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# 1 Notice

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Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips Electronics N.V or their respective owners. Philips reserves the right to change products at any time without being obliged to adjust earlier supplies accordingly. 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. Philips warrants that the material itself does not infringe any United States patents. No further warranty is expressed or implied.

## 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 Support 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 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.

Philips Electronics Singapore Pte Ltd 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 the source code, please contact [open.source@philips.com](mailto:open.source@philips.com). If you prefer not to use email, or if you do not receive a confirmation receipt within a week of mailing this email address, please write to "Open Source Team, Philips Intellectual Property & Standards, P.O. Box 220, 5600 AE Eindhoven, The Netherlands". If you do not receive timely confirmation of your letter, please send an email to the email address above. The texts of the licences and acknowledgements for open source software used in this product are included on a separate leaflet.

## Compliance with EMF

Koninklijke Philips Electronics N.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 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. Philips confirms that if its products are handled properly for their intended use, they are safe to use according to scientific evidence available today.

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

### Mains fuse (UK only)

This TV is fitted with an approved moulded plug. Should it become necessary to replace the mains fuse, this must be replaced with a fuse of the same value as indicated on the plug (example 10A).

- 1 Remove fuse cover and fuse.
- 2 The replacement fuse must comply with BS 1362 and have the ASTA approval mark. If the fuse is lost, contact your dealer in order to verify the correct type.
- 3 Refit the fuse cover.

In order to maintain conformity to the EMC directive, the mains plug on this product must not be detached from the mains cord cable.

### Copyright



VESA, FDMI and the VESA Mounting Compliant logo are trademarks of the Video Electronics Standards Association.

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

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



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Manufactured under licence from BBE Sound, Inc. Licensed by BBE, Inc under one or more of the following US patents: 5510752,5736897. BBE and BBE symbol are registered trademarks of BBE Sound Inc.

## 2 Important

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

---

### Safety

#### 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.
- 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.

#### Risk of short circuit or fire!

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

#### Risk of injury or damage to the TV!

- Two people are required to lift and carry a TV that weighs more than 25 kg.

- When stand mounting the TV, use only the supplied stand. Secure the stand to the TV tightly. Place the TV on a flat, level surface that can support the combined weight of the TV and the stand.
- When wall mounting the TV, use only a wall mount that can support the weight of the TV. Secure the wall mount to a wall that can support the combined weight of the TV and wall mount. Koninklijke Philips Electronics N.V. bears no responsibility for improper wall mounting that result in accident, injury or 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 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 curtains or other objects never cover the ventilation slots on the TV.

#### Risk of damage to the TV!

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

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

- Never place the TV or any objects on the power cord.
- To easily disconnect the TV power cord from the power outlet, ensure that you have full access to the power cord at all times.

- When you disconnect the power cord, always pull the plug, never the cable.
- Disconnect the TV from the power outlet and antenna before lightning storms. During lightning storms, never touch any part of the TV, power cord or antenna cable.

#### Risk of hearing damage!

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

#### Low temperatures

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

---

#### Screen care

- Avoid stationary images as much as possible. Stationary images are images that remain on-screen for extended periods of time. Examples include: on-screen menus, black bars and time displays. If you must use stationary images, reduce screen contrast and brightness to avoid screen damage.
- 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.
- Risk of damage to the TV screen! Never touch, push, rub or strike the screen with any object.
- To avoid deformations and colour fading, wipe off water drops as soon as possible.

---

#### Disposal of your old product and batteries



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



When this crossed-out wheeled bin symbol is attached to a product it means that the product is covered by 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.

## ECO-Green



- High energy efficiency
- Low standby power
- Designed to facilitate recycling

Philips continuously focuses on lowering the environmental impact of its innovative consumer products. We aim our efforts towards environmental improvements during manufacturing, reduction of harmful substances, energy-efficient use, end-of-life instructions and product recycling.

Thanks to our environmental effort, this TV has been awarded the European Ecolabel –the flower– [www.ecolabel.eu](http://www.ecolabel.eu)

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

This TV has features that contribute to energy-efficient use. This TV was awarded the European Ecolabel for its environmental qualities.

### Energy efficiency features

- **Ambient light sensor**  
To save energy, the built-in Ambient light sensor lowers the brightness of the TV screen when the surrounding light darkens.
- **Energy saving**  
The **[Standard]** setting of the TV combines several TV settings that result in saving energy. See the **[Smart settings]** in the **[Setup]** menu.

- **Low standby power consumption**

The class-leading and highly advanced power circuitry brings down the power consumption of the TV to an extremely low level, without losing out on the constant standby functionality.

### Power management

The advanced power management of this TV ensures the most efficient use of its energy. You can check how your personal TV settings, the level of brightness in current onscreen pictures and the surrounding light conditions determine the relative power consumption. Press **DEMO**, then select **[Active Control]** and press **OK**. Your current TV setting is highlighted. You can select another setting to check the corresponding values.

### End of use

To inform yourself on the correct disposal of the TV and batteries, refer to 'Disposal of your old product and batteries' in the user manual (see 'Disposal of your old product and batteries' on page 5).

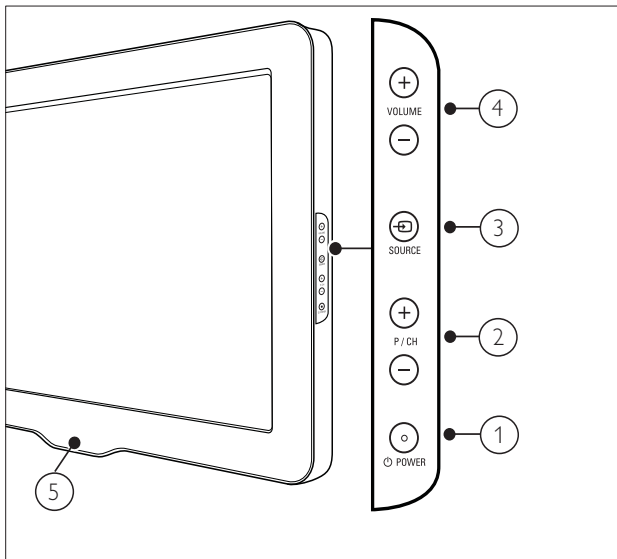
# 3 Your product

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

## Product overview

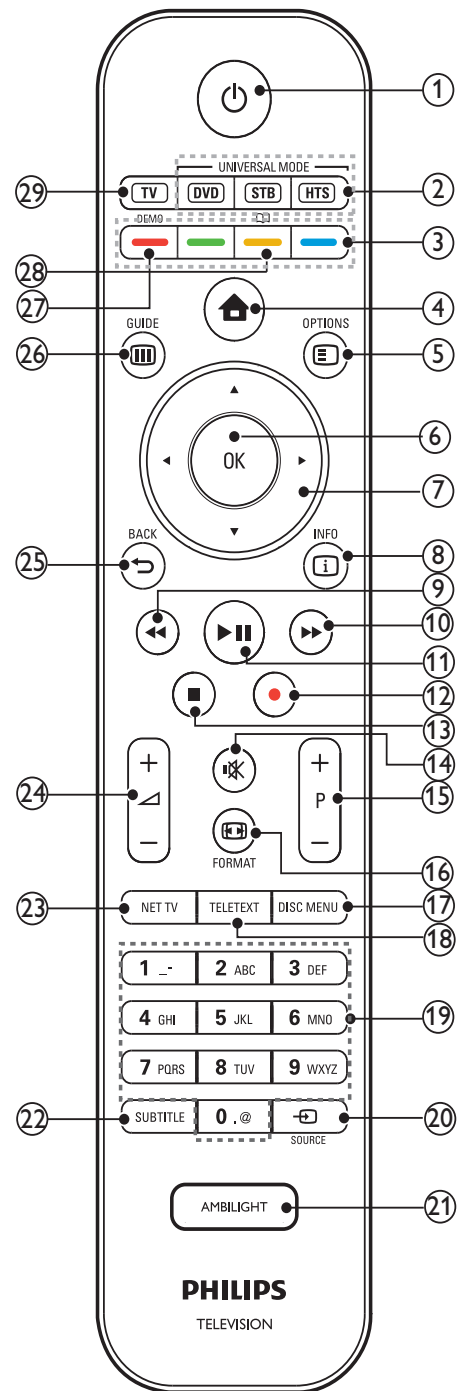
This section gives you an overview of commonly used controls and functions.

### Side controls and indicators



- ① **POWER:** Switches the product on or off. The product is not powered off completely unless it is physically unplugged.
- ② **P/CH +/-:** Switches to the next or previous channel.
- ③ **SOURCE:** Selects connected devices.
- ④ **VOLUME +/-:** Increases or decreases volume.
- ⑤ **LightGuide:** Front LED indicator

## Remote control



- ① **⏻ (Standby-On)**
  - Switches the product to standby if it is on.
  - Switches the product on if it is on standby.

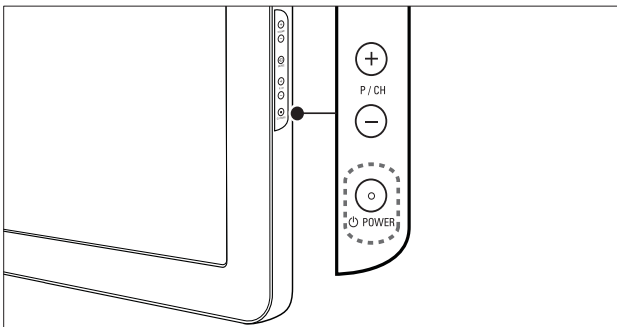
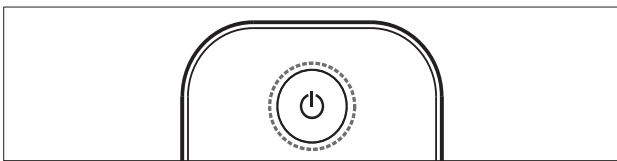


- ② **Universal control buttons (DVD/STB/HTS)**  
\*Controls other devices such as a DVD player, set-top box or a home theatre system from Philips or other brands.
- ③ **Colour buttons**  
Select task or options.
- ④ **🏠 (Home)**  
Toggles the home menu on or off.
- ⑤ **☰ OPTIONS**  
Accesses options relating to the current activity or selection.
- ⑥ **OK**  
Confirms an entry or selection.
- ⑦ **▲▼◀▶(Navigation buttons)**  
Navigate menus.
- ⑧ **ℹ INFO**  
Displays programme information, if available.
- ⑨ **◀◀ (Backward)**  
\*\*Searches backward.
- ⑩ **▶▶ (Forward)**  
\*\*Searches forward.
- ⑪ **▶|| (Play/Pause)**  
\*\*Starts, pauses or resumes playback.
- ⑫ **● (Record)**  
\*\*Starts or stops video recording.
- ⑬ **■ (Stop)**  
\*\*Stops playback.
- ⑭ **🔇 (Mute)**  
Mutes or restores volume.
- ⑮ **P +/- (Program +/-)**  
Switches to the next or previous channel.
- ⑯ **🖼 FORMAT**  
Selects a picture format.
- ⑰ **DISC MENU**  
Accesses or exits the disc menu.
- ⑱ **TELETEXT**  
Toggles teletext on or off.
- ⑲ **0-9 (Numeric buttons)**  
Selects a channel or setting.
- ⑳ **📺 SOURCE**  
Selects connected devices.
- ㉑ **AMBILIGHT**  
\*Switches Ambilight on or off.
- ㉒ **SUBTITLE**  
Enables or disables subtitles.
- ㉓ **NET TV**  
\*Accesses Net TV.
- ㉔ **🔊 +/- (Volume +/-)**  
Increases or decreases volume.
- ㉕ **↶ BACK**  
Returns to the previous menu.
- ㉖ **📖 GUIDE**  
Accesses or exits the Electronic Programme Guide (EPG).
- ㉗ **DEMO**  
Toggles the demonstration menu on or off.
- ㉘ **📖**  
\*Accesses the electronic user manual.
- ㉙ **TV**  
Switches back to the aerial source.  
  
\*This feature is available in selected models only.  
\*\*Controls the connected EasyLink-compliant device.

# 4 Use your product

This section helps you perform basic operations.

## Switch your TV on/off or to standby



### To switch on

- If the front LED indicator is off, press **POWER** at the side of the TV.
- If the front LED indicator is red, press **Standby-On** on the remote control.

### To switch to standby

- Press **Standby-On** on the remote control.
  - ↳ The front LED indicator switches to red.

### To switch off

- Press **POWER** at the side of the TV.
  - ↳ The front LED indicator switches off.



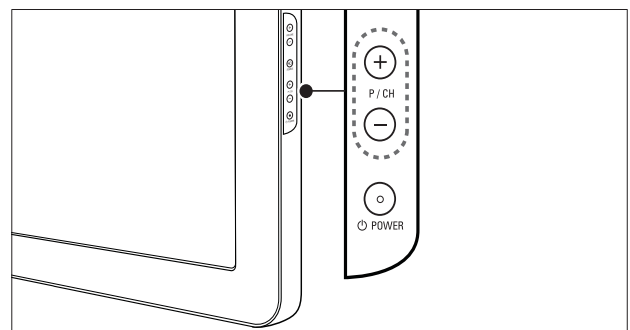
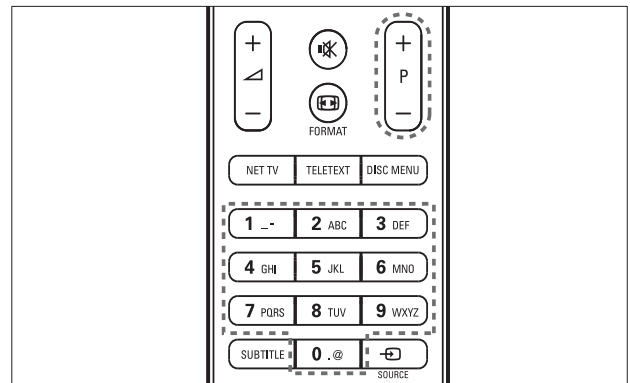
Tip

- Though your TV consumes very little power when in standby, energy continues to be consumed. When not in use for an extended period of time, disconnect the TV power cable from the power outlet.

### Note

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

## Switch channels



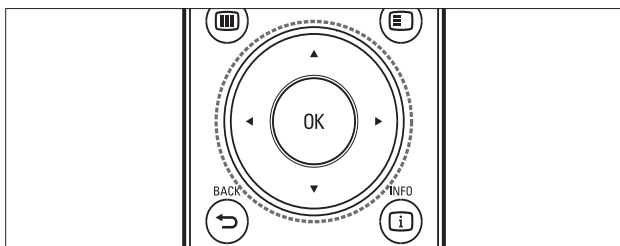
- Press **P +/-** on the remote control or **P/CH +/-** on the side of the TV.
- Enter a channel number using the **Numeric buttons**.
- Use the channel grid (see 'Switch channels with the channel grid' on page 10).

### Note

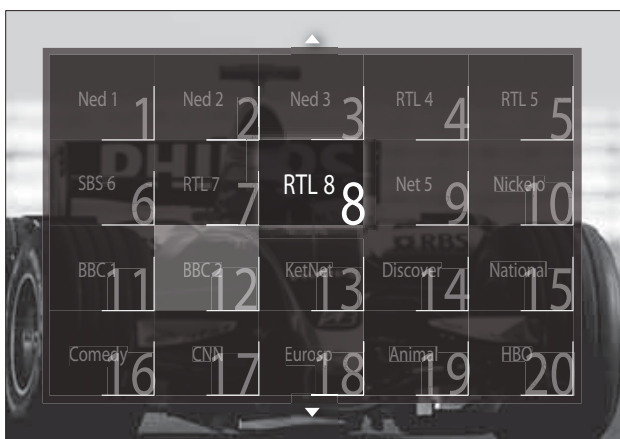
- When you use a favourite list, you can only select those channels in the list.

## Switch channels with the channel grid

The channel grid allows you to view all available channels in a grid format.

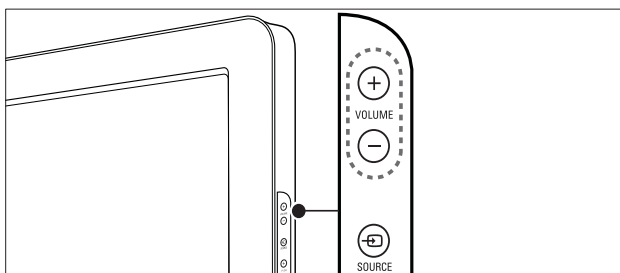
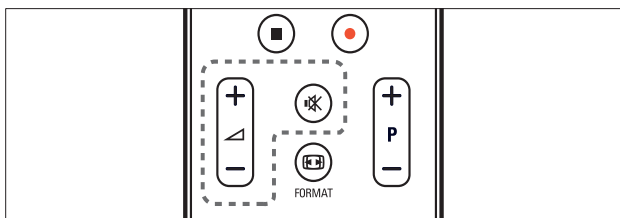


- 1 Press **OK**.  
↳ The channel grid appears.



- 2 Press the **Navigation buttons** to select a channel.
- 3 Press **OK** to confirm your choice.  
↳ The selected channel appears.

## Adjust TV volume



To increase or decrease volume

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

To mute or unmute sound

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

### Note

- Use the **[Sound]** menu to adjust headphone volume (see 'Manually adjust sound settings' on page 18).

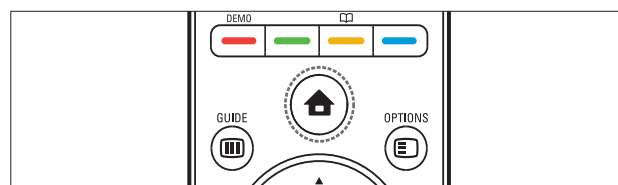
## Watch connected devices

### Note

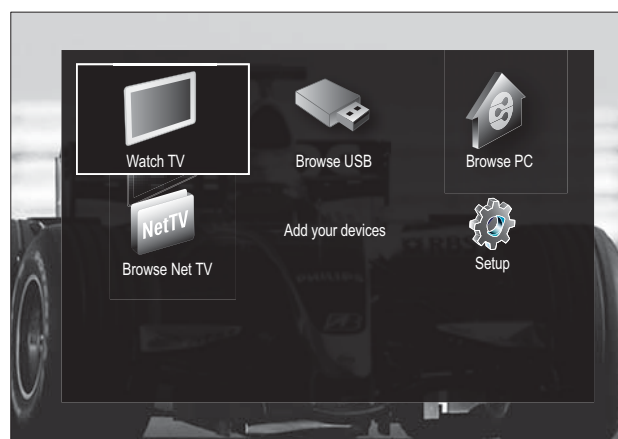
- For easy access, add new devices to the home menu before selecting them.

## Add a device to the home menu

Connect and switch on devices before adding them to the home menu.



- 1 Press **Home**.  
↳ The home menu appears.



