Register your product and get support at

www.philips.com/welcome

EN User Manual

PHILIPS

LCD TV

Environmental Information

产品中有毒有害物质或元素的名称及含量
Names and Contents of Toxic or Hazardous Substances or Elements

部件名称 Name of the Parts	有毒有害物质或元素 Hazardous/Toxic Substance					
	铅 (Pb, Lead)	汞 (Hg,Mercury)	镉 (Cd,Cadmium)	六价铬 (Chromium 6+)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
Housing 外壳	O	O	O	O	O	O
LED Panel 液晶面板	O	O	O	O	O	O
PWBs 电路板组件	O	O	O	O	O	O
Accessories (Remote control & cables) 附件（遥控器，电源线，连接线）	O	O	O	O	O	O
Batteries in Remote Control 遥控器电池	O	O	O	O	O	O

○：表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363 - 2006 标准规定的限量要求以下。
O: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363 – 2006.

×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363 – 2006 标准规定的限量要求。
X: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363 - 2006.

环保使用期限 Environmental Protection Use Period

此标识指期限（十年），电子信息产品中含有的有毒有害物质或元素在正常使用的条件下不会发生外泄或突变，用户使用该电子信息产品不会对环境造成严重污染或对其人身、财产造成严重 损害的期限。

This logo refers to the period (10 years) during which the toxic or hazardous substances or elements contained in electronic information products will not leak or mutate so that the use of these [substances or elements] will not result in any severe environmental pollution, any bodily injury or damage to any assets.

电池标识 Battery labeling logo

环保使用期限 Environmental Protection Use Period

此标识指期限（五年），电池中含有的有毒有害物质或元素在正常使用的条件下不会发生外泄或突变，用户使用该电池产品不会对环境造成严重污染或对其人身、财产造成严重 损害的期限。

This logo refers to the period (5 years) during which the toxic or hazardous substances or elements contained in the **battery** will not leak or mutate so that the use of these [substances or elements] will not result in any severe environmental pollution, any bodily injury or damage to any assets.

Contents

1	**Get started**	**3**
	Important	3
	Enjoy HD TV	7
	Wall mount the TV	7
	Product highlights	8
	Access more information	9
2	**Use your TV**	**10**
	Overview	10
	Side controls and indicators	10
	Remote control	10
	Basic TV menus	12
	Watch TV	13
	Watch a connected device	16
	Use Ambilight	16
3	**Use more of your TV**	**18**
	Use teletext	18
	Favorite channels	19
	Use EPG	19
	Use timers and locks	19
	Use subtitles	20
	Access multimedia	20
	Use Scenea	22
	Universal access	22
4	**Setup the TV**	**24**
	Change picture and sound settings	24
	Change channel settings	25
	Install channels	27
	Change language settings	28
	Setup network	28
	Change other settings	29
	Update the TV software	30
	Reinstall the TV	31
5	**Connect the TV**	**32**
	First connections	32
	About cables	32
	TV connectors overview	33
	Connect devices	36
	Connect more devices	41
	Use Philips EasyLink	45
	Use a CAM	47
6	**Troubleshooting**	**49**
	Contact us	49
	General TV issues	49
	TV channel issues	49
	Picture issues	49
	Sound issues	50
	HDMI connection issues	50
	USB connection issues	51
	Network connection issues	51
7	**Technical data**	**52**
	Overview	52
	Power and reception	52
	Display and sound	52
	Display resolutions	52
	Multimedia	52
	Connectivity	53
	Dimensions	54
8	**Index**	**58**

1 Get started

Important

Congratulations

Congratulations on your purchase, and welcome to Philips! To fully benefit from the support that Philips offers, register your TV at (http://www.philips.com/welcome).

Safety

Read and understand all instructions before you use your 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 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 insert objects into the ventilation slots or other openings on the TV.
- When the TV is swivelled ensure that no strain is exerted on the power cord. Strain on the power cord can loosen connections and cause arcing.
- 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.

Risk of short circuit or fire!

- Never expose the remote control or batteries to rain, water or excessive heat.
- Avoid force coming onto power plugs. Loose power plugs can cause arcing or fire.

Risk of injury or damage to the TV!

- Two people are required to lift and carry a TV that weighs more than 25kg/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. Koninklijke Philips Electronics N.V. bears no responsibility for improper wall mounting that results in accident, injury or damage.
- Before you connect the TV to the power outlet, ensure that the power voltage matches the value printed on the back of the TV. Never connect the TV to the power outlet if the voltage is different.

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

Risk of overheating!

- Never install the TV in a confined space. Always leave a space of at least 4 inches around the TV for ventilation. Ensure 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.
- To easily disconnect the TV power cord from the power outlet, ensure that you have full access to the power cord at all times.
- When you disconnect the power cord, always pull the plug, never the cable.
- 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

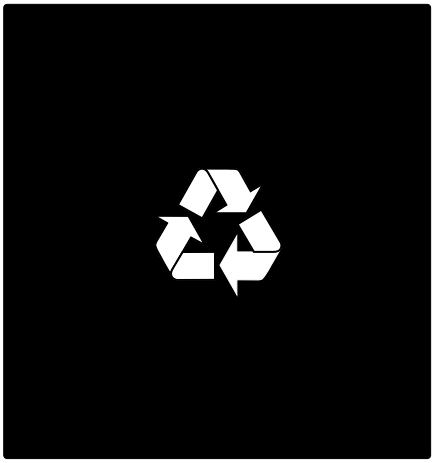
If the TV is transported in temperatures below 5°C/41°F, unpack the TV and wait until the TV temperature matches room temperature before connecting the TV to the power outlet.

Screen care

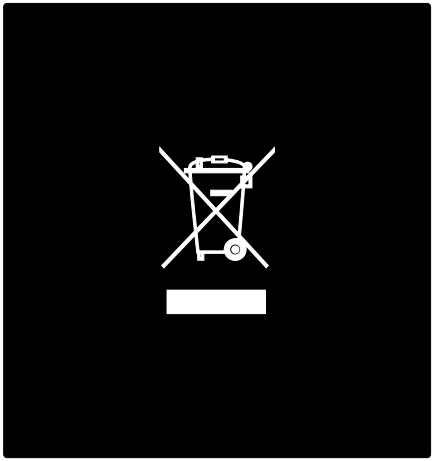
- Risk of damage to the TV screen! Never touch, push, rub or strike the screen with any object.
- Unplug the TV before cleaning.
- Clean the TV and frame with a soft damp cloth. Never use substances such as alcohol, chemicals or household cleaners on the TV.
- To avoid deformations and colour fading, wipe off water drops as soon 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.

End of use

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

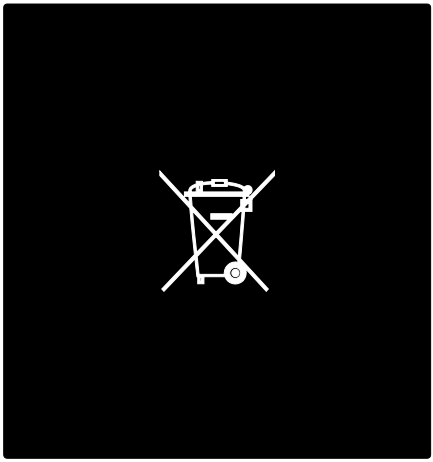


When this crossed-out wheeled bin symbol is attached to a product it means that the product is covered by the European Directive 2002/96/EC. Please inform yourself about the local separate collection system for electrical and electronic products.



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.



Green eco

This TV has been awarded the European Union Ecolabel for its environmental qualities.

A TV that is awarded the Ecolabel, contains the following green eco features that contribute to energy-efficient use:

Adjustable green eco settings

Access green eco settings while watching TV by pressing the green button on the remote control.

These green eco settings include:

- **Energy saving picture settings**: The **[Energy saving]** smart setting applies a combination of picture settings to reduce energy consumption.
- **Ambient light sensor**: To save energy, the built-in Ambient light sensor lowers the brightness of the TV screen when the surrounding light darkens.

- **Mute screen**: Turns off the TV display. Other functions, including sound, continue to operate normally. 'Muting' the screen saves energy if you just want to listen to audio from the TV.

See **Setup the TV > Change other settings > Green eco settings** (Page 29) for more information about these green eco settings.

Built-in green eco settings

- **Low standby power consumption**: The class-leading and highly-advanced power circuitry brings down the power consumption of the TV to an extremely low level, without losing out on the constant standby functionality.
- **Dedicated power switch**: Completely cut-off power to the TV with the dedicated power switch located on the bottom of the set.
- **Advanced power management**: The advanced power management of this TV ensures the most efficient use of its energy. To view how your personalized TV settings affect the TV's relative power consumption, press and select **[Setup] > [Watch demos] > [Active Control].**

We continually focus on lowering the environmental impact of our innovative consumer products. We aim our efforts towards making environmental improvements during manufacturing, including reduction of harmful substances, promoting energy-efficient use and providing information on end of use and product recycling.

Thanks to our environmental efforts, this TV is awarded the European Ecolabel.

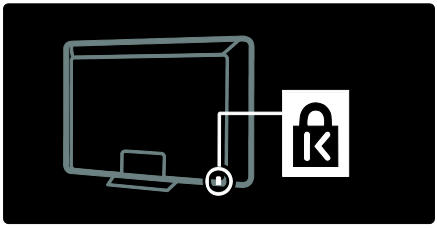
Find detailed information on standby energy consumption, warranty policy, spare parts and recycling of this TV at the Philips website for your country (http://www.philips.com/).

Information on end of use

To inform yourself on the correct disposal of this TV and batteries, see **Get started > Important > End of use** (Page 4).

Use a Kensington lock

Your TV is equipped with a Kensington security slot on the bottom of the TV. Purchase a Kensington anti-theft lock (not supplied) to secure the TV.



Enjoy HD TV

Full HD content

This TV can display full High-Definition (HD) video content. To enjoy HD content, you must connect your TV to an HD source.

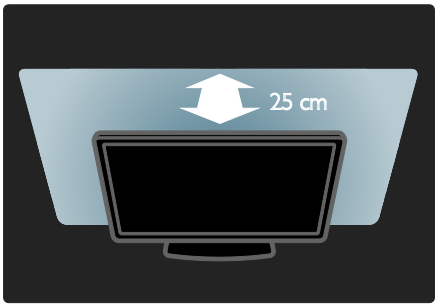
Contact your dealer for more information on where to obtain HD video content in your country.

Your TV can display HD video content from:

- a Blu-ray disc player, connected with a HDMI cable, playing a Blu-ray disc
- an upscaling DVD player, connected with a HDMI cable, playing a DVD disc
- an over-the-air HD broadcaster
- a digital HD receiver, connected with an HDMI cable, playing HD content from a cable or satellite operator
- a HD channel on your DVB-C network (if available in your city/region)
- a HD game console (for example, X-Box 360 or PlayStation 3), connected with an HDMI cable, playing a HD game

Position the TV

- Before positioning the TV, read all safety precautions. See **Get Started > Important > Safety** (Page 3).
- Position the TV where light does not shine directly on the screen.
- The ideal distance to watch TV from, is three times its diagonal screen size. For example, if the diagonal screen size of the TV is 116cm/46", the ideal viewing distance is ~3.5m/~138" from the front of the screen.
- While seated, your eyes should be level with the center of the screen.
- For best Ambilight effect, position the TV 25 cm away from the wall.



Wall mount the TV

To mount the TV, purchase a Philips TV mount or a compatible TV mount. Check your TV screen size and match it against the list for the type of wall mount to purchase:

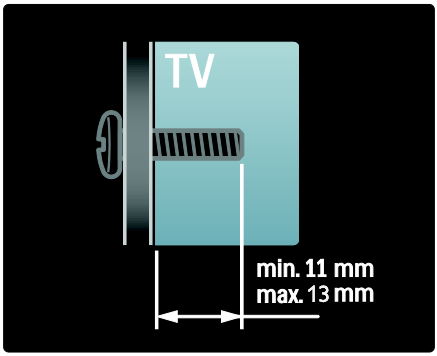
81cm/ 32 inches: 200mm x 300mm, M6
94cm/ 37 inches: 200mm x 200mm, M6
102cm/ 40 inches: 200mm x 200mm, M6
107cm/ 42 inches: 200mm x 200mm, M6
117cm/ 46 inches: 300mm x 300mm, M8
132cm/ 52 inches: 400mm x 400mm, M8

Warning: Follow all instructions provided with the TV mount. Koninklijke Philips Electronics N.V. bears no responsibility for improper TV mounting that results in accident, injury or damage.

To prevent damage to cables and connectors, be sure to leave a clearance of at least 5.5cm/2.2" from the back of the TV.

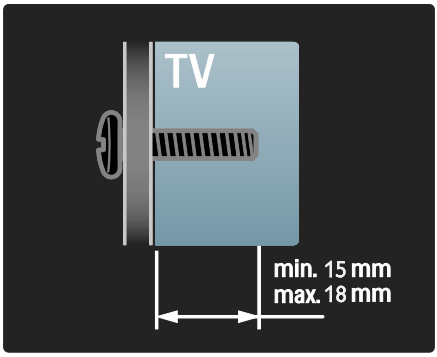
For 32 inch to 42 inch TVs:

Before you wall mount the TV, determine the correct length of the screw.
You can determine the length of the screw by adding the thickness of your wall mount to the screw length shown in the graphic.



For 46 inch to 52 inch TVs:

Before you wall mount the TV, determine the correct length of the screw.
You can determine the length of the screw by adding the thickness of your wall mount to the screw length shown in the graphic.



Product highlights

Full HD LCD display

This TV is equipped with a full High-Definition (HD) LCD display, supporting the maximum HD resolution of 1920x1080p.
This display offers a brilliant flicker-free progressive scan picture with optimum brightness and superb colours.

The LED backlight of the display offers exceptional picture contrast with exceptional energy saving.

Ambilight

Ambilight is the lighting technology that emanates from the back of the television onto the wall. This innovative technology automatically adjusts the colour and brightness of the light to match the TV picture.

This creates an unprecedented improvement in viewing experience. The light also reduces eyestrain thus providing a more relaxing viewing experience.
See **Use your TV > Use Ambilight** (Page 16).

Digital TV

In addition to normal analog TV broadcasts, your TV can receive digital broadcasts. Where available in some cities/regions, your TV can also receive digital cable (DVB-C) and digital radio broadcast.

DVB (Digital Video Broadcasting) gives you better picture and better sound quality. Some broadcasters also have several audio (speech) and/or teletext languages available with digital broadcast.

Programme guide (EPG)

Electronic Program Guide (EPG) is an on-screen guide available for digital channels. EPG allows you to:

- View a list of digital programs being broadcast
- View upcoming programs
- Group programs by genre

- Set reminders when programs start
- Set up preferred EPG channels

Notes:

- EPG is not available in all countries.
- For more information on EPG, see **Use more of your TV > Use EPG** (Page 19).

Multimedia

View or play your own multimedia files (such as photos, music and videos) from the USB connection on the side of the TV, or directly from your PC.

See **Use more of your TV > Access multimedia** (Page 20).

Access more information

On-screen

You are reading the on-screen user manual. This manual contains all of the information you need to install and use this TV. Access the user manual by selecting **[Help]** in the home menu.

Before carrying out instructions, temporarily close the user manual by pressing the yellow button on the remote control. Press the yellow button again to open the user manual onto the same page.

On the Internet

A printable PDF version of this user manual is available on the Internet. It contains the latest information and detailed feature explanations not covered in this on-screen user manual.

