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HFL5xx8

HFL7xx8

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EN User Manual

**PHILIPS**

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# 1 Get started

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## TV tour

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### High Definition TV

Your TV is equipped with a High-Definition (HD) display so you can watch HD video in these ways and more:

- a Blu-ray disc player, connected with an HDMI cable, playing a Blu-ray disc
- an upscaling DVD player, connected with an HDMI cable, playing a DVD disc
- an over-the-air HD broadcaster (DVB-T or DVB-T2 MPEG4)
- a digital HD receiver, connected with an HDMI cable, playing HD content from a cable or satellite TV provider
- an HD game console, connected with an HDMI cable, playing HD games

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### 3D TV

**Supported on HFL7xx8 only.**

This is a 3D TV. You can watch 3D films and programmes in full HD resolution on this TV. When you start a 3D film on a connected 3D Blu-ray disc player or tune into a TV channel that broadcasts 3D programmes, the TV switches to 3D.

Read more in **Use your TV > Watch 3D** (Page 14).

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### Smart TV

You can make your TV the centre of your digital life with the Smart TV suite of applications:

- If you connect your TV to the Internet, you can enjoy a wealth of streaming movies, pictures, music and much more with Youtube and other Smart TV applications.

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### Media playback

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

You can also connect your PC to the TV with an HDMI or VGA cable.

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### Programme guides

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

Programme guides are provided by broadcasters or over the Internet. If you connect your TV to the Internet, you can access more extensive programme details.

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### EasyLink

If you connect your TV to HDMI-CEC (Consumer Electronic Control) enabled devices, such as a Blu-ray player or home theatre, you can control them at the same time with one remote control. Simply switch on EasyLink after connection.

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### Ambilight

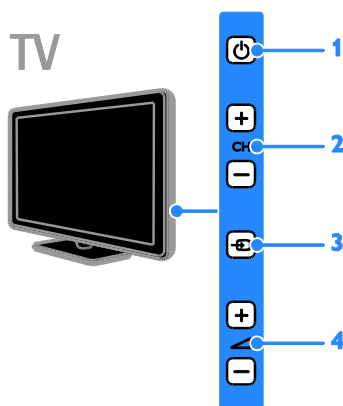
\*Available on certain models only.

Ambilight gives a more relaxed viewing experience. It automatically adjusts the colour and brightness of the light to match the TV picture.

Read more in **Use your TV > Ambilight** (Page 18).

# TV controls

## Rear controls

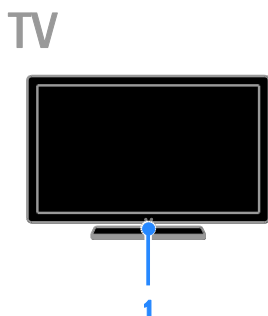


1. : Switch the TV to standby.
2. **CH +/-**: Switch to the next or previous channel.
3. : Select a connected device.
4. +/-: Increase or decrease volume.

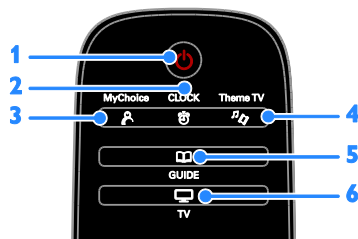
## Sensors

### 1. Remote control sensor

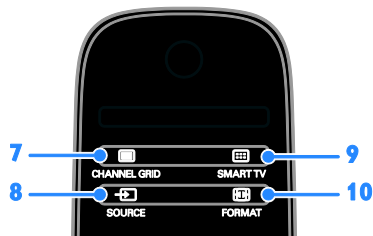
Point the remote control at the sensor.  
Make sure that the line-of-sight between the remote control and the TV is not blocked by furniture or other objects.



## Remote control



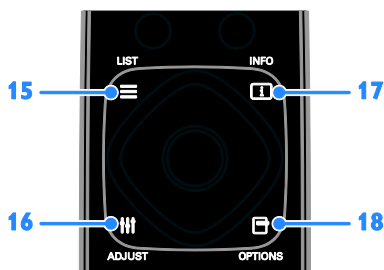
1. (**Standby**): Switch the TV on or to standby.
2. **CLOCK**: Access the TV clock. Available on certain models only.
3. **MyChoice**: Access customised menu.
4. **ThemeTV**: Access ThemeTV options.
5. **GUIDE**: Access TV Guide.
6. **TV**: Switch source to watch TV.



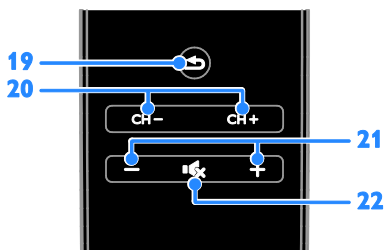
7. **CHANNEL GRID**: Access the TV channel list.
8. **SOURCE**: Access a connected device.
9. **SMART TV**: Access Smart TV features.
10. **FORMAT**: Change picture format.



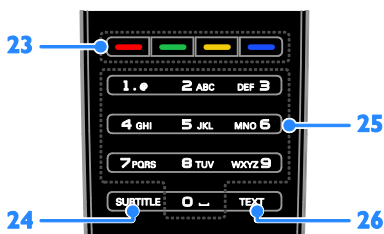
11. (**Home**): Access the Home menu.
12. **OK**: Confirm an entry or selection.
13. **Play buttons**: Control playback of media files.
14. (**Navigation buttons**): Navigate through menus and select items.



15. **≡ LIST:** Access the TV channel list.  
 16. **≡ ADJUST:** Access TV settings.  
 17. **i INFO:** Display information about current activity.  
 18. **□ OPTIONS:** Access currently available options.



19. **⏮(Back):** Return to the previous menu page or exit from a TV function.  
 20. **CH - / CH +:** Change channels.  
 21. **+/- (Volume):** Adjust volume.  
 22. **🔇(Mute):** Mute or restore audio.



23. **Colour buttons:** Select tasks or options. The buttons function according to the services offered by the broadcaster.  
 24. **SUBTITLE:** Switch subtitles on or off.  
 25. **0-9(Numeric buttons):** Select TV channels or enter text.  
 26. **TEXT:** Switch teletext on or off.

## EasyLink controls

**Note:** EasyLink controls are available when the connected device is HDMI-CEC compliant.

With EasyLink controls, you can control your TV and other HDMI-CEC devices with one remote control.

### Access EasyLink controls

- While you view content from a connected HDMI-CEC device, press **□ OPTIONS**.
- Select **[Show device keys]**, then press **OK**.
- Select the EasyLink control button, then press **OK**.

Read more on EasyLink in **Use more of your TV > Use EasyLink** (Page 23).

## Important information

### Safety

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

#### Risk of electric shock or fire!

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



- Never insert objects into the ventilation slots or other openings on the TV.
- Never expose the remote control or batteries to rain, water or excessive heat.
- Avoid force coming onto power plugs. Ensure that the power plug is fully inserted into the power socket. Loose power plugs can cause arcing or fire.
- When the TV is swivelled, ensure that no strain is exerted on the power cord. Strain on the power cord can loosen connections and cause arcing.
- To disconnect the TV from the mains power, the power plug of the TV must be disconnected. When disconnecting the power, always pull the power plug, never the cord. Ensure that you have full access to the power plug, power cord and outlet socket at all times.

#### **Risk of damage to the TV!**

- Two people are required to lift and carry a TV that weighs more than 25kg or 55lbs.
- When stand mounting the TV, use only the supplied stand. Secure the stand to the TV tightly. Place the TV on a flat, level surface that can support the combined weight of the TV and the stand.
- When wall mounting the TV, use only a wall mount that can support the weight of the TV. Secure the wall mount to a wall that can support the combined weight of the TV and wall mount. TP Vision Netherlands B.V. bears no responsibility for improper wall mounting that result in accident, injury or damage.
- If you need to store the TV, disassemble the stand from the TV. Never lay the TV on its back with the stand installed.
- Before you connect the TV to the power outlet, ensure that the power voltage matches the value printed on the back of the TV. Never connect the TV to the power outlet if the voltage is different.

- Parts of this product may be made of glass. Handle with care to avoid injury and damage.

#### **Risk of injury to children!**

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

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

#### **Risk of swallowing batteries!**

- The product/remote control may contain a coin-type battery, which can be swallowed. Keep the battery out of reach of children at all times!

#### **Risk of overheating!**

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

#### **Risk of injury, fire or power cord damage!**

- Never place the TV or any objects on the power cord.
- Disconnect the TV from the socket and aerial before lightning storms. During lightning storms, never touch any part of the TV, power cord or aerial cable.

#### **Risk of hearing damage!**

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

#### **Low temperatures**

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

## 3D, health warning

### Applicable on HFL7xx8 only.

- If you or your family have a history of epilepsy or photosensitive seizures, consult a medical professional before exposing yourself to flashing light sources, rapid image sequences or 3D viewing.
- To avoid discomfort such as dizziness, headache or disorientation, we recommend not watching 3D for extended periods of time. If you experience any discomfort, stop watching 3D and do not immediately engage in any potentially hazardous activity (for example driving a car) until your symptoms have disappeared. If symptoms persist, do not resume watching 3D without consulting a medical professional first.
- Parents should monitor their children during 3D viewing and ensure they do not experience any discomfort as mentioned above. Watching 3D is not recommended for children under six years of age as their visual system is not fully developed yet.

### 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 onscreen for extended periods of time. Stationary images include onscreen menus, black bars, time displays, etc. If you must use stationary images, reduce screen contrast and brightness to avoid screen damage.

## Notice

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The material in this manual is believed adequate for the intended use of the system. If the product, or its individual modules or procedures, are used for purposes other than those specified herein, confirmation of their validity and suitability must be obtained. TP Vision Netherlands B.V. warrants that the material itself does not infringe any United States patents. No further warranty is expressed or implied.

TP Vision Netherlands B.V. cannot be held responsible neither for any errors in the content of this document nor for any problems as a result of the content in this document. Errors reported to Philips will be adapted and published on the Philips support website as soon as possible.

### Terms of warranty

- Risk of injury, damage to TV or void of warranty! Never attempt to repair the TV yourself.
- Use the TV and accessories only as intended by the manufacturer.
- The caution sign printed on the back of the TV indicates risk of electric shock. Never remove the TV cover. Always contact Philips Customer Care for service or repairs.
- Any operation expressly prohibited in this manual, or any adjustments and assembly procedures not recommended or authorised in this manual, shall void the warranty.

## Pixel characteristics

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

## CE compliance

This product is in compliance with the essential requirements and other relevant provisions of Directives 2006/95/EC (Low Voltage), 2004/108/EC (EMC) and 2011/65/EU (ROHS).



## Compliance with EMF

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

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

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

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

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## Open source

This product contains software licensed under an open-source licence. For acknowledgments and licence texts, please refer to the electronic in-product user manual. TP Vision Netherlands B.V. hereby offers to deliver, upon request, a copy of the complete corresponding source code for the copyrighted open source software packages used in this product for which such offer is requested by the respective licences.

This offer is valid up to three years after product purchase to anyone in receipt of this information. To obtain source code, please send your request in English with product number to:

"Intellectual Property Department, TP Vision Netherlands B.V., P.O. Box 80077, 5600 KA Eindhoven, The Netherlands."

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## Trademarks and copyrights

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



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



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

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

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## Sustainability

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### Energy efficiency

This TV is designed with energy-efficient features. To access these features, press the **Green button** on the remote control.



- **Energy saving picture settings:** You can apply a combination of energy saving picture settings. While you watch TV, press the **Green button** and select **[Energy saving]**. Then select the **[Energy saving]** picture setting.
- **Screen off:** If you only want to listen to audio from the TV, you can switch off the TV display. Other functions continue to operate normally. While you watch TV, press the **Green button** and select **[Screen off]**.
- **Low standby power:** The advanced power circuitry reduces the power consumption of the TV to an extremely low level, without losing the constant standby functionality.
- **Auto switch off:** To conserve energy, set the TV to switch off automatically after a period of inactivity. While you watch TV, press the **Green button** and select **[Auto switch off]**. Then select the period after which the TV switches off.