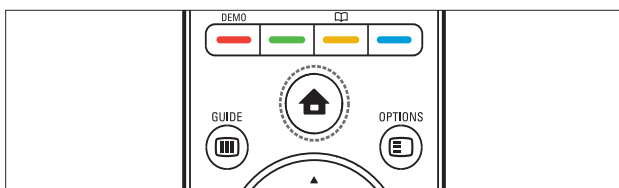
- 2 Press the **Navigation buttons** to select **[Add your devices]**.
- 3 Press **OK**.
  - ↳ A message appears with **[Start]** selected, prompting you to start the add new device guide.
- 4 Press **OK**.
  - ↳ Follow the on-screen instructions to select the type of device and where it is connected. When the guide is complete, a new device icon is added to the home menu.



#### Tip

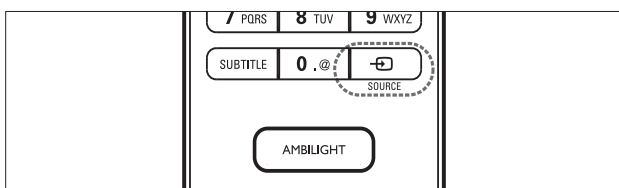
- To avoid screen clutter, remove devices from the home menu when they are no longer connected (see 'Remove devices from the home menu' on page 14).

## Select a device via the home menu



- 1 Press **Home**.
  - ↳ The home menu appears.
- 2 Press the **Navigation buttons** to select a device.
- 3 Press **OK** to confirm your choice.
  - ↳ The TV switches to the selected device.

## Select a device via the source list



- 1 Press **SOURCE**.
  - ↳ The source list appears.

- 2 Press the **Navigation buttons** to select a device.
- 3 Press **OK** to confirm your choice.
  - ↳ The TV switches to the selected device.

## Browse Net TV (selected models only)

With the TV connected to the Internet, you can use Net TV to access videos, pictures, music, information, games and other online services.



#### Note

- Koninklijke Philips Electronics N.V. bears no responsibility for content provided by Net TV service providers.

## Access Net TV



#### Note

- Connect the TV to a computer network before accessing Net TV.

- 1 Press **NET TV**.
  - ↳ The Net TV home page appears.

## Navigate Net TV

Press:

- **Navigation buttons** to navigate Net TV or web pages
- **OK** to view or select an item
- **BACK** to go back to a previous page
- **Home** to exit Net TV and go back to the home menu

---

## Mark favourite Net TV pages

You can mark Net TV pages or services as favourites for easy access.

- 1 In Net TV, press the **Navigation buttons** to select **[Mark as favourite]**.
- 2 Press **OK**.
- 3 Press the **Navigation buttons** to navigate to the page to mark, then press **OK**.
- 4 When done, press the **Navigation buttons** to select **[Done]** then press **OK**.

---

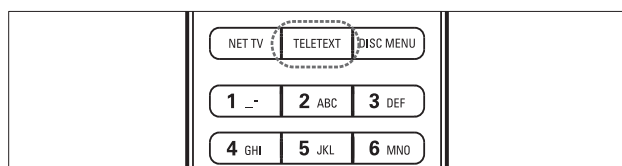
## Clear browsing history

Clear browsing history to remove passwords, cookies and browsing data from your TV.

- 1 Press **Home**.  
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.  
↳ The **[Setup]** menu appears.
- 3 Press the **Navigation buttons** to select **[Installation] > [Clear Net TV memory]**.  
↳ Passwords, cookies and other browsing history are removed from the TV.

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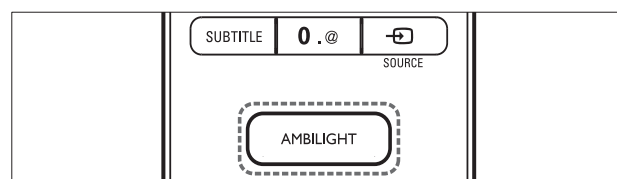
## Use teletext



- 1 Press **TELETEXT**.  
↳ The teletext screen appears.
- 2 Select a page by:
  - Entering the page number with the **Numeric buttons**.
  - Pressing **P +/-** or the **Navigation buttons** to view the next or previous page.
  - Pressing the **Colour buttons** to select a colour coded item.
  - Pressing **BACK** to return to a previously viewed page.
- 3 Press **TELETEXT** to exit teletext.

---

## Use Ambilight (selected models only)



- 1 Press **AMBILIGHT**.  
↳ Ambilight switches on.
- 2 Press **AMBILIGHT** again to switch off Ambilight.

---

### Tip

- Use Ambilight as a lounge light by pressing **AMBILIGHT** when the TV is in standby. Press **OK** to change colours.

---

## Set Ambilight active mode

You can set the speed at which Ambilight responds to on-screen images.

- 1 Press and hold **AMBILIGHT** for at least three seconds.  
↳ The **[Ambilight active mode]** bar appears.
- 2 Press the **Navigation buttons** to move the slider towards **[Relaxed]** for smoother Ambilight responsiveness; or towards **[Dynamic]** for faster responsiveness
- 3 Press **BACK** to exit.

---

### Note

- You can only change the Ambilight active mode setting if Ambilight **[Colour]** is set to **[Active mode]**. More information about this and other advanced Ambilight features are available.

# 5 Use more of your product

## Change language settings

### Note

- Skip this step if your language settings are correct.

- 1 When watching TV, press **⬆** (**Home**).  
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.  
↳ The **[Setup]** menu appears.
- 3 Press the **Navigation buttons** to select **[Installation] > [Languages] > [Menu language]**.  
↳ A list of languages appears.
- 4 Press the **Navigation buttons** to select a menu language.
- 5 Press **OK** to confirm your choice.  
↳ The selected language is applied to the menu.

In addition to **[Menu language]**, you can configure the following language settings via the **[Languages]** menu (digital channels only):

Languages	Menu language	Ceština
Channel installation	Primary audio	Dansk
Preferences	Secondary audio	Deutsch
Decoder	Primary subtitles	Ελληνικά
Clock	Secondary subtitles	<b>English</b>
Factory reset	Primary teletext	Español
	Secondary teletext	Français
	Hearing impaired	Hrvatski

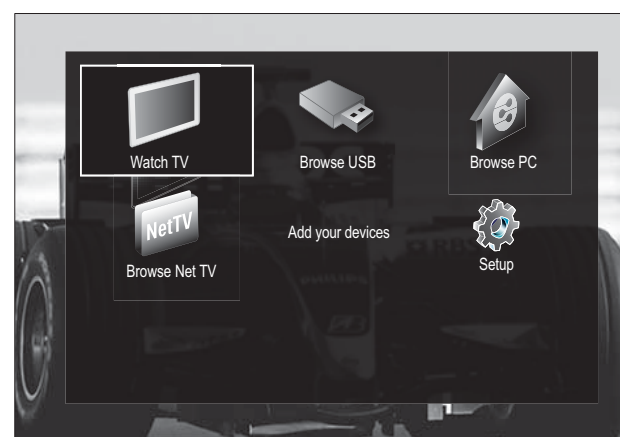
- **[Primary audio]/[Secondary audio]**  
Select primary and secondary audio languages for digital channels.

- **[Primary subtitles]/[Secondary subtitles]**  
Select primary and secondary subtitle languages for digital channels.
- **[Primary teletext]/[Secondary teletext]**  
Select primary and secondary teletext languages for digital channels.
- **[Hearing impaired]**  
Select **[On]** to display subtitles with primary and secondary audio languages.
- **[Visually impaired]**  
If available, select to hear additional audio commentary for the visually impaired through the options: **[Speakers]**, **[Headphones]** or **[Speakers + headphones]**. Select **[Off]** to disable the feature.
- **[Preferred audio format]**  
Select **[Advanced]** for best sound reproduction from home theatre systems. Select **[Standard]** for best sound reproduction from the TV speakers and basic sound systems.

## Access the home menu

The home menu gives you easy access to connected devices, picture and sound settings, and other useful features.

- 1 Press **⬆** (**Home**).  
↳ The home menu appears.



- 2 Press the **Navigation buttons** to select a home menu item:
  - **[Watch TV]** Switches back to the aerial source if another source is selected.
  - **[Setup]** Accesses menus to change picture, sound and other settings.
  - **[Add your devices]** Adds new devices to the home menu.
  - **[Browse USB]** Accesses the content browser of the connected USB storage device.
  - **[Browse PC network]** Accesses the content browser of the connected PC network.
  - **[Browse Net TV]** Accesses Net TV.
- 3 Press **OK** to confirm your choice.



Tip

- Press **⬆️ (Home)** at any time to exit the home menu.
- Press **⬅️ BACK** at any time to exit the **[Setup]** menu.
- Press **⌘ OPTIONS** at any time to exit an options menu.

---

## Remove devices from the home menu

If a device is no longer connected to the TV, remove it from the home menu.

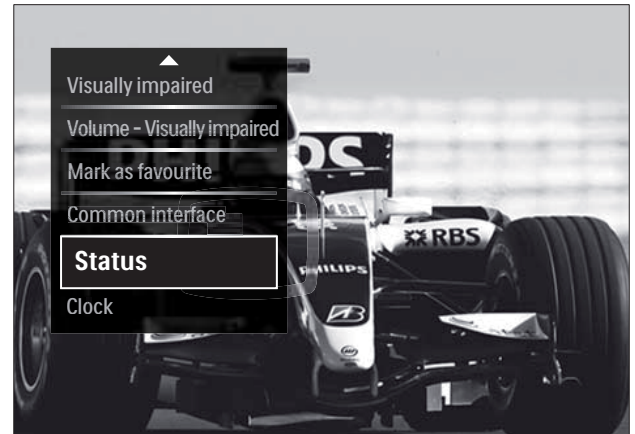
- 1 Press **⬆️ (Home)**.
  - ↳ The home menu appears.
- 2 Press the **Navigation buttons** to select a device to remove.
- 3 Press **OPTIONS**.
  - ↳ A list appears, with **[Remove this device]** selected.
- 4 Press **OK**.
  - ↳ A message appears, prompting you to remove the device.
- 5 Press **OK**.
  - ↳ The home menu appears, with the device removed.

---

## Access the options menu

The options menu gives you quick access to the picture and sound experience bar and other useful features such as **[Status]**. The **[Status]** menu gives you an overview of current TV information.

- 1 When watching TV, press **⌘ OPTIONS**.
  - ↳ The options menu appears.



- 2 Press the **Navigation buttons** to select an option.
- 3 Press **OK**.
  - ↳ The menu of the selected option appears.

---

## Access the setup menu

The **[Setup]** menu gives you access to picture, sound and other TV settings.

- 1 Press **⬆️ (Home)**.
  - ↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.
  - ↳ The **[Setup]** menu appears.

## Change picture and sound settings

Change picture and sound settings to suit your preferences. You can apply pre-defined settings or change settings manually.

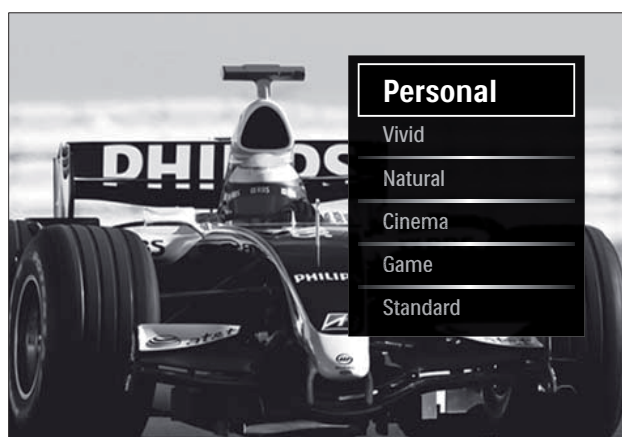
### Note

- The flexibility to change settings is limited if the TV location is set to **[Shop]** mode. Set the TV location to **[Home]** mode to access all TV settings (see 'Change TV preferences' on page 32).

## Use smart settings

Use smart settings to apply pre-defined picture and sound settings.

- 1 When watching TV, press **⬆** (**Home**).  
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.  
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Smart settings]**.
- 5 Press **OK**.  
↳ A list of smart settings appears.



- 6 Press the **Navigation buttons** to select:
  - **[Personal]** Sets the TV to your personal preferences set in the **[Picture]** and **[Sound]** menus in **[Setup]**.
  - **[Vivid]** Applies rich and dynamic settings, ideal for daylight use.
  - **[Natural]** Applies a natural setting.
  - **[Cinema]** Applies settings for watching movies.
  - **[Game]** Applies settings for gaming.
  - **[Standard]** Applies the most energy conscious settings. Factory standard settings.
- 7 Press **OK** to confirm your choice.  
↳ The smart setting is applied.
- 8 Press **↶ BACK** to exit or press **⬆** (**Home**) to go back to the home menu.

### Note

- **[Smart settings]** is also accessible via the **[Picture and sound]** experience bar (see 'Use the picture and sound experience bar' on page 16).

## Use settings assistant

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

- 1 When watching TV, press **⬆** (**Home**).  
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.  
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Picture] > [Settings assistant]**.
- 5 Press **OK**.  
↳ A message appears prompting you to start the settings assistant.
- 6 Press the **Navigation buttons** to select **[Start]**.
- 7 Press **OK**.  
↳ Follow the on-screen instructions to choose your preferred picture and sound settings.



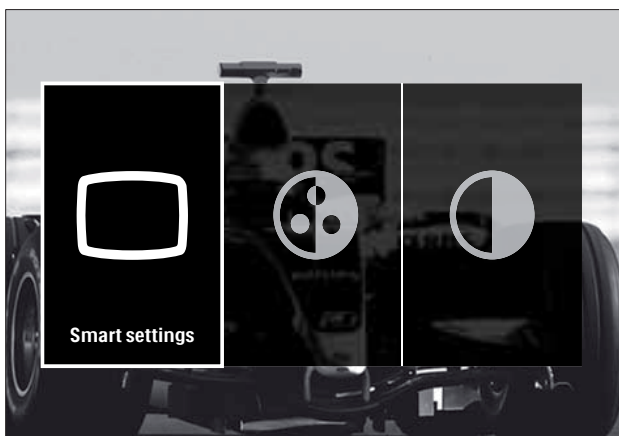
## Use the picture and sound experience bar

Use the **[Picture and sound]** experience bar to access frequently used picture and sound settings.

### Note

- All picture settings are available via the **[Picture]** menu (see 'Manually adjust picture settings' on page 16).
- All sound settings are available via the **[Sound]** menu (see 'Manually adjust sound settings' on page 18).

- 1 When watching TV, press **⏸** **OPTIONS**.  
↳ The options menu appears.
- 2 Press the **Navigation buttons** to select **[Picture and sound]**.  
↳ The **[Picture and sound]** experience bar appears.



- 3 Press the **Navigation buttons** to select a picture or sound setting to adjust.
- 4 Press **OK**.  
↳ The picture or sound setting menu appears.
- 5 Press the **Navigation buttons** to adjust the picture or sound setting.
- 6 Press **OK** to confirm your choice.  
↳ The picture or sound setting is applied and the **[Picture and sound]** experience bar reappears.
- 7 Press **↶** **BACK** to exit.

The following settings can be configured via the **[Picture and sound]** experience bar.

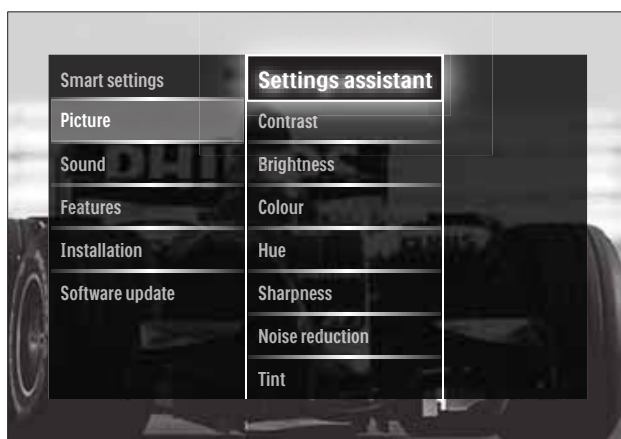
- **[Smart settings]** Applies pre-defined picture and sound settings.
- **[Colour]** Adjusts colour saturation.
- **[Contrast]** Adjusts the intensity of bright areas, keeping dark areas unchanged.
- **[Bass]** Adjusts the bass level.
- **[Treble]** Adjusts the treble level.
- **[TV speakers]** Turns on or off TV speakers. If **[Automatic (EasyLink)]** is selected, the TV speakers are switched off when content from an EasyLink-compliant home theater system is detected.
- **[Ambilight active mode]** Sets an Ambilight setting between relaxed and dynamic levels. This feature is only available when Ambilight **[Colour]** is set to **[Active mode]**.
- **[Ambilight]** Turns Ambilight on or off.
- **[Ambilight brightness]** Changes the light output from Ambilight.

### Note

- **[Bass]** and **[Treble]** are not available if **[TV speakers]** are set to **[Off]**.

## Manually adjust picture settings

- 1 When watching TV, press **⏠** (**Home**).  
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.  
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Picture]** menu appears.
- 5 Press **OK**.  
↳ The **[Picture]** menu appears.



6 Press the **Navigation buttons** and **OK** to select and adjust a picture setting.

7 Press **↶ BACK** to exit.

The following picture settings can be configured. Depending on the format of the picture source, some picture settings are not available.

- **[Settings assistant]** Use settings assistant to guide you through the best picture and sound settings.
- **[Contrast]** Adjusts the intensity of bright areas, keeping dark areas unchanged.
- **[Brightness]** Adjusts the intensity and details of dark areas.
- **[Colour]** Adjusts colour saturation.
- **[Hue]** Compensates colour variations in NTSC encoded transmissions.
- **[Sharpness]** Adjusts sharpness in the image.
- **[Noise reduction]** Filters and reduces noise in an image.
- **[Tint]** Adjusts the colour balance in an image.



#### Note

- Before you adjust **[Custom tint]**, select **[Tint] > [Custom]**, then press **OK** to enable the option.
- **[Custom tint]** Customises tint setting.
- **[Pixel Plus HD]/[Pixel Precise HD]**Accesses advanced settings:
  - **[Perfect Natural Motion]** Reduces field and line flicker to display movement smoothly.

- **[100Hz Clear LCD]** Sets the TV refresh rate to a maximum of 100Hz to provide superior motion sharpness, better black level, high contrast with a flicker-free, quiet image and a larger viewing angle.
- **[Advanced sharpness]** Enables superior sharpness, especially lines and contours in the picture.
- **[Dynamic contrast]** Enhances contrast.
- **[Dynamic backlight]** Adjusts brightness of the TV backlight to match lighting conditions.
- **[MPEG artefact reduction]** Smooths out transitions on digital pictures. You can switch this feature on or off.
- **[Colour enhancement]** Makes colours more vivid and improves the details in bright colours. You can switch this feature on or off.
- **[PC mode]** Enables picture settings adjustment when a PC is connected to the TV via HDMI. If enabled, you can select **[Picture format] > [Unscaled]** which provides maximum detail for display of PC content.
- **[Light sensor]** Adjusts settings dynamically to match lighting conditions.
- **[Picture format]** Changes the picture format.
- **[Auto format mode]** Sets the picture format to automatically fill or automatically zoom into the screen.



#### Tip

- If **[Auto format mode]** is disabled, select **[Picture format] > [Auto format]** to enable the option.