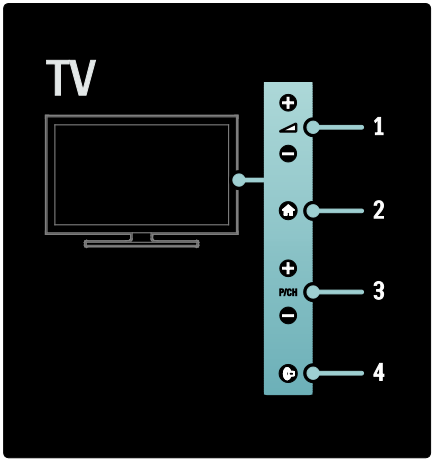
Access the PDF as well as other product information, including FAQs and firmware upgrades, at (http://www.philips.com/support).

2 Use your TV

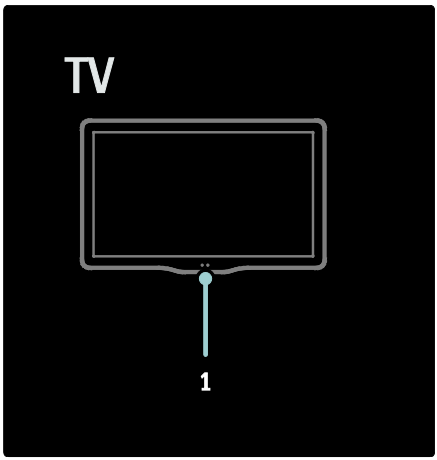
Overview

This section gives you an overview of commonly used TV controls and functions.

Side controls and indicators



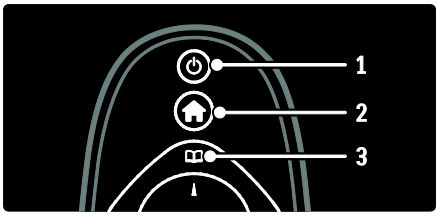
1. ◿ **+/-** : Increases or decreases volume. In home menu, these buttons allow you to move horizontally.
2. **:** Accesses the home menu. Press again to launch an activity in home menu..
3. P/CH +/- : Switches to the next or previous channel. In home menu, these buttons allow you to move vertically.
4. (**Ambilight**) : Switches Ambilight on or off. During TV standby, switches lounge light on or off.



1. Ambient sensor/ remote control sensor.

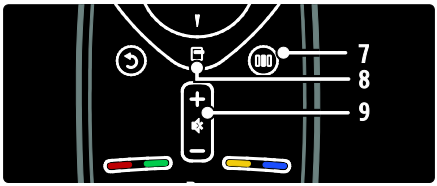
Remote control

Overview

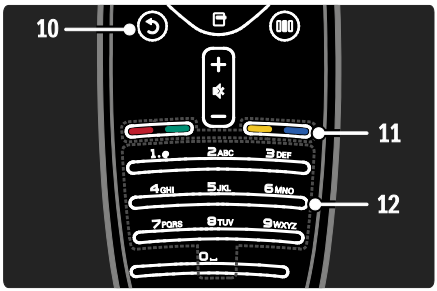


1. (**Standby**): Switches the TV to standby if it is on. Switches on the TV if it is in standby.
2. (**Home**): Accesses the home menu.
3. (**Browse**): Accesses the browse menu to select TV channel list, the Electronic Program Guide and teletext.

4. ▲▼◀▶ (**Navigation buttons**): Navigates menus and selects items.
5. ⏮⏭(**Previous/Next**): Switches channels. Also, skips through pages of a menu, and between tracks, albums or folders.
6. **OK**: Confirms an entry or selection.



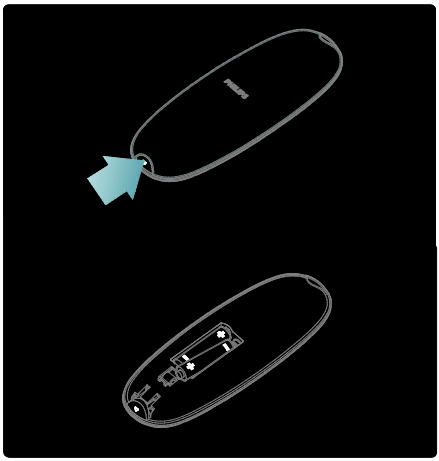
7. ▯▯▯ (**Experience**): Accesses the experience bar menu.
8. **(Options)**: Accesses options for the current activity or selection.
9. **+/-** (**Volume**) and (**Mute**): Increases or decreases volume; mutes or restores audio.



10. (**Back**): Returns to a previous menu screen.
11. **Color buttons**: Selects tasks or options.
12. **0-9** (**Numeric buttons**): Selects a channel or setting.

Batteries

Open the battery cover on the back of the remote control to insert the batteries (Type AAA-LR03-1.5V). Make sure the + and - ends of the batteries line up correctly (+ and - are marked inside).
Remove the batteries if you are not using the remote control for a long time. Dispose of batteries according to the end of use directives. Read **Get started > Important > End of use** (Page 4).



On-screen remote control

An On-Screen Remote Control (OSRC) is available, which gives you easy access to commonly-used functions. Availability of on-screen buttons differs according to your TV setup.

To access the OSRC

1. While watching TV or a connected device, press .
2. Select **[Show device keys]**, then press **OK**.
3. Use the **Navigation buttons** and **OK** to select and use an on-screen button.

Basic TV menus

Home

The home menu gives you easy access to connected devices, picture and sound settings, and other useful features.
1. Press .
2. Select an item in the home menu, then press **OK** to access the menu.
3. To exit the home menu, press or .

To start an activity, highlight the desired item with the **Navigation buttons** and press **OK**:

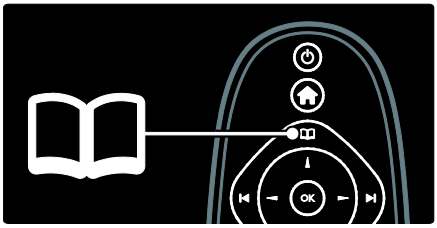
- **[Help]** Accesses the electronic user manual.
- **[Watch TV]** Switches back to the antenna source if another source is selected.
- **[Browse USB]** If a USB storage device is connected, accesses the content browser.
- **[Browse PC]** Accesses the content browser of the connected PC network. (Available on certain models only)
- **[Scenea]** Switches to the Scenea wallpaper.
- **[Add your devices]** Adds new devices to the home menu.
- **[Setup]** Accesses menus that allow you to change picture, sound and TV settings.

Browse

The browse menu gives you easy access to:

- Electronic program guide
- TV channel list
- Teletext

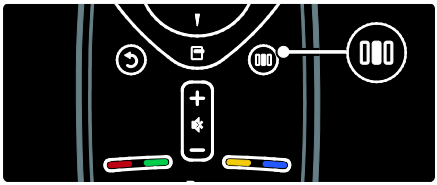
To access the browse menu, while watching TV, press .



1. Press the **Navigation buttons** to select an item:
   - **[Programme guide]**: Accesses the Electronic Program Guide.
   - **[Channel list]**: Accesses the TV channel list.
   - **[Text]**: Accesses teletext.
2. Press **OK** to confirm your choice.

Experience

Press to access the experience bar menu, which provides a range of frequently-used settings.



The experience bar menu gives you easy access to:

- **[Ambilight]**: Turns Ambilight on or off.
- **[Ambilight dynamic]**: Adjusts the speed of Ambilight response.
- **[Picture format]**: Changes the picture format.
- **[Smart picture]**: Frequently-used picture settings.
- **[Smart sound]**: Frequently-used sound settings.
- **[Speakers]**: Configure TV speakers for Philips EasyLink.
- **[Picture shift]**: Adjusts the position of the picture.

Channel list

The channel list displays the TV channels and possible radio stations installed on your TV.
1. While watching TV, press 🕮.
2. Select **[Channel list]**, then press **OK**.
3. Select a channel, then press **OK** to access the channel.
4. Press ↩ to exit the channel list without changing the channel.

Add your devices

After you connect a device to the TV, add this device in the home menu for easy access.

In the home menu, select **[Add your devices]**, then press **OK**. Follow the instructions on-screen to add the device to the home menu.

To remove a device from the home menu, select the item, press ☐ and select **[Remove this device]**. Press **OK**.

Setup

[Setup] in the home menu allows you to change most of the TV settings, including:

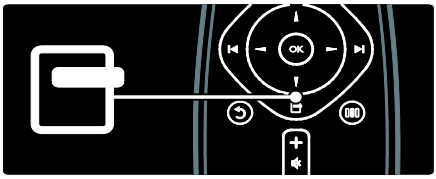
- Picture or sound settings
- Installation or update of TV channels
- Update of TV software
- Other special features

1. In the home menu, select **[Setup]**, then press **OK**.
2. Select an item with the **Navigation buttons**, then press **OK**:

- **[Quick picture and sound settings]**: Guides you through picture and sound settings.
- **[TV settings]**: Advanced picture and sound settings.
- **[Search for channels]**: Guides you through channel installation.
- **[Channel settings]**: Advanced channel settings.
- **[Connect to network]**: Guides you through the connection to your PC network. Available on certain models only.
- **[Network settings]**: Advanced network settings. Available on certain models only.
- **[Update software]**: Guides you through an update of the TV software.
- **[Software settings]**: Advanced TV update settings.
- **[Watch demos]**: Demos of special features available with the TV.

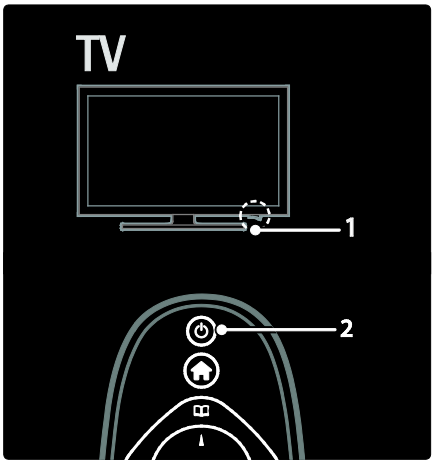
Options

Option menus offer convenient settings related to what is on-screen.
1. Press ☐ to see what options are available.
2. To exit, press ☐ again.



Watch TV

Switch on/off or to standby



To switch on

- If the front LED indicator is off, press the power switch (**1**) on the bottom of the TV to the ' | ' position.
- If the front LED indicator is red, press ⏻ on the remote control (**2**). Alternatively, switch on the TV from standby by pressing any key on the side of the TV.

Notes:

- The front LED indicator does not turn on when the TV is switched on.
- The TV requires some time to start up. During this time, the TV will not respond to the remote control or side controls. This is normal behavior.

To switch to standby

Press ⏻ on the remote control. The front LED indicator switches to red.

To switch off

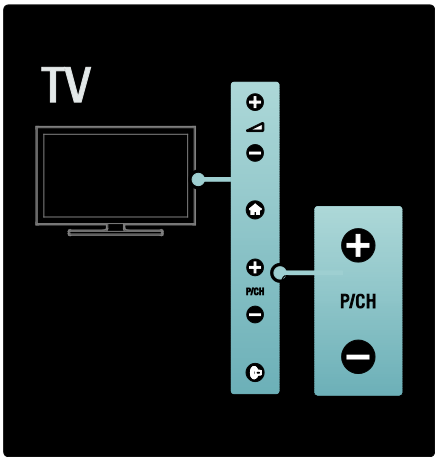
Press the power switch on the bottom of the TV to the '**o**' position. The TV switches off.

Though your TV consumes very little power when in standby, energy continues to be consumed. When not in use for an extended period of time, switch off the TV using the power switch on the bottom of the set.

Tip: If you cannot locate your remote control and want to switch on the TV from standby, press **P/CH +/-** on the side of the TV.

Switch channels

- Press ⏮ ⏭ on the remote control or **P/CH +/-** on the side of the TV.



- Press 🕮, then select **[Channel list]** to use the channel list.
- Press ↩ to return to the previously-viewed channel.
- Enter a channel number using the **Numeric buttons**.

To view analog or digital channels only

*Digital channels are available depending on your city/region of residence.

Filter the channel list to access analog or digital channels only.

1. In the channel list, press ☰.
2. Select **[Select list]** > **[Analogue]** or **[Digital]**, then press **OK**.

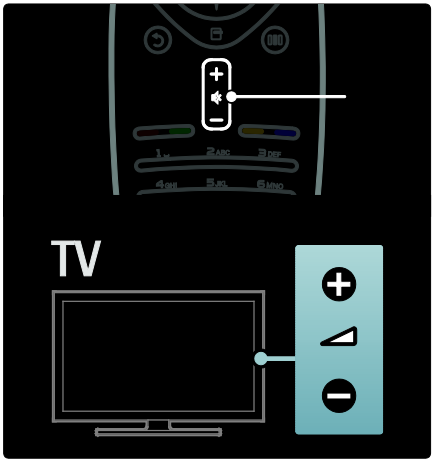
Depending on your selection, only digital or analog channels become available.

Adjust volume

To increase or decrease volume

- Press **+/-** on the remote control.

- Press +/- on the side of the TV.



To mute or unmute sound

- Press to mute the sound.
- Press again to restore the sound.

Use the **[Sound]** menu to adjust headphone volume. For more information, see **Setup the TV > Change picture and sound settings > More sound settings** (Page 25).

Use Smart picture settings

Use the **[Smart picture]** experience bar to access frequently-used picture settings.
1. While watching TV, press .
2. Select **[Smart picture]**, then select one of the following settings:

- **[Personal]**: Sets the TV to your personal preferences set in the **[Picture]** menus in **[Setup]**.
- **[Vivid]**: Rich and dynamic settings, ideal for daylight use.
- **[Natural]**: A natural picture setting.
- **[Cinema]**: Ideal settings for watching movies.
- **[Game]**: Ideal settings for gaming.
- **[Energy saving]**: The most energy conscious settings.
- **[Standard]**: Adjusts picture settings to suit most environments and types of video. Factory default settings.
- **[Photo]**: Ideal settings for viewing photos.
- **[Custom]**: Allows you to customize and store personal picture settings.

3. Press **OK** to confirm your choice.
4. Press to exit.

Use Smart sound settings

Use the **[Smart sound]** experience bar to access frequently-used sound settings.
1. While watching TV, press .
2. Select **[Smart sound]**, then select one of the following settings:

- **[Personal]**: Sets the TV to your personal preferences set in the **[Sound]** menus in **[Setup]**.
- **[Standard]**: Adjusts sound settings to suit most environments and types of audio.
- **[News]**: Applies sound settings ideally suited for spoken audio, such as the news.
- **[Movie]**: Applies sound settings ideally suited for movies.
- **[Game]**: Ideal settings for gaming.
- **[Drama]**: Applies sound settings ideally suited for drama.
- **[Sports]**: Applies sound settings ideally suited for sports.

3. Press **OK** to confirm your choice.
4. Press to exit.

Change picture format

Change the picture format to suit your viewing experience.
1. Press (**Experience**).
2. Select a picture format, then press **OK** to confirm your choice.

Note: Picture formats are also accessible via the **[Setup]** menu.

The following picture formats can be selected:

- **[Auto fill]**: Adjusts the picture to fill the screen (subtitles remain visible). Recommended for minimal screen distortion but not for HD or PC.

- **[Auto zoom]**: Enlarges the picture to fill the screen. Recommended for minimal screen distortion but not for HD or PC.
- **[Super zoom]**: Removes the black bars on the sides of 4:3 broadcasts. Not recommended for HD or PC.
- **[Movie expand 16:9]**: Scales the classic 4:3 format to 16:9. Not recommended for HD or PC.
- **[Wide screen]**: Stretches the classic 4:3 format to 16:9.
- **[Unscaled]**: Provides maximum detail for PC. Only available when **[PC mode]** is enabled in the **[Picture]** menu.

Watch a connected device

Add new device

Notes:

- Before watching a connected device, you must add it to the home menu.
- HDMI ARC compliant devices connected to the **HDMI ARC** connector on the TV are automatically added to the home menu.