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## Recycling

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 of 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 environment and human health.




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## Energy label

The European Energy Label informs you on the energy efficiency class of the product. The greener the energy efficiency class of this product is, the lower the energy it consumes.

On the label, you can find the energy efficiency class, the average power consumption of the product in use and the average energy consumption for 1 year. You can also find the power consumption values for the product on the Philips website for your country at [www.philips.com/TV](http://www.philips.com/TV).

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## Help and support

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### Visit the Philips website

Visit the Philips support website at [www.philips.com/support](http://www.philips.com/support).

On the Philips support website, you can also:

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

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### Contact Philips

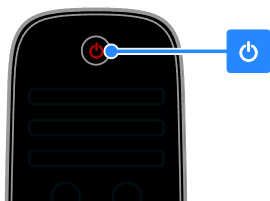
You can contact Philips Consumer Care in your country for support. The number is available in the leaflet accompanying this product or online at [www.philips.com/support](http://www.philips.com/support).

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

## 2 Use your TV

### Watch TV


#### Switch TV on or off




TV



#### Switch the TV on

- Connect the TV to the mains outlet and press the mains power switch.
- If the TV is on standby, press  on the remote control or on the rear panel of the TV.

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

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

#### Switch TV to standby

Press  on the remote control or on the rear panel of the TV.

The remote control sensor on the TV switches to red.

#### Switch off the TV

Turn off the mains power switch.  
The TV switches off.

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

#### Automatic switch off


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

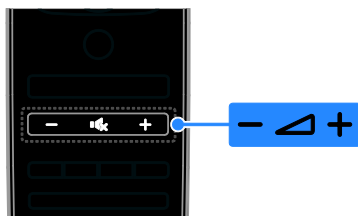
#### To disable automatic switch off

1. While you watch TV, press the **Green button** on the remote control.
2. Select **[Auto switch off]**, then press **OK**. A confirmation message is displayed.

### Adjust TV volume

#### Increase or decrease the TV volume



- Press **+/-** on the remote control.
- Press  on the side of the TV.



TV



#### Mute or unmute the TV volume

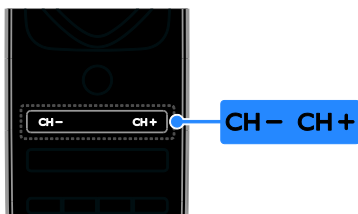
- Press  to mute the TV.
- Press  again to restore the volume.

#### Adjust headphone volume

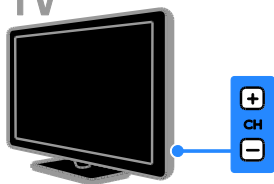
1. Press **⬆** > **[Setup]** > **[TV settings]** > **[Sound]**.
2. Select **[Headphones volume]**, then press **OK**.
3. Press the **Navigation buttons** to adjust the volume.

## Switch TV channels

- Press **CH +/-** on the remote control or TV.
- Press the **Numeric buttons** to enter a channel number.



TV



## Manage channel lists

After the channels have been installed, you can manage them:

- Rename channels
- Reorder channels
- Listen to digital radio

### Rename channels

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

1. While you watch TV, press **≡ LIST**. The channel list is displayed.
2. Select the channel to rename, then press **⌘ OPTIONS**.
3. Select **[Rename]**, then press **OK**.
4. Press the **Navigation buttons** to select each character, then press **OK**.

#### Tips:

- You can press **OK** in the entry screen to enable the **Onscreen Keyboard**.

- Press **[ABC]** or **[abc]** to switch between uppercase and lowercase letters.
5. Once complete, select **[Done]**, then press **OK** to confirm.
  6. Press **⬆** to exit.

## Reorder channels

After the channels have been installed, you can reorder the channel list.

**Note:** Channel changing while reordering channels is only supported for television sets with DVB-C/T reception.

1. While you watch TV, press **≡ LIST**. The channel list is displayed.
2. Select the channel to reorder, then press **⌘ OPTIONS**.
3. Select **[Reorder]**, then press **OK**.
4. Press the **Navigation buttons** to move the highlighted channel to another location, then press **OK**.
5. Select one of the following options, then press **OK**.
  - **[Insert]**: Insert the channel into the desired location.
  - **[Swap]**: Swap location with another channel.
6. Once complete, press **⌘ OPTIONS**, then select **[Exit]**.

## Listen to digital radio

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

1. While you watch TV, press **≡ LIST**. The channel list is displayed.
2. Press **⌘ OPTIONS**.
3. Select **[Select list]** > **[Radio]**, then press **OK**.
4. Select a radio channel, then press **OK**.

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## Select a source

### View from Home menu

After you have added the new device to the Home menu, you can select its icon to start using it.

1. Press **HOME**.
2. Select the device icon from the Home menu.
3. Press **OK** to confirm.

### View from Source menu

You can also press **SOURCE** to display a list of connector names. Select the connector that connects the device to the TV.

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

---

## Use smart settings

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

### Select your preferred picture setting

1. While you watch TV, press **ADJUST**.
2. Select **[Smart picture]**.
3. Select one of the following settings, then press **OK**:
  - **[Personal]**: Apply your personalised picture settings.
  - **[Vivid]**: Rich and dynamic settings, ideal for daytime viewing.
  - **[Natural]**: Natural picture settings.
  - **[Cinema]**: Ideal settings for movies.
  - **[Game]**: Ideal settings for games.
  - **[Energy saving]**: Settings that conserve the most energy.
  - **[Standard]**: Default settings that suit most environments and types of video.
  - **[Photo]**: Ideal settings for photos.
  - **[Custom]**: Customise and store your own picture settings.

### Select your preferred sound setting

1. While you watch TV, press **ADJUST**.
2. Select **[Smart sound]**.
3. Select one of the following settings, then press **OK**:

- **[Personal]**: Apply your personalised sound setting.
- **[Standard]**: Settings that suit most environments and types of audio.
- **[News]**: Ideal settings for spoken audio, such as the news.
- **[Movie]**: Ideal settings for movies.
- **[Game]**: Ideal settings for games.
- **[Drama]**: Ideal settings for drama programmes.
- **[Sports]**: Ideal settings for sports.

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## Change picture format

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

1. Press **ADJUST**.
2. Select **[Picture format]**, then press **OK**.
3. Select a picture format, then press **OK** to confirm.

The available picture formats depend on the video source:

- **[Auto fill]**: Adjust the picture to fill the screen (subtitles remain visible). Recommended for minimal screen distortion but not for HD or PC.
- **[Auto zoom]**: Enlarge the picture to fill the screen. Recommended for minimal screen distortion but not for HD or PC.
- **[Super zoom]**: Remove the black bars on the sides of 4:3 broadcasts. Not recommended for HD or PC.
- **[Movie expand 16:9]**: Scale 4:3 format to 16:9. Not recommended for HD or PC.
- **[Wide screen]**: Stretch 4:3 format to 16:9.
- **[Unscaled]**: Provide maximum detail for PC. Only available when PC mode is selected in the picture menu.

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## View programme guide

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### From broadcaster

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

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

**Note:** Programme guides are available in certain countries only.

### Set programme guide

Before you use the programme guide, check the following settings:

1. Press **⬆**.
2. Select **[Setup] > [TV settings] > [Preferences] > [Programme guide]**.
3. Select **[From the broadcaster]**, then press **OK**.

### Access the TV programme guide

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

### Use TV programme guide options

You can customise the displayed information to:

- Remind you when programmes start
  - Display only preferred channels
1. In the programme guide, press **⌂** **OPTIONS**.
  2. Select an option, then press **OK**:
    - **[Change day]**: Select the day to display.
    - **[More info]**: Display programme information.
    - **[Search by genre]**: Search TV programmes by genre.

---

### From the Internet

If your TV is connected to the Internet, you can receive programme guides over the Internet. Internet programme guides include:

- Channel schedules
- Synopsis of programmes

**Note:** Availability of Internet programme guides is dependent on your broadcaster.

### Set programme guide

Before you use the programme guide, check the following settings:

1. Press **⬆**.
2. Select **[Setup] > [TV settings] > [Preferences] > [Programme guide]**.
3. Select **[From network]** then press **OK**.

### Access the TV programme guide

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

**Note:** If you are viewing the programme guide for the first time, follow the onscreen instructions to update the guide.

### Use TV programme guide options

You can use the programme guide to:

- Schedule recordings of programmes
  - Identify channels
  - Enable subtitles when available
  - Show onscreen remote control
1. In the programme guide, press **⌂** **OPTIONS**.
  2. Select an option, then press **OK**:
    - **[Record]**: Set a scheduled recording.
    - **[Identify channel]**: Manually update channel information.
    - **[Select day]**: Select the day to display.
    - **[Manual record]**: Set a scheduled recording.
    - **[Show remote control]**: Display onscreen remote control.
    - **[Reload page]**: Refresh the page display.
    - **[Zoom page]**: Change zoom level of page display.
    - **[Security info]**: Display programme security information.
    - **[Subtitles]**: Enable or disable subtitles when available.

---

## Watch 3D

---

### What you need

Supported on HFL7xx8 only.

Your TV is a 3D TV. Before you watch 3D, read the health warning information in **Get started > Important information > 3D Health warning**.

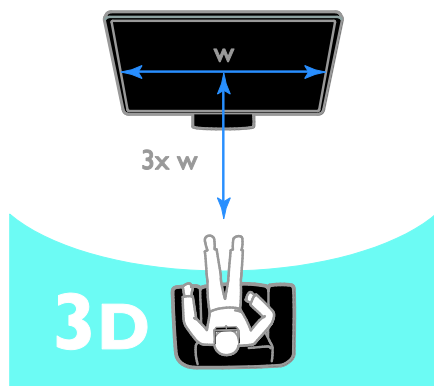
To watch 3D on this TV, you need the Philips Easy 3D passive glasses that are included with this TV. You can purchase additional Philips 3D glasses PTA416 (sold separately) from your local dealer.

**Note:**

- Passive 3D glasses from other manufacturers may not work or may offer less than optimal 3D viewing.
- Do not use the 3D glasses for any purpose other than watching 3D TV.

To experience the best 3D effect while you watch 3D programmes:

- Watch the TV away from direct sunlight.
- Sit at a height where the centre of the TV screen is at your eye level.
- Sit at a distance that is at least three times the width (w) of the TV screen. Do not sit more than 6 m away.



## Watch content

### Select a source with 3D

For 3D discs:

1. Play the disc on a 3D Blu-ray disc player that is connected to the TV HDMI connector.
2. Press **HOME**, then select the 3D Blu-ray disc player.

For 3D TV programmes:

Select **[Watch TV]** and switch to a TV channel that broadcasts 3D content.

### Switch on 3D

The first time that the TV detects a broadcast 3D signal, an onscreen message will prompt you to choose your preference.

- If you want the TV to switch to 3D automatically, select **[Automatic]**.
- If you want to be notified first, select **[Notify]**.
- If you don't want to be notified, select **[No 3D]**.

### Start 3D

The TV detects when 3D is available and prompts you to put on your 3D glasses to start watching. If the TV cannot detect the 3D signal due to a missing 3D signal tag, it displays images that overlap.

To switch the overlapping images to 3D, change the 3D format.

1. Press **III ADJUST**.

2. Select **[3D]**.

- If the TV displays pictures that overlap vertically, select **[3D - Side by side]**.
- If the TV displays pictures that overlap horizontally, select **[3D - Top / bottom]**.

## Switch off 3D

If you switch to another channel or a connected device, the TV switches back to 2D.

You can switch off 3D while watching a 3D programme.

1. Press **III ADJUST**.

2. Select **[3D depth on/off] > [Off]**, then press **OK**.

The programme is displayed in 2D, showing only the left side of the 3D picture.

---

## View media

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### What you can do

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

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### Play files from USB

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

#### Caution:

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

#### View USB contents

1. Connect the USB device to the USB connector on the TV.
2. Press **HOME**, select **[Browse USB]**, then press **OK**.
3. Select a file from the content browser, then press **OK** to start play.
4. Press the **Play buttons** on the remote control to control play.

