB hard drive

Connect the USB hard drive with a USB cable to the TV.

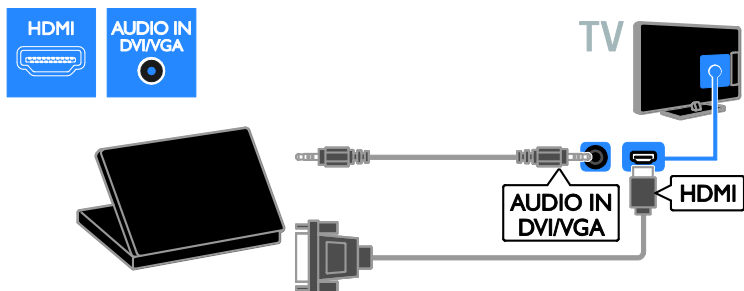


Computer

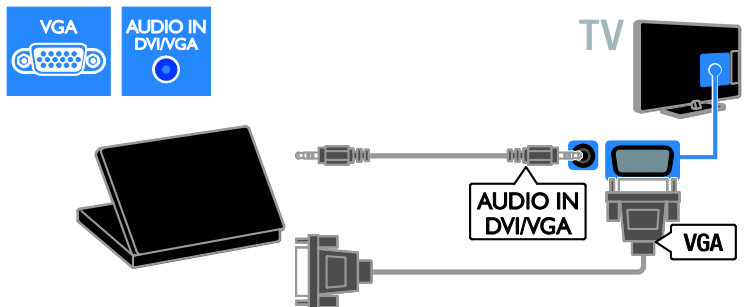
Connect the computer with an HDMI cable to the TV.



Connect the computer with a DVI-HDMI cable and an audio cable to the TV.



Connect the computer with a VGA cable and an audio cable to the TV.



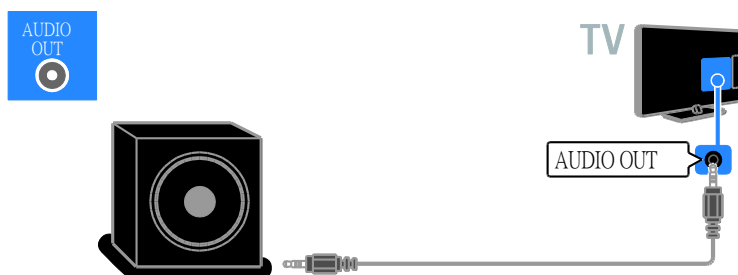
Set-top box

Connect the set-top box with a RJ-48 cable to the TV. (DATA connector is available on certain models only)



External speakers

Connect the 2W external speakers (sold separately) with an audio cable to the 8 ohm AUDIO OUT connector on the TV. (8 ohm AUDIO OUT connector is available on certain models only)



Select a source

Press **AV** to display a list of connector names.
Select the connector that connects the device to the TV.

1. Press **AV**.
2. Press the **Navigation buttons** to select a connector in the list.
3. Press **OK** to confirm.

6 Troubleshooting

General issues

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.

The TV does not respond to remote control or front controls when switched on:


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

When you are turning the TV on, off or to standby, you hear a creaking sound from the TV chassis:

No action is required. 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.

When the TV is in standby, a startup splash screen is displayed, then 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  on the remote control or press any key on the TV.

The standby light on the TV blinks red:

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

You forgot the 4-digit code to unlock the channel blocking feature (child lock):

Enter '8888'.

Subtitles are not visible when you play a movie file from a USB storage device:

Subtitle files that are not hard-coded into a video file (for example, *.srt, *.sub, *.idx) are not supported.

You want to upgrade your TV software:

Full instructions on how to upgrade your TV software are also available at **Setup your TV > Update software**.

Channel issues

You want to install TV channels

See **Setup your TV > Channel settings** (Page 19) for instructions on installing analog or digital channels.