1. Connect and switch on the device.
2. Press .
3. Select **[Add your devices]**, then press **OK**. Follow the on-screen instructions.

Watch connected device

1. Press .
2. Select the device from the home menu.
3. Press **OK** to confirm your choice.

Use Ambilight

Switch on Ambilight

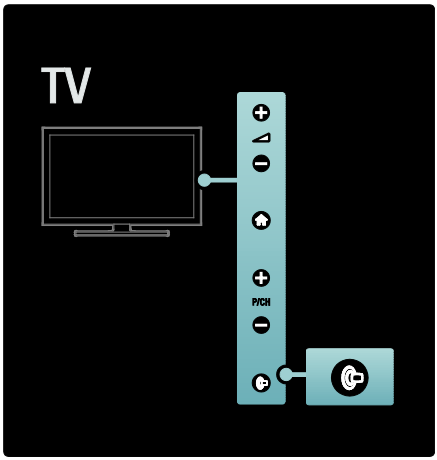
Enjoy a more relaxed viewing experience and improved perceived picture quality. Dim the lighting conditions in the room for the best Ambilight effect.

Caution

To avoid bad infrared remote control reception, place your devices out of sight of Ambilight.

1. Press (**Experience**).
2. Select **[Ambilight]**, then press **OK**.
3. To switch Ambilight on or off, select **[On]** or **[Off]**.

You can also press on the TV to switch Ambilight on or off.



Setup Ambilight

In the Ambilight menu, you can access more Ambilight settings.

While watching TV, press > **[Setup]** > **[TV settings]** > **[Ambilight]**.

Select a setting to adjust:

- **[Dynamic]**: Adjusts Ambilight between relaxed and dynamic levels. Available only if Ambilight **[Colour]** is set to **[Dynamic]**.
- **[Brightness]**: Adjusts the brightness of Ambilight.
- **[Colour]**: Selects a predefined color.
- **[Custom colour]**: Set your own Ambilight colour. To access this option, set **[Ambilight]** > **[Colour]** > **[Custom]**.

- **[Separation]**: Adjusts the difference in color levels between each side of the TV. Turn off this feature for a dynamic and uniform Ambilight color.
- **[TV switch off]**: Selects how Ambilight switches off when the TV is switched off.
- **[Lounge light mood]**: Selects a lounge light mode. This setting is applied when lounge light is enabled in standby mode.
- **[Scenea lounge light]**: Switch on or off Scenea lounge light when Scenea is enabled.
- **[Wall colour]**: Selects a color to match the wall color. Ambilight will correct its colours to mix best with the colour of the wall behind the TV.

Set Ambilight response

Before you can adjust the speed of Ambilight response, press ⌂ > **[Setup]** > **[TV settings]** > **[Ambilight]** > **[Colour]** > **[Dynamic]**.

Set the speed which Ambilight responds to on-screen images.

1. Press ||| (**Experience**).
2. Select **[Ambilight dynamic]**, then press **OK**.
3. Move the slider to set Ambilight responsiveness.
4. Press ↩ to exit the slider.
5. Press **OK** to confirm your choice.

Use lounge light

When the TV is on standby, you can switch on Ambilight and create a lounge light effect in your room.
During TV standby, press ⏻ on the side of the TV.

Note: It may take more than 5 seconds for the lounge light to switch on.

To select another lounge light colour, see **Use your TV > Use Ambilight > Setup Ambilight** (Page 16).

3 Use more of your TV

Use teletext

Select a page

1. Press .
2. Select **[Text]**, then press **OK**.
3. Select a page by:
- Entering the page number with the **Numeric buttons**.
- Pressing ▲ ▼ or ◀◀ ▶▶ to view the next or previous page.
- Pressing the **Color buttons** to select a color coded item.

4. Press ↩ to exit teletext.

Access teletext options

1. When in teletext, press .
2. Select an option:
- **[Freeze page]** / **[Unfreeze page]**: Freezes or unfreezes the current page.
- **[Dual screen]** / **[Full screen]**: Enables or disables dual screen teletext, which splits the current channel or source to the left of the screen, with teletext on the right.
- **[T.O.P. overview]**: Table Of Pages (T.O.P.) teletext broadcasts allow you to jump from one subject to another without using page numbers.
- **[Enlarge]** / **[Normal view]**: For more comfortable reading, you can enlarge the teletext page. Press the **Navigation buttons** to move around the enlarged screen.
- **[Reveal]**: Hides or reveals hidden information on a page, such as solutions to riddles or puzzles.
- **[Cycle subpages]**: Cycles through subpages automatically if subpages are available.
- **[Language]**: Switches to a different language group to display a language correctly when that language uses a different character set.

3. Press to exit the options menu.

Select a teletext language

Some digital TV broadcasters have several teletext languages available. You can set your primary and secondary language.

1. Press .
2. Select **[Setup]** > **[Channel settings]** > **[Languages]** > **[Primary Text]** or **[Secondary Text]**.
3. Select your preferred teletext languages, then press **OK**.

Select subpages

A teletext page number can hold several subpages. These subpages are shown on a bar next to the main page number.

When available on a teletext page, press ◀ or ▶ to select subpages.

Search teletext

1. When in teletext, press **OK** to highlight the first word or number.
2. Press the **Navigation buttons** to skip to the word or number to search.
3. Press **OK** to begin the search.
4. Press ▲ until no word or number is highlighted to exit the search.

Use digital teletext

Some digital TV broadcasters offer dedicated digital text or interactive services on their digital TV channels. This feature is available on certain models only. When in digital teletext:
- Press the **Navigation buttons** to select or highlight items.
- Use the **Color buttons** to select an option, then press **OK** to confirm or activate.

Note: Digital text services are blocked when subtitles are broadcast and **[Subtitles]** are enabled. Read **Use more of your TV > Use subtitles** (Page 20).

Use Teletext 2.5

Teletext 2.5 offers more colors and better graphics than normal teletext. If Teletext 2.5 is broadcast by a channel, it is switched on by default.

To switch Teletext 2.5 on or off

1. Press .
2. Select **[Setup]** > **[TV settings]** > **[Preferences]** > **[Text 2.5]** > **[On]** or **[Off]**, then press **OK**.

Favorite channels

Add or remove channels

1. Press .
2. Select **[Channel list:]**, then press **OK**.
3. Press .
4. Select **[Mark as favourite]** or **[Unmark as favourite]**, then press **OK**.

A star appears in the channel grid, indicating that the channel is added to the favorite list. The star disappears if you remove the channel from the favorite list.

Select a favorite list

View only channels in a favorite list, or view all channels if a favorite list is currently selected.

1. In the channel list, press .
2. Select **[Select list]** > **[Favourites]** to display channels in a favorite list; or **[All]** to display all channels.
3. Press **OK** to confirm your choice.

Use EPG

Overview

The Electronic Program Guide (EPG) is an on-screen guide available for digital channels. EPG allows you to:

- View a list of digital programs being broadcast
- View upcoming programs
- Group programs by genre
- Set reminders when programs start
- Setup preferred EPG channels

Note: EPG is not available in all countries.

Switch on EPG

1. Press .
2. Select **[Programme guide]**, then press **OK**.

EPG options

Use the EPG options menu to set or clear reminders, change day and access other useful EPG options. Depending on the broadcast service, these options are available only for seven or eight days.

1. When in EPG, press .
2. Press the **Navigation buttons** and **OK** to select and adjust one of the following settings:

- **[Change day]**: Set EPG day. Select **[Today]**, **[Next day]** or **[Previous day]**.
- **[More info]**: Views program information.
- **[Search by genre]**: Searches TV programs by genre.
- **[Update Programme guide]**: Updates the latest program information.

Use timers and locks

Sleeptimer

Sleeptimer switches the TV to standby after a pre-defined period of time. You can always switch off your TV earlier or reset the sleeptimer during the countdown.

1. Press .
2. Select **[Setup]** > **[TV settings]** > **[Preferences]** > **[Sleeptimer]**.

3. Press the **Navigation buttons** to set the sleeptimer. The sleeptimer can be set up to 180 minutes, in steps of five minutes. The sleeptimer is switched off if it is set to zero minutes.

4. Press **OK** to activate the sleeptimer. The TV switches to standby after the set period of time.

Child lock

To prevent children from watching TV, you can lock the TV or block age rated programmes.

Set or change the child lock code

1. Press .
2. Select **[Setup]** > **[Channel settings]** > **[Child lock]**.
3. Select **[Set code]** or **[Change code]**.
4. 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 lock]**.
2. Enter the child lock code with the **Numeric buttons**. The **[Channel lock]** menu appears.
3. Select channels to lock or unlock.

Parental rating

Some digital broadcasters rate their programs according to age. You can set your TV to display only programs with age ratings higher than your child's age.

1. Press .
2. Select **[Setup]** > **[Channel settings]** > **[Child lock]** > **[Parental rating]**. A message appears prompting you to enter the child lock code.
3. Enter the child lock code with the **Numeric buttons**.
4. Select an age rating, then press **OK**. All programs beyond the selected age rating are blocked.

For information on child lock codes, see **Use more of your TV > Use timers and locks > Child lock** (Page 20).

Use subtitles

On analog channels

1. Switch the TV to an analog TV channel.
2. Press , then select **[Text]** and press **OK**.
3. Enter the three number page number of the subtitles page (usually '888').
4. Press to exit teletext. Subtitles display if available.

On digital channels

1. While watching TV, press .
2. Select **[Subtitles]**, then press **OK**.
3. In the menu that appears, select **[Off]**, **[On]** or **[On during mute]**, then press **OK**.

Note: With **[On during mute]**, the TV displays subtitles only when the sound is muted with .

Access multimedia

Browse USB

You can view photos or play music and videos on TV from a USB storage device.

Caution: Philips is not responsible if the USB storage device is not supported nor is it responsible for damage or loss of data from the device.

You can access the USB content browser using one of the following methods:

- When watching TV, connect the USB device to the USB port on the side of your TV.
- 1. Press .
  2. Select **[Browse USB]**, then press **OK**.

View slideshow

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

- To pause or stop playback, press **OK** again.
- To jump to the previous or next file, press or .
- Press to exit content browser.

Press ☐ to access or exit the following settings:

- **[Show info]**: Displays the file information.
- **[Stop]**: Stops slideshow.
- **[Rotate]**: Rotates the file.
- **[Repeat]**: Repeats the slideshow.
- **[Play once]**: Plays the file once.
- **[Shuffle off]** / **[Shuffle on]**: Enables or disables random display of pictures in the slideshow.
- **[Slideshow speed]**: Sets the display time for each picture in the slideshow.
- **[Slideshow transition]**: Sets the transition from one picture to the next.
- **[Set as Scenea]**: Sets the selected picture as wallpaper on TV.

Listen to music

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

- Press ◄ / ► to fast rewind or fast forward a track.
- Press ↩ to exit content browser.

Press ☐ to access or exit the following settings:

- **[Stop]**: Stops audio playback.
- **[Repeat]**: Repeats a song or an album.
- **[Play once]** Plays the file once.
- **[Shuffle on]** / **[Shuffle off]**: Enables or disables random play of songs.

Watch video

Press the **Navigation buttons** to select a video file, then press **OK.**

- Press ◄ or ► to rewind or fast forward a file.
- Press ↩ to exit the content browser.

During video playback, press ☐ to access the following settings:

- **[Stop]**: Stops playback.
- **[Repeat]**: Repeats a video.
- **[Shuffle on]** / **[Shuffle off]**: Enables or disables random play of videos.

Browse PC

*This feature is available on certain models only.

View photos, play music and watch videos on TV from a PC or another storage device in your home network.

To browse your PC network, first set up the network connection, see **Setup the TV** > **Set up network**.

If the network is not installed the first time you access **[Browse PC]**, the network installation starts. Follow the on screen instructions.

To access the PC network:

In the home menu, select **[Browse PC]**, then press **OK**.

With the PC and router switched on, the TV displays the multimedia server content from your PC. With the PC content list open on screen, select the file you want to play and press **OK**.

A song, a slideshow of photos or a video starts playing.

View slideshow

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

- To pause or stop playback, press **OK** again.
- To jump to the previous or next file, press ⏮ or ⏭.
- Press ↩ to exit content browser.

Press ☐ to access or exit the following settings:

- **[Show info]**: Displays the file information.
- **[Stop]**: Stops slideshow.
- **[Rotate]**: Rotates the file.
- **[Repeat]**: Repeats the slideshow.
- **[Play once]**: Plays the file once.
- **[Shuffle off]** / **[Shuffle on]**: Enables or disables random display of pictures in the slideshow.
- **[Slideshow speed]**: Sets the display time for each picture in the slideshow.

- **[Slideshow transition]**: Sets the transition from one picture to the next.
- **[Set as Scenea]**: Sets the selected picture as wallpaper on TV.

Listen to music

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

- Press ◄ / ► to fast rewind or fast forward a track.
- Press ↩ to exit content browser.

Press ☐ to access or exit the following settings:

- **[Stop]**: Stops audio playback.
- **[Repeat]**: Repeats a song or an album.
- **[Play once]** Plays the file once.
- **[Shuffle on]** / **[Shuffle off]**: Enables or disables random play of songs.

Watch video

Press the **Navigation buttons** to select a video file, then press **OK.**

- Press ◄ or ► to rewind or fast forward a file.
- Press ↩ to exit the content browser.

During video playback, press ☐ to access the following settings:

- **[Stop]**: Stops playback.
- **[Repeat]**: Repeats a video.
- **[Shuffle on]** / **[Shuffle off]**: Enables or disables random play of videos.

Listen to digital radio

If digital broadcasting is available, digital radio channels are installed automatically during installation.

1. While watching TV, press 🕮.
2. Select **[Channel list:]**, then press **OK**.
3. In the channel list, press ☐.
4. Select **[Select list]** > **[Radio]**, then press **OK**.
5. Select a radio channel, then press **OK**.

Use Scenea

Activate Scenea

You can use Scenea to display a picture as wallpaper on your TV. Make sure that the location of your TV is set to **[Home]** mode.

1. Press ⌂.
2. Select **[Scenea]** , then press **OK**.

The default or pre-loaded picture is displayed.

Note: If the sleeptimer is off, the wallpaper is displayed for 240 minutes. Otherwise, it is displayed for the duration of the sleeptimer. For more information on the sleeptimer, see **Use more of your TV > Use timers and locks > Sleeptimer** (Page 19).

Set a picture as Scenea

Note: The file size of the picture must not be more than 1MB.

1. Connect the USB storage device to the TV.
2. Press ⌂.
3. Select **[Browse USB]**, then press **OK**.
4. Select a picture, then press ☐.
5. Select **[Set as Scenea]**, then press **OK**.
6. Select **[Yes]**, then press **OK**.
7. Press any key to exit Scenea.

Universal access

Enable universal access

Where supported by your digital TV broadcaster, this TV allows special audio and subtitles for the hearing impaired, as well as special audio for the visually impaired.

To enable these features, you must turn on universal access in the **[Preferences]** menu.

1. Press ⌂.
2. Select **[Setup]** > **[TV settings]** > **[Preferences]** > **[Universal access]** > **[On]**, then press **OK**.

Hearing impaired

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

To switch on hearing impaired audio and subtitles (if available)

1. While watching TV, press .
2. Press the red button to select **[Hearing impaired]**.
3. Press the green button to switch on hearing impaired audio and subtitles, press the red button to switch it off.
4. Press to exit.

Tip: To verify whether a hearing impaired audio language is available, press and select **[Audio language]**. Languages with an ear icon indicate hearing impaired support.

Visually impaired

Some digital TV channels broadcast special audio adapted for people who are visually impaired. The normal audio is mixed with extra commentary.