- **[Picture shift]** Adjusts the position of the picture.

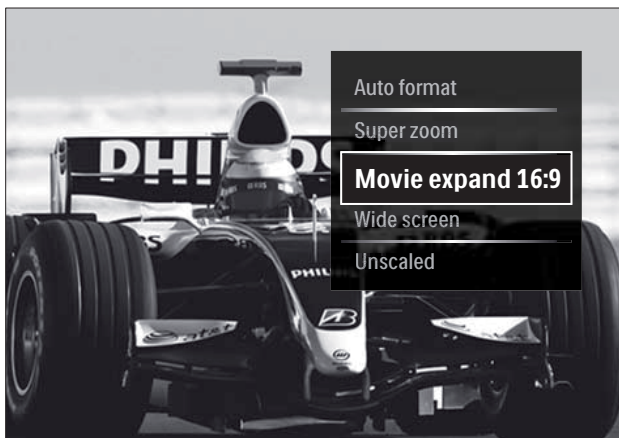


#### Note

- **[Colour]** and **[Contrast]** settings are also accessible via the **[Picture and sound]** experience bar (see 'Use the picture and sound experience bar' on page 16).

## Change picture format

- 1 Press **FORMAT**.  
↳ A list of picture formats appears.



- 2 Press the **Navigation buttons** to select a picture format.
- 3 Press **OK** to confirm your choice.  
↳ The selected picture format is activated.

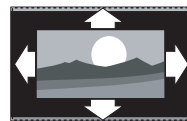
### Tip

- Picture formats are also accessible via the **[Setup]** menu (see 'Access the setup menu' on page 14).

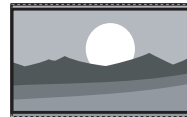
The following picture formats can be selected.

### Note

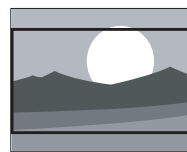
- Depending on the picture source, some picture formats are not available and will not be seen on-screen.
- Before you adjust **[Unscaled]**, select **[Picture]** > **[PC mode]** > **[On]**, then press **OK** to enable the option.



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



**[Super zoom]** Removes the black bars on the sides of 4:3 broadcasts. Not recommended for HD or PC.



**[Movie expand 16:9]** Scales the classic 4:3 format to 16:9. Not recommended for HD or PC.



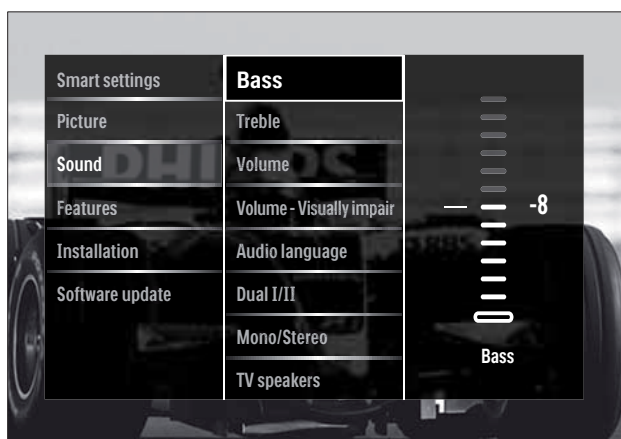
**[Wide screen]** Stretches the classic 4:3 format to 16:9.



**[Unscaled]** Provides maximum detail for PC. Only available when **[PC mode]** is enabled in the **[Picture]** menu.

## Manually adjust sound settings

- 1 When watching TV, press **Home**.  
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.  
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Sound]** menu appears.
- 5 Press **OK**.  
↳ The **[Sound]** menu appears.



6 Press the **Navigation buttons** and **OK** to select and adjust a sound setting.

7 Press **↩ BACK** to exit.

The following sound settings can be configured. Depending on the broadcast, some sound settings may not be available.

- **[Bass]** Adjusts the bass level.
- **[Treble]** Adjusts the treble level.
- **[Volume]** Adjusts the volume.

#### Note

- Before you adjust **[Volume - Visually impaired]**, enable **[Visually impaired]**. When watching TV, press **⏸ OPTIONS** and select **[Visually impaired]**. Select a preferred option and press **OK**.

- **[Volume - Visually impaired]** Sets the mix of visually impaired audio with regular audio. When available, visually impaired audio includes audio descriptions of on-screen action. You can also enable this by pressing **AD (Audio Descriptor)**.
- **[Audio language]** (Digital channels only) Selects between audio languages when multiple languages are broadcast.
- **[Dual I-II]** (Analogue channels only) Selects between audio languages when dual sound is broadcast.
- **[Mono/Stereo]** Selects mono or stereo if stereo broadcast is available.
- **[TV speakers]** Turns on or off TV speakers. If **[Automatic (EasyLink)]** is selected, the TV speakers are switched off when content from an EasyLink-compliant home theater system is detected.

- **[Surround]** Enables spatial sound.
- **[Headphones volume]** Adjusts headphone volume.
- **[Delta volume]** Levels out volume differences between channels or connected devices. Switch to the connected device before you change the delta volume.
- **[Balance]** Adjusts the balance of the right and left speakers.
- **[Auto volume leveling]** Automatically reduces sudden volume changes, for example, when switching channels.

#### Note

- **[Bass]**, **[Treble]** and **[TV speakers]** settings are also accessible via the **[Picture and sound]** experience bar (see 'Use the picture and sound experience bar' on page 16). When supported, **[Audio language]** and **[Volume - Visually impaired]** are directly accessible from the options menu.

## Change Ambilight settings (selected models only)

You can adjust Ambilight colour, brightness and mode to your taste.

- 1 When watching TV, press **⬆ (Home)**.  
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.  
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Ambilight]**.
- 5 Press **OK**.  
↳ The **[Ambilight]** menu appears.
- 6 Press **Navigation buttons** and **OK** to select and adjust an Ambilight setting.
- 7 Press **↩ BACK** to exit.

The following Ambilight settings can be configured:

- **[Ambilight]** Turns Ambilight on or off.
- **[Ambilight active mode]** Sets an Ambilight setting between relaxed and dynamic levels. This feature is only available when Ambilight **[Colour]** is set to **[Active mode]**.
- **[Brightness]** Changes the light output from Ambilight.
- **[Colour]** Selects a predefined colour setting or a customised colour setting.
- **[Custom colour]** Allows fine tuning of predefined colours.
- **[Separation]** Sets the difference in Ambilight color level between the sides of the TV. Setting this feature off gives a dynamic, uniform Ambilight color.
- **[TV switch off]** Selects how Ambilight switches off when the TV is switched off.

## Use advanced teletext features

### Access the teletext options menu

Access the teletext features through the teletext options menu.

- 1 Press **TELETEXT**.  
↳ The teletext screen appears.
- 2 Press **⏏** **OPTIONS**.  
↳ The teletext options menu appears.



- 3 Press the **Navigation buttons** to select an option:

- **[Freeze page]** Freezes the current page.
- **[Dual screen] / [Full screen]** Enables and disables dual screen teletext.
- **[Reveal]** Hides or reveals hidden information on a page, such as solutions to riddles or puzzles.
- **[Cycle subpages]** Cycles through subpages automatically if subpages are available.
- **[Language]** Switches to a different language group to display a language correctly when it uses a different character set.

- 4 Press **OK** to confirm your choice.  
↳ The teletext screen appears.



Tip

- Press **⏏** **OPTIONS** at any time to exit the options menu.

### Select teletext subpages

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



Note

- Enable cycling of subpages before selecting subpages (see 'Access the teletext options menu' on page 20).

- 1 Press **TELETEXT**.  
↳ The teletext screen appears.
- 2 Select a teletext page.
- 3 Press **◀** or **▶** to select a subpage.  
↳ The subpage appears.

## Select T.O.P. teletext broadcasts

Table Of Pages (T.O.P.) teletext broadcasts allow you to jump from one subject to another without using page numbers. T.O.P. teletext is not broadcast on all TV channels.

- 1 Press **TELETEXT**.  
↳ The teletext screen appears.
- 2 Press **INFO**.  
↳ The T.O.P. overview appears.
- 3 Press the **Navigation buttons** to select a subject.
- 4 Press **OK** to confirm your choice.  
↳ The teletext page appears.

## Search teletext

Search a teletext page by subject or word.

- 1 Press **TELETEXT**.  
↳ The teletext screen appears.
- 2 Press **OK** to highlight the first word or number.
- 3 Press the **Navigation buttons** to skip to the word or number to search.
- 4 Press **OK** to begin the search.
- 5 Press **▲** until no word or number is highlighted to exit the search.

## Enlarge teletext pages

For more comfortable reading, you can enlarge the teletext page.

- 1 Press **TELETEXT**.  
↳ The teletext screen appears.
- 2 Press **FORMAT**.  
↳ The teletext screen is enlarged.
- 3 Press:
  - the **Navigation buttons** to move around the enlarged screen.
  - **FORMAT** to return to normal screen size.

## Use Teletext 2.5

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

- 1 When watching TV, press **Home**.  
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.  
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Installation] > [Preferences] > [Teletext 2.5] > [On]** or **[Off]**.  
↳ Teletext 2.5 is enabled or disabled.
- 5 Press **BACK** to exit or press **Home** to go back to the home menu.

## Create and use lists of favourite channels

You can create lists of your preferred TV channels so that you can find those channels easily.

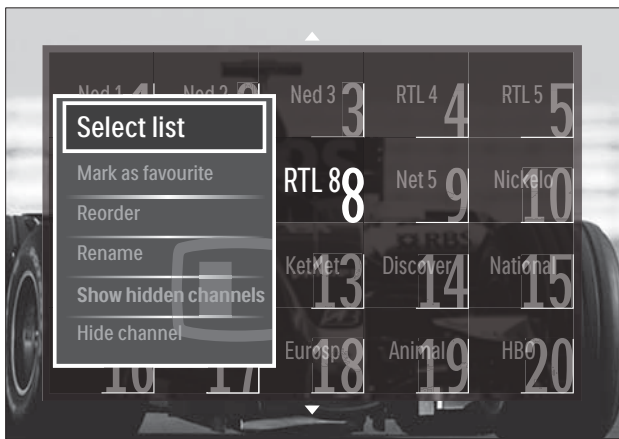


### Note

- Digital radio stations can also be added to favourite lists, if supported.

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

- 1 When watching TV, press **OK**.  
↳ The channel grid appears.
- 2 Press **OPTIONS**.  
↳ The options menu appears.



- 3 Press the **Navigation buttons** to select **[Select list]**.
- 4 Press **OK**.  
↳ The **[Select list]** menu appears.
- 5 Press the **Navigation buttons** to select:
  - **[All]** Displays all channels.
  - **[Favourites]** Displays channels in a selected favourite list.
  - **[Radio]** Displays radio channels only.
  - **[Digital]** Displays digital channels only.
  - **[Analogue]** Displays analogue channels only.
- 6 Press **OK** to confirm your choice.  
↳ The selected list is applied to the channel grid.

## Add or remove channels from a favourite list



Tip

- Select **[All]** channels before adding a channel to a favourite list.

- 1 When watching TV, switch to the channel you want to add or remove from a favourite list.  
Alternatively, press **OK** to enter the channel grid and press the **Navigation buttons** to select the channel to add or remove.

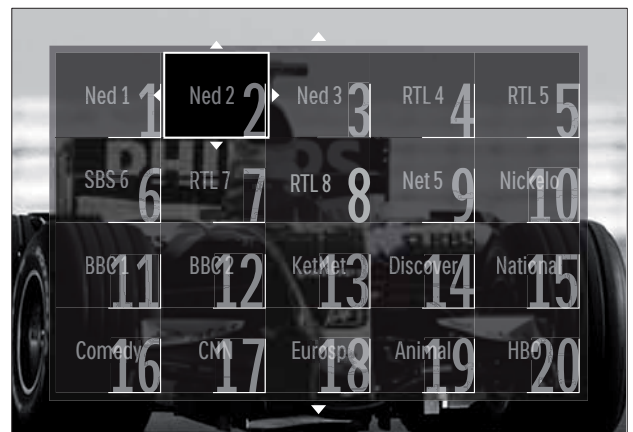
- 2 Press **⏻ OPTIONS**.  
↳ The options menu appears.
- 3 Press the **Navigation buttons** to select **[Mark as favourite]** or **[Unmark as favourite]**.  
↳ A star appears in the channel grid, indicating that the channel is added to the favourite list. The star disappears if you chose to remove the channel from the favourite list.

## Reorder/rearrange and rename channels

### Reorder/rearrange channels

Reorder/rearrange channels in the grid to your desired location.

- 1 When watching TV, press **OK**.  
↳ The channel grid appears.
- 2 Press **⏻ OPTIONS**.  
↳ The options menu appears.
- 3 Press the **Navigation buttons** to select **[Reorder]**, then press **OK**.  
↳ An on-screen message appears. To continue, go to step 4.  
↳ To cancel and exit, press **⏻ OPTIONS** and follow the on-screen instructions.
- 4 Press the **Navigation buttons** to select the channel to reorder in the grid.  
↳ A box appears around the selected channel.



- 5 Press the **Navigation buttons** to move the channel to the desired location in the grid.
- 6 Press **OK** to confirm your choice.
  - ↳ The channel is moved to the selected location.
- 7 Press **↩ BACK** to exit the channel grid.

## Rename channels

Rename channels in the TV channel list.

- 1 When watching TV, press **OK**.
  - ↳ The channel grid appears.
- 2 Press the **Navigation buttons** to select a channel to rename.
- 3 Press **☰ OPTIONS**.
  - ↳ The options menu appears.
- 4 Press the **Navigation buttons** to select **[Rename]**.
  - ↳ An entry screen appears.
- 5 Press the **Navigation buttons** or **Numeric buttons** to edit the name, then press **OK**.
- 6 Once complete, press the **Navigation buttons** to select **[Done]**.
  - To clear the name entered, select **[Clear]**.
  - To cancel, select **[Cancel]**.
- 7 Press **OK** to confirm your choice.
- 8 Press **↩ BACK** to exit the channel grid.

## Hide and unhide channels

### Hide channels

Hide channels from the grid, to prevent unauthorised access.

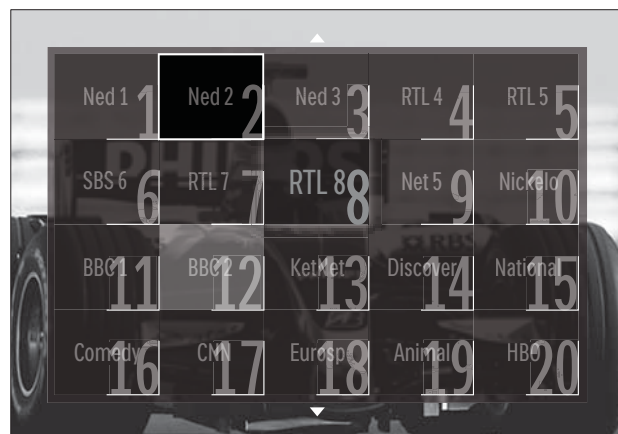
- 1 When watching TV, press **OK**.
  - ↳ The channel grid appears.
- 2 Press the **Navigation buttons** to select a channel to hide.
- 3 Press **☰ OPTIONS**.
  - ↳ The options menu appears.

- 4 Press the **Navigation buttons** to select **[Hide channel]**.
- 5 Press **OK** to confirm your choice.
  - ↳ The channel is hidden.
- 6 Press **↩ BACK** to exit the channel grid.

### Unhide channels

Display hidden channels.

- 1 When watching TV, press **OK**.
  - ↳ The channel grid appears.
- 2 Press **☰ OPTIONS**.
  - ↳ The options menu appears.
- 3 Press the **Navigation buttons** to select **[Show hidden channels]**.
- 4 Press **OK**.
  - ↳ Hidden channels appear in the channel grid, but without channel information displayed. It is displayed as a black box.



- 5 Press the **Navigation buttons** to select the channel to unhide.
- 6 Press **☰ OPTIONS**.
  - ↳ The options menu appears.
- 7 Press the **Navigation buttons** to select **[Unhide channel]**, then press **OK**.
  - ↳ The channel is unhidden.

#### Note

- Repeat steps 5 through 7 to unhide other channels.



# Use the Electronic Programme Guide

## Note

- EPG is not available in all countries. If available, you will receive either **[Now]/[Next]** or 8 days EPG.

EPG is an on-screen guide available for digital channels. EPG allows you to:

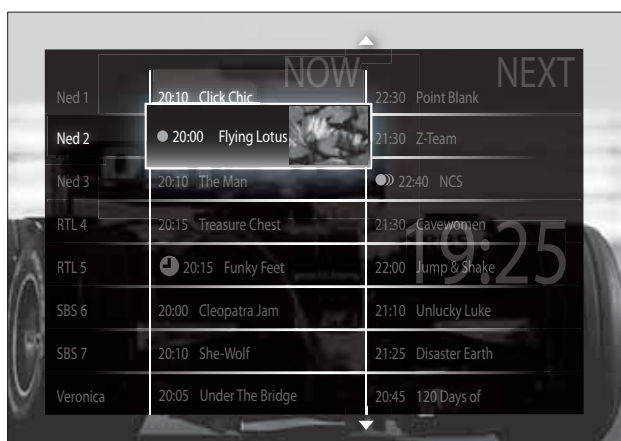
- View a list of digital programmes being broadcast
- View upcoming programmes
- Group programmes by genre
- Set reminders when programmes start
- Set up preferred EPG channels

## Switch on EPG

## Note

- The first time you use EPG, you may be prompted to perform an update. Follow the on-screen instructions to perform the update.

- 1 When watching TV, press **GUIDE**.  
↳ The EPG menu appears.



- 2 Press:
  - The **Navigation buttons** to move around the screen.
  - **INFO** to view more information about a programme (see 'View channel/programme information' on page 24).

- **OPTIONS** to view the options menu (see 'Use the EPG options menu' on page 24).

- 3 Press **BACK** to exit to the original channel, or press **OK** to exit to the selected channel.

## View channel/programme information

- 1 When watching TV or when in EPG, press **INFO**.  
↳ The programme information screen appears.
- 2 Press the **Navigation buttons** to navigate the screens.
- 3 Press **INFO** to exit back to the original channel or press **BACK** to exit to the EPG menu.

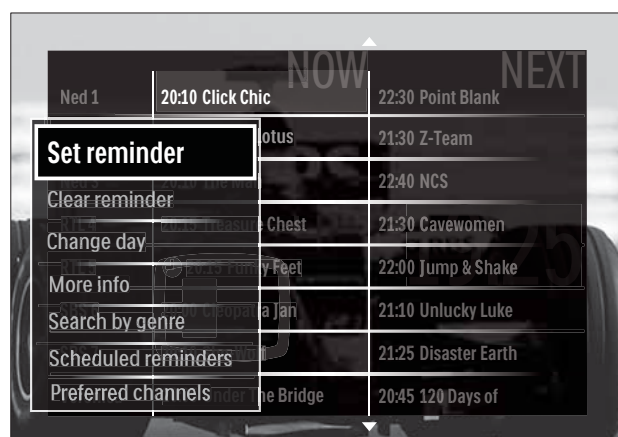
## Use the EPG options menu

Use the EPG options menu to set or clear reminders, change day and access other useful EPG options.