---

### Play options

#### Watch video

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

- Press **II** to pause video.
- Press **◀/▶** to search backwards or forwards within a video.
- Press **CH - / CH +** to skip to the previous or next video.
- Press and hold **↵** to exit the content browser.

#### Video playback options

While you play video, press **□ OPTIONS** to access the following video options:

- **[Stop]**: Stop playback.
- **[Repeat]**: Repeat a video.
- **[Shuffle on] / [Shuffle off]**: Enable or disable random play of videos.
- **[Show info]**: Display the file information.

#### Listen to music

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

- Press **II** to pause.
- Press **◀/▶** to search backward or forward within a music track.
- Press **CH - / CH +** to skip to the previous or next video.
- Press and hold **↵** to exit content browser.

#### Music playback options

Press **□ OPTIONS** to access or exit the following music options:

- **[Stop]**: Stop audio play.
- **[Repeat]**: Repeat a track or an album.
- **[Play once]**: Play the track once.
- **[Shuffle on] / [Shuffle off]**: Enable or disable random play of tracks.
- **[Show info]**: Display the file information.

#### View pictures

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

Press **Navigation buttons** to search for a picture.

- Press and hold **↵** to exit the content browser.

#### Picture slideshow options

Press **□ OPTIONS** to access or exit the following picture options:

- **[Show info]**: Display the file information.
- **[Stop]**: Stop slideshow.
- **[Rotate]**: Rotate the file.
- **[Repeat]**: Repeat the slideshow.
- **[Play once]**: Play the file once.
- **[Shuffle off] / [Shuffle on]**: Enable or disable random display of pictures in the slideshow.



- **[Slideshow speed]:** Set the display time for each picture in the slideshow.
- **[Slideshow transition]:** Set the transition from one picture to the next.

## Browse Smart TV

### What you can do

With Internet Applications (apps), which are specially adapted Internet websites for your TV, you can enjoy these features and more:

- Read newspaper headlines
- Watch and rent videos
- Check weather forecasts
- Catch up with TV programmes that you missed

Find out more on Smart TV services from the Smart TV forum website, [www.supportforum.philips.com](http://www.supportforum.philips.com).

#### Note:

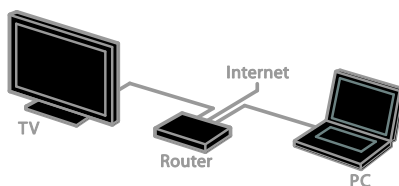
- Smart TV services and apps vary from country to country.
- Availability of catch-up TV apps and their TV programmes is subject to your TV's country setting. To find out which TV programmes are available, access the TV programme guide within the app.
- Smart TV displays one page at a time, in full screen.
- Certain websites may not display completely. Functions that require plug-ins may be unavailable.
- TP Vision Netherlands B.V. bears no responsibility regarding the content and the quality of the content provided by the content service providers.

### What you need

1. On your home network, connect the TV to the Internet.
2. On your TV, configure Smart TV.
3. (Optional) On your PC, register with Philips to enjoy exclusive benefits and receive updates on product information. You can register at any time.

### Connect the TV to the Internet

1. On your home network, connect a router with a high-speed connection to the Internet.
2. Switch on the router.
3. Install the network.



### Start Smart TV

1. Press **⬆**, select **[Smart TV]**, then press **OK**.
2. Follow the onscreen instructions to complete registration.

You can also press **SMART TV** on the remote control to access Smart TV.

### Access Smart TV Applications (Apps)

You can access apps through the Smart TV home page. The icons on this page represent the apps installed on your TV.

- Press the **Navigation buttons** to select an app for access, then press **OK** to confirm.
- Browse Internet websites with Internet apps.
- Read the Smart TV quick guide on the Smart TV home page for more information.

### Access websites

1. Select an Internet app, then press **OK**.
2. Select the web address field, then press **OK**.

A keyboard appears on the screen.

3. Press the **Navigation buttons** and **OK** to enter each character of the web address.

**Tip:** You can also use the **Numeric buttons** on the TV remote control to enter a web address.

### Zoom page

To zoom in and out on an Internet page, do the following:

1. Press **⏏** **OPTIONS**, then select **[Zoom page]**.
2. Use the slider bar to set the enlargement.
3. Use the **Navigation buttons** to jump between highlighted items and scroll through an Internet page.

### Scroll pages

Press **P+** and **P-** to scroll up and down on a web page.

### Reload page

If a page does not load correctly, press **⏏** **OPTIONS**, then select **[Reload page]**.

### View security info

To view security information about a page, press **⏏** **OPTIONS**, then select **[Security info]**.

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## Interactive TV

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### What you can do

With interactive TV, you can view additional information or entertainment pages provided by digital TV broadcasters. You can experience true interactivity by responding directly to the digital content.

**Note:** You cannot download files to your TV with this feature.

Broadcasters use various interactive TV systems such as:

- iTV (Interactive TV - MHEG)
- MHP (Multimedia Home Platform)
- DTVi (Digital TV interactive)

Visit the broadcaster's website for more information to see which interactive system is available in your country.

Here are some examples of interactive activities you can enjoy:

- View information about TV programmes
- Take part in a quiz or competition
- Play games
- Shop online

- Pay for a video-on-demand (VOD) programme
- Vote
- Chat

---

### What you need

To enjoy this service, you need the following:

- digital channels with interactive services
- A wired or wireless home network, connected with a Universal Plug and Play (uPnP) router.

---

### Access interactive TV

Most channels that offer interactive services invite you to press the **Red button** or **OK** to open their interactive programme.

1. Switch to a digital channel with interactive services.

While the application is loading, a blinking symbol is displayed. When the application has loaded, an icon is displayed.

2. Press the **Red button** or **OK** to launch the interactive application.
3. Follow the onscreen instructions.
4. Press **⏏** or the onscreen button to close the interactive page.

To navigate the interactive pages, use:

- The **Navigation buttons**
- The **Colour buttons**
- The **Numeric buttons**
- **↶**

To control video play within interactive pages, press:

- **▶** to play
- **⏏** to pause
- **■** to stop

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## Ambilight

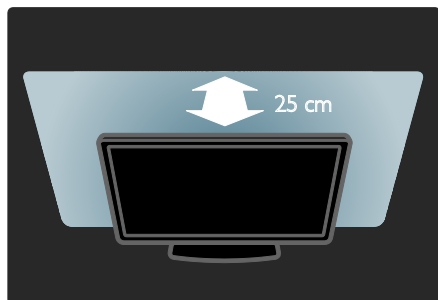
---

### What you can do

\*Available on certain models only.

Ambilight gives a more relaxed viewing experience. It automatically adjusts the colour and brightness of the light to match the TV picture.

## What you need



- For the best Ambilight effect, position the TV 25cm away from the wall.
- Dim the light in the room.

## Switch on

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

## Change settings

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

1. While you watch TV, press **🏠 > [Setup]**.
2. Select **[TV settings] > [Ambilight]**.
3. Select a setting to adjust:
  - **[Dynamic]**: Adjust Ambilight between relaxed and dynamic levels. Available only if Ambilight **[Colour]** is set to **[Dynamic]**.
  - **[Brightness]**: Adjust the brightness of Ambilight.
  - **[Colour]**: Select a predefined colour.
  - **[Custom colour]**: Set your own Ambilight colour. To access this option, set **[Ambilight] > [Colour] > [Custom]**.
  - **[Separation]**: Adjust the difference in colour levels on each side of the TV. Turn off this feature for a dynamic and uniform Ambilight colour.
  - **[TV switch off]**: Select how Ambilight switches off when the TV is switched off.

- **[Wall colour]**: Select the colour of the wall behind the TV. Ambilight corrects its colours to suit the colour of the wall.

# 3 Use more of your TV

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## Play games

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### Add a game console

You can play games projected on your TV. Before you start, connect your game console to this TV. Read **Connect your TV >**

**Connect devices > Game console** (Page 39).

For easy access, add the game console to the Home menu.

1. Press **⬆**.
2. Select **[Add your devices] > [Game console]**, then press **OK**.
3. Follow the onscreen instructions to add the game console.

---

### Game settings

You can optimise the TV display for gaming without picture lag with the **[Game]** option in the **[Smart picture]** settings.

- If you add the game console to the Home menu as **[Game console]**, the TV switches to the game setting automatically.
- If your game console is automatically added to the Home menu as a Blu-ray disc player or DVD player, set the **[Smart picture]** setting to **[Game]** before you start playing.

### Switch to Game setting

1. Press **⏏ ADJUST**.
2. Select **[Smart picture] > [Game]**, then press **OK**. The TV is ready for gaming.

**Note:** When your gaming session ends, switch back to your usual **[Smart picture]** setting.

---

### Start a two-player game

Supported on HFL7xx8 only.

Some games offer multi-player and split-screen gaming. With the 3D technology of this TV, you can set the split-screen to display as two full screen views. Two players watch the same TV but see two different screens to play the game. To view each screen, you need a pair of gaming glasses for each player.

### What you need

- Use the two-player kit that comes with two pairs of glasses - PTA436 (sold separately).
- Connect the game console to the HDMI connector on this TV.

### Start a two-player game

1. Select the game console in the Home menu, then press **OK**.
2. On the game console, start the game and select the multi-player or two-player mode. Select the mode for split-screen viewing.
3. On the TV remote control, press **⏏ ADJUST**, then select **[Two-player gaming]**.
4. Select the format in which the split-screen game is displayed: **[Side by side]** or **[Top / bottom]**.
5. Press **OK**.

The TV shows the two screens as full screens.

To watch each of the two different screens, each player puts on one of the pairs of glasses - player 1 or player 2.

### Switch between normal and split-screen view

In two player split-screen view, you can switch back and forth from split-screen to the combined view, to be able to read the game menu or game scores.

To switch views back and forth, press **OK** on the remote control of the TV.

- To stop the two player split-screen view, press **⬆**, then select another activity.
- To switch back to watching 3D content from a DVD player, press **⏏ ADJUST**. Select **[Two-player gaming] > [Off]**, then press **OK**.

## View Text

### Select a page

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

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

### Text options

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

## Text language

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

1. Press **HOME**.
2. Select **[Setup] > [Channel settings]**.
3. Select **[Languages] > [Primary Text]** or **[Secondary Text]**.
4. Select a language, then press **OK**.

### Subpages

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

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

### Search

You can search for a word or number that exists on the current text page.

1. While you are viewing text, 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. To exit the search, press **▲** until no word or number is highlighted.

### Digital text

If a digital TV channel's broadcaster offers dedicated digital text or interactive services, you can view digital text. Such channels, such as BBC1, may have digital text with more interactive features.

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

When in digital text:


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

---

## Text 2.5

With Text 2.5, you can view text with more colours and better graphics than normal text. If Text 2.5 is broadcast by a channel, it is switched on by default.

### To switch Text 2.5 on or off

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

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## Set locks and timers

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### Clock

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

**\*Available on certain models only.**


### Display the TV clock

While you watch TV, press  **CLOCK**.

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

### Change the clock mode

You can change the clock mode to automatic or manual. By default, it is set to automatic mode, which synchronises it to Coordinated Universal Time (UTC). If your TV cannot receive UTC transmissions, change the clock mode to **[Manual]**.

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

### Enable or disable daylight saving time

You can enable or disable daylight saving time depending on your region. Before you enable/disable daylight saving time, set the clock mode to **[Country dependent]**.

1. In the **[Clock]** menu, select **[Daylight saving]** > **[Daylight saving time]** or **[Standard time]**, then press **OK**. Daylight saving time is enabled or disabled.

### Set the clock manually


You can set the date and time manually. Before you start, set the clock mode to **[Manual]**.

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

---

### Sleeptimer

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


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 ten minutes. To switch off the sleeptimer, set it to zero minutes.
4. Press **OK** to activate the sleep timer.  
After the specified time, the TV switches to standby.

---

### Child lock

To protect children from unsuitable TV programmes, 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

You can set your TV to display only programmes with age ratings lower than your child's age. This restriction only applies to digital channels from broadcasters that rate their programmes according to age.