To switch on visually impaired audio (if available)

1. While watching TV, press .
2. Press the green button to select **[Visually impaired]**.
3. Use the following buttons to select:
   - **Red** - **[Off]**: Turn off visually impaired audio.
   - **Yellow** - **[Headphones]**: Hear visually impaired audio from headphones only.
   - **Green** - **[Speakers]**: Hear visually impaired audio from speakers only.
   - **Blue** - **[Speakers + headphones]**: Hear visually impaired audio from speakers and headphones only.
4. Press to exit.

Note: The green and yellow buttons are not applicable if EasyLink Remote Control is enabled. For more information, see **Connect the TV > Use Philips EasyLink > EasyLink features** (Page 45).

Tip: To verify whether visually impaired audio is available, press and select **[Audio language]**. Languages with an eye icon indicate visually impaired support.

Adjust volume for the visually impaired

1. In the **[Universal access]** menu, press the yellow button to select **[Mixed volume]**.
2. Press the **Navigation buttons** to move the slider up or down, then press **OK**.
3. Press to exit.

Audio feedback for the visually impaired

This feature enables audio feedback when buttons are pressed on the remote control or TV.

1. In the **[Universal access]** menu, press the blue button to select **[Key beep]**.
2. Press the green button to turn on audio feedback or press the red button to turn it off.
3. Press to exit.

4 Setup the TV

Change picture and sound settings

Settings assistant

Use the settings assistant to guide you through the picture and sound settings.

1. While watching TV, press .
2. Select **[Setup]** > **[Quick picture and sound settings]**, then press **OK**.
3. Select **[Start]**, then press **OK**.

Follow the on-screen instructions to choose your preferred settings.

Smart picture settings

Use the **[Smart picture]** experience bar to access frequently-used picture settings.

1. While watching TV, press .
2. Select **[Smart picture]**, then select one of the following settings:

- **[Personal]**: Sets the TV to your personal preferences set in the **[Picture]** menus in **[Setup]**.
- **[Vivid]**: Rich and dynamic settings, ideal for daylight use.
- **[Natural]**: A natural picture setting.
- **[Cinema]**: Ideal settings for watching movies.
- **[Game]**: Ideal settings for gaming.
- **[Energy saving]**: The most energy conscious settings.
- **[Standard]**: Adjusts picture settings to suit most environments and types of video. Factory default settings.
- **[Photo]**: Ideal settings for viewing photos.
- **[Custom]**: Allows you to customize and store personal picture settings.

3. Press **OK** to confirm your choice.
4. Press to exit.

More picture settings

1. Press .
2. Select **[Setup]** > **[TV settings]** > **[Picture]**, then press **OK**.
3. Select a setting to adjust:

- **[Smart picture]**: Accesses pre-defined smart picture settings.
- **[Reset]**: Resets to factory default settings.
- **[Contrast]**: Adjusts the intensity of bright areas, keeping dark areas unchanged.
- **[Brightness]**: Adjusts the intensity and details of dark areas.
- **[Colour]**: Adjusts color saturation.
- **[Hue]**: Compensates color variations in NTSC encoded transmissions.
- **[Sharpness]**: Adjusts sharpness in the image.
- **[Noise reduction]**: Filters and reduces noise in an image.
- **[Tint]**: Adjusts the color balance in an image.
- **[Custom tint]**: Customizes tint setting.
- **[Pixel Precise HD]** : Accesses advanced settings, including **[HD Natural Motion]**, **[100 Hz Clear LCD]**, **[Advanced sharpness]**, **[Dynamic contrast]**, **[Dynamic backlight]**, **[MPEG artefact reduction]**, **[Colour enhancement]**, **[Gamma]**.
- **[PC mode]**: Enabled by default if you select **[Computer]** in the home menu. If enabled, you can select **[Picture format]** > **[Unscaled]** which provides maximum detail for display of PC content. If a PC is connected via HDMI or VGA, this option is enabled by default.
- **[Light sensor]**: Enables dynamic adjustment of the screen display to match lighting conditions.
- **[Picture format]**: Changes the picture format.

- **[Screen edges]**: Changes the picture size.
- **[Picture shift]**: Adjusts the position of the picture.

Smart sound settings

Use the **[Smart sound]** experience bar to access frequently-used sound settings.
1. While watching TV, press .
2. Select **[Smart sound]**, then select one of the following settings:
- **[Personal]**: Sets the TV to your personal preferences set in the **[Sound]** menus in **[Setup]**.
- **[Standard]**: Adjusts sound settings to suit most environments and types of audio.
- **[News]**: Applies sound settings ideally suited for spoken audio, such as the news.
- **[Movie]**: Applies sound settings ideally suited for movies.
- **[Game]**: Ideal settings for gaming.
- **[Drama]**: Applies sound settings ideally suited for drama.
- **[Sports]**: Applies sound settings ideally suited for sports.

3. Press **OK** to confirm your choice.
4. Press to exit.

More sound settings

1. Press .
2. Select **[Setup]** > **[TV settings]** > **[Sound]**, then press **OK**.
3. Select a setting to adjust:
- **[Smart sound]**: Accesses pre-defined smart sound settings.
- **[Reset]**: Resets to factory default settings.
- **[Bass]**: Adjusts the bass level.
- **[Treble]**: Adjusts the treble level.
- **[Surround]**: Enables spatial sound.
- **[Headphones volume]**: Adjusts headphone volume.
- **[Auto volume leveling]**: Automatically reduces sudden volume changes, for example, when switching channels.
- **[Balance]**: Adjusts the balance of the left and right speakers to best suit your listening position.

Reset to factory settings

Resetting your TV to factory settings restores default picture and sound settings. Channel installation settings remain the same.

1. While watching TV, press .
2. Select **[Setup]** > **[TV settings]** > **[Factory settings]**, then press **OK**.
TV settings are reset back to the factory default.

Start a TV demo

Start a demo to find out more about your TV's features.
Note: Demos are not supported on MHEG channels.

1. While watching TV, press .
2. Select **[Setup]** > **[Watch demos]**, then press **OK**.
3. Select a demo, then press **OK**.
4. Press to exit the demo.

Change channel settings

Reorder channels

After installation, you may want to reorder the channel list to suit your preference.
1. While watching TV, press .
2. Select **[Channel list]**, then press **OK**.
3. In the channel list, press .
4. Select **[Reorder]**, then press **OK**.
5. Select the channel to reorder, move it to the desired location, then press **OK**.
6. Select **[Insert]** to insert the channel into the desired location, **[Swap]** to swap location with another channel or **[Cancel]** to cancel the reorder.
7. Press **OK** to activate.

Rename channels

*This feature is available in some languages only.
After installation, you may want to rename channels to suit your preference.
1. While watching TV, press .
2. Select **[Channel list]**, then press **OK**.
3. In the channel list, press .
4. Select **[Rename]**, then press **OK**.
5. In the entry screen that appears, press the **Navigation buttons** or **Numeric buttons** to edit the name, then press **OK**.
6. Once complete, press the **Navigation buttons** to select **[Done]**.
- To clear the entry, select **[Clear]**.
- To cancel, select **[Cancel]**.

7. Press **OK** to confirm your choice.
8. Press to exit.

Hide or unhide channels

Hide channels

Hide channels from the channel list, to prevent unauthorized access.
1. While watching TV, press .
2. Select **[Channel list]**, then press **OK**.
3. In the channel list, select the channel to hide, then press .
4. Select **[Hide channel]**, then press **OK**.
The channel is hidden.

Unhide channels

1. While watching TV, press .
2. Select **[Channel list]**, then press **OK**.
3. In the channel list, press .
4. Select **[Show hidden channels]**, then press **OK**. Hidden channels appear in the channel list, but without channel information displayed.
5. Select the channel to unhide, then press .
6. Select **[Unhide channel]**, then press **OK**.

Repeat steps 5 and 6 to unhide other channels.

Update channel list

When the TV was switched on for the first time, a full installation of channels was performed. You can set the TV to add or remove digital channels automatically. You can also manually start the channel update.
*Digital channels are available depending on your city/region of residence.

Automatic update

To set the TV to update digital TV channels automatically, leave the TV in standby mode. Once a day, the TV updates earlier found channels and stores new channels. Empty channels are removed from the channel list.

If a channel update is performed, a message appears at startup.
If you do not want this message to appear
1. Press .
2. Select **[Setup]** > **[Channel settings]** > **[Channel installation]** > **[Channel update message]** > **[Off]**, then press **OK**.
- **To disable automatic updates**
  In the **[Channel installation]** menu, select **[Automatic channel update]** > **[Off]**.

Manual update

Update channels yourself at any time using the manual update.

1. In the **[Channel installation]** menu, select **[Automatic installation]**, then press **OK**.
2. Start the update and select **[Update channels]**. The update may take a few minutes.

Other options

Select audio language

If the TV channel has multiple or dual sound broadcast, you can select the preferred audio language.

1. While watching TV, press .
- **[Audio language]**: Select the audio language for digital channels.
- **[Dual I-II]**: Select the audio language for analog channels.

Select video stream (for DVBS channel only)

If available, you can view different video stream of the channel. (depending on broadcast service provider)

1. While watching TV, press .
2. Select **[Video selection]** to view the various selection.

Install channels

Automatic install

When the TV was switched on for the first time, a full installation of channels was performed. You can redo this full installation again to set your language, country and install all available TV channels.

1. Press .
2. Select **[Setup]** > **[Search for channels]**, then press **OK**.

3. Follow the on-screen instructions to complete the channel installation.
4. Once complete, select **[Finish]**, then press **OK**.

Tip: Press to see the channel list.

Notes

- During installation, leave **[Settings]** unchanged unless your digital provider provides you with the specific values to enter.
- When digital TV channels are found, the list of installed channels may display empty channel numbers. You can rename, reorder or uninstall these channels.

Install analog channels

This section describes how to search and store analog TV channels manually.

Step 1: Select your system

Note: Skip this step if your system settings are correct.

1. While watching TV, press .
2. Select **[Setup]** > **[Channel settings]** > **[Channel installation]** > **[Analogue: Manual installation]** > **[System]**, then press **OK**.
3. Select the system for your city, region or country, then press **OK**.

Step 2: Search and store new TV channels

1. In the **[Analogue: Manual installation]** menu, select **[Find channel]**, then press **OK**.

2. Press:

- The **Navigation buttons** or **Numeric buttons** to manually enter the channel frequency.
- The **Navigation buttons** to select **[Search]**. Press **OK** to automatically search for the next channel.

3. When the correct channel frequency is entered, select **[Done]**, then press **OK**.

4. Select **[Store current channel]** to store the fine tuned channel using the current channel number, or select **[Store as new channel]** to store it as a new channel number.

Fine tune analog channels

If the reception of an analog TV channel is poor, try fine tuning the TV channel.

1. Press .
2. Select **[Setup]** > **[Channel settings]** > **[Channel installation]** > **[Analogue: Manual installation]** > **[Fine tune]**, and then press **OK**.

3. Press ▲ or ▼ to fine tune the channel.

4. When the correct channel frequency is selected, select **[Done]**, and then press **OK**.
5. Select **[Store current channel]** to store the fine tuned channel under the current channel, or select **[Store as new channel]** to store under a new channel number.

Install digital channels

If you can receive digital TV broadcasts (DVB), you can manually install digital channels.

1. Press .
2. Select **[Setup]** > **[Channel settings]** > **[Channel installation]** > **[Digital: Reception test]** > **[Search]**, then press **OK**.
3. Press the **Navigation buttons** or **Numeric buttons** to manually enter the channel frequency, then press **OK**.
4. When complete, select **[Store]** and press **OK**.
5. Press (**Back**) to exit the menu.

Change language settings

Audio, subtitle, teletext languages

Digital TV channels may stream several audio, subtitle and teletext languages with a broadcast. Set preferred languages when multiple languages are available. This feature is available on certain models only.

1. Press .
2. Select **[Setup]** > **[Channel settings]** > **[Language]**.
3. Select one of the following settings, then press **OK**:

Digital TV channels may stream several audio, subtitle and teletext languages with a broadcast. Set preferred languages when multiple languages are available.

1. Press .
2. Select **[Setup]** > **[Channel settings]** or **[Satellite settings]** > **[Language]**.
3. Select one of the following settings, then press **OK**:

- **[Primary audio]** / **[Secondary audio]**: Selects the available audio language for digital channels.
- **[Primary subtitles]** / **[Secondary subtitles]**: Selects the available subtitle language for digital channels.
- **[Primary Text]** / **[Secondary Text]**: Selects the available teletext for digital channels.
- **[Hearing impaired]**: Enables or disables hearing impaired subtitles.
- **[Visually impaired]** (UK only): Selects the device for audio output.
- **[Volume - Visually impaired]** (UK only): Adjusts the volume of the visually impaired audio.
- **[Preferred audio format]**: Select **[Standard]** to receive standard audio format (MPEG). Select **[Advanced]** to receive advanced audio formats (AAC, EAC-3 or AC-3 if available).
- **[Mono/Stereo]**: Select **[Mono]** or **[Stereo]** if stereo broadcasting is available.

4. Press to exit.

Tip: Set a secondary language in the same menu. You receive this language if the primary language is unavailable.

Menu language

1. While watching TV, press .
2. Select **[Setup]** > **[TV settings]** > **[Preferences]** > **[Menu language]**.
3. Select a menu language from the list, then press **OK**.

Setup network

Benefits

PC network

*This feature is available on certain models only.
If the TV is connected to your PC network, you can play photos, music and movies from a computer or storage device in that network.

Once the network is installed, select **[Browse PC]** in the home menu to view PC content.

What you need

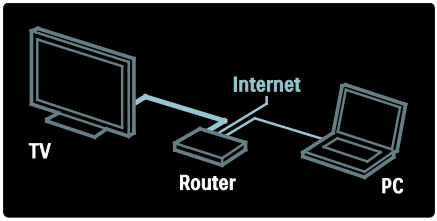
WARNING

This TV complies with the EMC directive only when you use a shielded Cat5 ethernet cable.

To connect the router to your TV, we strongly recommend that you use an ethernet cable which is shorter than 3 meters.

To connect the TV to a PC network and internet, you need a router in your PC network. Set the router to DHCP On. Connect the router to the TV with a network (Ethernet) cable.

You can also connect this TV to a PC network via an optional wireless USB adaptor. Check with your local retailer for purchase details.



The PC network feature is DLNA 1.5 certified. You can use Microsoft Windows XP or Vista, Intel Mac OSX or Linux on your computer.

To share PC content on your TV, you need recent media server software on your computer. Windows Media Player 11 or similar.

The media server software needs to be set to share files with your TV.

For the list of supported media server software, read **Technical data > Multimedia**.

Note: In case the apparatus does not recover in DLNA mode due to electrostatic discharge, user intervention is required.

Wired installation

Connect the router to the TV using a network cable and switch on the router before you start the network installation.

To start the wired network installation, close the user manual, press ⌂ > **[Setup]** > **[Connect to network]** and press **OK**.

Follow the instructions on screen to install the wired network.

The TV constantly searches for a network connection.

If asked for, agree to the End User License Agreement. Find the latest End User License Agreement at (http://www.philips.com/).

Network settings

The TV's network settings that are used to connect to your router are standard and set to automatic. This ensures easy connection with any available network.

If you have problems with the network connection, you might want to adjust the settings so that they are appropriate for your home network.
If you are unsure, ask someone with knowledge of network settings to help you.

To set specific network settings, press ⌂ > **[Setup]** > **[Network settings]** and press **OK**.

Change other settings

Green eco settings

1. While watching TV, press the green button.
2. Select one of the following settings, then press **OK**:

- **[Energy saving]**: Applies a combination of picture settings to reduce energy consumption.
- **[Mute screen]**: Turns off the TV display. 'Muting' the screen saves energy if you just want to listen to audio from the TV.
- **[Light sensor]**: To save energy, the built-in ambient light sensor lowers the brightness of the TV screen when the surrounding light darkens.