## Note

- The EPG options are only accessible for 8 days of TV channel information.

- 1 When in EPG, press **OPTIONS**.  
↳ The EPG options menu appears.



- 2 Press the **Navigation buttons** and **OK** to select and adjust:
  - **[Set reminder]** Sets programme reminders.
  - **[Clear reminder]** Clears programme reminders.
  - **[Change day]** Sets the EPG day. Select **[Today]**, **[Next day]** or **[Previous day]**.
  - **[More info]** Displays programme information.
  - **[Search by genre]** Searches TV programmes by genre.
  - **[Scheduled reminders]** Lists programme reminders.
  - **[Preferred channels]** Sets preferred EPG channels.
- 3 Press **⏏** **OPTIONS** to exit to the EPG options menu.

## Use timers

You can set timers to switch the TV to standby at a specified time.

### Automatically switch the TV to standby (sleep timer)

Sleep timer switches the TV to standby after a pre-defined period of time.



Tip

- You can always switch off your TV earlier or reset the sleeptimer during the countdown.

- 1 When watching TV, press **⏏** (**Home**).  
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**
- 3 Press **OK**.  
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Features] > [Sleeptimer]**.  
↳ The **[Sleeptimer]** menu appears.

- 5 Press the **Navigation buttons** to set the sleep time.  
↳ The sleep timer can be up to 180 minutes, in steps of five minutes. The sleep timer is switched off if set to zero minutes.
- 6 Press **OK** to activate the sleeptimer.  
↳ The TV switches to standby after the set period of time.
- 7 Press **⏪** **BACK** to exit or press **⏏** (**Home**) to return to the home menu.

## Use child and rating locks

You can prevent your children from watching TV by locking the TV and using age ratings.

### Set or change the child lock code

- 1 When watching TV, press **⏏** (**Home**).  
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.  
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Features] > [Set code]/[Change code]**.  
↳ The **[Set code]/[Change code]** menu appears.
- 5 Enter the code with the **Numeric buttons**.
- 6 Press **OK**.  
↳ A message appears confirming that your code is set.
- 7 Press **⏪** **BACK** to exit or press **⏏** (**Home**) to go back to the home menu.



Tip

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

---

## Lock or unlock the TV

Lock the TV to prevent access to all channels and connected devices.

- 1 When watching TV, press **⬆** (**Home**).  
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.  
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Features] > [Child lock] > [Lock]/[Unlock]**.  
↳ A message appears prompting you to enter the child lock code.
- 5 Enter the child lock code with the **Numeric buttons**.  
↳ The **[Child lock]** menu appears.
- 6 Press the **Navigation buttons** to select **[Lock]/[Unlock]**.
- 7 Press **OK** to confirm your choice.  
↳ All channels and connected devices are locked or unlocked.
- 8 Press **↩ BACK** to exit or press **⬆** (**Home**) to go back to the home menu.

---

## Enable parental ratings

### Note

- Parental rating is not available in all countries.

Some digital broadcasters rate their programmes according to age. Before you can set parental ratings, you have to enable the feature.

- 1 When watching TV, press **⬆** (**Home**).  
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.  
↳ The **[Setup]** menu appears.

- 4 Press the **Navigation buttons** to select **[Features] > [Child lock]**, then press **▶**.  
↳ A message appears prompting you to enter the child lock code.
- 5 Enter the child lock code with the **Numeric buttons**.
- 6 Press the **Navigation buttons** to go back one menu level to **[Features] > [Parental rating]**.  
↳ The **[Parental rating]** menu is now available.

---

## Set parental ratings

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

### Note

- Before you can set parental ratings, you have to enable the feature (see 'Enable parental ratings' on page 26).

- 1 When watching TV, press **⬆** (**Home**).  
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.  
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Features] > [Parental rating]**.  
↳ A message appears prompting you to enter the child lock code.
- 5 Enter the child lock code with the **Numeric buttons**.
- 6 Press the **Navigation buttons** to select an age rating, then press **OK** to apply the setting.  
↳ All programmes beyond the selected age rating are blocked.
- 7 Press **↩ BACK** to exit or press **⬆** (**Home**) to go back to the home menu.

## Use subtitles

You can enable subtitles for each TV channel. Subtitles are broadcast via teletext or DVB-T digital broadcasts. With digital broadcasts, you can select a subtitle language.

### Enable or disable subtitles on analogue TV channels

- 1 Switch to an analogue TV channel.
- 2 Press **TELETEXT**.
- 3 Enter the three-digit page number of the subtitle page with the **Numeric buttons**.
- 4 Press **TELETEXT** to switch off teletext.
- 5 Press **SUBTITLE**.  
↳ The **[Subtitles]** menu appears.

#### Note

- The **[Subtitles]** menu is also accessible through the **[Setup]** menu.

- 6 Press the **Navigation buttons** to select:
  - **[On]** Enables subtitles.
  - **[Off]** Disables subtitles.
  - **[On during mute]** Displays subtitles only when audio is muted.
- 7 Press **OK** to confirm your choice.  
↳ Subtitles are enabled or disabled.
- 8 Press **↩ BACK** to exit or press **🏠 (Home)** to go back to the home menu.

#### Note

- Repeat this procedure to enable subtitles on each analogue channel.
- If EasyLink is enabled, subtitles are not displayed when **[On during mute]** is selected (see 'Enable or disable EasyLink' on page 50).

### Enable or disable subtitles on digital TV channels

- 1 Press **SUBTITLE**.  
↳ The **[Subtitles]** menu appears.

#### Note

- The **[Subtitles]** menu is also accessible via the **[Setup]** menu (see 'Access the setup menu' on page 14).

- 2 Press the **Navigation buttons** to select:
  - **[On]** Enables subtitles.
  - **[Off]** Disables subtitles.
  - **[On during mute]** Displays subtitles only when audio is muted.
- 3 Press **OK**.  
↳ Subtitles are enabled or disabled.
- 4 Press **↩ BACK** to exit or press **🏠 (Home)** to go back to the home menu.

### Select a subtitle language on digital TV channels

#### Note

- When you select a subtitle language on a digital TV channel as described below, the preferred subtitle language set in the installation menu is temporarily overruled.

- 1 When watching TV, press **🏠 (Home)**.  
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.  
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Features] > [Subtitle language]**.  
↳ A list of subtitle languages appears.
- 5 Press the **Navigation buttons** to select a language.
- 6 Press **OK** to confirm your choice.  
↳ The subtitle language is applied.

#### Note

- Select preferred subtitle languages in the **[Languages]** menu. Subtitles automatically appear in the preferred languages when enabled.

---

## Use the TV clock

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

---

### Display the TV clock

You can display a clock on the TV screen, displaying the current time.

- 1 When watching TV, press **⏸** **OPTIONS**.  
↳ The options menu appears.
- 2 Press the **Navigation buttons** to select **[Clock]**.
- 3 Press **OK** to confirm your choice.  
↳ The clock displays on the TV screen.

 **Note**

- To disable the clock, repeat the procedure above.

 **Tip**

- The clock is also accessible via the **[Setup]** menu (see 'Access the setup menu' on page 14).

---

### Change the clock mode

By default, the clock mode is set to **[Automatic]**, syncing the TV clock to Coordinated Universal Time (UTC). If your TV cannot receive UTC transmissions, set the clock mode to **[Manual]**. If clock mode is **[Manual]**, time data is based on your current time zone (see 'Step 1 Select your system' on page 36) and daylight saving conditions (see 'Enable or disable daylight saving' on page 28).

- 1 When watching TV, press **⬆** (**Home**).  
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.  
↳ The **[Setup]** menu appears.

- 4 Press the **Navigation buttons** to select **[Installation] > [Clock] > [Auto clock mode]**.  
↳ The **[Auto clock mode]** menu appears.
- 5 Press the **Navigation buttons** to select **[Automatic]** or **[Manual]**.
- 6 Press **OK** to confirm your choice.  
↳ The clock mode is set.

---

### Enable or disable daylight saving

If clock mode is set to **[Manual]**, enable or disable daylight saving if required for your time zone.

- 1 In the **[Clock]** menu, press the **Navigation buttons** to select **[Daylight saving]**.  
↳ The **[Daylight saving]** menu appears.
- 2 Press the **Navigation buttons** to select **[Daylight saving time]** or **[Standard time]**.
- 3 Press **OK** to confirm your choice.  
↳ Daylight saving is enabled or disabled for your time zone.

---

## View photos, play music and watch video

 **Caution**

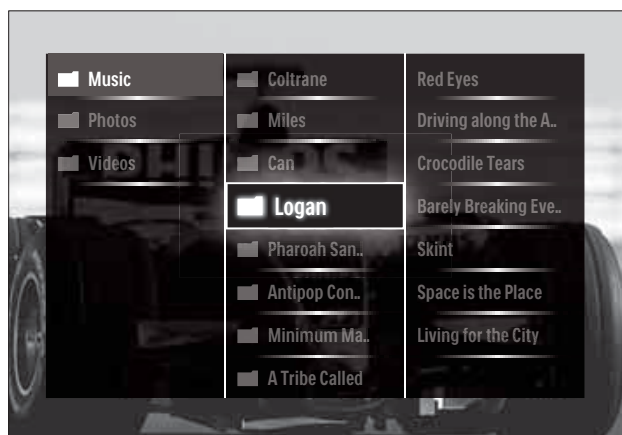
- Philips is not responsible if your USB storage device is not supported nor is it responsible for damage or loss of data from use of this feature.

Your TV is fitted with a USB connector that enables you to view photos, listen to music or watch movies stored on a USB storage device.

Your TV also has a network connector, enabling you to access and play media files directly from your computer.

## Connect a USB storage device and enter the content browser

- 1 While the TV is on, connect the USB device to the USB port on the side of your TV.  
↳ The USB content browser appears.



### Note

- The USB content browser is also accessible by selecting **[Browse USB]** in the home menu.
- If you connect multiple USB storage devices via a USB hub, a message appears prompting you to select a device. Press the **Navigation buttons** to select the device, then press **OK** to confirm.

- 2 To exit from the USB content browser, press **▲(HOME)**.  
↳ The home menu appears.

## Connect to a network and enter the content browser

Before accessing the content browser, be sure that the TV is connected to a computer network (see 'Connect to a network and enter the content browser' on page 29).

- 1 When watching TV, press **▲ (Home)**.  
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Browse PC network]**.  
↳ The content browser appears.

## Watch a slideshow of your photos

- 1 In the content browser, press the **Navigation buttons** to select a photo.
- 2 Press **▶||** or **OK**.  
↳ A slideshow begins from the selected image.
- 3 Press:
  - **▶||** to pause the slideshow.
  - **◀/▶**, **◀/▶▶** or **P +/-** to go back or move forward to the next image.
  - **■** to stop the slideshow and return to the content browser.

## Change slideshow settings

- 1 When viewing a slideshow, press **OPTIONS**.  
↳ The options menu appears.
- 2 Press the **Navigation buttons** to select and adjust:
  - **[Rotate]** Rotates a picture.
  - **[Repeat]** Repeats the slideshow.
  - **[Shuffle on]** Displays pictures in the slideshow at random.
  - **[Shuffle off]** Disables random display of pictures in the slideshow.
  - **[Slideshow speed]** Sets the amount of time that a picture is shown.
  - **[Slideshow transition]** Sets the transition from one picture to the next.
- 3 Press **OK** to confirm your choice.  
↳ The slideshow setting is applied.

## Listen to music

- 1 In the USB content browser, press the **Navigation buttons** to select a song.
- 2 Press **OK**.  
↳ The song starts to play in the music player:
- 3 Press:
  - **P +/-** to skip to the next or previous song.
  - **◀/▶▶** to fast-forward or rewind a song.
  - **▶||** to play or pause a song.
- 4 Press **■** or **OK** to stop play and exit to the USB content browser.

---

## Change music settings

- 1 When in the music player, press **OPTIONS**.  
↳ The options menu appears.
- 2 Press the **Navigation buttons** to select and adjust:
  - **[Repeat]** Repeats a song or an album.
  - **[Shuffle on]/[Shuffle off]** Enables or disables random play of songs.
- 3 Press **OK** to confirm your choice.  
↳ The music setting is applied.

### Note

- Slideshow settings are also available by pressing the **OPTIONS** button when in the content browser.

---

## Watch video

- 1 In the USB content browser, press the **Navigation buttons** to select a video.
- 2 Press **OK**.  
↳ The video starts to play in the video player.
- 3 Press:
  - **P +/-** to skip to the next or previous video.
  - **◀▶** to fast-forward or rewind a video.
  - **▶||** to play or pause a video.
- 4 Press **■** or **OK** to stop play and exit to the USB content browser.

---

## Change video settings

- 1 When in the video player, press **OPTIONS**.  
↳ The options menu appears.
- 2 Press the **Navigation buttons** to select and adjust:
  - **[Small screen]** Plays video in a small screen.

- **[Full screen]** Plays video across the whole screen.
- **[Repeat]** Repeats a video.
- **[Shuffle on]/[Shuffle off]** Enables or disables random play of videos.

- 3 Press **OK** to confirm the setting change.

---

## Disconnect a USB storage device

### Caution

- Follow this procedure to avoid damage to your USB storage device.

- 1 Press **▲(HOME)** to exit the USB content browser.
- 2 Wait five seconds before disconnecting the USB storage device.

---

## Listen to digital radio channels

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

- 1 When watching TV, press **OK**.  
↳ The channel grid appears.
- 2 Press **OPTIONS**.  
↳ The options menu appears.
- 3 Press the **Navigation buttons** to select **[Select list]**.  
↳ The **[Select list]** menu appears.
- 4 Press the **Navigation buttons** to select **[Radio]**.
- 5 Press **OK**.  
↳ A list of available digital radio channels appears in the channel grid.
- 6 Press the **Navigation buttons** to select a radio channel.
- 7 Press **OK**.  
↳ The selected digital radio channel plays through the TV speakers.

## Use Scenea

### Activate Scenea

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

- 1 Press **▲**.
- 2 Select **[Scenea]**, then press **OK**.
  - ↳ The default or pre-loaded picture is displayed.

#### Note

- Note: If the sleep timer is off, the wallpaper is displayed for 240 minutes. Otherwise, it is displayed for the duration of the sleep timer (see 'Automatically switch the TV to standby (sleep timer)' on page 25).

### Set a picture as Scenea

#### Note

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

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

## Update the TV software

Philips continuously tries to improve its products and we recommend that you update the TV software when updates are available. Check [www.philips.com/support](http://www.philips.com/support) for availability.

### Check the current software version

- 1 When watching TV, press **▲** (**Home**).
  - ↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.
  - ↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Software update] > [Current software info]**.
- 5 Press **OK**.
  - ↳ The version of the current software is displayed.

### Update software (from website)

Before performing this procedure be sure to:

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

- 1 When watching TV, press **▲** (**Home**).
  - ↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.
  - ↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Software update] > [Update now]**.
- 5 Press **OK**.
  - ↳ The update assistant starts. Follow the on-screen instructions to complete the update.



---

## Update software (digital broadcasts)

(Only available in some countries) If available, your TV can receive software updates via digital broadcasts.

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

Follow the instructions below to update the software at a later stage.

- 1 When watching TV, press **⬆** (**Home**).  
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.  
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Software update]** > **[Local updates]**.
- 5 Press **OK**.  
↳ The TV searches for available software updates via digital broadcasts.

---

## Update software (from internet)

(Only available in some countries) If your TV is connected to a router, which is connected to the Internet, you can update the TV software directly from the Internet. You need a high speed Internet connection.

- 1 When watching TV, press **⬆** (**Home**).  
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.  
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Software update]** > **[Update now]**.
- 5 Press **OK**.
- 6 Select **[Internet]** and press **OK**.  
↳ The update begins. Once complete, the TV switches off and back on again automatically. Wait for the TV to switch back on; do not use **⏻ POWER** on the TV.

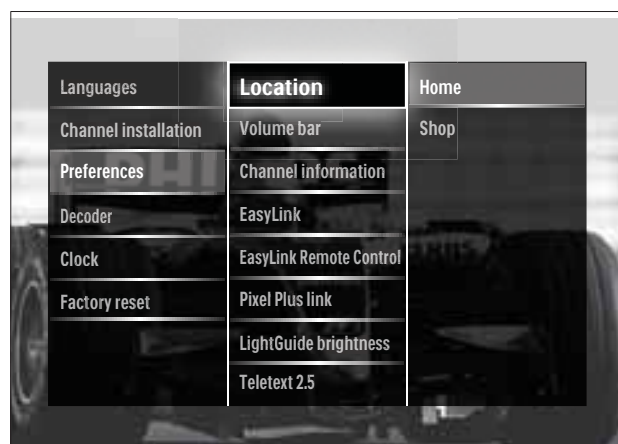
### Tip

- If the TV is connected to the Internet, the TV displays a message about the availability of new software at startup.

---

## Change TV preferences

- 1 When watching TV, press **⬆** (**Home**).  
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.  
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Installation]** > **[Preferences]**.  
↳ The **[Preferences]** menu appears.



- 5 Press the **Navigation buttons** to select and change:
  - **[Location]** Optimises TV settings for your location - home or shop.
  - **[Volume bar]** Displays the volume bar when you adjust the volume.
  - **[Channel information]** Displays information about the TV channel every time you switch channels.
  - **[EasyLink]** Enables one-touch play and one-touch standby between EasyLink-compliant devices.

- **[EasyLink Remote Control]** When EasyLink is enabled, allows remote control key forwarding.
- **[Pixel Plus link]** When EasyLink is enabled, automatically applies the best Pixel Plus setting if there is more than one (for example, if both your TV and DVD player support Pixel Plus).
- **[LightGuide brightness]** Sets the brightness of the front LED indicator or LightGuide.
- **[Teletext 2.5]** Enables or disables Teletext 2.5.

- 6** Press **OK**.  
↳ The TV preference is applied.

## Start a TV demo

(Not supported on MHEG channels)

- 1** When watching TV, press **DEMO**.  
↳ The demo menu appears.
- 2** Press the **Navigation buttons** to select a demo.
- 3** Press **OK** to start the demo.
- 4** Press **DEMO** or **↶ BACK** to exit the demo.

## Reset the TV to factory settings

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

- 1** When watching TV, press **🏠 (Home)**.  
↳ The home menu appears.
- 2** Press the **Navigation buttons** to select **[Setup]**.  
↳ The **[Setup]** menu appears.
- 3** Press the **Navigation buttons** to select **[Installation] > [Factory reset]**.
- 4** Press **OK**.  
↳ TV settings are reset back to the factory default.

## Use universal remote control (selected models only)

Control other devices such as a DVD player, a set-top box or a home theatre system from Philips or other brands.

To return to TV mode from universal control, press **TV**.

Use these keys to control the devices:

- **DVD:** controls a DVD player, DVD Recorder, DVD-R HDD or Blu-ray Disc player.
- **STB:** controls a digital receiver or satellite receiver
- **HTS:** controls a home theatre system or an amplifier.