No digital channels were found during the installation:

See the technical specifications to make sure that your TV supports DVB-T or DVB-C in your country.

- Make sure that all cables are properly connected and that the correct network is selected.

Previously installed channels do not appear in the channel list:

Make sure that the correct channel list is selected.

You want to rearrange or reorder the channel list:

After channels are installed, they appear in the channel list. For information about managing channel lists, including rearranging channels, see **Use your TV > Watch TV > Manage channel lists** (Page 11).

Picture issues

The TV is on, but there is no picture or the picture is distorted:

- 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.

There is sound but no picture:

Make sure that the picture settings are set correctly.

There is poor TV reception from an antenna connection:

- 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.

There is poor picture quality from connected devices:

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

The TV did not save your picture settings:

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

The picture does not fit the screen; it is too big or too small:

Change the different picture format.

The picture format keeps changing with different channels:

Instead of the picture format **[Just]**, select a different picture format.

The picture position is incorrect:

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

An "e-sticker" banner displaying information appears on the TV display:

The TV is in **[Shop]** mode. To remove the e-sticker, set the TV to **[Home]** mode, then restart the TV. See **Setup your TV > Other settings > Location** (Page 20).

The computer display on the TV is not stable:

- Make sure that your PC uses the supported resolution and refresh rate. See **Product specifications > Display resolutions** (Page 36).

Sound issues

There is picture but no sound from the TV:

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

- 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 HDMI-CEC enabled home theater device. Sound should be heard from the home theater 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.

There is picture but sound quality is poor:

Make sure that the sound settings are correctly set.

There is picture but sound comes from one speaker only:

Make sure that sound balance is set to the center.

Connection issues

There are problems with HDMI devices:

- 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 L/R or AUDIO IN (mini-jack only).

You cannot use HDMI Control features:

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

If an HDMI-CEC compliant audio device is connected to the TV and the TV does not display any mute or volume icon when the volume is muted, increased or decreased:

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

USB device content is not displayed:

- 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.

Audio and picture files on your USB storage device do not play or display smoothly:

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

Contact Philips

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

If are not able to resolve your problem, refer to the frequently asked questions (FAQs) for this TV at www.philips.com/support. You can also consult and contribute to the Philips TV community at www.supportforum.philips.com.

If you wish to speak with or email a Philips representative, contact the Philips Consumer Care in your country. You can find the contact details in the leaflet accompanying this TV or at www.philips.com/support.

Take note of your TV model and serial number before you contact Philips. These numbers are printed on the back of the TV and on the packaging.

7 Product specifications

Power and reception

Product specifications are subject to change without notice.

Power

- Mains power : AC 220-240 V~, 50-60 Hz
- Standby power consumption : < 0,5 W
- Ambient temperature : 5 to 40 degree Celsius
- For power consumption, see the product specifications at www.philips.com/support.

Reception

- Antenna input: 75 ohm coaxial (IEC75)
- TV system: DVB COFDM 2K/8 K
- Video playback: NTSC, PAL, SECAM
- Digital TV: PAL B/G.
Tuner bands: VHF, UHF

Display and sound

Picture / Display

- Display type: edge LCD/LED backlight

Diagonal size:

- 56 cm / 22 inch

- 66 cm / 26 inch

- 81 cm / 32 inch

- 107 cm / 42 inch

- Aspect ratio: 16:9 (widescreen)
- Panel resolution:
For HD models: 1366 X 768 p
For FHD models: 1920 X 1080 p

Sound

- Output power (RMS):
 - For 22": 3 W
 - For 26": 3 W
 - For 32": 5 W
 - For 42": 8 W
- Incredible Surround
- Treble / Bass
- Music / Speech

Display resolutions

Computer formats - HDMI (Resolution - refresh rate)

640 × 480 - 60 Hz

800 × 600 - 60 Hz

1024 × 768 - 60 Hz

1280 × 768 - 60 Hz

1280 × 1024 - 60 Hz

1360 × 768 - 60 Hz

For Full HD TV only:

1920 × 1080 - 60 Hz

Computer formats - VGA (Resolution - refresh rate)

640 × 480 - 60 Hz

800 × 600 - 60 Hz

1024 × 768 - 60 Hz

1280 × 1024 - 60 Hz

1366 × 768 - 60 Hz

For Full HD TV only:

1920 × 1080 - 60 Hz

Video formats

(Resolution - refresh rate)

480i - 60 Hz

480p - 60 Hz

576i - 50 Hz

576p - 50 Hz

720p - 50Hz, 60 Hz

1080i - 50Hz, 60 Hz

1080p - 24Hz, 25Hz, 30Hz, 50Hz, 60 Hz

Multimedia

Supported image files

- JPEG (*.jpg)

Supported multimedia connections

- USB: Connect only USB devices which consumes 500mA of power or less.
 - NTFS, FAT 16 (Read only)
 - FAT 32

Supported audio/video files

Multimedia file names must not exceed 128 characters.

File Extensions	Container	Video codec	Maximum resolution	Max. Frame Rate (fps)	Max. Bit Rate (Mbps)	Audio codec	USB
.mpg .mpeg .mpe	PS	MPEG1	768x576	30	1.8 Mbps	MP1 Layer1/2, MP3, AC3, DVD LPCM	YES
		MPEG2 MP@HL	1920x1080	30	40 Mbps		YES
.ts	TS	MPEG2 MP@HL	1920x1080	30	40 Mbps	MPEG1 Layer1/2, AC3	YES
		VC-1	1920x1080	30	40 Mbps	MPEG2 AAC-LC, MPEG4 AAC-LC/HE-AAC, AC3	YES
		H.264 BP@MP@P LV 4.0	1920x1080	30	40 Mbps		YES
		H.264 BP@MP@P LV 4.0	1920x1080	30	40 Mbps		YES
.mp4 (.mov and .3gp extensions are not supported)	MP4	MPEG4 SP@L 3.0/ASP@HL 4.0	1920x1080	30	40 Mbps	MPEG1 Layer1/2, MP3, MPEG2 AAC-LC, MPEG4 AAC-LC/HE-AAC	YES
		H.263	1408x1152	30	40 Mbps		YES
		Motion JPEG (*.mov only)	1280x720	30	30 Mbps		YES
		H.264 BP@MP@P LV 4.0	1920x1080	30	40 Mbps		YES
.mkv	MKV	MPEG4 SP@L 3.0/ASP@HL 4.0	1920x1080	30	40 Mbps	varr-PCM/ADPCM/A-law PCM/u-law PCM, MPEG1 Layer1/2, MP3, MPEG2 AAC-LC, MPEG4 AAC-LC/HE-AAC, AC3, VMAv8	YES
		VFWV9	1920x1080	30	40 Mbps		YES
		VC-1	1920x1080	30	40 Mbps		YES

Supported audio/video files

Multimedia file names must not exceed 128 characters.

File Extensions	Container	Video codec	Maximum resolution	Max. Frame Rate (fps)	Max. Bit Rate (Mbps)	Audio codec	USB
.mp4 .avi	AVI	XviD	1920x1080	30	40 Mbps	varr-PCM/ADPCM/A-law PCM/u-law PCM, MPEG1 Layer 1/2, MP3, MPEG2 AAC-LC, MPEG4 AAC-LC/HE-AAC, AC3, VMAv8	YES
		MPEG1	768x576	30	1.8 Mbps		YES
		MPEG2 MP@HL	1920x1080	30	40 Mbps		YES
		H.264 BP@MP@P LV 4.0	1920x1080	30	40 Mbps		YES
		MPEG4 SP@L 3.0/ASP@HL 4.0	1920x1080	30	40 Mbps		YES
		Motion JPEG	1280x720	30	30 Mbps		YES
.flv	FLV	Sorenson	352x288	30	40 Mbps	MPEG1 Layer1/2, MP3, MPEG2 AAC-LC, MPEG4 AAC-LC/HE-AAC	YES
		H.264 BP@MP@P LV 4.0	1920x1080	30	40 Mbps		YES
.mp3	MP3	NA	NA	NA	32/40/48/56/64/80/96/112/128/160/192/224/256/320 kbit/s	MP3	YES
.wav	MKV	NA	NA	NA	16bit PCM(16/24/32bit endian) 24bit PCM(16g endian)	PCM/ADPCM/A-law PCM/u-law PCM	YES
.aac .mp4 .m4a	AAC	NA	NA	NA	16-576 kbit/s	ACC-LC/HE-AAC	YES