Audio lipsync

Turn on digital audio lipsync to automatically sync the image on your TV to audio from a connected Home Theatre System.

1. While watching TV, press .
2. Select **[Setup]** > **[TV settings]** > **[Preferences]** > **[Audio Out delay]** > **[On]**, then press **OK**.

TV clock

You can display a clock on the TV screen. The clock displays the current time using time data received from your TV service operator.

Display the TV clock

1. When watching TV, press .
2. Select **[Status]**, then press **OK**.

The clock displays on the lower right hand corner of the TV screen.

Change the clock mode

By default, the clock mode is set to **[Automatic]**.

1. While watching TV, press .
2. Select **[Setup]** > **[TV settings]** > **[Preferences]** > **[Clock]** > **[Auto clock mode]**.
3. Select **[Automatic]**, **[Manual]** or **[Country dependent]**, then press **OK**.

Set the clock manually

If clock mode is set to **[Manual]**, set the date and time manually.

1. In the **[Clock]** menu, select **[Date]** or **[Time]**, then press **OK**.
2. Use the **Navigation buttons** to make your selection, then select **[Done]**.

TV location

A range of TV settings are applied to suit the location of the TV.

Shop or home mode

The flexibility to change settings is limited if the TV location is set to **[Shop]** mode. Set the TV location to **[Home]** mode to access all TV settings.

1. While watching TV, press .
2. Select **[Setup]** > **[TV settings]** > **[Preferences]** > **[Location]** > **[Home]** or **[Shop]**, then press **OK**.
3. Restart the TV.

Stand mount or wall mount

Specific TV settings are applied to suit the mounting location of the TV.

1. In the **[Preferences]** menu, select **[TV placement]** > **[On a TV stand]** or **[Wall mounted]**, then press **OK**.

Update the TV software

Check software version

1. Press .
2. Select **[Setup]** > **[Software settings]** > **[Current software info]**, then press **OK**.

The version of the current software is displayed.

Update with USB

Before performing this procedure be sure to:

- Set aside some time to complete the entire update.
- Have available a USB flash drive with at least 256MB of storage space.
- Have access to a computer with a USB port and internet access.

1. Press .
2. Select **[Setup]** > **[Update software]**, then press **OK**. The update assistant starts. Follow the on-screen instructions to complete the update.

Note: If you already have the upgrade file downloaded onto a USB flash drive, connect it to the TV. Then, select **[Setup]** > **[Software settings]** > **[Local updates]**.

Update with digital broadcast

If available, your TV can receive software updates via digital broadcasts.

If an update is available, a message appears prompting you to update the software. We strongly recommend that you update the software when prompted.

Reinstall the TV

Reinstalling your TV resets all picture and sound settings, and reinstalls all TV channels.

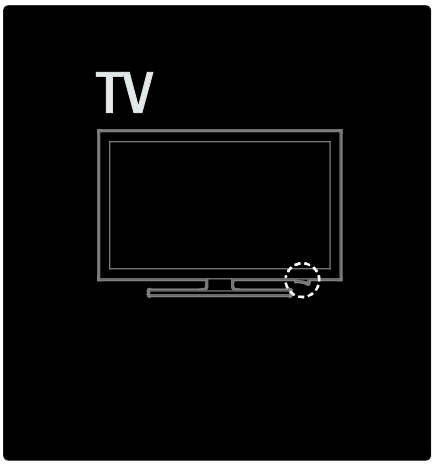
1. Press .
2. Select **[Setup]** > **[TV settings]** > **[Reinstall TV]**, then press **OK**.
3. Follow the on-screen instructions.

5 Connect the TV

First connections

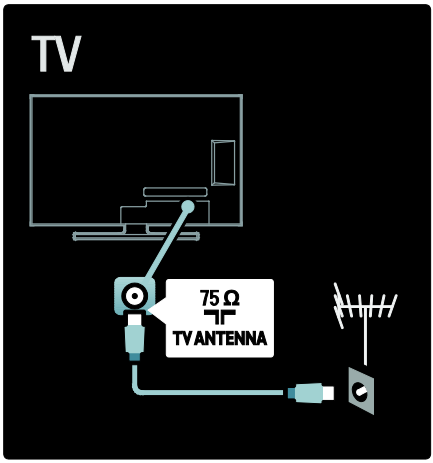
Power

Be sure that the power plug in the wall socket is accessible at all times. When disconnecting the power cable, always pull the plug, never the cable.
Although this TV has a very low standby power consumption, switch off the TV using the power switch on the bottom of the TV if you do not use the TV for a long time.



Antenna

Locate the antenna connector at the back of the TV. Insert the antenna cable securely into the antenna connector.



About cables

Overview

Before you connect devices to the TV, verify which connectors are available on the device. Connect the device to the TV with the highest quality connection available. Good quality cables ensure a good transfer of picture and sound.

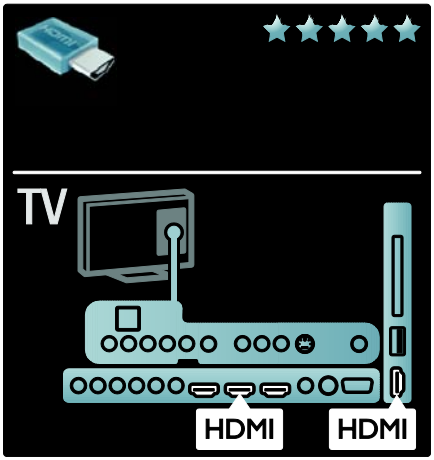
The connections shown in this user manual are recommendations only. Other solutions are possible.

HDMI

An HDMI connection has the best picture and sound quality.

- One HDMI cable combines video and audio signals. Use HDMI for High-Definition (HD) TV signals, and to enable EasyLink.
- The HDMI ARC connector on the TV features HDMI ARC functionality. This allows output of TV audio to a HDMI ARC compliant device.

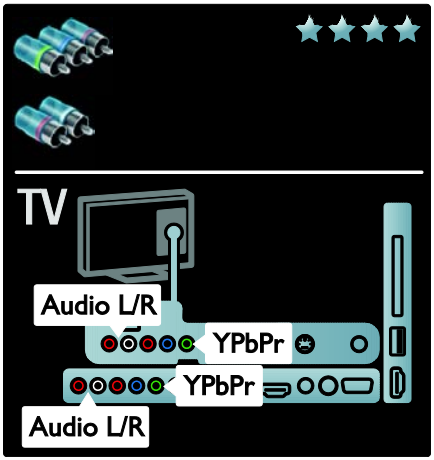
- Do not use an HDMI cable longer than 5 meters/16.4 feet.



Y Pb Pr

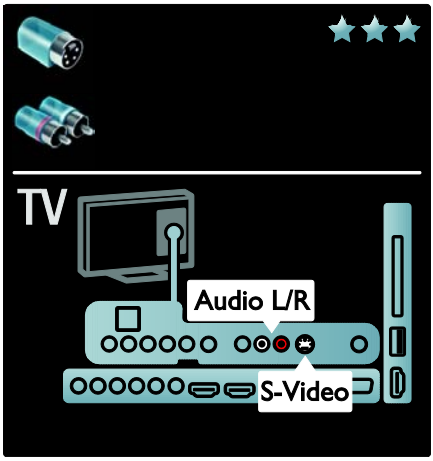
Use the Component Video Y Pb Pr connection together with an Audio Left and Right connection for sound.

Match the Y Pb Pr connector colours with the cable plugs when you connect. Y Pb Pr can handle High Definition (HD) TV signals.



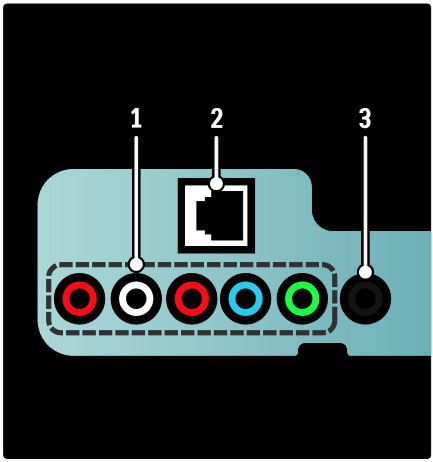
S-Video

Use the S-Video connection together with an Audio Left and Right connection for sound. (not to be combined with composite video cable)



TV connectors overview

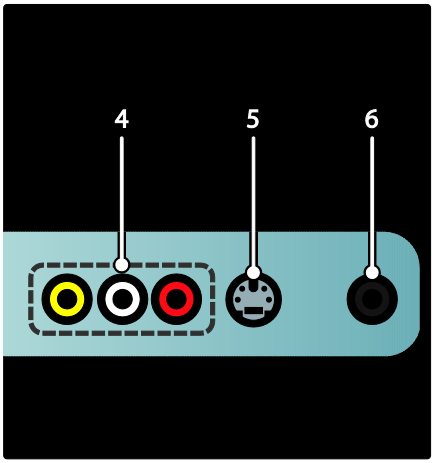
Rear



1. **CVI 2** (Audio L/R and YPbPr)**:** Analog audio and video input from analog or digital devices such as DVD players or game consoles.

2. **NETWORK**: Data input from a network. Available on certain models only.

3. **SERV. U**: For use by service personnel only.

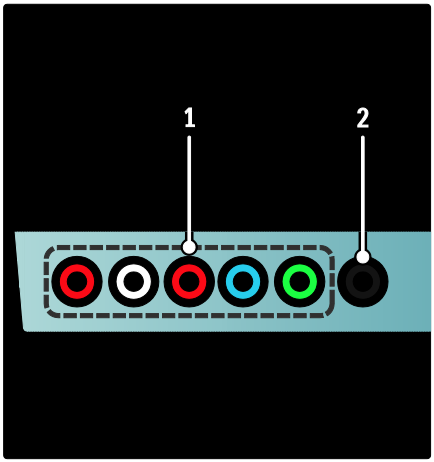


4. **AV IN VIDEO**: Video input from analog devices.
AV IN L/R: Audio input from analog devices connected to **VIDEO** or **S-VIDEO**.

5. **S-VIDEO**: Video input from analog devices such as satellite receivers.

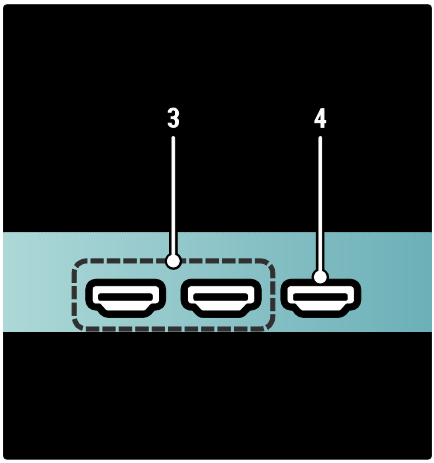
6 🎧 (Headphone): Stereo audio output to headphones or earphones. Available on certain models only.

Bottom



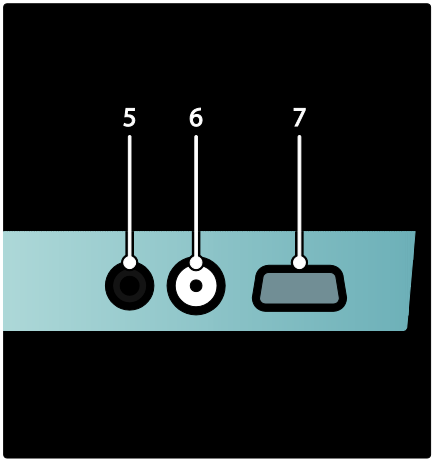
1. **CVI 1** (Audio L/R and YPbPr):Video input from analog devices such as DVD, receiver, game console, etc. This connector is used with audio input.

2. **DIGITAL AUDIO OUT**: Digital audio output to home theaters and other digital audio systems.



3. **HDMI** (Your TV may have one or two HDMI connectors depending on your model): Digital audio and video input from high-definition digital devices such as Blu-ray players.

4. **HDMI ARC**: In addition to regular HDMI functionality, outputs TV audio to HDMI ARC compliant device, such as a home theatre system.

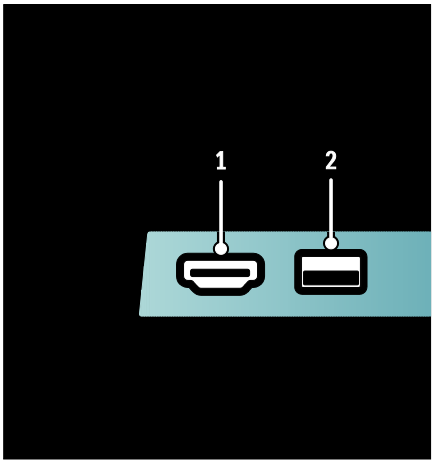


5. **AUDIO IN**: Audio input from devices that require a separate audio connection, such as a computer.

6. **ANTENNA**: Signal input from an antenna, cable or satellite..

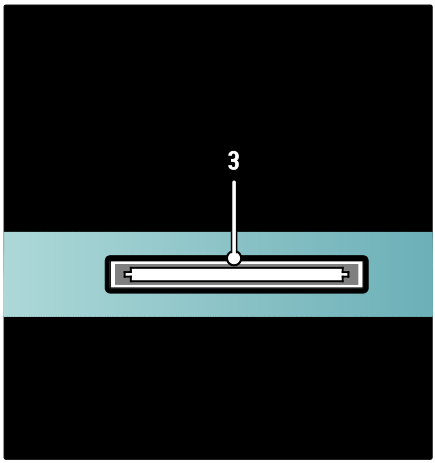
7. **VGA**: Video input from a computer.

Side



1. HDMI: Digital audio and video input from high-definition digital devices such as Blu-ray players.

2. **USB**: Data input from USB storage devices.

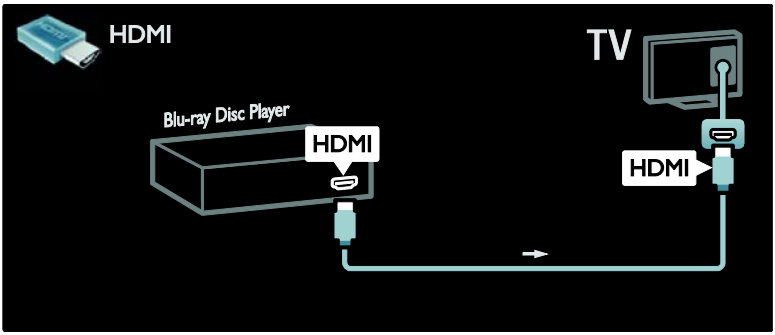


3. **CI** (Common Interface): Slot for a Conditional Access Module (CAM). Available on certain models only.

Connect devices

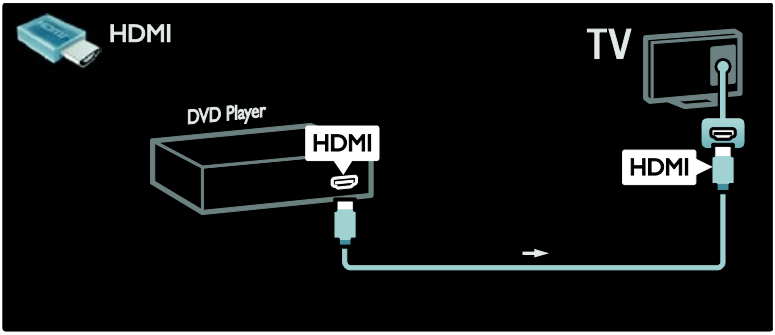
Blu-ray disc player

Use an HDMI cable to connect the Blu-ray disc player to an HDMI connector on the bottom of the TV.