## Setup universal remote control

Before you use the TV remote control to control another device, setup the universal remote control mode.



### Note

- For some devices, this feature is not supported. There is no suitable RC code.

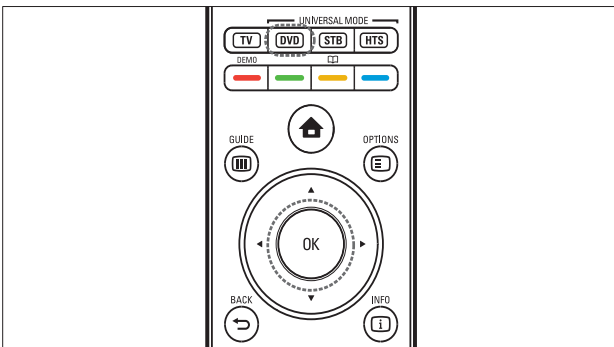
- 1** Press **🏠 (Home)**.  
↳ The home menu appears.
- 2** Press the **Navigation buttons** to select **[Setup]**.
- 3** Press **OK**.  
↳ The **[Setup]** menu appears.
- 4** Press the **Navigation buttons** to select **[Installation] > [Universal remote control]**.
- 5** Press **OK**.  
↳ Follow the on-screen instructions. The TV searches for a suitable RC code for your device.
- 6** When an RC code is detected, press the **Universal control buttons** to control the device.  
↳ The key blinks. Use the remote control to control the detected device.

## Tip

- In universal remote control mode, the remote control switches to TV mode after 30 seconds if no key is pressed.

## Manually setup universal remote control

Enter an RC code to setup a universal mode key (see 'Universal remote control codes' on page 57).



- 1 Press the universal mode button (**DVD**, **STB** or **HTS**) and **OK** simultaneously.  
↳ All four keys light up for one second and the key stays lighted.
- 2 Enter the 4-digit RC code for the device.
- 3 If the code is accepted, all four keys blink three times.  
↳ The universal mode key is set up.
- 4 If the code entered is incorrect, all keys blink for two seconds. Re-enter the correct code.
- 5 When setup is complete, press the universal mode key to operate the device.

## Tip

- If the device does not react correctly, repeat the setup with another RC code.

# 6 Install channels

The first time you set up your TV, you are prompted to select a menu language and to install TV and digital radio channels (if available). This chapter provides instructions on how to re-install and fine tune channels.

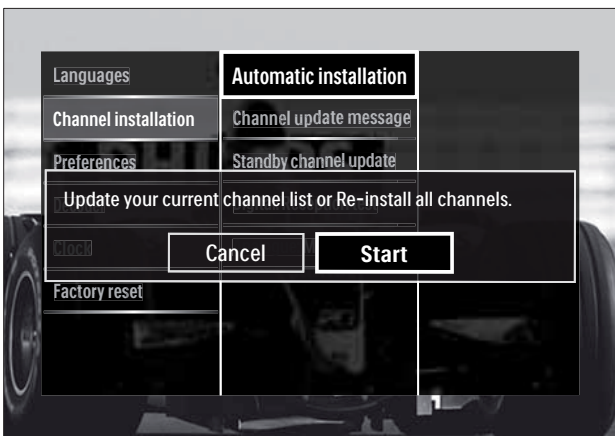
## Automatically install channels

This section describes how to search and store channels automatically.

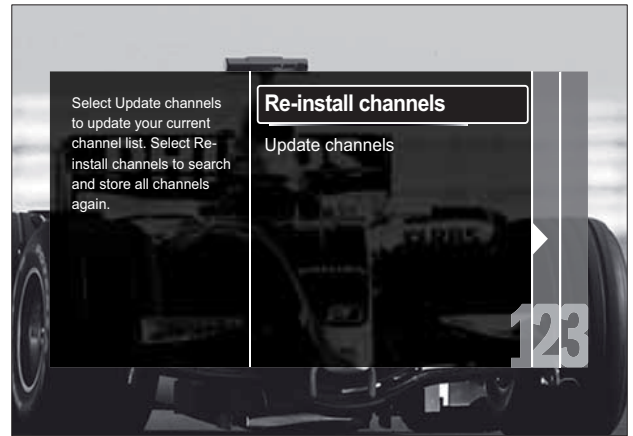
### Install channels

Your TV searches and stores all available digital and analogue TV channels as well as all available digital radio channels.

- 1 In the **[Channel installation]** menu, press the **Navigation buttons** to select **[Automatic installation]**.
- 2 Press **OK**.
  - ↳ A message appears prompting you to start channel installation.



- 3 Press the **Navigation buttons** to select **[Start]**.
- 4 Press **OK**.
  - ↳ The channel update screen appears, with **[Re-install channels]** selected.



#### Caution

- Leave **[Settings]** unchanged unless your DVB-C provider supplies values for **[Network frequency]**, **[Network ID]** or **[Symbol rate]**.
- Setting **[Frequency scan]** to **[Full scan]** can extend installation time significantly.



#### Note

- If you have access to DVB-T and DVB-C, and want to view channels from both networks, you must perform channel installation twice — once for DVB-T and once for DVB-C. Select **[Antenna]** to install DVB-T channels and select **[Cable]** to install DVB-C channels.
- To switch between DVB-T and DVB-C channels (see 'Access DVB-C and DVB-T channel networks' on page 36).

- 1 Press **OK**.
  - ↳ Follow the onscreen instructions to complete channel installation. When channel installation is complete, **[Done]** is selected and a list of installed channels appears.
- 2 Press **OK** to confirm your choice.
  - ↳ The TV exits to the **[Channel installation]** menu.

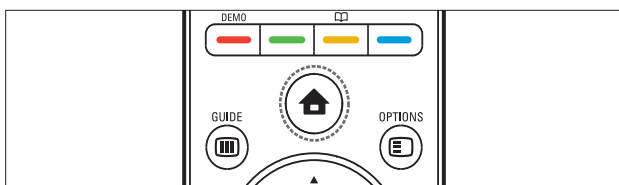


#### Tip

- When digital TV channels are found, the list of installed channels may display empty channel numbers. You can rename, reorder or uninstall stored channels as described below.

## Access DVB-C and DVB-T channel networks

This option appears only if your country supports DVB-C (Digital Video Broadcasting-Cable). If you have installed both DVB-C and DVB-T channels, you have to switch to the respective network to watch channels on that network.



- 1 When watching TV, press **Home**.  
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.  
↳ The **[Setup]** menu appears.
- 3 Press the **Navigation buttons** to select **[Installation] > [Channel installation] > [Antenna or Cable DVB] > [Antenna]** or **[Cable]**.
  - Select **[Antenna]** to access DVB-T (Digital Video Broadcasting-Terrestrial) channels.
  - Select **[Cable]** to access DVB-C (Digital Video Broadcasting-Cable) channels.
- 4 Press **OK** to confirm your choice.
- 5 Press **BACK** to exit.  
↳ The TV switches to the selected network.

## Manually install channels

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

### Step 1 Select your system

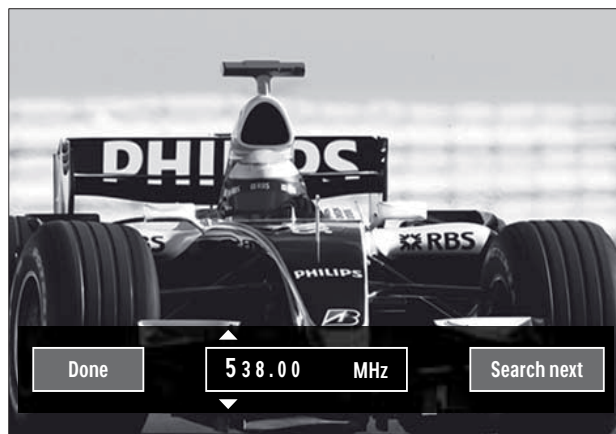
#### Note

- Skip this step if your system settings are correct.

- 1 When watching TV, press **Home**.  
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.  
↳ The **[Setup]** menu appears.
- 3 Press the **Navigation buttons** to select **[Installation] > [Channel installation] > [Analogue: Manual installation] > [System]**.
- 4 Press **OK**.  
↳ A list of regional systems appears.
- 5 Press the **Navigation buttons** to select your country or region.
- 6 Press **OK** to confirm your choice.  
↳ The selected country or region is applied.

### Step 2 Search and store new TV channels

- 1 In the **[Analogue: Manual installation]** menu, press the **Navigation buttons** to select **[Find channel]**.
- 2 Press **OK**.  
↳ The **[Find channel]** menu appears.



- 3 Press:
  - The **Navigation buttons** or **Numeric buttons** to manually enter the channel frequency.
  - The **Navigation buttons** to select **[Search next]**, then press **OK** to automatically search for the next channel.
- 4 When the correct channel frequency is selected, press the **Navigation buttons** to select **[Done]**.
- 5 Press **OK**.
  - ↳ The **[Analogue: Manual installation]** menu appears.
- 6 Press the **Navigation buttons** to select **[Store current channel]** to store the new channel under the current channel; or **[Store as new channel]** to store the new channel under a new channel number.
- 7 Press **OK** to confirm your choice.
  - ↳ The channel is stored.

---

### Fine-tune analogue channels

You can fine tune analog channels manually when reception is poor.

- 1 When watching TV, select the channel to fine-tune.
- 2 Press **⬆** (**Home**).
  - ↳ The home menu appears.
- 3 Press the **Navigation buttons** to select **[Setup]**.
- 4 Press **OK**.
  - ↳ The **[Setup]** menu appears.
- 5 Press the **Navigation buttons** to select **[Installation] > [Channel installation] > [Analogue: Manual installation] > [Fine tune]**.
- 6 Press **OK**.
  - ↳ The **[Fine tune]** menu appears.
- 7 Press the **Navigation buttons** or **Numeric buttons** to manually enter the channel frequency.

- 8 When the correct channel frequency is selected, press the **Navigation buttons** to select **[Done]**, then press **OK**.
  - ↳ The **[Analogue: Manual installation]** menu appears.
- 9 Press the **Navigation buttons** to select **[Store current channel]** to store the new channel under the current channel.
- 10 Press **OK** to confirm your choice.

---

### Manually update the channel list

If your TV is in standby mode, an update is performed every morning. This update matches channels stored in your channel list with those available from your broadcaster.

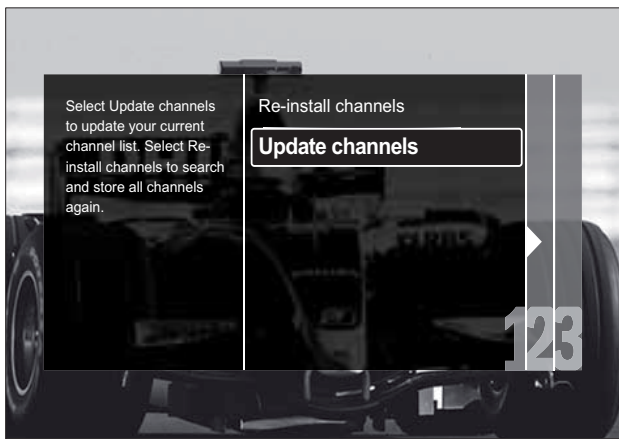
In addition to this automatic update, you can manually update the channel list.



#### Tip

- To disable the automatic update, in the **[Installation]** menu, press the **Navigation buttons** to select **[Channel installation] > [Channel update in standby]**, then select **[Off]**.

- 1 In the **[Installation]** menu, press the **Navigation buttons** to select **[Channel installation] > [Automatic installation]**.
- 2 Press **OK**.
  - ↳ A message appears with **[Start]** selected, prompting you to start the channel update.
- 3 Press **OK**.
  - ↳ The channel update screen appears.
- 4 Press the **Navigation buttons** to select **[Update channels]**.



- 5 Press **OK**.
  - ↳ Follow the on-screen instructions to complete channel update. When the update is complete, **[Done]** is selected and a list of added channels is displayed.
- 6 Press **OK**.
  - ↳ The **[Installation]** menu appears.

---

## Test digital reception

You can check the quality and signal strength of digital channels. This allows you to reposition and test your antenna or satellite dish.

- 1 In the **[Installation]** menu, press the **Navigation buttons** to select **[Channel installation] > [Digital: Reception test] > [Search]**.
- 2 Press **OK**.
  - ↳ The **[Search]** menu appears.
- 3 Press:
  - The **Navigation buttons** or **Numeric buttons** to manually enter the channel frequency.
  - The **Navigation buttons** to select **[Search]**, then press **OK** to automatically search for the next channel.

If the signal quality and strength is poor, reposition the antenna or satellite dish and retest.

- 4 When complete, press the **Navigation buttons** to select **[Done]**.
- 5 Press **OK**.
  - ↳ The **[Installation]** menu appears.

### Note

- If you have further problems with the reception of your digital broadcast, contact a specialised installer.

---

## Change startup message settings

Enable or disable messages that appear at the startup to indicate whether a channel or installation update is needed.

- 1 In the **[Installation]** menu, press the **Navigation buttons** to select **[Channel installation] > [Channel update message]**.
- 2 Press **OK**.
- 3 Press the **Navigation buttons** to select **[On]** or **[Off]**.
  - ↳ Startup messages are enabled or disabled.

# 7 Connect devices

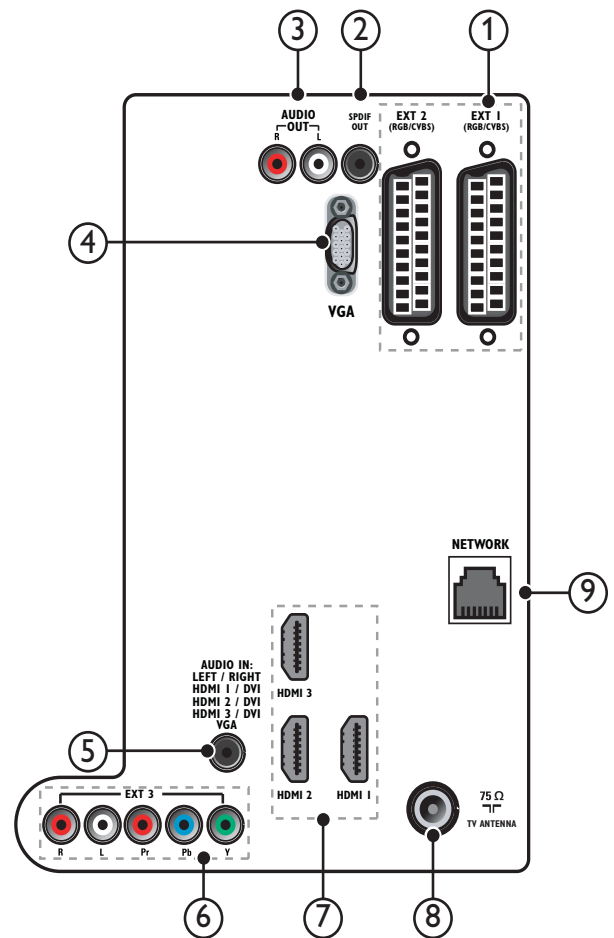
For best picture quality, we recommend you to use the following connection types, listed below from highest to basic quality:

- 1 HDMI
- 2 Y Pb Pr (component)
- 3 SCART
- 4 VIDEO (composite)

## Note

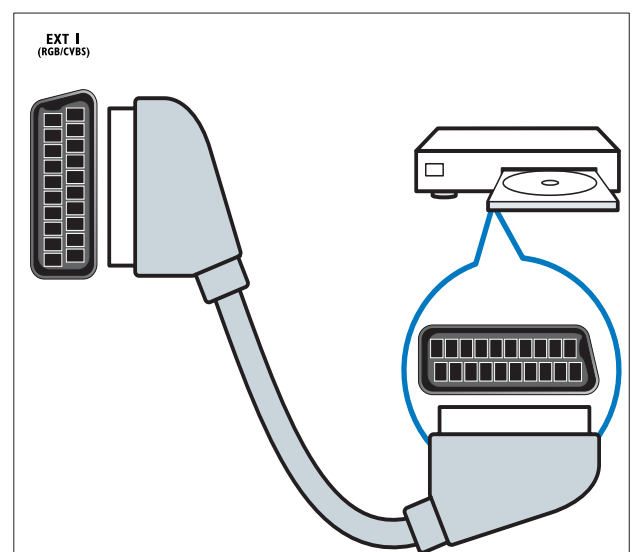
- The connectivity diagrams provided in this section are examples only. A comprehensive interactive guide to help you connect your product is available at [www.connectivityguide.philips.com](http://www.connectivityguide.philips.com).

## Back connectors



### ① EXT 1/EXT 2 (SCART)

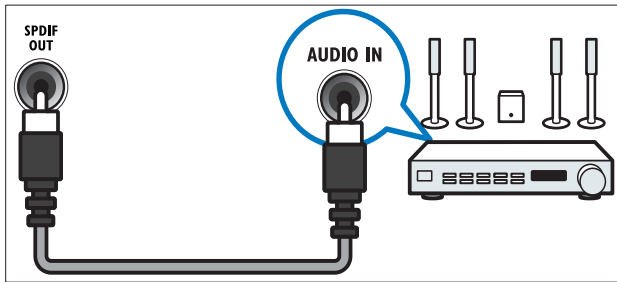
Analogue audio and video input from analogue or digital devices such as DVD players or game consoles.





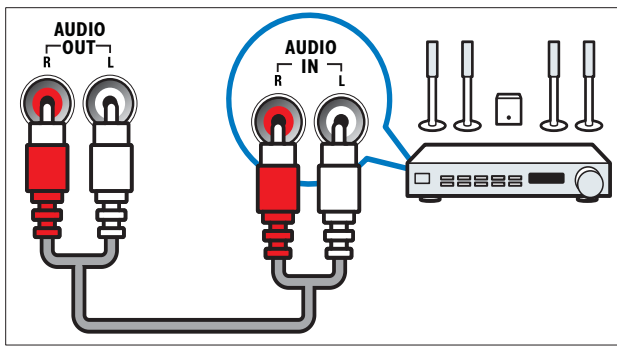
② **SPDIF OUT**

Digital audio output to home theatres and other digital audio systems.



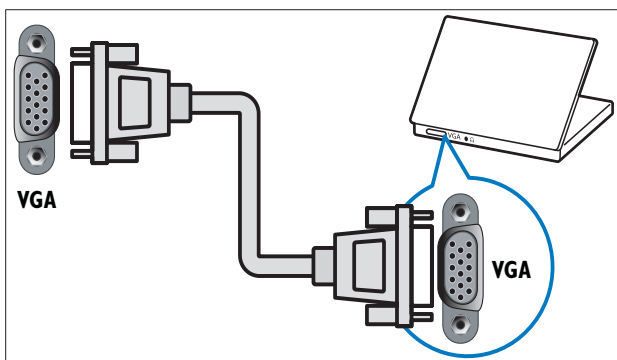
③ **AUDIO OUT L/R**

Analogue audio output to home theatres and other audio systems.