1. Press **⏠**.
2. Select **[Setup] > [Channel settings]**.
3. Select **[Child lock] > [Parental rating]**.  
A message prompts you to enter the child lock code.

4. Enter the child lock code with the **Numeric buttons**.
5. Select an age rating, then press **OK**.  
All programmes above the selected age rating are blocked.

For information on child lock codes, see **Use more of your TV > Set locks and timers > Child lock** (Page 22).

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## Use EasyLink

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### What you can do

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

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

After you have switched on Philips EasyLink, the following features are available:

### One-touch play

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

### One-touch standby

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

### EasyLink remote control

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

### System audio control

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

### Synchronise audio

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

### Retain picture quality

If your TV picture quality is affected by the picture-processing features of other devices, you can switch on Pixel Plus Link to retain picture quality.

### Maximise display for subtitled video

Some video subtitles can create a separate subtitle bar under the video, which limits the video display area. To maximise the video display area, you can switch on auto subtitle shift and display the subtitles on top of the video image.

### Listen to another device when TV is in standby

You can listen to a connected HDMI-CEC compliant device through the TV speakers, even when the TV is in standby.


---

## What you need

- Connect at least two HDMI-CEC compliant devices through HDMI. See **Connect your TV > About cables > HDMI** (Page 35).
- Configure each HDMI-CEC compliant device properly

- Switch on EasyLink

### Switch on EasyLink


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

---




### Control devices simultaneously

If you connect multiple HDMI-CEC devices that support this setting, you can control all such devices through the TV remote control.

**Note:** This is an advanced setting. Devices that do not support this setting will not respond to the TV remote control.




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

#### Tips:

- To switch back to TV control, press , then select **[Watch TV]**.
- To control another device, press , then select the device from the Home menu.
- To exit, press .



### EasyLink buttons

You can control HDMI-CEC compliant devices with the following buttons on the TV remote control:

- : Switch the TV and the connected device on or to standby.
- **Play buttons:** Control video or music play.
- **Numeric buttons:** Select a title, chapter or track.
- **OK:** Start, pause or resume play on the connected device, activate a selection, or access the device menu.
- : Search backwards and forwards on the connected device.
- : Display the TV Home menu.

You can also control devices through other EasyLink buttons that are available through the On-Screen Remote Control (OSRC).

### To access the OSRC


1. While you view content from a connected device, press  **OPTIONS**.
2. Select **[Show device keys]**, then press **OK**.
3. Select an onscreen button, then press **OK**.
4. Press  to exit.

---

### Select speaker output

If a connected device is HDMI CEC compliant, you can output TV audio through an HDMI cable. Additional audio cables are not required. Make sure that you connect the device to the HDMI connector on the TV. See **Connect your TV > About cables > HDMI (Page 35)**.

#### Configure TV speakers


1. Press .
2. Select **[Setup]** > **[TV settings]** > **[EasyLink]** > **[TV speakers]**.

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

- **[Off]:** Switch off TV speakers.
- **[On]:** Switch on TV speakers.
- **[EasyLink]:** Stream TV audio through the connected HDMI-CEC device. Switch the TV audio to the connected HDMI-CEC audio device through the Adjust menu.
- **[EasyLink autostart]:** Turn off TV speakers automatically and stream TV audio to the connected HDMI-CEC audio device.

### Select speaker output with the adjust menu

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

1. While you watch TV, press  **ADJUST**.
2. Select **[Speakers]**, then press **OK**.
3. Select one of the following, then press **OK**:

- **[TV]:** On by default.  
Stream TV audio through TV and the connected HDMI-CEC audio device until the connected device switches to system audio control. TV audio is then streamed through the connected device.



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

### With HDMI ARC compliant device

If an HDMI-ARC compliant device is connected through the HDMI ARC connector to the TV, you can output TV audio through the HDMI cable. You will not need an additional audio cable.

1. Press **⬆**.
2. Select **[Setup] > [TV settings] > [EasyLink]**.
3. Select **[HDMI 1 - ARC]**.
4. Select one of the following, then press **OK**.
  - **[On]:** Hear the TV audio through the connected ARC compliant device.
  - **[Off]:** Hear the TV audio through the TV speakers, or through a device connected through the digital audio out connector.
5. Control playback with the **◀▶** buttons on the TV remote.

### Synchronise audio

If your TV is connected to a home theatre system (HTS) and there is a lag between the picture and the sound, you can synchronise them.

- If you are using a Philips HTS, the audio and video are automatically synchronised.
- For other HTS brands, you need to switch on the audio sync delay on the TV to synchronise the audio and video.

### Switch on Audio Out Delay

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

### Retain picture quality

If your TV picture quality is affected by the picture-processing features of other devices, you can switch on Pixel Plus Link.

#### Switch on Pixel Plus Link

1. Press **⬆**.
2. Select **[Setup] > [TV settings] > [EasyLink]**.
3. Select **[Pixel Plus link] > [On]**, then press **OK**.

### Maximise video display

Some subtitles create a separate subtitle bar under the video, which limits the video display area. To maximise the video display area, you can switch on auto subtitle shift. The subtitles are then displayed over the video image.

#### Switch on auto subtitle shift

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

**Note:** Make sure that the picture format of the TV is set to **[Auto format]** or **[Movie expand 16:9]**.

### Listen to another device while TV is in standby

You can listen to a connected HDMI-CEC compliant device through the TV speakers, even while the TV is in standby.

1. Press **III ADJUST** to receive audio from the connected Philips EasyLink device. If available, audio only mode is switched on.
2. Accept the prompt on the TV to turn off the TV screen.
3. Control the audio playback with the TV remote control.

# 4 Professional mode

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## What you can do

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In professional mode, you can configure the TV for hotel use. Features include:

- Changing professional setup items, such as power and speaker settings.
- USB cloning
- Downloading software via RF, including SSB firmware, Theme TV and hotel information.

## Enter and enable professional mode

---

### Enter Professional mode

1. Press **⬆** on the remote control.
2. Press **3, 1, 9, 7, 5, 3, ⬅**. The professional mode menu appears.

### Enable professional mode

---

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

### Store changes to professional mode

---

After making changes to the TV in professional mode, you must store the changes to enable them.

1. In the professional mode menu, select **[Store]**, then press **OK**.
2. Follow the onscreen instructions to store the changes that you have made.

---

## Change professional setup settings

There are several professional setup settings that you can change to configure the TV for hotel use.

---

### Change menu language

1. In professional mode, select **[Professional Settings]** > **[Professional Settings menu language]**.
2. Change the setup menu language to English (default), French, German or Italian.

---

### Change native UI source

1. In professional mode, select **[Professional Settings]** > **[Native UI Source]**.
2. Change the source of the user interface to browser or native (HTML or Flash).

---

### Change Room ID

1. In professional mode, select **[Professional Settings]** > **[Room ID]**.
2. Set a room ID for the TV. Restricted to numeric characters only, with a maximum of four characters.

---

### Change Smart TV settings

1. In professional mode, select **[Professional Settings]** > **[Smart TV Settings]**.
2. Use the **Navigation buttons** to select a setting to change, then press **OK**:
  - **[NetTV]**: Under **[Configure Net TV]**, select **[Off]** to disable NetTV, select **[On]** to display the Net TV portal provided by the Philips Net TV server. If you select **[Configuration]**, **[Hotelier]** and **[Profile]** options become visible – **[Hotelier]** and **[Profile]** are text entry fields that allow you to input data to access the hotel's portal homepage.

- **[SmartUI]**: Smart UI allows hotels to display a HTML portal when users select **[Browse Portal]** from the Home menu. Select **[Off]** to disable this feature and hide **[Browse Portal]** from the Home menu. Selecting **[Server]** links to a URL and **[Local]** displays locally-stored HTML pages. The HTML files and supporting content (images, video etc.) stored in the TV should not exceed a total of 4 MB.
- **[SmartUI Backup]**: If **[SmartUI]** is on, enabling the backup automatically launches locally-stored HTML content if the link to an external server or URL does not work.
- **[Icon Label]**: Change the label of the **[Browse Portal]** icon.
- **[Portal URL]**: Enter the URL to access from **[Browse Portal]**.

---

## Change Web services

1. In professional mode, select **[Professional Settings] > [Web Services]**.
2. Use the **Navigation buttons** to select a setting to change, then press **OK**:
  - **[AutoDiscovery]**: Enable auto discovery by selecting **[On]**. Disable it by selecting **[Off]**.
  - **[TV Registration]**: If TV registration is enabled by selecting **[On]**, the TV registers with the server defined in **[Smart TV Settings]**. Disable TV registration by selecting **[Off]**.
  - **[SI Services]**: If SI Services is enabled by selecting **[On]**, users view the server defined in **[Smart TV Settings]** when they select **[Browse Portal]** in the home menu. If SI Services is disabled, the locally-stored HTML files (defined in **[Smart TV Settings]**) will launch when **[Browse Portal]** is selected.

---

## Change switch on settings

Customise the way the TV behaves when it is switched on.

1. In professional mode, select **[Professional Settings] > [Switch on settings]**.

2. Use the **Navigation buttons** to select a setting to change, then press **OK**:

- **[Switch on volume]**: Switches to a predefined volume.
- **[Maximum volume]**: Limits the maximum volume of the TV.
- **[Switch on channel]**: Switches to a predefined channel.
- **[Switch On Feature]**: Starts up in Theme TV, Smart UI or Net TV modes.
- **[Switch On Picture Format]**: Switches to a predefined picture format.

---

## Change welcome message

Create and display a welcome message for your guests.

1. In professional mode, select **[Professional Settings] > [Welcome message]**.
2. Use the **Navigation buttons** to select a setting to change, then press **OK**:
  - **[Display message]**: Switch the welcome message on or off.
  - **[Welcome message line 1]**: Enter the first line of welcome text.
  - **[Welcome message line 2]**: Enter the second line of welcome text.
  - **[Clear]**: Clear the welcome message.
  - **[Message timeout]**: Set how long to display the welcome message.

---

## Change control settings

Control guest access to the TV.

1. In professional mode, select **[Professional Settings] > [Control settings]**.
2. Use the **Navigation buttons** to select a setting to change, then press **OK**:
  - **[Local keyboard lock]**: Select **[On]** to lock all TV buttons except **0**. Select **[Off]** or **[All]** to unlock or lock all buttons respectively.
  - **[Remote control lock]**: Select **[On]** to disable all buttons on the remote control. Note that you can still enter the professional setup menu by pressing **3, 1, 9, 7, 5, 3, 16x**.
  - **[OSD display]**: Enable or disable on-screen information.

- **[High security mode]:** Select **[On]** to restrict access to the professional setup menu.
- **[Welcome Logo]:** Enable or disable the welcome logo that appears when the TV starts.
- **[Hotel Info]:** Enable or disable the welcome message.
- **[Browse USB]:** Hide or unhide the **[Browse USB]** icon in the home menu.
- **[Auto scart]:** Enable or disable the auto SCART feature – this feature allows a connected SCART device to turn the TV on or off.
- **[Easylink Break-in]/[Easylink control]/[Easylink Application menu]:** Enable or disable access to various EasyLink features.
- **[Auto USB]:** Enable or disable access to a connected USB storage device.
- **[SXP BaudRate]:** Select a baud rate value (38400 or 19200).
- **[Enable CI slot]:** Enable or disable access to the Common Interface slot.
- **[Enable Teletext]:** Enable or disable access to Teletext.
- **[Enable MHEG]:** Enable or disable access to MHEG channels. Applicable to UK only.
- **[Enable EPG]:** Enable or disable access to the Electronic Programme Guide.
- **[Subtitle On StartUp]:** Enable or disable subtitles when the TV starts.
- **[Enable subtitles]:** Enable or disable subtitles.
- **[Enable Channel Map]:** Enable or disable channel mapping.
- **[Source setup]:** Lists all supported connectors on the TV. A disabled connector will not be visible from the Source menu.
- **[Joint Space]:** Enable or disable the Joint Space feature.
- **[Freeze on no signal]:** Determine how the TV behaves if there is no TV signal.
- **[Simply Share]:** Enable or disable the Simply Share feature.