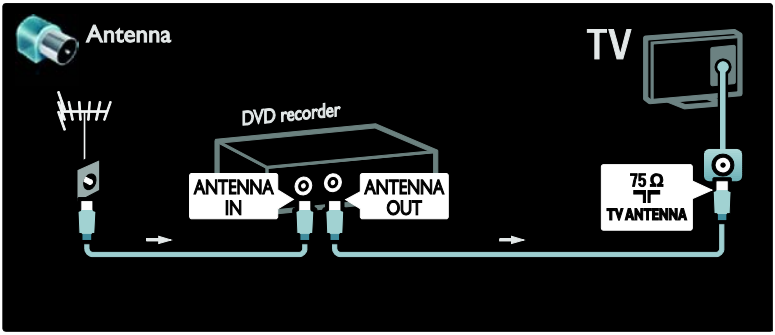
DVD player

Use an HDMI cable to connect the DVD player to an HDMI connector on the bottom of the TV.

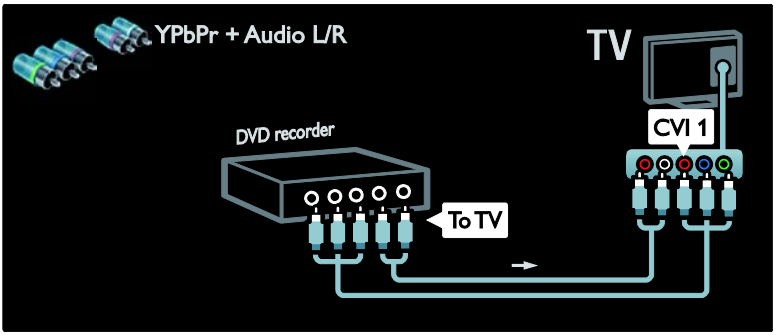


DVD-Recorder

First, use two antenna cables to connect the antenna to the DVD recorder and the TV.

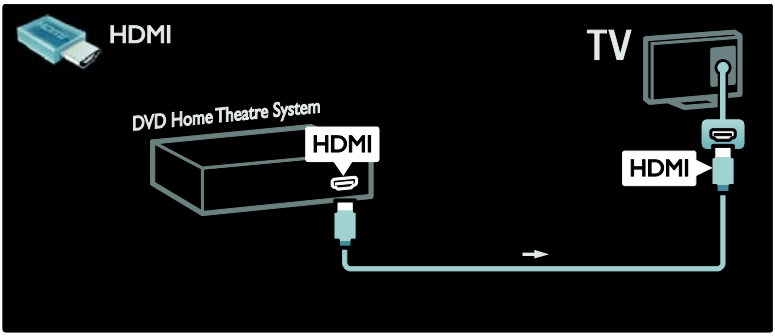


Finally, use YPbPr cable to connect the DVD Recorder to a YPbPr connector on the bottom of the TV.

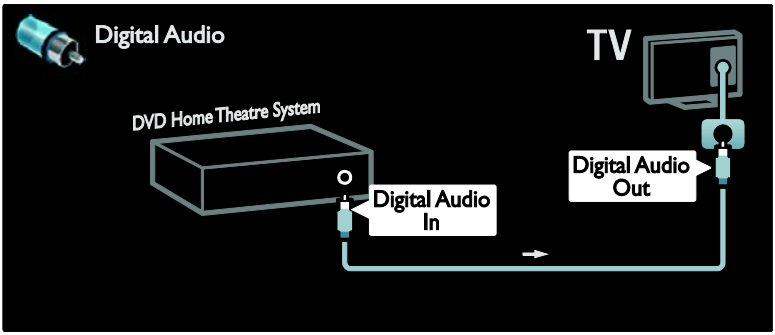


Home Theatre System

First, use an HDMI cable to connect the device to the TV.



Then, use a digital audio cinch cable to connect the device to the TV.



Audio and video synchronization (sync)

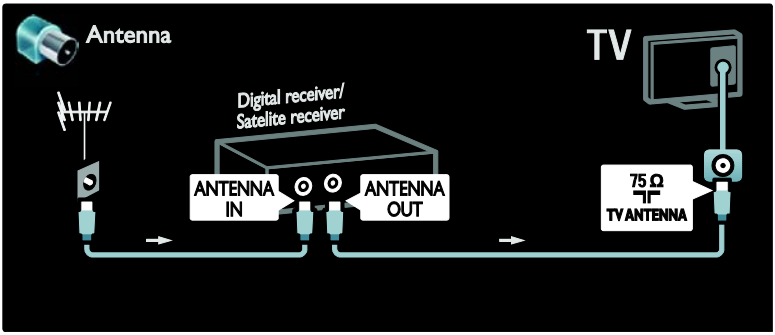
If the sound does not match with the video on screen, you can set a delay on most DVD Home Theatre Systems to match the sound and video.

EasyLink

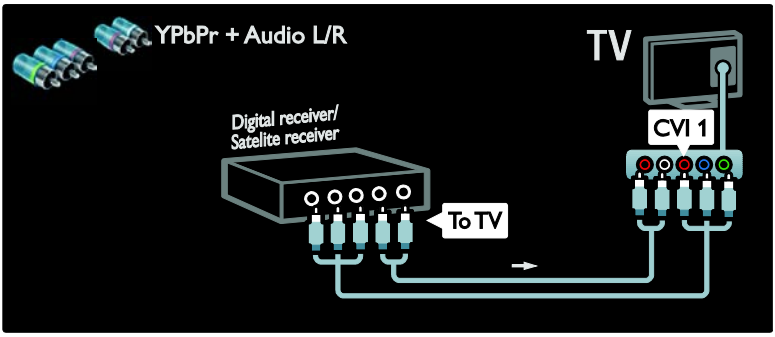
To automatically mute the TV speakers when content is played from your Home Theatre System, enable EasyLink. For more information, see **Connect the TV > Use Philips EasyLink > Configure TV speakers** (Page 46).

Dig. receiver/satellite

First, use two antenna cables to connect the antenna to the receiver and the TV.

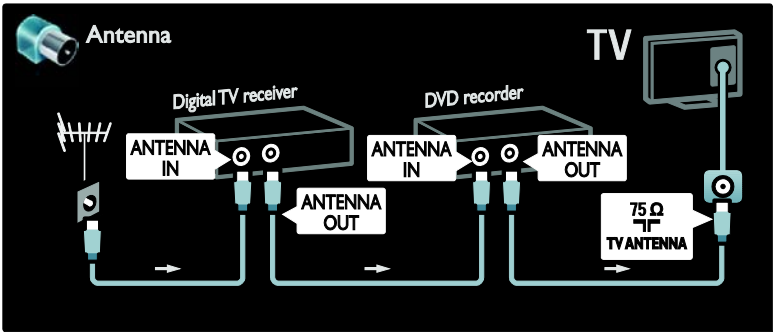


Use a YPbPr cable to connect the receiver to the TV.

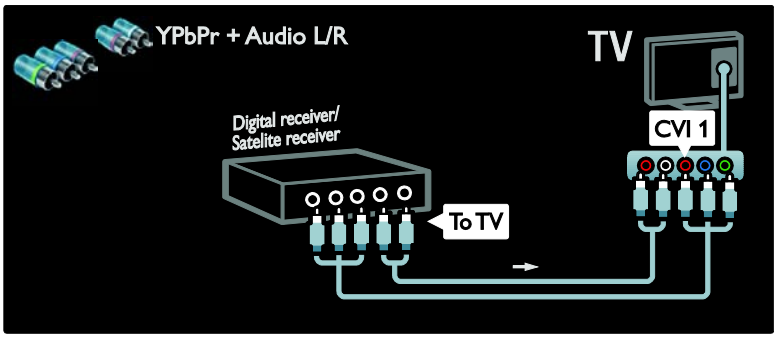


Dig. receiver and DVD-R

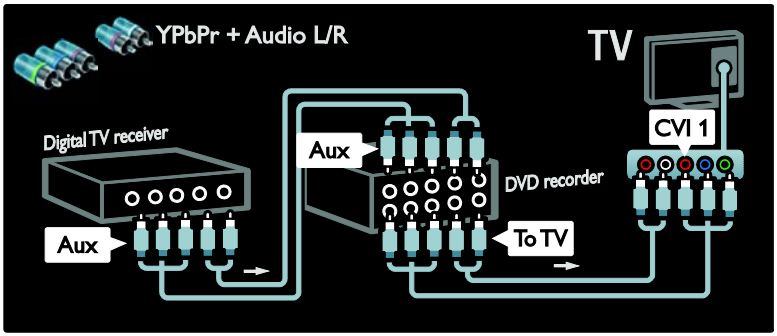
First, use three antenna cables to connect the digital receiver and the DVD Recorder to the TV.



Use a YPbPr cable to connect the receiver to the TV.

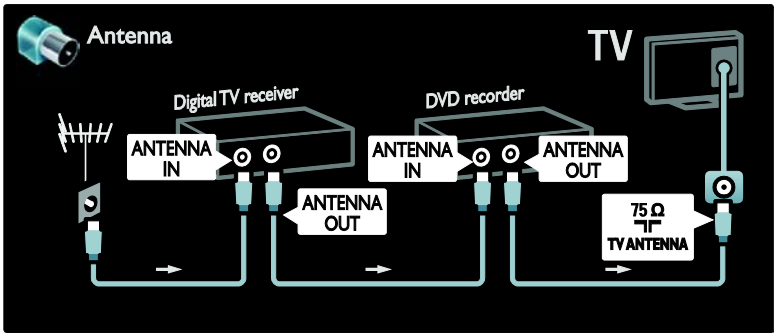


Finally, use two YPbPr cables to connect the two devices and the TV.

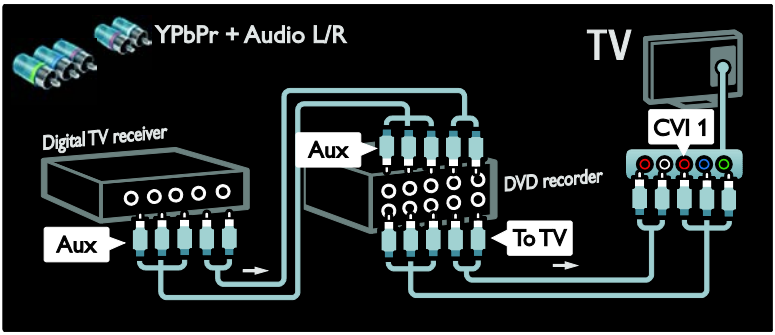


Dig. receiver, DVD-R and HTS

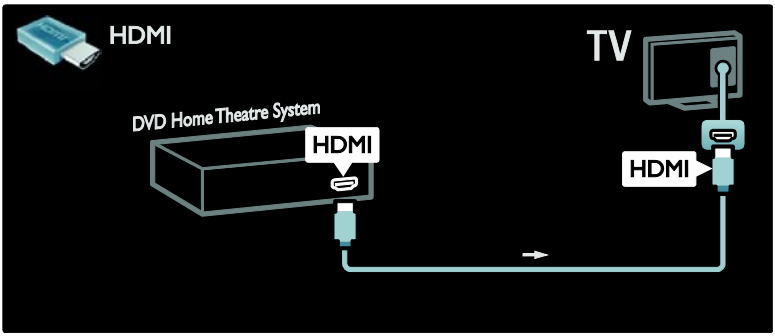
First, use three antenna cables to connect the two devices and the TV.



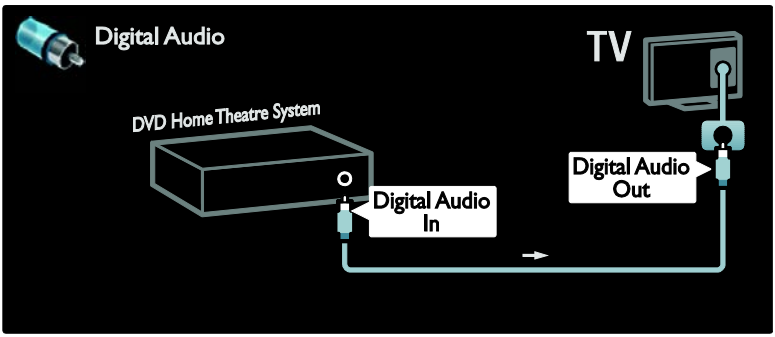
Then use two YPbPr cables to connect the digital receiver to the DVD Recorder and the DVD Recorder to the TV.



Then use an HDMI cable to connect the Home Theatre System to the TV.

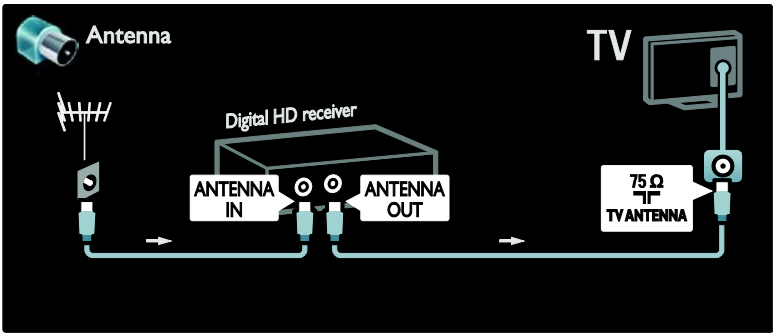


Finally, use a digital audio cinch cable to connect the Home Theatre System to the TV.

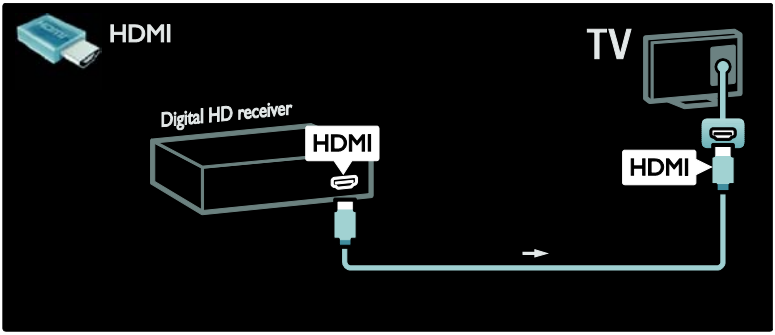


Dig. HD receiver

First, use two antenna cables to connect the Digital HD receiver to the TV.



Use an HDMI cable to connect the Digital HD receiver to the TV.



Connect more devices

Game console

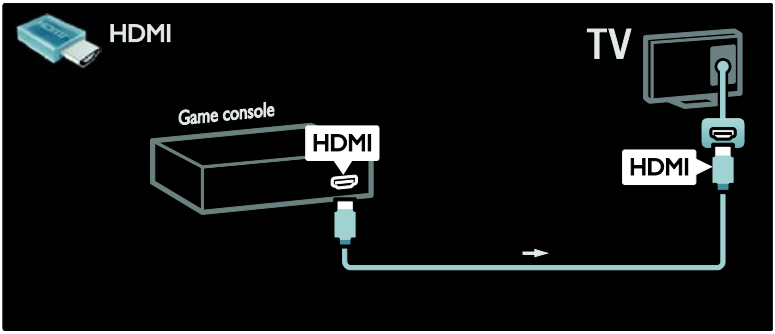
The most practical connections for a game console are at the side of the TV. However, more connectors are available at the back of the TV if needed.

Enable game mode

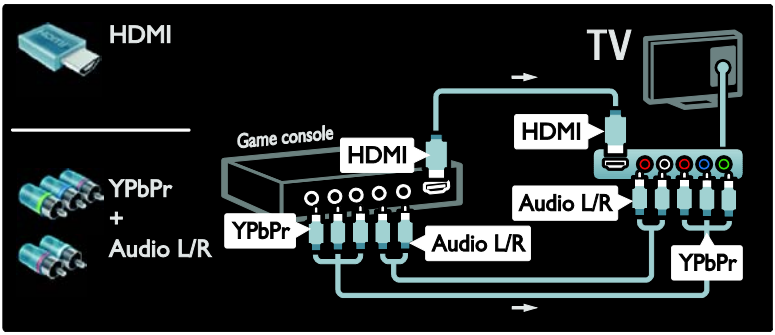
To prevent picture delay, set the TV to **[Game]** mode.