Connectivity

Rear

- AUDIO OUT: 8 ohm Audio Out
- VGA: PC input
- AUDIO IN: DVI/VGA (stereo 3.5mm mini-jack)
- Composite and Audio: CVBS/Y, Audio L/R
- Component and Audio: CVBS/Y Pb Pr, Audio L/R
- DIGITAL AUDIO OUT: Cinch
- HDMI 1 / 2 / 3
- Antenna: 75 ohm coaxial

Side

- USB
- Headphones: stereo 3.5mm mini-jack
- Composite and Audio: CVBS/Y, Audio L/R

HDMI features

- Audio Return Channel (HDMI 1 only)

Supported TV mounts

You can mount your TV on the wall with a compatible TV mount (sold separately)*. Select the type of TV mount for your TV screen size:

56 cm / 22 inches: 75mm × 75mm, M4

66 cm / 26 inches: 100mm × 100mm, M4

81 cm / 32 inches: 200mm × 100mm, M4

107 cm / 42 inches: 400mm × 400mm, M6

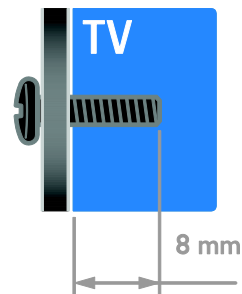
Warning: Follow all instructions provided with the TV mount. TP Vision Netherlands B.V. bears no responsibility for improper TV mounting that results in accident, injury or damage.

To prevent damage to cables and connectors, leave a gap of at least 5.5 cm / 2.2 inches from the back of the TV.

For 22inch TVs:

Before you mount the TV on the wall, find the correct length of the screw.

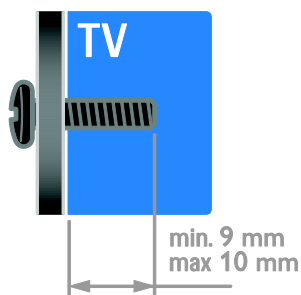
To find the length of the screw, add the thickness of your wall mount to the screw length, as shown in the graphic.



For 26 inch TVs:

Before you mount the TV on the wall, find the correct length of the screw.

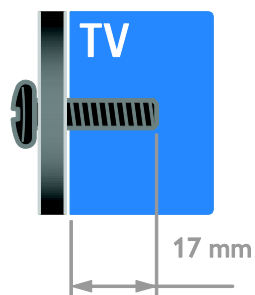
To find the length of the screw, add the thickness of your wall mount to the screw length, as shown in the graphic.



For 42 inch TVs:

Before you mount the TV on the wall, find the correct length of the screw.

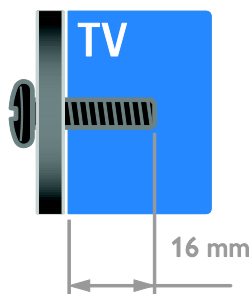
To find the length of the screw, add the thickness of your wall mount to the screw length, as shown in the graphic.



For 32 inch TVs:

Before you mount the TV on the wall, find the correct length of the screw.

To find the length of the screw, add the thickness of your wall mount to the screw length, as shown in the graphic.



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