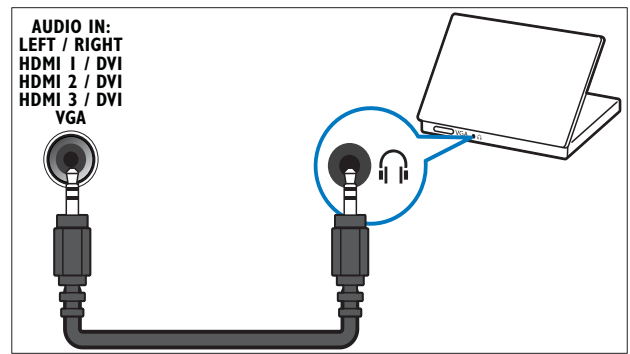
④ **VGA**

Video input from a computer.



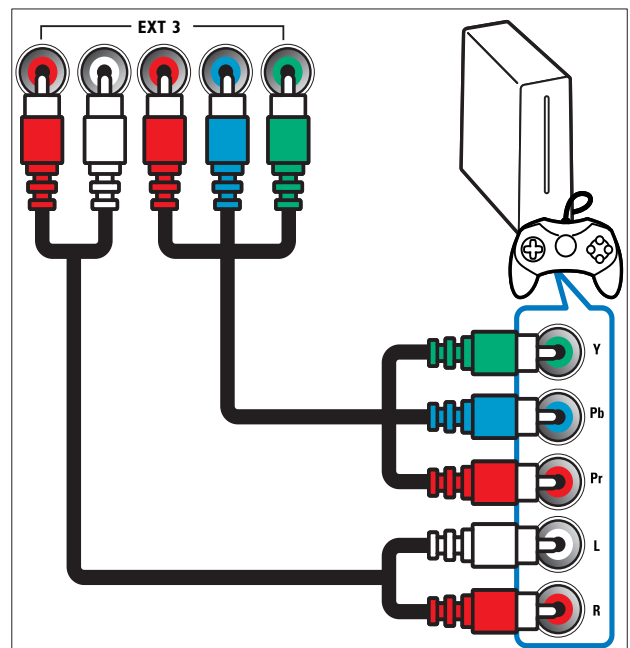
⑤ **AUDIO IN**

Audio input from devices that require a separate audio connection, such as a computer.



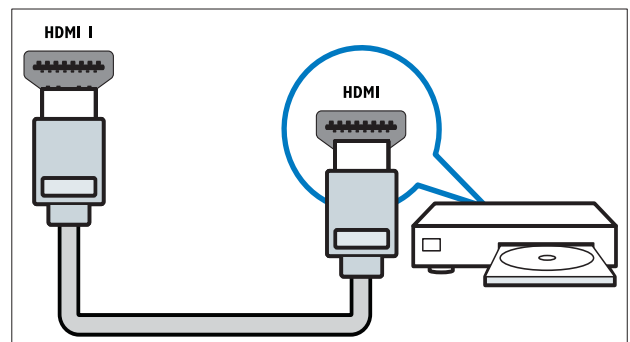
⑥ **EXT 3 (Y Pb Pr and AUDIO L/R)**

Analogue audio and video input from analogue or digital devices such as DVD players or game consoles.



⑦ **HDMI1/2/3**

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

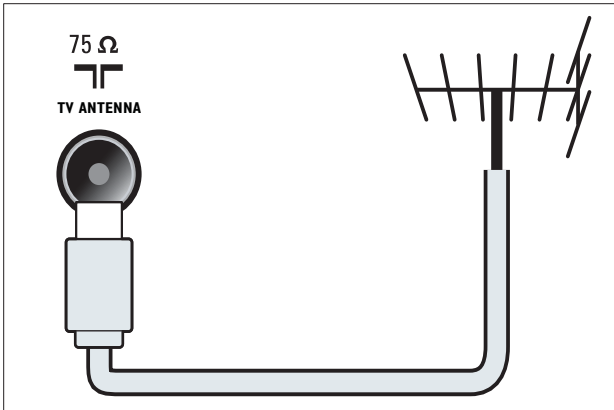


## Note

- If connecting thick HDMI cables, use **HDMI1**.

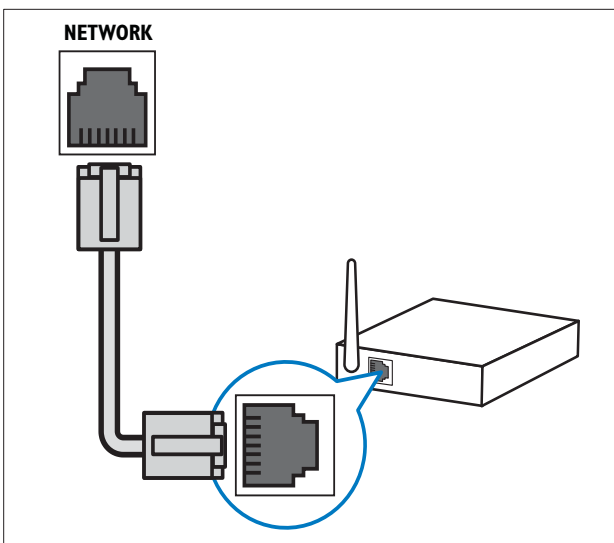
### 8 TV ANTENNA

Signal input from an antenna, cable or satellite.

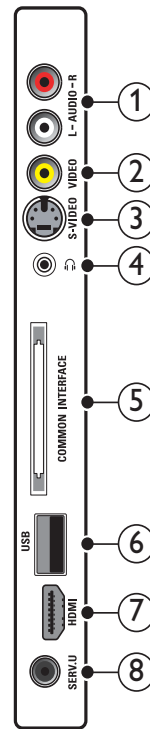


### 9 NETWORK\* This feature is available in selected models only.

Data input from a network.

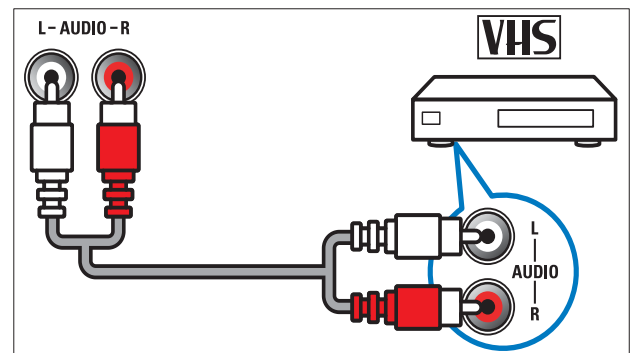


## Side connectors



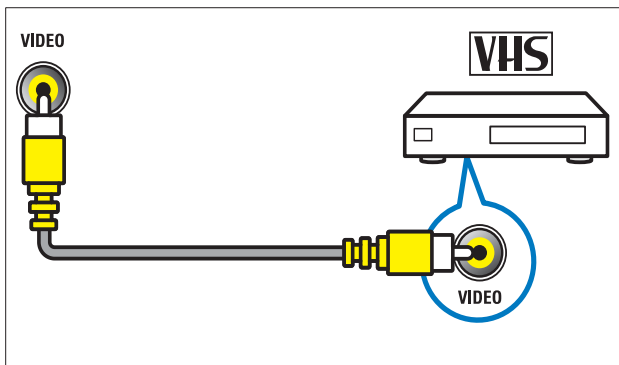
### 1 AUDIO IN L/R

Audio input from analogue devices connected to **VIDEO** or **S-VIDEO**.



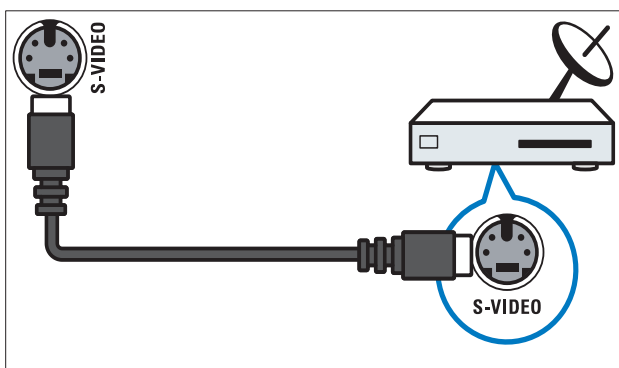
### 2 VIDEO

Composite video input from analogue devices such as VCRs.



### ③ S-VIDEO

Video input from analogue devices such as satellite receivers.



### ④

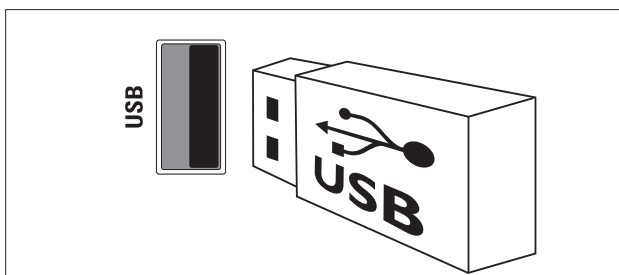
Stereo audio output to headphones or earphones.

### ⑤ COMMON INTERFACE

Slot for a Conditional Access Module (CAM).

### ⑥ USB

Data input from USB storage devices.



### ⑦ HDMI

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

### ⑧ SERV. U

For use by service personnel only.

## Connect a computer

Before you connect a computer to the TV:

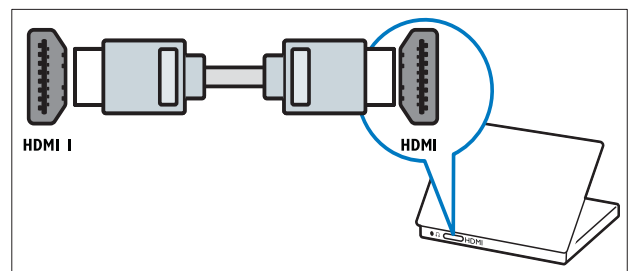
- Set the screen refresh rate on your computer to 60Hz.
- Select a supported screen resolution on your computer.
- Enable **[PC mode]** in the **[Picture]** menu (see 'Manually adjust picture settings' on page 16), and set the picture format to **[Unscaled]**.

Connect a computer with one of the following connectors:

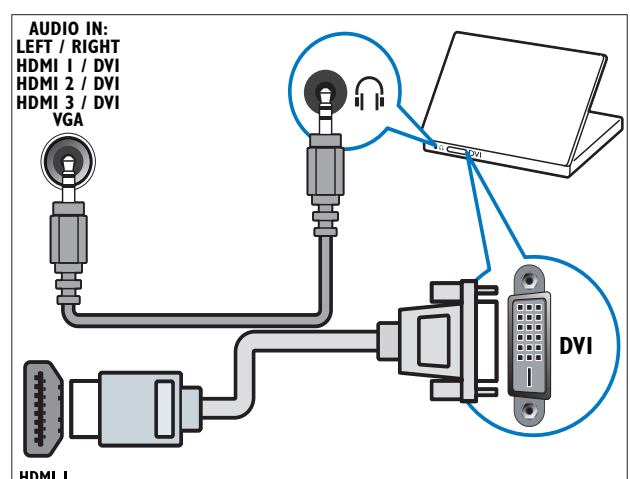
#### Note

- Connections via DVI or VGA require an additional audio cable.

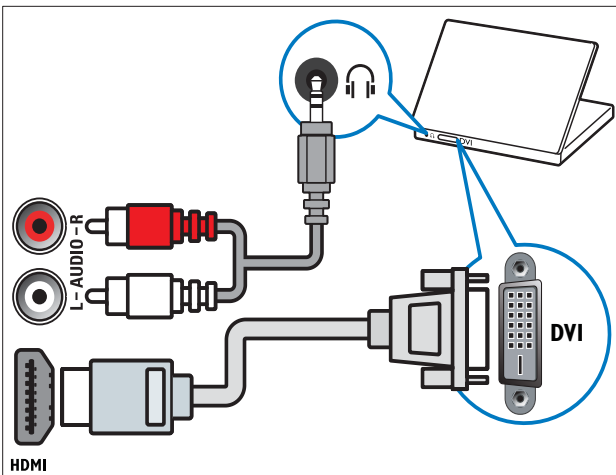
- HDMI cable



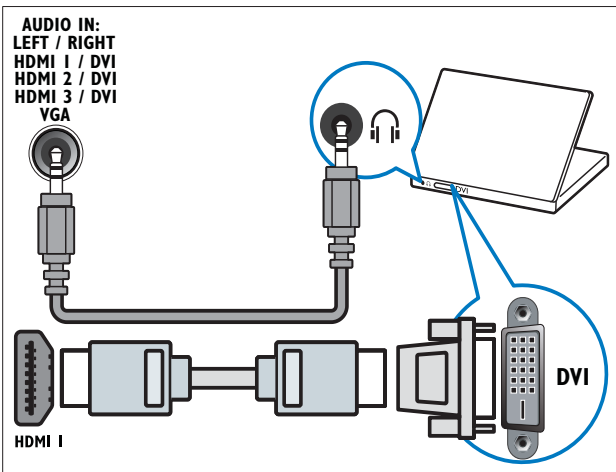
- DVI-HDMI cable (rear HDMI and AUDIO IN)



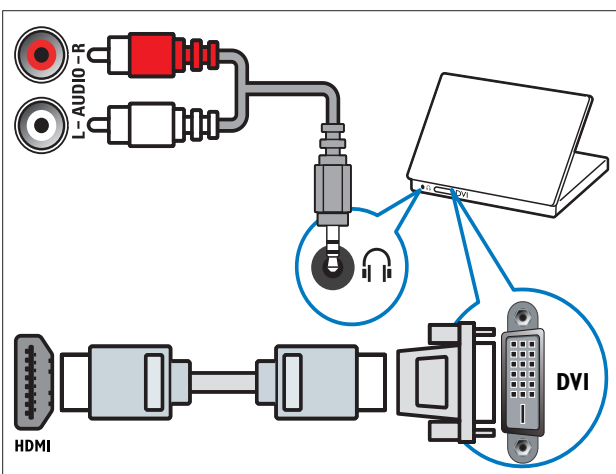
- DVI-HDMI cable (side HDMI and AUDIO IN L/R)



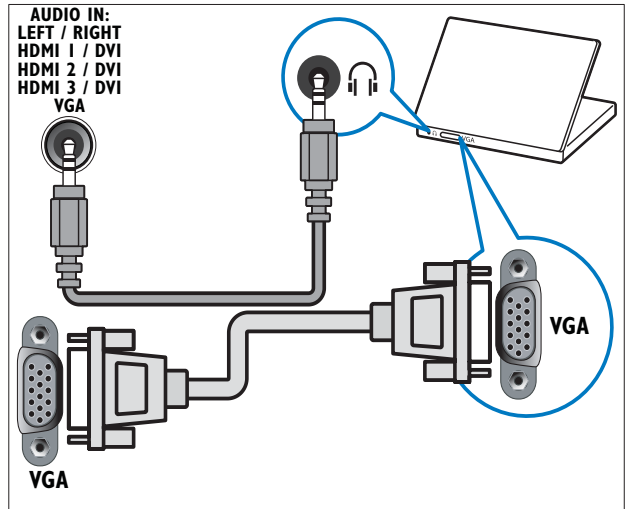
- HDMI cable and HDMI-DVI adaptor (rear HDMI and AUDIO IN)



- HDMI cable and HDMI-DVI adaptor (side HDMI and AUDIO IN L/R)



- VGA cable



## Connect to a computer network (selected models only)

Connect the TV to a computer network and enjoy:

- **Multimedia content streamed from your computer**  
With the TV connected to a computer network, you can view photos, play music and watch video files streamed from your computer (see 'Connect to a network and enter the content browser' on page 29).
- **Net TV**

With the TV connected to a computer network with Internet access, you can browse Net TV services.

### Caution

- Familiarize yourself with the network router, media server software and networking principles before attempting to connect the TV to a computer network. If necessary, read documentation accompanying network components. Philips is not responsible for lost, damaged or corrupt data.

## What you need

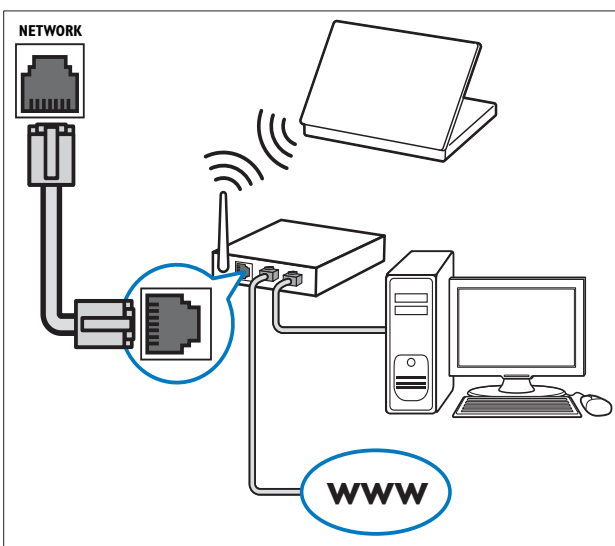
- A network router (with DHCP enabled)
- A computer with media server software installed. The computer must be connected to the network router via a wired or wireless network connection.
- A network cable (RJ45)
- Internet connection, for Net TV

### Note

- A complete list of supported media server software is available (see 'Multimedia' on page 51).

## Connect the TV to a computer network

- 1 Connect the network cable between the **NETWORK** connector at the back of the TV, and a network router.  
Be sure that the router is connected to your computer via a wired or wireless connection and that the router's DHCP setting is enabled. For Net TV service, be sure that the network router has complete access to the Internet (and is not restricted by firewalls or other security systems).



- 2 Switch on the router.
- 3 Switch on the computer.

- 4 Setup media server software to access media from your computer (see 'Setup media server software' on page 44), or configure the TV for access to Net TV (see 'Setup media server software' on page 48).

## Setup media server software

Media server software must be properly configured to enable media sharing. Follow the instructions that follow to setup your media server software and to share media folders. If you do not find instructions for your media server software, refer to documentation accompanying your software to enable media sharing.

### Note

- You do not need to complete this section to access Net TV.

## In Microsoft Windows Media Player 11

### Note

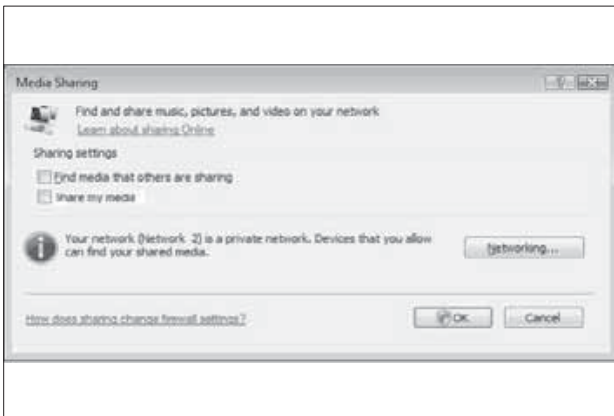
- The instructions are applicable to both Microsoft Windows XP and Vista.