1. Press ▮▮▮.
2. Select **[Smart picture]** > **[Game]**, then press **OK**.
3. Press ↩ to exit.

The most practical connections for a game console are at the side of the TV.

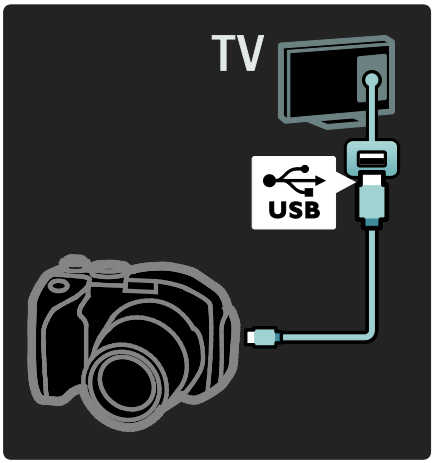


Otherwise, use an HDMI or the component video and audio cable (YPbPr and Audio L/R) to connect the game console to the back of the TV.



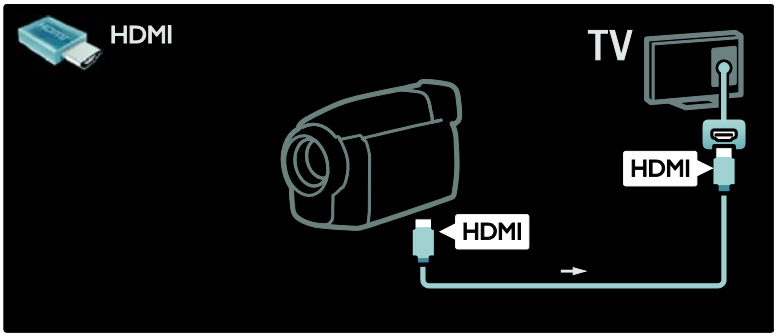
Dig. camera

To view pictures on your digital camera, connect it to the USB connector at the side of the TV. Switch on the digital camera. If the content of your camera does not appear automatically, you may need to enable Picture Transfer Protocol (PTP) on the camera. Refer to the camera's user manual for instructions.

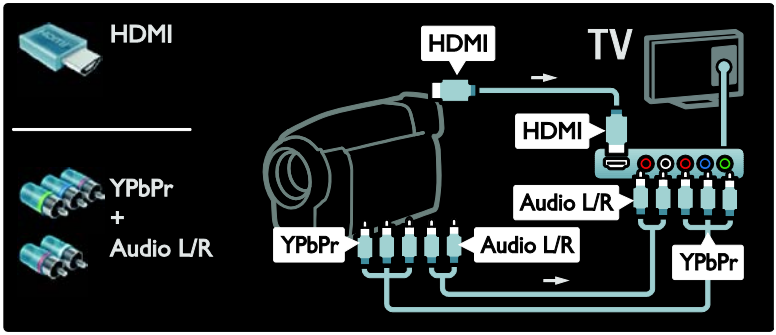


Dig. camcorder

The most practical connection for a camcorder is at the side of the TV.



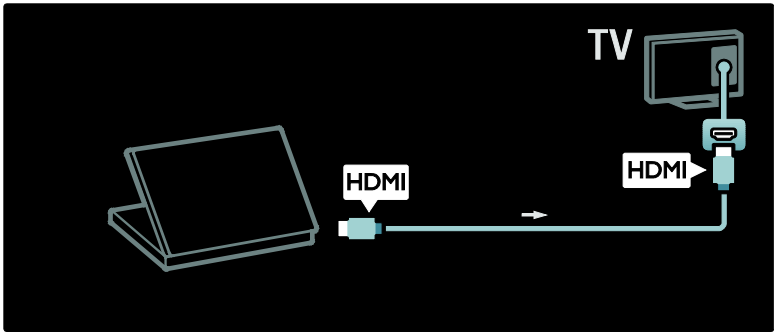
Otherwise, use an HDMI or the component video and audio cable (YPbPr and Audio L/R) to connect the camcorder to the back of the TV.



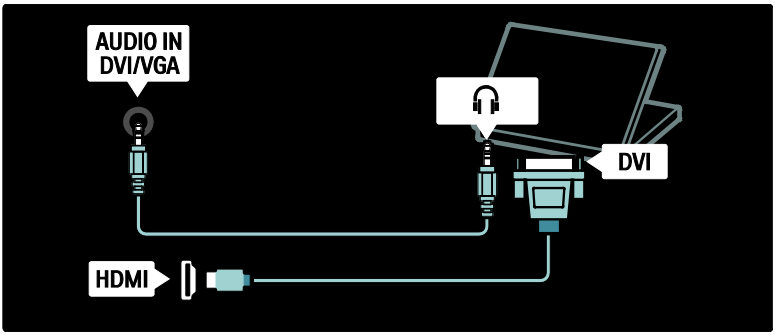
PC

Connect a computer using one of the following cables:

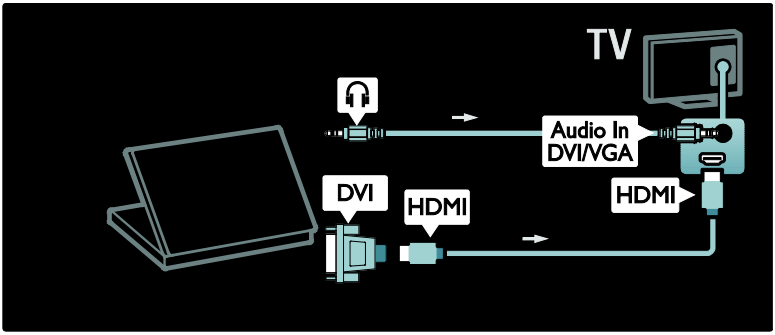
HDMI cable



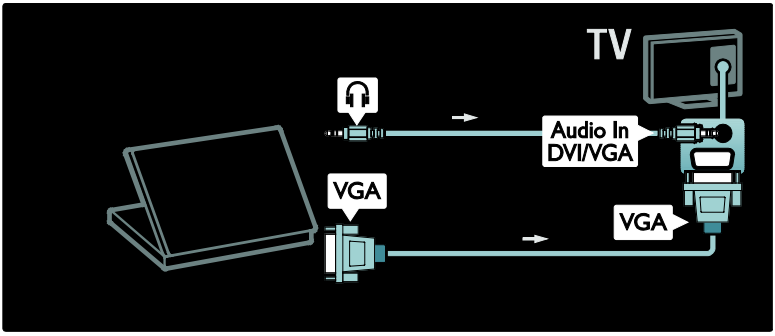
DVI-HDMI cable



HDMI cable and HDMI-DVI adaptor



VGA cable



Use Philips EasyLink

Enable or disable EasyLink

Philips EasyLink provides several features that enable you to control devices that are connected via HDMI. Connected devices must support the HDMI-CEC standard, and must be properly configured for EasyLink to work.

Note: HDMI-CEC functionality is known by other names on other brands. Some examples are Anynet (Samsung), Aquos Link (Sharp) or BRAVIA Sync (Sony). Not all brands are fully compatible with Philips EasyLink.

To enable or disable EasyLink

Note: Do not enable Philips EasyLink if you do not intend to use it.

1. Press .
2. Select **[Setup]** > **[TV settings]** > **[EasyLink]** > **[On]** or **[Off]**, then press **OK**.

EasyLink features

With Philips EasyLink enabled, the following features are available:

One-touch play

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

One-touch standby

When you connect your TV to a HDMI-CEC compliant device, pressing on the TV remote control switches the TV and all connected HDMI devices to standby mode.

System audio control

When you connect your TV to, for example, a HDMI-CEC compliant Home Theatre System (HTS), your TV speakers automatically mute and audio from the TV plays through the HTS.

For more information about system audio control and other types of TV speaker configurations, see **Connect the TV > Use Philips EasyLink > TV speakers** (Page 46).

EasyLink Remote Control

EasyLink Remote Control allows you to control HDMI-CEC compliant devices using your TV remote control.

To enable EasyLink Remote Control, see **Connect the TV > Use Philips EasyLink > Enable or disable EasyLink Remote Control** (Page 46).

Pixel Plus Link

Connected Philips EasyLink devices may apply their own picture quality processing to a video, before streaming it to the TV. This may interfere with the image processing of the TV. Enable Pixel Plus Link to discard picture quality processing from connected Philips EasyLink devices.

To enable Pixel Plus Link

1. Press .
2. Select **[Setup]** > **[TV settings]** > **[EasyLink]** > **[Pixel Plus link]** > **[On]**.
3. Press **OK** to activate.

Auto subtitle shift

Auto subtitle shift displays subtitles from Philips EasyLink compliant Home Theatre Systems over the video image on your TV. The video image is thus stretched across the whole of your TV display, without the need to create a separate subtitle bar at the bottom of the screen.

To enable auto subtitle shift

1. Press .
2. Select **[Setup]** > **[TV settings]** > **[EasyLink]** > **[Auto subtitle shift]**.
3. Select **[On]**, then press **OK** to activate.

Audio only mode

Audio only mode enables you to play audio from a connected Philips EasyLink device through the TV speakers while the TV is in standby.

Press to receive audio from the connected Philips EasyLink device.
If available, audio only mode is enabled.
Accept the prompt on the TV to enable audio only mode.

- Control the audio playback with the TV remote control.

Enable or disable EasyLink Remote Control

Caution: This is an advanced setting. Verify that all connected HDMI-CEC compliant devices support this setting. Devices that do not support this setting will not respond to commands from the TV remote control.

1. Press .
2. Select **[Setup]** > **[TV settings]** > **[EasyLink]** > **[EasyLink Remote Control]** > **[On]** or **[Off]**.
3. Press **OK** to activate.

Notes:

- If you cannot exit from the connected device's menu, press .
- To switch back to TV control, press and select **[Watch TV]**.
- To control another device, press and select the device from the home menu.
- A summary of EasyLink buttons you can use with the TV remote control is available at **Connect the TV > Use Philips EasyLink > EasyLink buttons** (Page 46).

EasyLink buttons

Control HDMI-CEC compliant devices with the following buttons on the TV remote control.

- **OK**: Starts, pauses or resumes playback on the connected device. Also activates a selection or accesses the menu of the device.
- ⏮ (**Previous**) / ⏭ (**Next**): Searches backwards and forwards on the connected device.
- **Numeric buttons**: When EasyLink is enabled, selects a title, chapter or track.
- ▤ (**Options**): Displays the menu of the connected device. When is pressed, the TV menu is displayed.
- ⏻ (**Standby**): Press to enable one-touch standby. This switches the TV and the connected device to standby.

Other EasyLink buttons are available via On-Screen Remote Control (OSRC).

To access the OSRC

1. While watching a connected device, press ▤.
2. Select **[Show remote control]**, then press **OK**.
3. Use the **Navigation buttons** and **OK** to select and use an on-screen button.
4. Press to exit.

Configure TV speakers

You usually connect the TV to a HDMI-CEC compliant device such as a HTS using both a HDMI cable for video and a digital audio cable for audio. You can output TV audio through the HDMI cable solely, provided both the TV and device are HDMI ARC compliant (see **Connect the TV > Use Philips EasyLink > Use HDMI ARC**).

Configure TV speakers

1. Press .
2. Select **[Setup]** > **[TV settings]** > **[EasyLink]** > **[TV speakers]**.
3. Select one of the following options, then press **OK**:

- **[Off]**: Turn off TV speakers.
- **[On]**: Turn on TV speakers.
- **[EasyLink]**: TV audio continues to be streamed through the TV speakers. Switch the TV audio to the connected HDMI-CEC audio device through the experience menu.
- **[EasyLink autostart]**: Turn off TV speakers automatically and streams TV audio to the connected HDMI-CEC audio device.

Switch TV audio in experience menu

If **[EasyLink]** or **[EasyLink autostart]** are selected, access the experience menu to switch the TV audio.

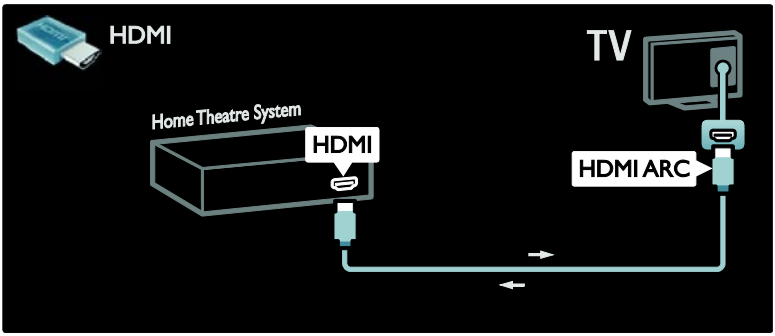
1. While watching TV, press ▮▮▯.
2. Select **[Speakers]**, then press **OK**.
3. Select one of the following, then press **OK**:

- **[TV]**: On by default. Streams TV audio through TV speakers until the connected HDMI-CEC audio device switches to system audio control. Thereafter, TV audio is streamed through the connected device.

- **[Amplifier]**: Streams audio through the connected HDMI-CEC device. If system audio mode is not enabled on the device, audio will continue to stream from TV speakers if **[EasyLink]** was selected. If **[EasyLink autostart]** was enabled, the TV prompts the connected device to switch to system audio mode.

Use HDMI ARC

The HDMI 1 connector is HDMI Audio Return Channel (ARC) compliant. Use it to output digital audio to a HDMI Home Theatre System.



HDMI ARC allows you to use Philips EasyLink to output TV audio directly to a connected audio device, without the need for an additional digital audio cable.
Be sure that the device is HDMI-CEC and ARC compliant, and that the TV is connected to the device using a HDMI cable attached to HDMI ARC connectors.

Enable or disable HDMI ARC

Note: Enabling HDMI ARC automatically adds the device to the home menu.

1. Press ⌂.
2. Select **[Setup]** > **[TV settings]** > **[EasyLink]** > **[HDMI 1 - ARC]** > **[On]** or **[Off]**.
3. Press **OK** to activate.

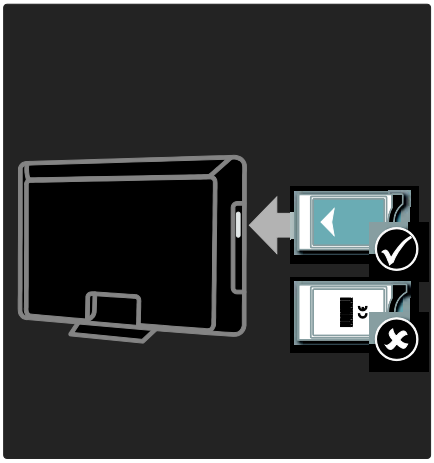
Use a CAM

Insert and activate a CAM

*Available on certain models only.
Caution: Be sure to follow the instructions described below. Wrong insertion of a Conditional Access Module (CAM) may damage both the CAM and your TV.

Notes:

- This TV supports CI as well as CI+. CI+ allows service providers to offer premium HD digital programs with a high level of copy protection.
- Refer to the documentation from your service operator on how to insert a smart card into the Conditional Access Module.



1. Switch off the TV.
2. Follow the directions printed on the CAM and insert the CAM into the Common Interface at the side of the TV.
3. Push the CAM in as far as it will go and wait for the CAM to be activated. This may take several minutes. Do not remove the CAM from the slot when in use as digital services will be deactivated.