- **[Scrambled Program OSD]:** When disabled, scrambled programmes will not be visible to guests.

---

## More professional setup settings

---

### Change power settings

Customise the way the TV behaves when it is switched on.

1. In professional mode, select **[Professional Settings]** > **[Power settings]**.

2. Use the **Navigation buttons** to select a setting to change, then press **OK**:

- **[Power on]:** Determine whether the TV goes to standby when it is switched on.
- **[Low power standby]:** Determine whether standby mode is regular (fast) or green (low energy).
- **[Smart power]:** Enable or disable energy saving mode.
- **[Auto Power Down]:** Set the TV to automatically switch off if inactive for four hours or more.
- **[Delayed reboot]:** Enable or disable a delay in standby.
- **[Standby Delay Timeout]:** Set the period of standby delay.

---

### Change clock settings

Clock settings are only available on certain models.

1. In professional mode, select **[Professional Settings]** > **[Clock settings]**.

2. Use the **Navigation buttons** to select a setting to change, then press **OK**:

- **[Time Setting]:** Manually enter the time.
- **[Time Download]:** Enable or disable auto time download. If enabled, the time is extracted from a download channel.
- **[Download Country]:** Set the country in which the TV is being installed.
- **[Download Program]:** Define which channel to extract the time from.

- **[Time Offset]:** Add to or subtract from the extracted time value.
- **[Buzzer Volume]:** Enable or disable the clock buzzer.
- **[Daylight saving]:** Enable or disable daylight saving.
- **[Reference Time and Date]:** Define whether the time and date are referenced from the TV.

---

## Change feature settings

1. In professional mode, select **[Professional Settings]** > **[Feature settings]**.

2. Use the **Navigation buttons** to select a setting to change, then press **OK**:

- **[Multi RC]:** Pair up to four RCs to a TV. Each RC is associated with one of four colour keys.
- **[My Choice]:** Enable or disable access to premium channels (MyChoice).
- **[MyChoice Pin entry]:** Request PIN code once or every time the TV restarts.
- **[Theme TV]:** Enable or disable Theme TV – Theme TV allows channels to be grouped under themes.
- **[Vsecure]:** Vsecure prevents unauthorised viewing and copying of video – use this setting to change modes, load and erase keys.

---

## Change speaker settings

Set the audio output of the TV. If independent external speakers are attached, they will match the audio of the TV speakers.

1. In professional mode, select **[Professional Settings]** > **[Speaker settings]**.

2. Use the **Navigation buttons** to select a setting to change, then press **OK**:

- **[TV Speaker Enable]:** Enable or disable TV speakers.
- **[Independent Main Speaker Mute]:** Enable or disable external speakers.
- **[Default Main Speaker Volume]:** Define the default volume to be applied when speakers are unmuted.

- **[Headphone]:** Define the default headphone volume to be applied when speakers are unmuted.

---

## Restore factory defaults

In professional mode, select **[Professional Settings]** > **[Factory default]** to reset TV settings to factory default values.

---

## Change non-professional TV settings

In professional mode, select **[TV setup]**, then press **OK**.

The TV switches to the guest setup menu, which allows you to change picture and sound settings, menu languages, child lock and preferences. For more information on the guest setup menu, see **Set up your TV** (Page 31).

---

## Change channel settings

In professional mode, select **[Channel setup]**, then press **OK**. The channel grid appears. To adjust channel settings, press **⏏** **OPTIONS** :

- **[Rename]:** Rename channels.
- **[Reorder]:** Reorder channels in the channel list.
- **[Show hidden channels]:** Display all hidden channels.
- **[Hide channel]:** Select and hide channels in the channel list.
- **[Blank channel]:** Allow a channel to be selected without displaying content.
- **[Theme TV setup]:** Group channels together into themes.

---

## Clone settings

You can easily clone TV settings from one Philips TV to another. The feature also allows you to download software updates via RF or IP (Internet Protocol).

---

## Clone TV settings

Easily copy TV settings to a USB storage device, then clone the settings onto another Philips TV.

### Copy TV settings to USB

1. Connect a formatted USB storage device to a USB connector on the TV.
2. In professional setup menu, select **[Clone/Upgrade] > [Clone to TV]**, then press **OK**. All TV settings are copied to the USB device.

### Clone TV settings to another TV

1. Connect the USB device to the Philips TV to be cloned.
2. In professional setup menu, select **[Clone/Upgrade] > [Clone to USB]**, then press **OK**. All TV settings are cloned to the TV.

---

## Download software via RF

The TV supports downloading of software via RF (Radio Frequency).

1. In the professional setup menu, select **[Clone/Upgrade] > [RF Upgrade]**.
2. Use the **Navigation buttons** to select a setting to change, then press **OK**:
  - **[Enable]**: Enable or disable RF download.
  - **[Auto Upgrade]**: Enable or disable automatic upgrade of the software.
  - **[SW Type]**: Specify the type of software to download.
  - **[Program Info]**: Specify RF details such as frequency, modulation and connection type (cable or aerial).
  - **[Start upgrade]**: Start RF download. Once the TV has successfully downloaded the software, it automatically installs the downloaded data onto the TV.

---

## IP software upgrade

The TV supports software upgrades via IP (Internet Protocol).

1. In the professional setup menu, select **[Clone/Upgrade] > [IP Upgrade]**.

2. Use the **Navigation buttons** to select a setting to change, then press **OK**:

- **[Enable]**: Enable or disable IP upgrade.
- **[Auto Upgrade]**: Enable or disable automatic upgrade of the software.
- **[SW Type]**: Specify the type of software to upgrade.
- **[Start upgrade]**: Start the upgrade and display the status page.

---

## Control Express Box

To connect this TV to a setup box, you will need an Express Box as an interactive system device. You can control the device with these settings:

- **[Software Upgrade]**: Upgrade the software of the connected Express Box through RF (radio frequency) or from a connected USB.
- **[Clone Channels To Special Map]**: Copy all channels from the Native Channel list to a Hotel Specific Channel list.
- **[SP communication]**: Select the communication protocol between the Express box and the setup box.

To upgrade the TV software that controls hotel-specific features with the connected Express Box (sold separately).

1. In the professional setup menu, select **[Express Box] > [Software Upgrade]**.
2. Use the **Navigation buttons** to select a setting to change, then press **OK**.

# 5 Set up your TV

## Note for professional installers

These settings are accessible to guests. They can also be accessed in the professional mode menu by selecting **[TV setup]**.

## Picture and sound

### More picture settings

You can change the settings in the Picture menu.

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

**Note:** Options marked with a \* are available for certain models only.

- **[Smart picture]:** Access predefined smart picture settings.
- **[Reset]:** Reset to default factory settings.
- **[Backlight contrast]:** Adjust the contrast of the TV backlight.
- **[Brightness]:** Adjust the intensity and details of the dark areas.
- **[Colour]:** Adjust the level of colour saturation.
- **[Hue]:** Compensate colour variations in NTSC transmissions.
- **[Sharpness]:** Adjust sharpness in the image.
- **[Noise reduction]:** Filter and reduce noise in the image.
- **[Tint]:** Adjust the colour balance in the image.
- **[Custom tint]:** Customise tint setting.
- **[Pixel Plus HD] / [Pixel Precise HD]\*:** Control advanced settings to fine-tune each pixel to match surrounding pixels. This setting produces a brilliant, high-definition image.
  - **[HD Natural Motion]\*:** Reduce motion judder and reproduce smooth motion.
  - **[Clear LCD]\*:** Enable superior motion sharpness, better black level, high contrast with a flicker-free, quiet image and a larger viewing angle.
  - **[Super resolution]:** Enable superior sharpness, especially on lines and contours in the picture.
  - **[Dynamic contrast]:** Set the level at which the TV automatically enhances details in the dark, middle and light areas of the picture.
  - **[Dynamic backlight]:** Reduce power consumption by dimming the TV backlight to match room lighting conditions.
  - **[MPEG artefact reduction]:** Smooth the digital transitions in the picture.
  - **[Colour enhancement]:** Set the colours to be more vivid and improve the resolution of details in bright colours.
  - **[Gamma]:** Non-linear setting for picture luminance and contrast.
  - **[Video contrast]:** Change the intensity of the bright areas, keeping dark areas unchanged.
- **[PC mode]:** Allow picture settings to be changed when a PC is connected to the TV through HDMI. If enabled, you can select **[Picture format]** > **[Unscaled]** which provides maximum detail for display of PC content.
- **[Light sensor]:** Adjust settings dynamically to match lighting conditions.
- **[Picture format]:** Change the picture format.
- **[Screen edges]:** Change the picture size.

- **[Picture shift]:** Move the position of the picture. You cannot select this setting if the selected picture format is **[Auto fill]**, **[Auto zoom]** or **[Wide screen]**.
- **[3D]\*:** Change the 3D picture format.
- **[3D depth on/off]\*:** Enable or disable 3D.
- **[Switch to 3D]\*:** Specify the way the TV switches to 3D.
- **Available for certain models only.**

---

## More sound settings

You can change the settings in the Sound menu.

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

- **[Smart sound]:** Access predefined smart sound settings.
- **[Reset]:** Reset to factory default settings.
- **[Bass]:** Adjust the bass level.
- **[Treble]:** Adjust the treble level.
- **[Surround]:** Enable spatial sound.
- **[Headphones volume]:** Adjust headphone volume.
- **[Auto volume leveling]:** Automatically reduce sudden volume changes, for example when switching channels.
- **[Balance]:** Adjust the balance of the left and right speakers.
- **[Digital output format]:** Select the type of audio output through the digital audio output connector. Select **[Stereo]** for stereo sound or **[Multichannel]** to output audio to home theatre.

---

## Select audio format

If a digital TV channel broadcaster streams audio in several formats, you can select an audio format.

1. Press **⬆**.
2. Select **[Setup] > [Channel settings] > [Languages]**.
3. Select a setting, then press **OK**.

- **[Preferred audio format]:** Receive standard audio format (MPEG) or advanced audio formats (AAC, EAC-3 or AC-3 if available).
- **[Mono/Stereo]:** If stereo broadcasting is available, select mono or stereo audio.

---

## Reset picture and sound

You can restore the default picture and sound settings, while the channel installation settings remain the same.

1. While you watch TV, press **⬆**.
2. Select **[Setup] > [TV settings] > [Factory settings]**, then press **OK**.

All TV settings (except for channel settings) are reset to the default factory settings.

---

## Channel installation

Install DVB-T/T2, DVB-C or analogue channels broadcast over cable.

1. Press **⬆**.
2. Select **[Setup] > [Search for channels] > [Reinstall channels]**.
3. Select the country of installation.
4. Select **[Settings] > [Installation medium]**.
5. Select the type of channels to install.
  - **[DVB-T/T2 ]:** To install DVB-T/T2 channels, select **[On]**.
  - **[DVB-C ]:** To install DVB-C channels, select **[On]**.
  - **[Analog]:** To install analogue channels, select **[On]**.

---

## Channel settings

---

### Update channel list

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

By default, when there are changes to these channel lists, the TV updates them automatically. You can also switch off the automatic update or manually update the channels.




**Note:** If you are prompted to enter a code, enter '8888'.

### Automatic update

To add or remove digital channels automatically, leave the TV in standby mode. The TV updates channels and stores new channels every day. Empty channels are removed from the channel list.

### Switch off the channel update message

If a channel update is performed, a message is displayed at startup. You can switch off this message.

1. Press .
2. Select **[Setup]** > **[Channel settings]**.
3. Select **[Channel installation]** > **[Channel update message]**.
4. Select **[Off]**, then press **OK**.

### Switch off automatic updates


In the **[Channel installation]** menu, select **[Automatic channel update]** > **[Off]**.

## Language settings

### Audio language

#### Audio languages for digital channels


For digital channels with multiple audio languages, you can select the default audio language that is broadcast.