## Enable media sharing

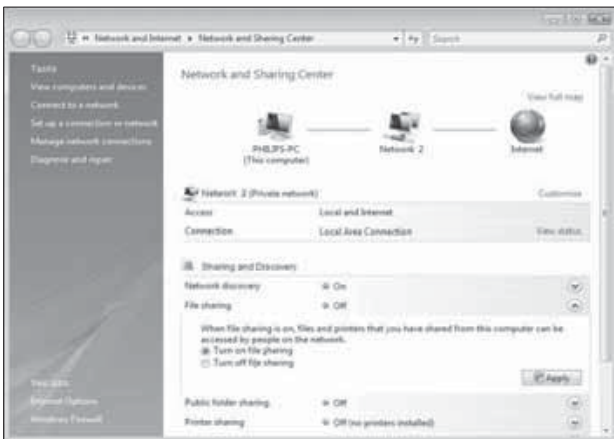
- 1 In Microsoft Windows, start Windows Media Player 11.  
↳ Windows Media Player appears.



- 2 Click **Library > Media Sharing**.  
 ↳ The Media Sharing window appears.

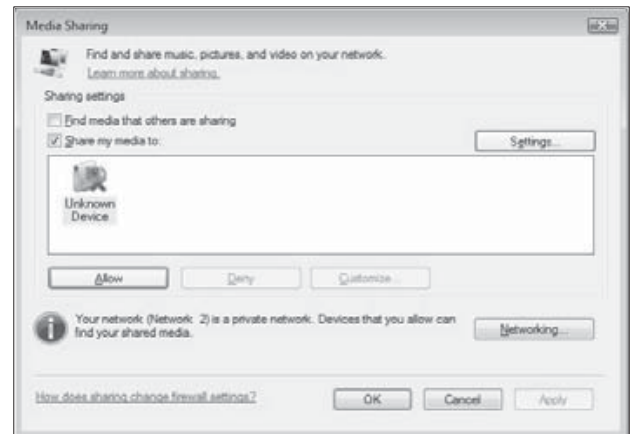


- 3 Click **Networking...**.  
 ↳ Network and Sharing Center appears.



- 4 Click the arrow next to **Network discovery**.  
 ↳ **Network discovery** options appear.
- 5 Click **Turn on network discovery**, then click **Apply**.
- 6 Click the arrow next to **File sharing**.  
 ↳ File sharing options appear.
- 7 Click **Turn on file sharing**, then click **Apply**.
- 8 Go back to the **Media Sharing** window.

- 9 In the **Sharing settings** box, click **Share my media to:**.

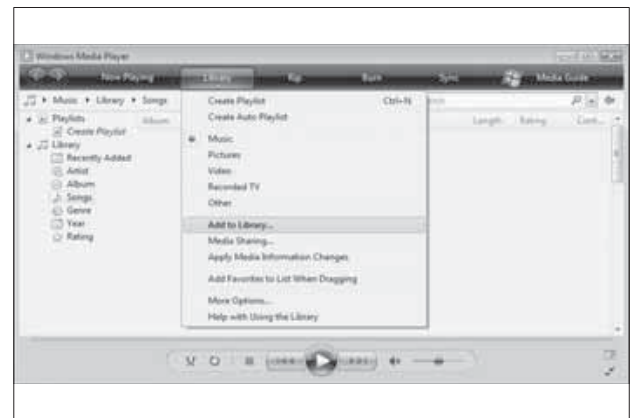


- 10 Click the **Unknown Device** icon (the TV), then click **Allow**.  
 ↳ A green tick appears on the **Unknown Device** icon, indicating that it is ready for media sharing.

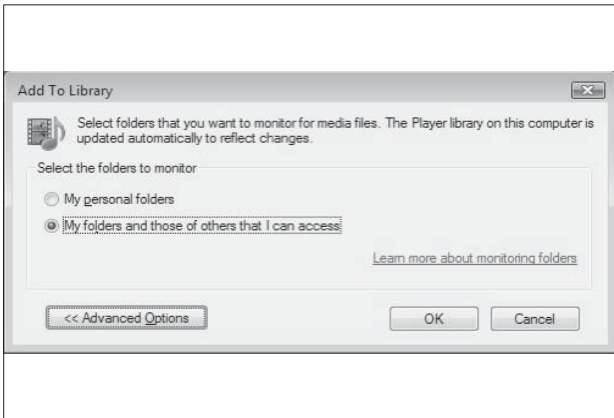
- 11 Click **OK**.

#### Add folders for media sharing

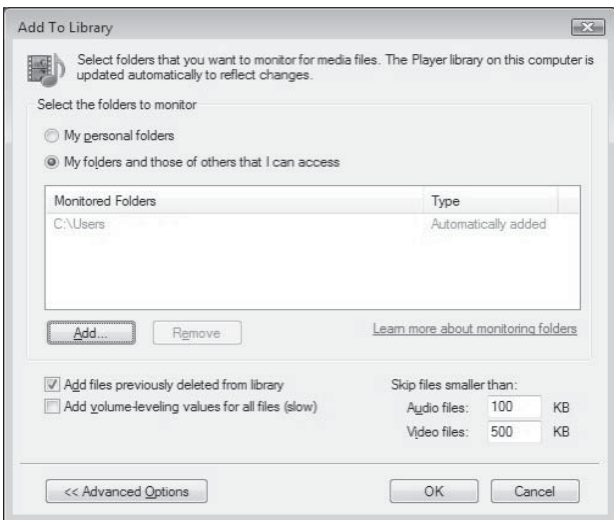
- 1 In Windows Media Player, click **Library -> Add to Library...**.  
 ↳ The **Add To Library** window appears.



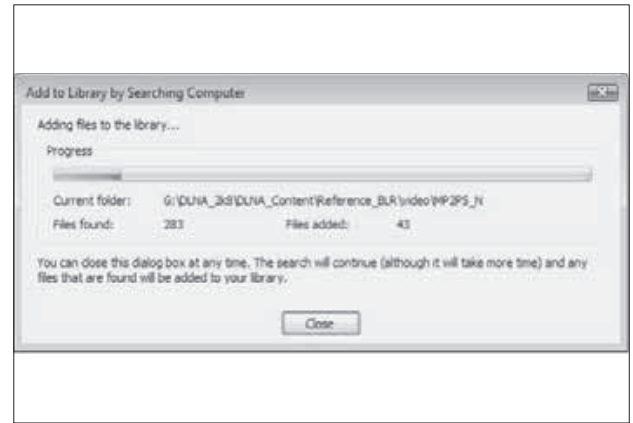
- 2 Click **My folders and those of others that I can access**.



- 3 Click **Advanced Options**.  
↳ Advanced options appear in the **Add To Library** window.



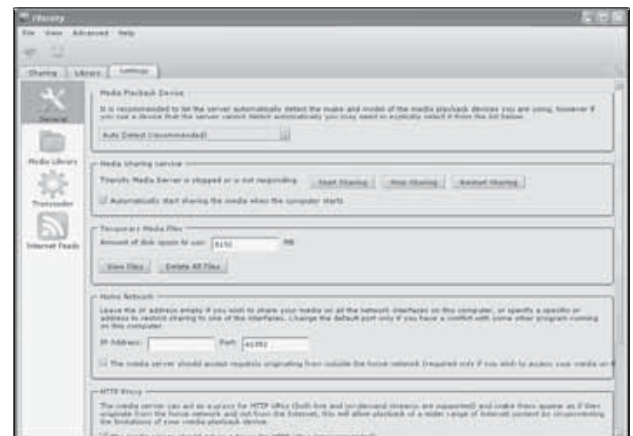
- 4 Click **Add**.  
↳ The **Add Folder** window appears.
- 5 Select a folder to share and click **OK**.
- 6 When all folders are added, click **OK** in the **Add To Library** window.  
↳ Folders are added to the library, and are ready to be accessed from the TV.



## In TVersity v0.9.10.3 (Microsoft Windows)

### Enable media sharing

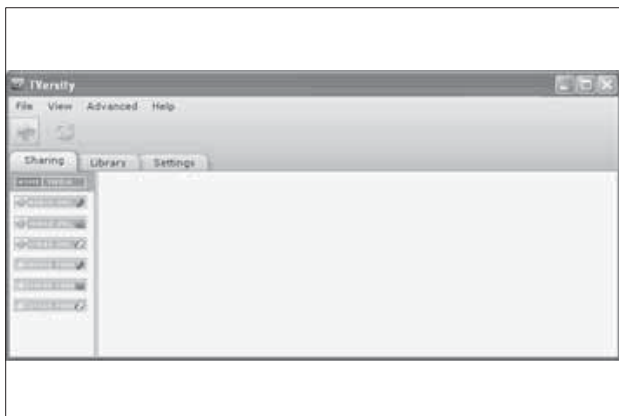
- 1 In Microsoft Windows, start TVersity.  
↳ TVersity appears.
- 2 Click the **Settings** tab.  
↳ The TVersity settings appear.



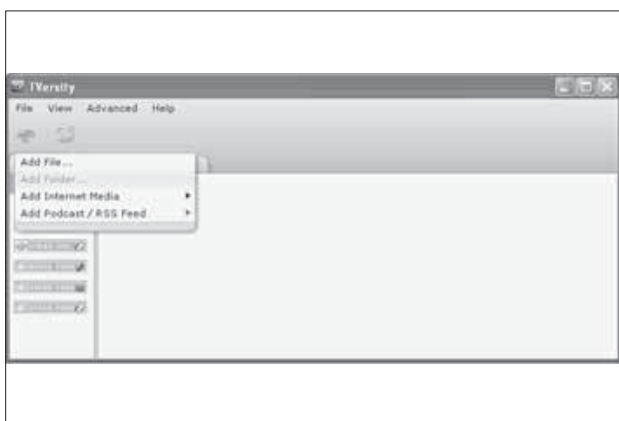
- 3 In the **Media Sharing Service** box, click **Start Sharing**.  
↳ A window appears, informing you that Media Sharing Service started.
- 4 Click **OK**.

## Add folders for media sharing

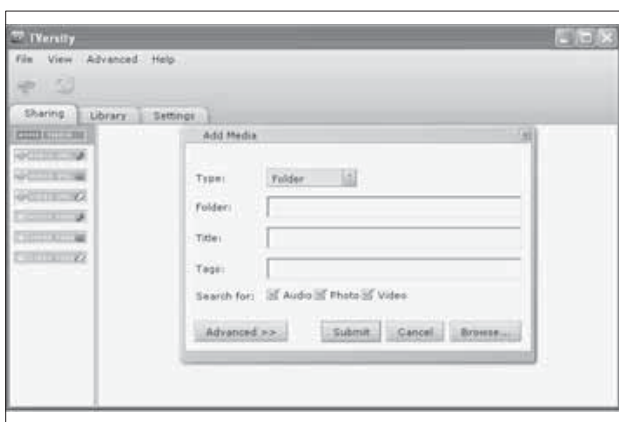
- 1 In TVersity, click the **Sharing** tab.  
↳ The **Sharing** options appear.



- 2 Click the green plus icon  
↳ Options to add files and folders appear.



- 3 Click **Add Folder**.  
↳ An **Add Media** window appears.



- 4 Click **Browse** and select folders to share.

- 5 When all folders are selected, click **Submit**.  
↳ Media files are ready to be accessed from the TV.

## In Twonky Media v4.4.2 (Macintosh OS X)

### Enable media sharing

- 1 In Mac OS X, start Twonky Media.  
↳ Twonky Media appears.
- 2 In the **Basic Setup** box, click **Clients/Security**.  
↳ Clients/Security settings appear.
- 3 Click **Enable sharing for new clients automatically**, then click **Save Changes**.  
↳ Media sharing is enabled.

### Add folders for media sharing

- 1 In the **Basic Setup** box, click **Sharing**.  
↳ Sharing settings appear.



- 2 Click **Browse** to add a folder location. Click **Add new content directory** to add more folders.
- 3 When all folders are added, click **Save changes** then click **Rescan content directories**.  
↳ Media files are ready to be accessed from the TV.



---

## Setup media server software

- 1 When the TV is connected to a computer network with Internet access, press **⬆** (**Home**).  
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.  
↳ The **[Setup]** menu appears.
- 3 Press the **Navigation buttons** to select **[Network] > [Network]**.  
↳ Follow the on-screen instructions that appear to configure the TV for access to Net TV.

---

## Use a Conditional Access Module

A Conditional Access Module (CAM) is provided by digital TV service operators to decode digital TV channels.

### Note

- Refer to the documentation from your service operator on how to insert a smart card into the Conditional Access Module.

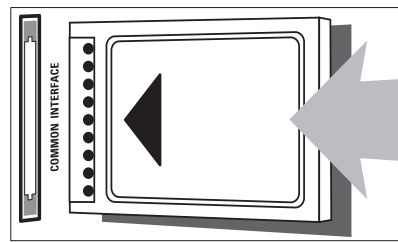
---

## Insert and activate a CAM

### Caution

- Be sure to follow the instructions described below. Wrong insertion of a CAM may damage both the CAM and your TV.

- 1 Switch off the TV.
- 2 Following the directions printed on the CAM, gently insert the CAM into the **COMMON INTERFACE** at the side of the TV.



- 3 Push the CAM in as far as it will go.
- 4 Turn on the TV and wait for the CAM to be activated. This may take several minutes. Do not remove the CAM from the slot when in use — removing the CAM will deactivate digital services.

---

## Access CAM services

- 1 After inserting and activating the CAM, press **⏻** **OPTIONS**.  
↳ The options menu appears.
- 2 Press the **Navigation buttons** to select **[Common interface]**.
- 3 Press **OK**.  
↳ A list of CAM applications appears.
- 4 Press the **Navigation buttons** to select a CAM application.
- 5 Press **OK** to confirm your choice.  
↳ The selected CAM application is enabled.

---

## Assign a channel decoder

Before using a SCART digital channel decoder, select the channel to decode and assign the decoder to **EXT 1** or **EXT 2**.

- 1 While watching TV, press **⬆** (**Home**).  
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.
- 3 Press **OK**.  
↳ The **[Setup]** menu appears.
- 4 Press the **Navigation buttons** to select **[Installation] > [Decoder] > [Channel]**.

- 5 Press the **Navigation buttons** to select **[Status]**, then the location of the decoder (eg. **EXT 1** or **EXT 2**).
- 6 Press **OK** to confirm your choice.
  - ↳ The decoder is assigned.

## Use Philips EasyLink

Your TV supports Philips EasyLink, which uses the HDMI CEC (Consumer Electronics Control) protocol. EasyLink-compliant devices that are connected through HDMI connectors can be controlled by a single remote control.

### Note

- Philips does not guarantee 100% interoperability with all HDMI CEC devices.

### Note

- The EasyLink-compliant device must be switched on and selected as the source.

## EasyLink features

### One-touch play

When you connect your TV to devices that support one-touch play, you can control your TV and the devices with one remote control.

### One-touch standby

When you connect your TV to devices that support standby, you can use your TV remote control to put your TV and all connected HDMI devices in standby mode.

### System audio control

When you connect your TV to HDMI CEC compliant devices, your TV can switch automatically to play audio from the connected device.

To use one-touch audio, you must map the audio input from the connected device to your TV.

You can use the remote control from the connected device to adjust the volume.

## Remote control (RC) key forwarding

RC key forwarding allows you to control EasyLink-compliant devices using your TV remote control.

## EasyLink buttons

You can control EasyLink-compliant devices with the following buttons on the remote control of your TV.

Button	EasyLink function
▶   (Play/Pause)	Starts, pauses or resumes playback on your EasyLink device.
■ (Stop)	Stops playback on your EasyLink device.
● (Record)	Starts or stops video recording on your EasyLink device.
◀◀ (Previous)	Searches backward on your EasyLink device.
▶▶ (Next)	Searches forward on your EasyLink device.
0-9 (Numeric buttons)	When EasyLink is enabled, selects a title, chapter or track.
▲▼◀▶ (Navigation buttons)	Navigates through the menus of your EasyLink devices.
OK	Activates a selection or accesses the menu of your EasyLink device.
☰ (OPTIONS)	Displays the menus of your EasyLink device. Note that when <b>🏠 (Home)</b> is pressed, the TV menu is displayed.
TV	Switches back to the antenna source from EasyLink mode.
⏻ (Standby-On)	When EasyLink is enabled, switches the TV and all EasyLink devices to standby. Press and hold <b>⏻ (Standby-On)</b> for at least 3 seconds.

---

## Enable or disable EasyLink

### Note

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

- 1 When watching TV, press **⬆** (Home).  
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.  
↳ The **[Setup]** menu appears.
- 3 Press the **Navigation buttons** to select **[Installation] > [Preferences] > [EasyLink]**.  
↳ The EasyLink menu appears.
- 4 Select **[On]** or **[Off]**.
- 5 Press **OK** to confirm your choice.  
↳ EasyLink is enabled or disabled.

---

## Enable or disable remote control key forwarding

### Note

- Enable EasyLink before enabling remote control key forwarding.

- 1 When watching TV, press **⬆** (Home).  
↳ The home menu appears.
- 2 Press the **Navigation buttons** to select **[Setup]**.  
↳ The **[Setup]** menu appears.
- 3 Press the **Navigation buttons** to select **[Installation] > [Preferences] > [EasyLink Remote Control]**.
- 4 Select **[On]**, then press **OK**.  
↳ RC key forwarding is enabled or disabled on the selected HDMI connector.

### Note

- If you cannot exit from a device's menu, press **⌂** **OPTIONS** then **OK**.

---

## Set TV speakers to EasyLink mode

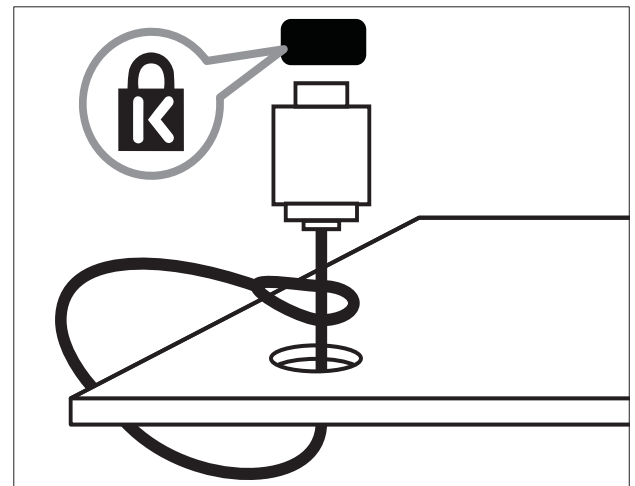
When you play content from an EasyLink compliant home theater, the TV speakers are automatically muted.

- 1 When watching content from an EasyLink device, press **⌂** **OPTIONS**.  
↳ The options menu appears.
- 2 Press the **Navigation buttons** to select **[TV speakers]**.  
↳ The **[TV speakers]** menu appears.
- 3 Press the **Navigation buttons** to select **[Automatic (EasyLink)]**.
- 4 Press **OK** to confirm your choice.  
↳ The TV speakers are set to EasyLink mode.
- 5 Press **⌂** **OPTIONS** to exit.

---

## Use a Kensington lock

There is a Kensington security slot at the back of the TV. Prevent theft by looping a Kensington lock between the slot and a permanent object, such as a heavy table.