Access CAM services

1. After inserting and activating the CAM, press .
2. Select **[Common interface]**, then press **OK**.
3. Select the CAM provider and press **OK**.

Watching a CAM service

If a CAM is inserted and subscription fees are paid, the TV shows the programme from the digital TV service provider. The applications, functions, the content and the onscreen messages vary per CAM service.

6 Troubleshooting

Contact us

If you cannot resolve your problem, refer to the FAQs for this TV at (http://www.philips.com/support).
If the problem remains unresolved, contact Philips Consumer Care in your country as listed in the leaflet accompanying your product.

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

General TV issues

The TV does not switch on:

- Disconnect the power cable from the power outlet. Wait for one minute then reconnect it.
- Check that the power cable is securely connected.
- Check that the **power switch** at the bottom/back of the TV is switched on.

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

The standby light on the TV blinks red:
Disconnect the power cable from the power outlet. Wait until the TV cools down before reconnecting the power cable. If the blinking reoccurs, contact Philips Consumer Care.

You forgot the code to unlock the child lock feature:
Enter '8888'.
The TV menu is in the wrong language:
Change the TV menu to your preferred language.
For more information, see **Set up the TV > Change language settings > Menu language** (see "Menu language" on page 28).

When turning the TV on/off/to standby, you hear a creaking sound from the TV chassis:
No action is required. The creaking sound is normal expansion and contraction of the TV as it cools and warms up. This does not impact performance.

When the TV is in standby mode, a startup splash screen is displayed, then returns to standby mode:
This is normal behavior. The startup screen is displayed when the TV is disconnected from the mains and reconnected.
To switch on the TV from standby, press ⏻ on the remote control or press any key on the side of the TV.

TV channel issues

Previously installed channels do not appear in the channel list:
Check that the correct channel list is selected.

Picture issues

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

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

There is sound but no picture:
Check that the picture settings are correctly set.

There is poor TV reception from an antenna connection:

- Check 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:

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

The TV did not save your picture settings:
Check that the TV location is set to the home setting. This mode offers you the flexibility to change and save settings.

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

The picture from broadcasts is scrambled:
You may need to use a Conditional Access Module to access content. Check with your operator.

An "e-sticker" banner displaying information appears on the TV display:
The TV is in **[Shop]** mode. Remove the e-sticker by setting the TV to **[Home]** mode, then restarting the TV. See **Setup the TV > Change other settings > TV location** (Page 30) for more information.

The computer display on the TV is not stable:

- Check that your PC uses the supported resolution and refresh rate.
- Set the TV picture format to unscaled.

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.

- Check that all cables are properly connected.
- Check that the volume is not set to 0.
- Check that the sound is not muted.
- Check that the TV speakers setting is on in the sound menu.
- Check that the TV audio output is connected to the audio input on the HDMI CEC enabled/EasyLink-compliant HTS device. Sound should be heard from the HTS speakers.

There is picture but sound quality is poor:
Check that the sound settings are correctly set.

There is picture but sound comes from one speaker only:
Verify that sound balance is set to the center.

HDMI 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 a HDMI device.
- If the TV does not recognize the HDMI device and no picture is displayed, try switching the source from one device to another and back again.
- If there are intermittent sound disruptions, check that output settings from the HDMI device are correct.
- If you use an HDMI-to-DVI adapter or HDMI to DVI cable, check that an additional audio cable is connected to AUDIO L/R or AUDIO IN (mini-jack only).

You cannot use EasyLink features:
Check that your HDMI devices are HDMI-CEC compatible. EasyLink features only work with devices that are HDMI-CEC compatible.

If a 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.
This behavior is normal when a HDMI-CEC audio device is connected.

USB connection issues

USB device content is not displayed:

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

Audio and picture files do not play or display smoothly:
The transfer performance of the USB storage device may limit the data transfer rate to the TV, causing poor playback.

Network connection issues

(Applicable to certain models only.)
Net TV does not work
If the connection to the router is properly set up, check the router connection to the Internet.

Browse PC or Net TV access is slow.
Refer to your router's user manual for information on transfer rate and other factors of signal quality.
You need a high-speed Internet connection for your router.

7 Technical data

Overview

Product information is subject to change without notice. For detailed product information, go to (http://www.philips.com/support).

Power and reception

Power

- Mains power : AC 220-240V~, 50-60Hz
- Standby power : <0.15W
- Ambient temperature : 5 to 35 degree Celsius
- For power consumption, see the product specifications at (http://www.philips.com/support).

Reception

- Antenna input: 75ohm coaxial (IEC75)
- TV system: PAL D/K, PAL B/G, DVB-C, MPEG4(Only available in certain cities)
- Video playback: NTSC, PAL
- (Only available in certain cities) DVB-C (Digital Video Broadcasting-Cable).
- Digital TV*: MPEG-4, DVB-C (Cable)
- Tuner bands: VHF, UHF, S-Channel, Hyperband

*Available on certain models only.

Display and sound

Picture / Display

- Display type: LCD Full HD W-UXGA
- Diagonal size:
  - 102 cm / 40 inch
  - 107 cm / 42 inch
  - 117 cm / 46 inch
  - 132 cm / 52 inch
- Aspect ratio: Widescreen 16:9
- Panel resolution: 1920x1080p, 100Hz
- Pixel Precise HD picture enhancement
- 1080p 24/25/30/50/60Hz processing
- 100 Hz LCD

Sound

- Output power (RMS) : 20W
- Incredible Surround
- Clear Sound
- Dynamic Bass Enhancement
- Mono/Stereo/NICAM

Display resolutions

Computer formats - HDMI
(Resolution - refresh rate)

640 x 480 - 60Hz
800 x 600 - 60Hz
1024 x 768 - 60Hz
1360 x 768 - 60Hz
1280 x 1024 - 60Hz
1600 x 1200 - 60Hz
1920 x 1080 - 60Hz

Computer formats - VGA
(Resolution - refresh rate)

640 x 480 - 60Hz
800 x 600 - 60Hz
1024 x 768 - 60Hz
1360 x 768 - 60Hz
1280 x 1024 - 60Hz
1600 x 1200 - 60Hz
1920 x 1080 - 60Hz

Video formats
(Resolution - refresh rate)

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

Multimedia

Supported multimedia connections

- USB (FAT or DOS-formatted; Mass Storage Class compliant only)
- Ethernet UTP5

Supported image files:
JPEG (*.jpg)
Supported audio files:
.mp3, .AAC, .WMA (v2-v9.2)

Supported audio/video files*

AVI (*.avi):
video: MPEG-4 SP, MPEG-4 ASP
audio: MPEG Layer 2/3, AC3

MPEG (*.mpg, *.mpeg, *.vob):
video: MPEG-1, MPEG-2

MPEG (*.mp2, *.mp3, *.mpg, *.mpeg, *.vob):
audio: MPEG-1 Layer 2, MPEG-1 Layer 3, LPCM, AC3

MPEG-4 (*.mp4):
video: MPEG-4 AVC (H.264, L2-CIF, L4-HD)
audio: AAC-LC, AAC-HE

WMV (*.wmv):
video: WMV9/VC1

WMA (*.wma):
audio: WMA (v2 to v9.2)

MKV (*.mkv):
video: H.264
audio: HE ACC, AC3

(Available on certain models and via USB only) Realmedia (.rm, .rmvb, .RV8-10)

***Multimedia file names must not exceed 128 characters.**

(For PFL8605 only)
Supported DLNA-compliant media server software **

- Windows Media Player (for Microsoft Windows)
- Twonky Media (for Microsoft Windows and Mac OS X)
- Sony Vaio Media Server (for Microsoft Windows)
- TVersity (for Microsoft Windows)
- Nero MediaHome
- DiXiM (for Microsoft Windows XP)
- Macrovision Network Media Server (for Microsoft Windows)
- Fuppes (for Linux)
- uShare (for Linux)

**** This is not a comprehensive list. Check http://www.dlna.org for latest updates.**

Supported DLNA audio/video files

WMV (*.wmv):
video: WMV9/VC1

MPEG (*.mp2, *.mp3, *.mpg, *.mpeg, *.vob):
audio: MPEG-1 Layer 2, MPEG-1 Layer 3, LPCM, AC3

MPEG-4 (*.mp4):
video: MPEG-4 AVC (H.264, L2-CIF), MPEG-4 AVC (H.264, L4-HD)
audio: AAC-LC, AAC-HE

MKV (*.mkv):
video: H.264
audio: HE ACC, AC3

Connectivity

Rear

- **AV IN:** Composite video, Audio L/R, S-VIDEO
- **CVI 2**: Component video (Y Pb Pr), Audio L/R
- **Headphones**:* Stereo 3.5mm mini-jack
- **SERV.U**: Service port
- **Network***: Ethernet

Bottom

- **CVI 1**: Component video (Y Pb Pr), Audio L/R
- **HDMI ARC** (1): HDMI Audio Return Channel
- **HDMI** (2) / (3)*
- **DIGITAL AUDIO OUT**: Coaxial
- **AUDIO IN DVI/VGA**: stereo 3.5mm mini jack
- **Antenna**: 75 ohm coaxial
- **VGA**: PC input

*Available on certain models only.

Side

- **HDMI**
- **USB**
- **CI***: Common interface

*Available on certain models only.

Dimensions

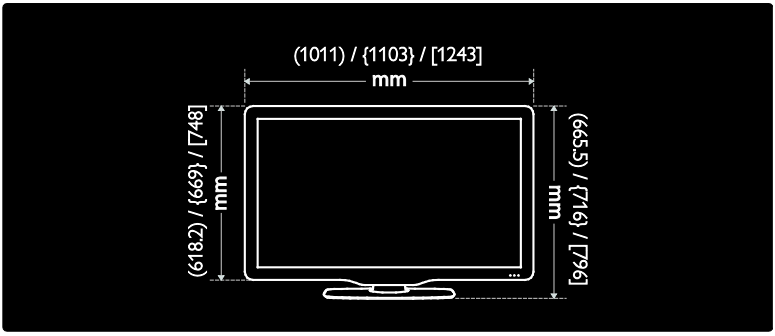
Note: Dimensions and weights are approximate values only. Design and specifications are subject to change without notice.

The legends used to indicate the TV dimensions are as follows:

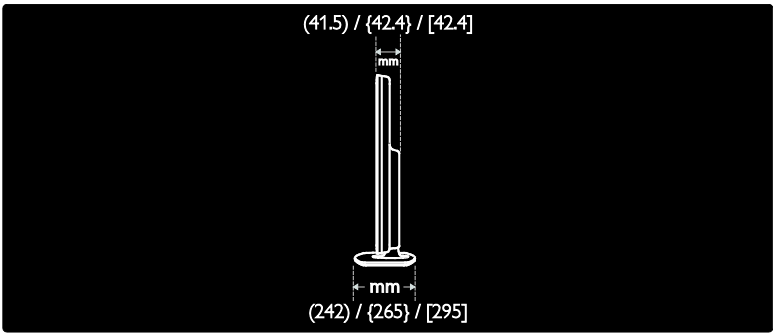
( ) : 107 cm / 42 inch TV
{ } : 117 cm / 46 inch TV
[ ] : 132 cm / 52 inch TV

Make a note of the legend that corresponds to your TV. Then, navigate to the next page to view the dimensions.

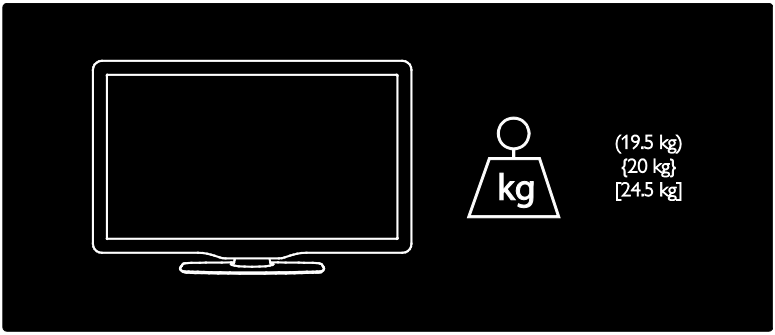
Use your TV legend to note the dimensions of your TV (with and without the stand).



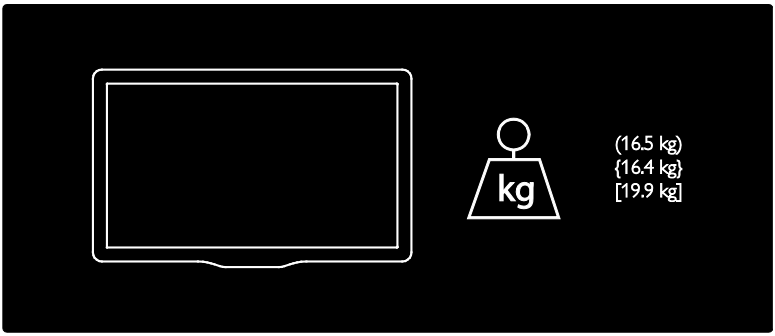
Use your TV legend to note the thickness of your TV (with and without the stand).



Use your TV legend to note the weight of the TV with stand.



Use your TV legend to note the weight of the TV without the stand.



8 Index

A

Ambilight • 8
Ambilight settings • 16
Ambilight, response speed • 17
Ambilight, switch on • 16
audio language • 28
audio lip sync • 29

C

CAM, enable • 48
care • 4
channel list • 13
channels, favorites • 19
channels, fine tune (analog) • 27
channels, hide or unhide • 26
channels, reorder • 25
child lock, overview • 20
clock • 30
connect, power • 32
connect, USB • 20
controls, side • 10

D

default settings • 25
demo • 25
devices, add • 16
devices, watch • 16
digital radio • 22
dimensions • 54
display resolution • 52

E

EasyLink, buttons • 46
EasyLink, enable • 45
EasyLink, features • 45
EasyLink, RC key forward • 46
EasyLink, TV speakers • 46
end of use • 4
environment, green eco • 5
EPG, enable • 19
EPG, menu • 19
EPG, overview • 19

F

factory settings • 25
favorites list, add • 19
favorites list, select • 19

G

green eco, overview • 5
green eco, settings • 29

H

hearing impaired • 23
High-Definition (HD), content • 7
home menu • 12
home mode • 30

I

information, on Internet • 9
information, on-screen • 9

K

kensington lock • 6

L

language, menu • 28
language, others • 28
location, home or shop • 30
location, stand or wall mount • 30
Lounge light • 17

M

menu, add device • 13
menu, browse • 12
menu, channel list • 13
menu, home • 12
menu, language • 28
menu, options • 13
menu, setup • 13
multimedia, play files • 20
mute TV speakers • 15

O

options menu • 13

P

pc network settings • 29
pc network, wired • 29
picture settings • 24
position TV • 7

R

recycle • 4
register product • 3
remote control, on-screen • 11
remote control, overview • 10
reorder channels • 25

S

safety • 3
Scenea, enable • 22
Scenea, lounge light • 17
Scenea, upload picture • 22
screen care • 4
settings, assistant • 24
settings, picture • 24
settings, sound • 25
shop mode • 30
sleeptimer • 19
smart picture • 15
smart sound • 15
software, digital update • 30
software, Internet update • 30
software, version • 30
sound settings • 25
specifications • 52
standby • 14
subtitle, analog • 20
subtitle, language • 28

T

technical specifications • 52
teletext 2.5 • 19
teletext, dual screen • 18
teletext, enable • 18
teletext, enlarge • 18
teletext, language • 28
teletext, menu • 18
teletext, search • 18
teletext, subpages • 18
teletext, Table Of Pages • 18

U

universal access, enable • 22

V

visually impaired • 23
volume, adjust • 14
volume, mute • 15

© 2010 Koninklijke Philips Electronics N.V.
All rights reserved.
Document order number 313913704001