1. Press .
2. Select **[Setup]** > **[Channel settings]** > **[Languages]**.
3. Select a setting, then press **OK**.
  - **[Primary audio]:** If this language is broadcast, it is selected by default.
  - **[Secondary audio]:** If the primary audio language is not broadcast, select this language.


## Universal access settings

### Switch on



Some digital TV broadcasters provide special audio and subtitle features for people who are hearing or visually impaired. You can switch these features on or off.

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


### Hearing impaired access

**Tip:** To make sure that a hearing impaired audio language is available, press  **OPTIONS**, then select **[Audio language]**. Languages with an ear icon support hearing impaired audio.



#### To switch on hearing impaired audio and subtitles

1. While you watch TV, press  **OPTIONS**.
2. Select **[Universal access]** > **[Hearing impaired]**.
3. Press a button to select an option:
  - **Red button - [Off]:** Switch off hearing-impaired features.
  - **Green button - [On]:** Switch on hearing-impaired audio and subtitles.
4. Press  to exit.

### Visually impaired access

**Tip:** To make sure that a visually impaired audio language is available, press  **OPTIONS**, then select **[Audio language]**. Languages with an eye icon support visually impaired audio.

#### To switch on visually impaired audio

1. While you watch TV, press  **OPTIONS**.
2. Select **[Universal access]**.
3. Press the **Green button** to select **[Visually impaired]**.
4. Press a button to select an option:
  - **Red button - [Off]:** Switch off visually impaired audio.
  - **Green button - [On]:** Switch on visually impaired audio.
5. Press  to exit.

**Note:** If the EasyLink remote control is switched on, you cannot select the **Green button**. To switch off EasyLink, see **Use more of your TV > Use EasyLink > What you need** (Page 23).

### Select audio from speakers or headphones

You can choose to hear the visually impaired audio through the TV speakers, headphones or both.

1. Press **⬆**.
2. Select **[Setup] > [Channel settings] > [Languages] > [Visually impaired] > [Speakers/Headphones]**.
3. Select a setting, then press **OK**.
  - **[Speakers]**: Hear visually impaired audio from speakers only.
  - **[Headphones]**: Hear visually impaired audio from headphones only.
  - **[Speakers + headphones]**: Hear visually impaired audio from speakers as well as headphones.

### Change volume for visually impaired audio

1. In the **[Universal access]** menu, press the **Yellow button** to select **[Mixed volume]**.
2. Press the **Navigation buttons** to change the volume, then press **OK**.
3. Press **⬆** to exit.

### Audio feedback for the visually impaired

When you press a button on the remote control or TV, you can set the TV to play a beep.

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.

### Enable audio effects

1. Press **⬆**.
2. Select **[Setup] > [Channel settings] > [Languages] > [Visually impaired] > [Audio effects]**.
3. Select a setting, then press **OK**.
  - **[On]**: Enable audio effects in the visually impaired audio.
  - **[Off]**: Disable audio effects in the visually impaired audio.

### Choose type of speech

1. Press **⬆**.
2. Select **[Setup] > [Channel settings] > [Languages] > [Visually impaired] > [Speech]**.
3. Select a setting, then press **OK**.
  - **[Descriptive]**: Hear descriptive speech in the visually impaired audio.
  - **[Subtitles]**: Hear subtitles in the visually impaired audio.

---

## Other settings

---

### Location

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

#### Shop or home mode

Select **[Home]** mode to access all TV settings. In **[Shop]** mode, you can access only limited settings.

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

---

## Restore default settings

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

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

# 6 Connect your TV

## About cables

### Cable quality

#### Overview

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

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

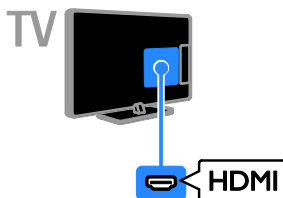
**Tip:** If your device has only composite or RCA connectors, use a composite (CVBS) cable to connect the device to the Y Pb Pr connector on the TV.

### HDMI

An HDMI connection has the best picture and sound quality.

- An HDMI cable combines video and audio signals. Connect HDMI for high-definition (HD) TV signals and to switch on EasyLink.
- An HDMI Audio Return Channel (ARC) connector allows output of TV audio to an HDMI ARC compliant device.

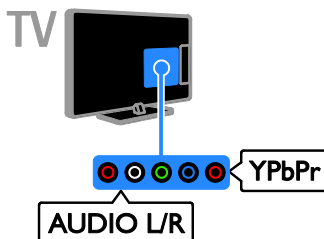
- Connect HDMI cables shorter than 5 meters/16.4 feet.



### Y Pb Pr

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

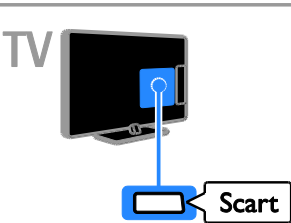
- The Y Pb Pr connection can handle high-definition (HD) TV signals.
- Match the Y Pb Pr connector colours to the cable plugs.



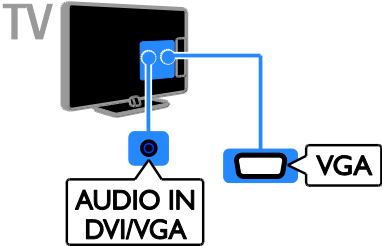
### SCART

A SCART connection combines video and audio signals.

SCART connectors can handle RGB video signals but cannot handle high-definition (HD) TV signals.



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



VGA

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

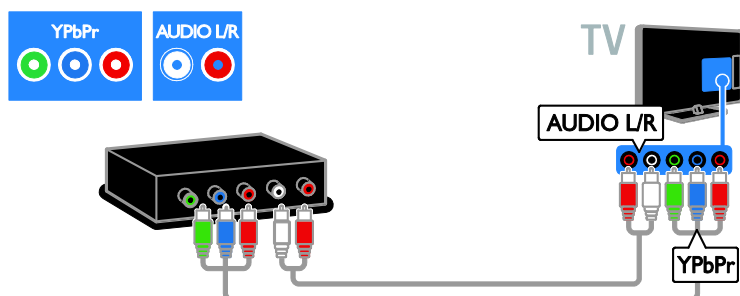
Connect devices

Blu-ray or DVD disc player

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

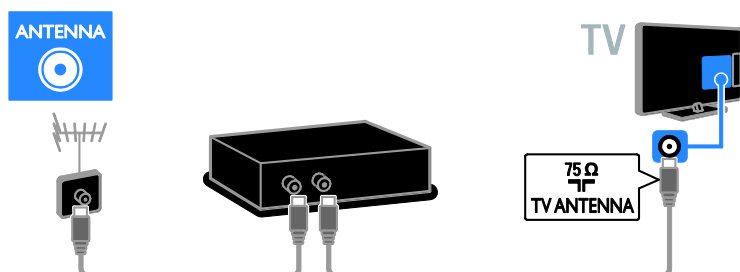


Connect the disc player to the TV with a component video cable (Y Pb Pr) and an audio L/R cable.

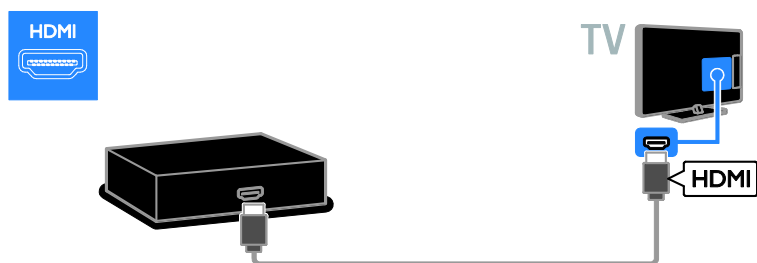


## TV receiver

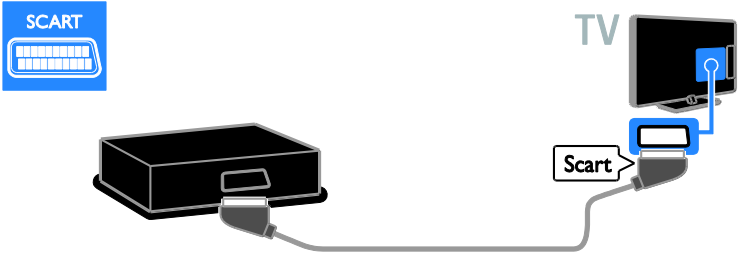
Connect the digital TV receiver with an antenna cable to the TV.



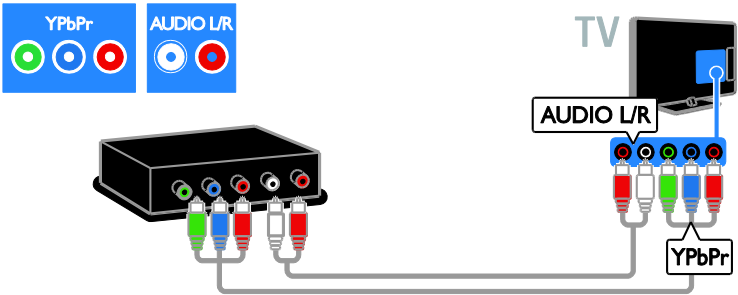
Connect the digital TV receiver to the TV with an HDMI cable.



Connect the satellite or digital TV receiver to the TV with a SCART cable.



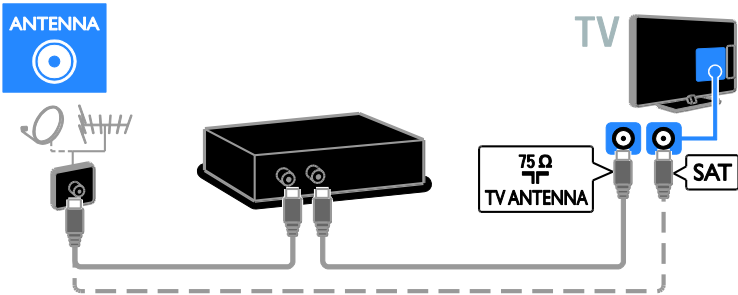
Connect the digital TV receiver to the TV with a component video cable (Y Pb Pr) and an audio L/R cable.



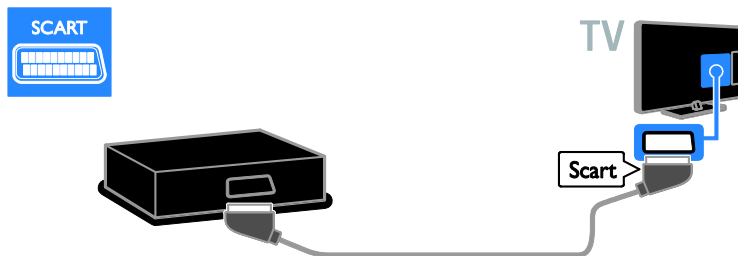
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### Video recorder

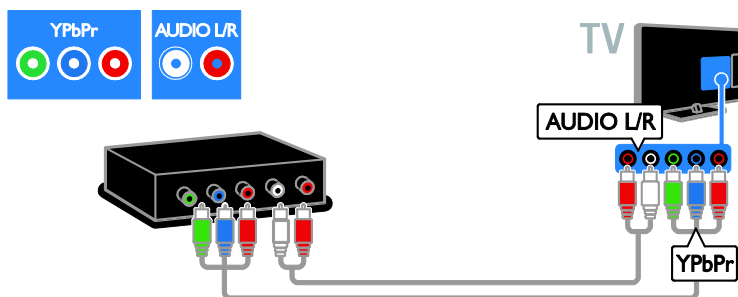
Connect the recorder to the TV with an antenna cable. (SAT is available on certain models only.)



Connect the recorder to the TV with a SCART cable.



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



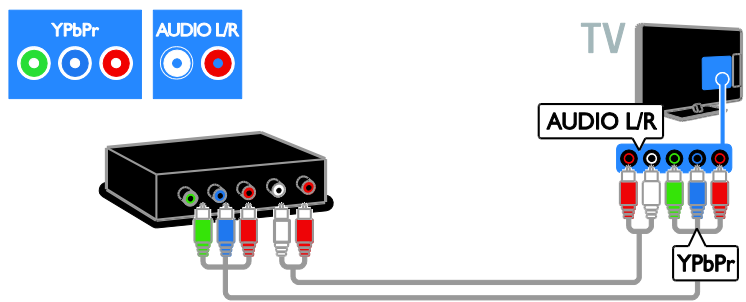
---

## Game console

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

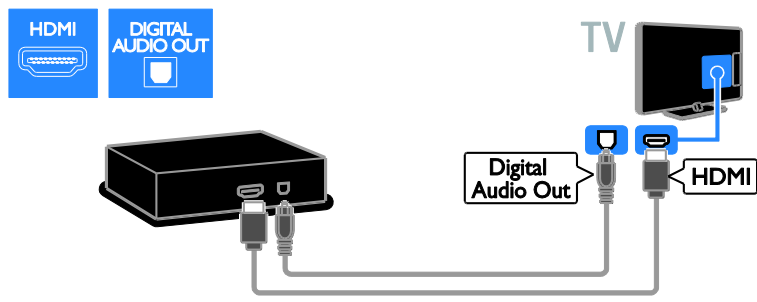


Connect the game console to the TV with a component video cable (Y Pb Pr) and an audio L/R cable.

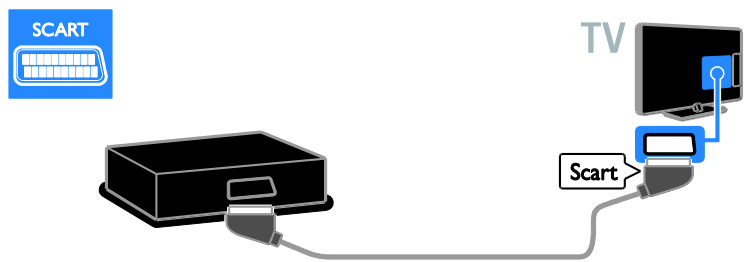


Home theatre

Connect the home theatre to the TV with an HDMI cable and an optical cable.

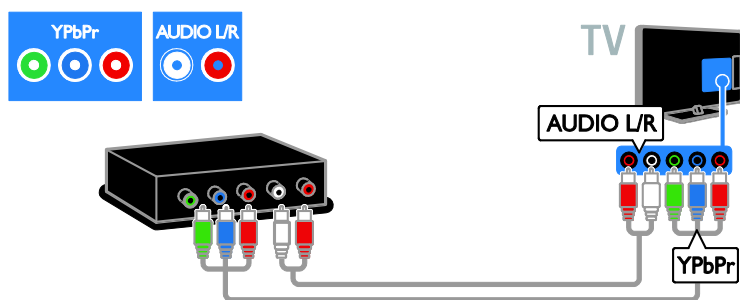


Connect the home theatre to the TV with a SCART cable.



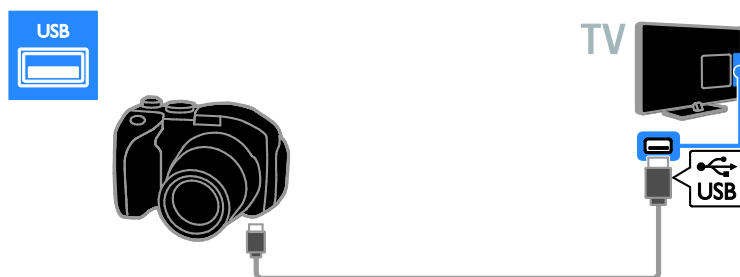


Connect the home theatre to the TV with a component video cable (Y Pb Pr) and an audio L/R cable.



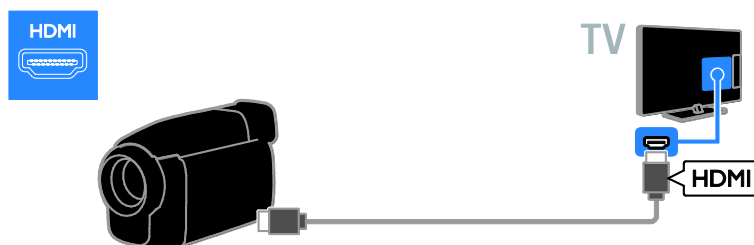
### Digital camera

Connect the digital camera to the TV with a USB cable.

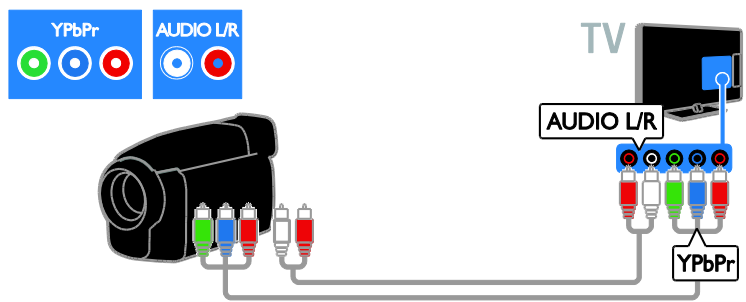


### Digital camcorder

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



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

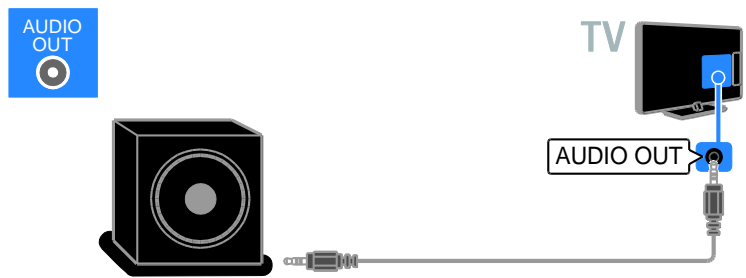


---

## Connect more devices

### External speakers

Connect 2W external speakers (sold separately) with a suitable audio cable to the 8 ohm **AUDIO OUT** connector at the back of the TV.



---

### Set-top box

Connect a set-top box with a 10-pin RJ-48 data cable to the **DATA** connector at the back of the TV.

If required, you can power the set-top box by connecting a power cable to the **12V DC OUT** connector at the back of the TV. The power connector is not available on 32-55HFL7xx8 television sets (including 42" and 47" sets).



---

## USB hard drive

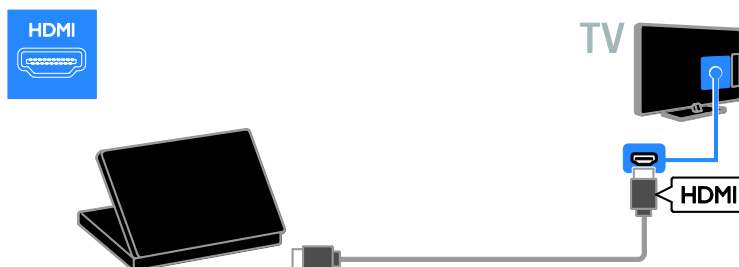
Connect the USB hard drive to the TV with a USB cable.



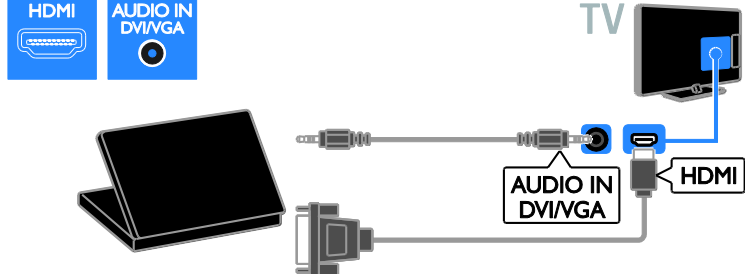
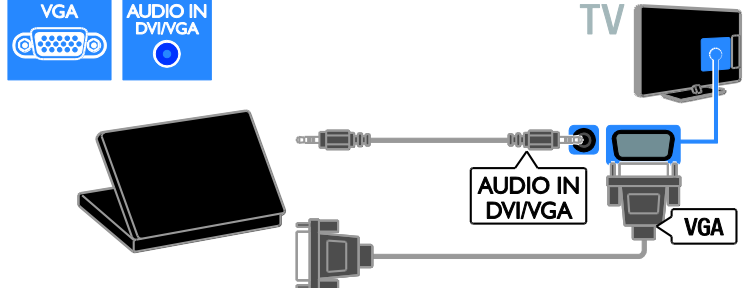
---

## Computer

Connect the computer to the TV with an HDMI cable.



**Figure 1**

[illegible]

## USB keyboard

You can connect

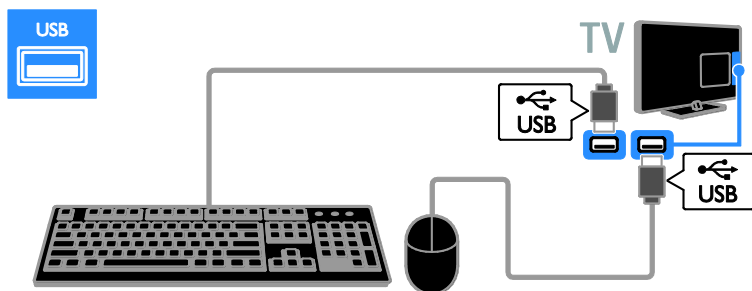
text such as device names on the TV or text for Smart TV apps.

You can con

pages on the Internet and click on links easily.

- If you need extra USB connectors, use a USB hub. You can also connect the USB mouse to a connected USB keyboard.
- You can also connect the USB mouse to a connected USB keyboard.

Connect the keyboard and mouse to the TV with a USB cable.



When the TV detects the keyboard, you can select the keyboard layout and test your selection. If you have selected a Cyrillic or Greek keyboard layout first, you can also select a secondary Latin keyboard layout.

To change the keyboard layout, press **⬆** > **[Setup]** > **[TV settings]** > **[Preferences]** > **[USB mouse/keyboard]** > **[Keyboard settings]** and press **OK**.

#### TV keys on your keyboard

To make a text entry, use the following keys:

- **Enter** **↵**: confirm an entry
- **Backspace** **⬅**: delete a character before the cursor
- **Navigation keys**: navigate within a text field
- **Alt + Shift**: switch between keyboard layouts if multiple keyboard layouts are set

#### Smart TV keys on your keyboard

- **Enter** **↵**: confirm an entry
- **Backspace** **⬅**: return to the previous page
- **Navigation keys**: navigate to the next field
- **Tab**: Next
- **Tab and Shift**: Previous
- **Home**: scroll to the top of the page
- **End**: scroll to the bottom of the page
- **Page Up**: jump up one page
- **Page Down**: jump down one page
- **+/-**: zoom in or out one step
- **\***: fit to width

When the TV detects the mouse, set the tracking speed. Navigate into the test area to check the speed.

#### Use the USB mouse with your TV

- Left mouse button (left-click): **OK**
- Right mouse button (right-click): **⤵** (**Back**)
- Scroll wheel: to scroll up and down an Internet page.

#### Note:

The USB mouse cannot navigate in Smart TV apps or the TV menus.

## Watch a connected device

### Add new device

You can watch a connected device in one of the following ways:

- Add its icon to the Home menu for easy access.
- Select from the Source menu.

**Note:** If you connect an HDMI-CEC compliant device to the TV through the HDMI connector and switch it on, the device is automatically added to the Home menu.

## Add new device

1. Connect and switch on the device.
  2. Press **⬆**.
  3. Select **[Add your devices]**, then press **OK**.
  4. Follow the onscreen instructions.
- If you are prompted to select the TV connection, select the connector that this device uses.

---

## Device settings

After you have added a new device to the Home menu, you can rename it.

1. Press **⬆**.
  2. Select the device icon from the Home menu.
  3. Press **⌂** **OPTIONS**.
  4. Select **[Rename]**, then press **OK**.
- A text input box appears.
5. Press the **Numeric buttons** and the **Navigation buttons** to select and enter the name.
  6. When complete, select **[Done]**, then press **OK**.

---

## Select a source

### From Home menu

After you have added the new device to the Home menu, you can select the new device icon to view its contents.

1. Press **⬆**.
2. Select the device icon from the Home menu.
3. Press **OK** to confirm.

### From Source menu

You can also press **⌂** **SOURCE** to display a list of connector names. Select the connector that connects the device to the TV.

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

---

## Remove device

If the device is no longer connected to the TV, you can remove it from the Home menu.

1. Press **⬆**.
2. Select the device icon from the Home menu.
3. Press **⌂** **OPTIONS**.
4. Select **[Remove this device]**, then press **OK**.

The selected device is removed from the Home menu.

# 7 Product specifications

## Power and reception

Product specifications are subject to change without notice.

### Power

- Mains power: AC 220-240 V, 50-60 Hz
- Energy saving standby power consumption:  
32HFL5xx8: 0.11 W  
40-55HFL5xx8: 0.095 W  
32-55HFL7xx8: < 0.15 W
- Ambient temperature: 5 to 40 degree Celsius
- For power consumption, see the product specifications at [www.philips.com/support](http://www.philips.com/support).

The power rating stated on the product typeplate is the power consumption for this product during normal household use (IEC 62087 Ed.2). The maximum power rating, stated between brackets, is used for electrical safety (IEC 60065 Ed. 7.2).

### Reception

- Antenna input: 75 ohm coaxial (IEC75)
- TV system: DVB COFDM 2K/8 K,
- Video playback: NTSC, PAL, SECAM
- Digital TV: MPEG-4, DVB-T (Terrestrial), DVB-T2\*, DVB-C (Cable).
- Tuner bands: VHF, UHF, S-Channel, Hyperband

\* Available on certain models only.

## Display and sound

### Picture / Display

- Display type: LED backlight, Full HD

- Diagonal size:
  - 60 cm / 22 inches
  - 66 cm / 26 inches
  - 81 cm / 32 inch
  - 102 cm / 40 inch
  - 117 cm / 46 inch
  - 119 cm / 47 inch
  - 140 cm / 55 inch

- Aspect ratio: 16:9 (widescreen)
- Panel resolution: 1920 X 1080 p
- Picture enhancement: Pixel Plus HD / Pixel Precise HD\*
- Perfect Motion Rate (PMR): 400 Hz
- HD Natural Motion
- 3D: Easy 3D\*

\*Supported on HFL7xx8 only.

### Sound

Output power (RMS):

- 22HFL5xx8: 2 x 3 W
- 26HFL5xx8: 2 x 5 W
- 32-55HFL5xx8: 20 W
- 39-47HFL7xx8: 2 x 4 W @ 10% THD
- Incredible Surround
- Clear Sound
- Dynamic Bass Enhancement
- Mono / Stereo / NICAM

## Display resolutions

### Computer formats - HDMI (Resolution - refresh rate)

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

Computer formats - VGA  
(Resolution - refresh rate)

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

Video formats  
(Resolution - refresh rate)

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

Supported audio/video files

Multimedia file names must not exceed 128 characters.

Multimedia

Supported multimedia connections

- USB: NTFS, FAT 16, FAT 32.  
Connect only USB devices which consume 500 mA of power or less.
- Ethernet LAN RJ-45

Supported image files

- JPEG (\*.jpg)

AV CLASS													
File Extensions	Container	Video codec	Maximum Resolution	Max. Frame Rate (fps)	Max. Bit Rate (Mbps)	Audio codec	USB	Simply Share	CE-HTML	HTML5	HbbTV/MPEG/ MHP	Video Store	YTLB
.mpg .mpeg .vob	PS	MPEG1	1920x1088	25p,30p,50i,60i	20 Mbps	MPEG-1(L1&L2),	YES	YES	YES	YES	NO	NO	NO
		MPEG-2	1920x1088	25p,30p,50i,60i	20 Mbps	MPEG-2 L3, AAC/	YES	YES	YES	YES	NO	NO	NO
		H.264	1920x1088	25p,30p,50p,60p,60i	20 Mbps	HE-AAC(v1&v2), DVD-PCM, AC3	YES	YES	YES	YES	NO	NO	NO
.ts	TS	MPEG-2	1920x1088	25p,30p,50i,60i	20 Mbps	MPEG-1(L1&L2),	YES	YES	YES	YES	YES	NO	NO
		MPEG-4 ASP	1920x1088	25p,30p,50i,60i	20 Mbps	MPEG-2 L3, AAC/	YES	YES	YES	YES	YES	NO	NO
		H.264	1920x1088	25p,30p,50p,60p,60i	20 Mbps	HE-AAC(v1&v2), AC3, E-AC3, Dolby Pulse	YES	YES	YES	YES	YES	NO	NO
.mp4	MP4	MPEG-4 ASP	1920x1088	25p,30p,50i,60i	20 Mbps	AAC/HE-AAC (v1&v2), AC3, E-AC3	YES	YES	YES	YES	YES	YES	NO
		H.264 HP	1920x1088	25p,30p,50p,60p,60i	20 Mbps		YES	YES	YES	YES	YES	YES	NO
		H.264 MP	1920x1088	25p,30p,50p,60p,60i	20 Mbps		YES	YES	YES	YES	YES	YES	NO
.mkv	MKV	MPEG-4 ASP	1920x1088	25p,30p,50i,60i	20 Mbps	MPEG-1(L1&L2),	YES	YES	NO	NO	NO	NO	NO
		H.264 HP	1920x1088	25p,30p,50p,60p,60i	20 Mbps	MPEG-2 L3, AAC/	YES	YES	NO	NO	NO	NO	NO
		H.264 MP	1920x1088	25p,30p,50p,60p,60i	20 Mbps	HE-AAC(v1&v2), AC3, E-AC3	YES	YES	NO	NO	NO	NO	NO



## Supported audio/video files

Multimedia file names must not exceed 128 characters.

AV CLASS													
File Extensions	Container	Video codec	Maximum Resolution	Max. Frame Rate (fps)	Max. Bit Rate (Mbps)	Audio codec	USB	Simply Share	CE-HTML	HTML5	HbbTV/MPEG/MHP	Video Store	YTLB
.asf .wmv	ASF	MPEG-2	1920x1088	25p,30p,50i,60i	20 Mbps	MPEG-1(L1&L2), MPEG-2 L3, AAC HE-AAC(v1&v2), LPCM, AC3, WMA	YES	YES	YES	YES	NO	YES	NO
		MPEG-4 ASP	1920x1088	25p,30p,50i,60i	20 Mbps		YES	YES	YES	YES	NO	YES	NO
		WMV9/VC1 SP	1920x1088	30p,60i	20 Mbps		YES	YES	YES	YES	NO	YES	NO
		WMV9/VC1 MP	1920x1088	30p,60i	20 Mbps		YES	YES	YES	YES	NO	YES	NO
		WMV9/VC1 AP	1920x1088	30p,60i	20 Mbps		YES	YES	YES	YES	NO	YES	NO
.avi .xvid	AVI	MPEG-4 ASP	1920x1088	25p,30p,50i,60i	20 Mbps	MPEG-1(L1&L2), MPEG-2 L3, AC3, LPCM, WMA	YES	YES	NO	NO	NO	NO	NO
		DivX 3.11	1920x1088	30p,60i	20 Mbps		YES	YES	NO	NO	NO	NO	NO
.flv	FLV	On2 VP6	-	-	-	MPEG-2 L3, AAC	NO	NO	YES	YES	NO	NO	YES
		Sorenson H.263	-	-	-		NO	NO	YES	YES	NO	NO	YES
.swf	SWF	Contains FLV	-	-	-	-	NO	NO	NO	NO	NO	NO	YES
.divx	DMF (DIVX)	MPEG-4 ASP	1920x1088	25p,30p,50i,60i	20 Mbps	MPEG-1(L1&L2), MPEG-2 L3, AC3, LPCM, WMA	YES	YES	NO	NO	NO	NO	NO
		DivX 3.11	1920x1088	30p,60i	20 Mbps		YES	YES	NO	NO	NO	NO	NO

## Supported audio/video files

Multimedia file names must not exceed 128 characters.

AUDIO ONLY CLASS													
File Extensions	Container	Video codec	Maximum Resolution	Max. Frame Rate (fps)	Max. Bit Rate (Mbps)	Audio codec	USB	Simply Share	CE-HTML	HTML5	HbbTV/MPEG/ MHP	Video Store	YTLB
.mp3	MP3	-	-	-	384 kbps	MPEG-2 L3	YES	YES	YES	YES	YES	NO	NO
.wma .asf	WMA (V2 upto V9.2)	-	-	-	192-768 kbps	WMA	YES	YES	YES	YES	NO	NO	NO
.lpcm (PC) .pcm (pc)	LPCM	-	-	-	768 kbps	LPCM	NO	YES	NO	NO	NO	NO	NO
.wav (PC)	LPCM	-	-	-	768 kbps	LPCM	YES	YES	NO	NO	NO	NO	NO
.aac .mp4 .m4a	AAC	-	-	-	384 kbps 512 kbps 640 kbps 1024 kbps 3200 kbps	AAC, HE-AAC (v1&v2), AC3, E-AC3	YES	YES	YES	YES	YES	NO	NO

## Supported subtitle formats

Multimedia file names must not exceed 128 characters.

SUBTITLE FORMATS										
File Extension	Format	USB	Simply Share	CE-HTML	HTML5	HbbTV/MPEG/MHP	Video Store		YTLB	Character encoding
							Downloading	Streaming		
.srt	SRT	YES	NO	NO	NO	NO	NO	NO	NO	Windows-1252 (CP-1252) -Superset of ISO 8859-1 -Western Europe (Latin script or alphabet)
.sub	SUB	YES	NO	NO	NO	NO	NO	NO	NO	
.smi .sami	SAMI	YES	NO	NO	NO	NO	YES	NO	NO	
.avi .divx	XSUB, XSUB+	YES	YES	NO	NO	NO	NO	NO	NO	-

## Connectivity

### Rear

- **DATA:** 10-pin RJ48
- **AUDIO OUT:** 8 ohm audio out
- **12V DC OUT:** 18 W/1.5 A
- **NETWORK:** Ethernet LAN RJ45
- **VGA:** PC input
- **AUDIO IN DVI/VGA:** Stereo 3.5 mm mini-jack

- **Y/Pb/Pr and AUDIO IN (Y/Pb/Pr):** Component video and audio jacks
- **75 OHM TV ANTENNA:** Coaxial
- **SERV.U:** Service port
- **SCART (RGB/CVBS):** SCART
- **DIGITAL AUDIO OUT:** Coaxial
- **HDMI 1 ARC:** 1 x HDMI Audio Return Channel
- **HDMI 2:** 1 x HDMI

## Side

- **CI:** Common Interface
- **Headphones:** Stereo 3.5 mm mini-jack
- **USB:** 1 × USB
- **HDMI 2:** 1 × HDMI

---

## Supported TV mounts

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

**60 cm / 22 inches:** 75 mm × 75 mm, M4

**66 cm / 26 inches:** 100 mm × 100 mm, M4

**81 cm / 32 inches:** 200 mm × 200 mm, M6

**102 cm / 40 inches:** 200 mm × 200 mm, M6

**117 cm / 46 inches:** 400 mm × 400 mm, M6

**140 cm / 55 inches:** 400 mm × 400 mm, M6

**Note:** Before mounting the TV on the wall, remove the existing VESA screws on the back panel.

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

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

Before you mount the TV on the wall, find the correct length of the screw. To find the length of the screw, add the thickness of your wall mount to the screw length ( $y$ ), as shown in the graphic.

## HFL5xx8

### For 22-26 inch models

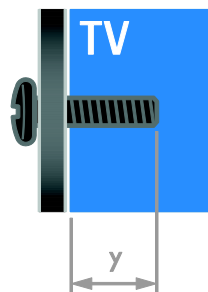
All screws: 10 mm

### For 32, 46-55 inch models

All screws: 19 mm

### For 40 inch models

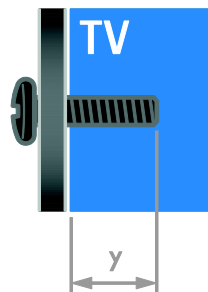
All screws: 17 mm



## HFL7xx8

### For 42-47 inch models

All screws: 16 mm



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## Help version

UMv 500813130201 - 20130312

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