# 8 Product information

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

## Supported display resolutions

### Computer formats

- Resolution - refresh rate:
  - 640 × 480 - 60Hz
  - 800 × 600 - 60Hz
  - 1024 × 768 - 60Hz
  - 1280 × 1024 - 60 Hz (supported on full HD TVs only)
  - 1360 × 768 - 60Hz
  - 1600 × 1200 - 60Hz (supported on full HD TVs only)
  - 1920 × 1080 - 60Hz

### Video formats

- Resolution - refresh rate:
  - 480i - 60Hz
  - 480p - 60Hz
  - 576i - 50Hz
  - 576p - 50Hz
  - 720p - 50Hz, 60Hz
  - 1080i - 50Hz, 60Hz
  - 1080p - 24Hz, 25Hz, 30Hz, 50Hz, 60Hz

## Multimedia

- Supported storage device: USB (FAT or DOS-formatted; Mass Storage Class compliant only)
- Images: JPEG
- Supported multimedia file formats:

Format	Video	Audio	File extension
AVI	MPEG-4 SP, MPEG-4 ASP	MPEG Layer 2/3, AC3	.avi
mpeg	MPEG-1, MPEG-2	MPEG-1 Layer 2, LPCM, AC3	.mpg, .mpeg, .vob
mpeg4	MPEG-4 AVC (H.264, L2-CIF), MPEG-4 AVC (H.264, L4-HD)	AAC-LC, AAC-HE	.mp4
WMV (Only available on PFL86XXH)	WMV9/VC1		.wma .wmv



### Note

- Multimedia file names must not exceed 128 characters.
- Supported media server software (\*This feature is available in selected models only.):
  - Windows Media Player 11 (Microsoft Windows XP or Vista)
  - PacketVideo Twonky Media 4.4.9 (Microsoft Windows or Macintosh OS X)
  - Sony Vaio media server (Microsoft Windows XP or Vista)
  - TVersity v.0.9.10.3 (Microsoft Windows XP)
  - Nero 8 - Nero MediaHome (Microsoft Windows XP)

- DiXiM (Microsoft Windows XP)
- Macrovision Network Media Server (Microsoft Windows XP)
- Fuppes (Linux)
- UShare (Linux)
- Philips Media Manager (Microsoft Windows XP)
- Supported NAS:
  - Philips NAS SPD8020

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## Tuner/Reception/ Transmission

- Antenna input: 75ohm coaxial (IEC75)
- TV system: DVB COFDM 2K/8K
- Video playback: NTSC, SECAM, PAL
- DVB-T (Digital Video Broadcasting-Terrestrial) and DVB-C (Digital Video Broadcasting-Cable). See listed countries on the back of the TV

---

## Remote control

- Type: RC4495
- Batteries: 3 x AAA (LR03 type)

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## Power

- Mains power: AC 220-240; 50Hz
- Standby power: < 0.15W
- Ambient temperature: 5 to 35 degrees Celsius

---

## Supported TV mounts

To mount the TV, purchase a Philips TV mount or a VESA-compatible TV mount. To prevent damage to cables and connectors, be sure to leave a clearance of at least 2.2 inches or 5.5cm from the back of the TV.



### Warning

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

TV screen size	Recommended VESA mount
19 inches/ 48 cm	VESA MIS-D 75, 4
22 inches/ 56 cm	VESA MIS-D 100, 4
26 inches/ 69 cm	VESA MIS-E 200, 100, 4
32 inches/ 81 cm	VESA MIS-F 200, 200, 6
37 inches/ 94 cm	VESA MIS-F 200, 200, 6
42 inches/ 107 cm	VESA MIS-F 400, 400, 6
47 inches/ 119 cm	VESA MIS-F 400, 400, 8
52 inches/ 132 cm	VESA MIS-F 400, 400, 8

## EPG information

8 days EPG is only available in some countries

Country	8 days EPG
UK	Yes
France	No
Finland	Yes
Sweden	Yes
Denmark	Yes
Norway	Yes
Spain	Yes
Germany	Yes
Italy	Yes
Greece	No
Netherlands	Yes
Czech Republic	Yes
Belgium	No
Austria	Yes
Switzerland	Yes
Estonia	Yes
Lithuania	Yes
Croatia	No
Hungary	No
Ireland	No
Luxemburg	No
Poland	No
Portugal	No
Russia	No
Slovakia	No
Slovenia	No
Romania	No
Serbia	No
Latvia	No
Ukraine	No
Bulgaria	No
Kazakhstan	No

# 9 Troubleshooting

This section describes commonly encountered issues and accompanying solutions.

---





## General TV issues

### The TV does not switch on:

- Disconnect the power cable from the power outlet. Wait for one minute then reconnect it.
- Check that the power cable is securely connected.

### The TV does not respond to remote control or side controls when switched on

When the TV is switched on, the front LED indicator flashes for about 20 to 25 seconds. This is normal behaviour. During this time, the TV will not respond to the remote control or side controls. When a picture appears on-screen, the TV responds only to the following remote control buttons for the first few seconds:

 +/- (VOLUME +/-),  +/- (Program +/-),  (MUTE) and  (Standby-On). All buttons can be used when the front LED indicator stops flashing.

### The remote control is not working properly:

- Check that the remote control batteries are correctly inserted according to the +/- orientation.
- Replace the remote control batteries if they are flat or weak.
- Clean the remote control and TV sensor lens.

### The standby light on the TV blinks red:

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

You forgot the code to unlock the child lock feature

- Enter '8888'.

The TV menu is in the wrong language.

- Change the TV menu to your preferred language (see 'Change language settings' on page 13).

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

- No action is required. The creaking sound is normal expansion and contraction of the TV as it cools down and warms up. This does not impact performance.

When the TV is in standby mode, a startup splash screen is displayed, then returns to standby mode.

- This is normal behavior. The startup screen is displayed when the TV is disconnected from the mains and reconnected.

---

## TV channel issues

Previously installed channels do not appear in the channel list:

- Check that the correct channel list is selected.

No digital channels were found during the installation:

- Check that the TV supports DVB-T, DVB-T Lite or DVB-C in your country. See the listed countries on the back of the TV.

## Picture issues

### The TV is on, but there is no picture:

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

### There is sound but no picture:

- Check that the picture settings are correctly set.

### There is poor TV reception from an antenna connection:

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

### There is poor picture quality from connected devices:

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

### The TV did not save your picture settings:

- Check that the TV location is set to the home setting. This mode offers you the flexibility to change and save settings.

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

- Try using a different picture format.

### The picture position is incorrect:

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

### The picture from broadcasts is scrambled:

- You may need to use a Conditional Access Module to access content. Check with your operator.

### An “e-sticker” banner displaying information appears on the TV display:

The TV is in **[Shop]** mode. Remove the e-sticker by setting the TV to **[Home]** mode. In the **[Home]** menu, select **[Setup]** > **[Installation]** > **[Preferences]** > **[Location]** menu. It is necessary to switch the TV to standby to ensure that the TV exits **[Shop]** mode completely.

## Sound issues

### There is a picture but sound quality is poor:



#### Note

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

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

### There is a picture but the sound quality is poor:

- Check that the sound settings are correctly set.

### There is a picture but sound comes from one speaker only:

- Verify that sound balance is set to the centre.



---

## HDMI connection issues

### There are problems with HDMI devices:

- Note that HDCP (High-bandwidth Digital Content Protection) support can delay the time taken for a TV to display content from a HDMI device.
- If the TV does not recognize the HDMI device and no picture is displayed, try switching the source from one device to another and back again.
- If there are intermittent sound disruptions, check that output settings from the HDMI device are correct.
- If you use an HDMI-to-DVI adapter or HDMI to DVI cable, check that an additional audio cable is connected to **AUDIO L/R** or **AUDIO IN** (mini-jack only).

### You cannot use EasyLink features:

- Check that your HDMI devices are HDMI-CEC compatible. EasyLink features only work with devices that are HDMI-CEC compatible.

### If a HDMI CDC/EasyLink-compliant audio device is connected to the TV and the TV does not display any mute or volume icon when the volume is muted, increased or decreased.

- This behavior is normal when a HDMI CEC/EasyLink-compliant device is connected.

---

## USB connection issues

### USB device content is not displayed:

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

### Audio and picture files do not play or display smoothly

- The transfer performance of the USB storage device may limit the data transfer rate to the TV, causing poor playback.

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## Computer connection issues

### The computer display on the TV is not stable:

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

---

## Contact us

If you cannot resolve your problem, refer to the FAQs for this TV at [www.philips.com/support](http://www.philips.com/support).

If the problem remains unresolved, contact Philips Consumer Care in your country as listed in this user manual.



### Warning

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



### Note

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

# 10 Universal remote control codes

Enter a remote control code from this list to setup universal remote control (see 'Manually setup universal remote control' on page 34).

## DVD codes : DVD player, DVD Recorder, DVD-R HDD, Blu-ray Disc player.

Philips - 0000, 0001, 0002, 0003, 0004, 0005, 0006, 0007, 0008, 0009, 0010, 0012, 0064, 0065, 0066, 0067, 0094, 0098, 0103, 0122, 0131, 0132, 0140, 0143, 0144, 0170, 0174, 0175, 0177, 0180, 0190, 0206, 0240, 0255, 0264, 0287, 0293, 0295, 0296, 0302, 0309, 0316, 0317, 0318, 0325, 0327, 0333, 0334

Philips Magnavox - 0094

4Kus - 0287

Acoustic Solutions - 0011

AEG - 0135

Airis - 0290

Aiwa - 0113, 0163, 0312, 0343

Akai - 0097

Akura - 0281

Alba - 0112, 0121, 0124, 0127, 0138

Alize - 0285

Amitech - 0135

AMOi - 0225

AMW - 0114, 0354

Andersson - 0355

Apex - 0107

Asono - 0290

ATACOM - 0290

Avious - 0288

Awa - 0114

Bang and Olufsen - 0291

Basic Line - 0356

CAT - 0272, 0273

Celestron - 0363

Centrex - 0158

Centrum - 0273, 0364

Baze - 0288

BBK - 0290

Bellagio - 0114

Best Buy - 0277

Boghe - 0289

BOSE - 0352, 0353, 0357, 0358, 0359, 0360, 0361, 0362

Bosston - 0271

Brainwave - 0135

Brandt - 0047, 0145, 0264

Britannia - 0268

Bush - 0121, 0127, 0134, 0169, 0176, 0265, 0267, 0275, 0279, 0288

Cambridge Audio - 0270

CGV - 0135, 0270

Cinetec - 0114

CineVision - 0278

Classic - 0104

Clatronic - 0275, 0288, 0365

Coby - 0284

Conia - 0265

Continental Edison - 0114

Crown - 0135, 0145

Crypto - 0280

C-Tech - 0142

CVG - 0135

CyberHome - 0061, 0062, 0063

Daenyx - 0114

Daewoo - 0092, 0114, 0135, 0186, 0193, 0195, 0348

Dalton - 0283

Dansai - 0135, 0269

Daytek - 0114, 0133, 0366

Dayton - 0114

DEC - 0275

Decca - 0135

Denon - 0118, 0205, 0209, 0214

Denon - 0118, 0205, 0209, 0214

Denver - 0124, 0203, 0275, 0281, 0284

Denzel - 0266

Desay - 0274

Diamond - 0142, 0270

Digitor - 0282 Digix Media - 0367

DK Digital - 0134, 0300

Dmtech - 0091, 0368

Dual - 0266, 0369

DVX - 0142

Easy Home - 0277

Eclipse - 0270

E-Dem - 0290  
 Electrohome - 0135  
 Elin - 0135  
 Elta - 0093, 0135, 0152, 0285  
 Eltax - 0297, 0366  
 Emerson - 0101  
 Enzer - 0266  
 Euroline - 0370  
 Finlux - 0135, 0270, 0288, 0371  
 Fintec - 0135, 0372  
 Fisher - 0102  
 Futronic - 0373  
 Gericom - 0158  
 Giec - 0289  
 Global Solutions - 0142  
 Global Sphere - 0142  
 Go Video - 0095  
 GoldStar - 0033  
 Goodmans - 0085, 0112, 0121, 0127, 0158,  
 0171, 0200, 0216, 0239, 0246, 0275, 0279, 0289  
 Graetz - 0266  
 Grundig - 0098, 0158, 0162, 0173  
 Grunkel - 0135, 0286  
 GVG - 0135  
 H and B - 0275, 0276  
 Haaz - 0142, 0270  
 Harman/Kardon - 0350  
 HiMAX - 0277  
 Hitachi - 0022, 0095, 0106, 0121, 0172, 0188,  
 0202, 0218, 0266, 0277, 0311  
 Hoeher - 0290  
 Home Tech Industries - 0290  
 Humax - 0221  
 Hyundai - 0224, 0286, 0374  
 Infotech - 0375  
 Innovation - 0099, 0100, 0106  
 Jamo - 0376  
 JBL - 0377  
 Jeutech - 0271  
 JVC - 0054, 0055, 0056, 0057, 0058, 0059, 0060,  
 0079, 0080, 0081, 0082, 0141, 0153, 0157, 0161,  
 0164, 0165, 0166, 0167, 0247, 0248, 0249, 0250,  
 0251, 0252, 0253, 0254, 0264, 0301, 0337  
 Kansai - 0284  
 KEF - 0378  
 Kennex - 0135  
 Kenwood - 0159, 0220, 0308, 0379  
 KeyPlug - 0135  
 Kiiro - 0135  
 Kingavon - 0275  
 Kiss - 0266, 0276  
 Koda - 0275  
 KXD - 0277  
 Lawson - 0142  
 Lecson - 0269  
 Lenco - 0135, 0275, 0288  
 Lenoxx - 0380  
 LG - 0031, 0032, 0033, 0071, 0101, 0117, 0137,  
 0204, 0229, 0234, 0258, 0313, 0329, 0330, 0331,  
 0336  
 Life - 0099, 0100  
 Lifetec - 0099, 0100, 0106  
 Limit - 0142  
 Linn - 0381  
 Liteon - 0287  
 Loewe - 0098, 0175, 0213, 0382  
 LogicLab - 0142  
 Lumatron - 0383  
 Luxor - 0158  
 Magnavox - 0264, 0275, 0293  
 Magnex - 0288  
 Magnum - 0106  
 Majestic - 0284  
 Marantz - 0009, 0103, 0211, 0212  
 Marquant - 0135  
 Matsui - 0145, 0235  
 MBO - 0110  
 Mecotek - 0135  
 Mediencom - 0268  
 Medion - 0099, 0100, 0106, 0279, 0384  
 Metz - 0096  
 MiCO - 0270, 0289, 0385  
 Micromaxx - 0099, 0100, 0106  
 Micromedia - 0264  
 Micromega - 0009  
 Microstar - 0099, 0100, 0106  
 Minoka - 0135  
 Minowa - 0288  
 Mirror - 0279  
 Mivoc - 0386  
 Mizuda - 0275, 0277  
 Monyka - 0266  
 Mustek - 0104, 0112, 0304  
 Mx Onda - 0270

Mystral - 0286  
 NAD - 0109, 0387  
 Naiko - 0135, 0158  
 Nakamichi - 0111, 0388  
 Neufunk - 0266  
 Nevir - 0135  
 Next Base - 0226  
 NU-TEC - 0265  
 Omni - 0268  
 Onkyo - 0215, 0264, 0293  
 Oopla - 0287  
 Optim - 0269  
 Optimus - 0294  
 Orava - 0275  
 Orbit - 0114  
 Orion - 0176  
 Oritron - 0100  
 P and B - 0275  
 Pacific - 0142  
 Palladium - 0389  
 Palsonic - 0267  
 Panasonic - 0026, 0027, 0028, 0029, 0030, 0118,  
 0120, 0125, 0126, 0128, 0129, 0130, 0189, 0201,  
 0241, 0243, 0244, 0245, 0259, 0260, 0261, 0298,  
 0303, 0319, 0320, 0321, 0322, 0323, 0326, 0335,  
 0342, 0344  
 peeKTON - 0290, 0390  
 Pensonic - 0227  
 Phonotrend - 0288  
 Pioneer - 0034, 0035, 0036, 0037, 0038, 0039,  
 0040, 0072, 0073, 0074, 0075, 0096, 0115, 0119,  
 0154, 0155, 0156, 0191, 0192, 0196, 0197, 0198,  
 0236, 0294, 0314, 0332  
 Pointer - 0135  
 Polaroid - 0222  
 Portland - 0135  
 Powerpoint - 0114  
 Proline - 0158  
 Promax - 0223  
 Prosonic - 0135, 0284  
 Provision - 0275  
 Raite - 0266  
 REC - 0267, 0268  
 RedStar - 0135, 0281, 0284, 0391  
 Reoc - 0142  
 Revoy - 0276  
 Rimax - 0285  
 Roadstar - 0121, 0267, 0275  
 Ronin - 0114  
 Rowa - 0158, 0265  
 Rowsonic - 0273  
 Saba - 0047, 0145  
 Sabaki - 0142  
 Saivod - 0135  
 Sampo - 0105  
 Samsung - 0022, 0023, 0024, 0025, 0076, 0077,  
 0078, 0095, 0123, 0136, 0151, 0184, 0194, 0207,  
 0217, 0307, 0340, 0341, 0349  
 Sansui - 0135, 0142, 0270, 0392  
 Sanyo - 0147, 0150, 0181, 0185, 0306  
 ScanMagic - 0112  
 Scientific Labs - 0142  
 Scott - 0124, 0283  
 Seeltech - 0290  
 SEG - 0090, 0114, 0121, 0142, 0179, 0266  
 Sharp - 0099, 0109, 0149, 0168, 0178, 0199,  
 0210, 0230, 0231, 0256, 0257, 0262  
 Sherwood - 0108  
 Sigmatek - 0277, 0290  
 Silva - 0281  
 Singer - 0142, 0270  
 Skymaster - 0104, 0142  
 Skyworth - 0281  
 Slim Art - 0135  
 SM Electronic - 0142  
 Sontech - 0286  
 Sony - 0013, 0014, 0015, 0016, 0017, 0018,  
 0019, 0020, 0021, 0068, 0069, 0070, 0113, 0116,  
 0139, 0146, 0148, 0183, 0232, 0242, 0299, 0305,  
 0310, 0324, 0328, 0346  
 Soundmaster - 0142  
 Soundmax - 0142  
 Spectra - 0114  
 Standard - 0142  
 Star Cluster - 0142  
 Starmedia - 0275, 0290  
 Sunkai - 0135  
 Supervision - 0142  
 Synn - 0142  
 T.D.E. Systems - 0286  
 T+A - 0393  
 Tatung - 0135  
 TCM - 0023, 0099, 0100, 0106, 0292, 0397  
 Teac - 0096, 0142, 0208, 0265, 0394

Tec - 0281  
Technics - 0118  
Technika - 0135, 0288  
Telefunken - 0273  
Tensai - 0135  
Tevion - 0099, 0100, 0106, 0142, 0283  
Thomson - 0046, 0047, 0048, 0049, 0050, 0051,  
0052, 0053, 0083, 0084, 0233, 0263, 0339, 0347  
Tokai - 0266, 0281  
Top Suxess - 0290  
Toshiba - 0012, 0041, 0042, 0043, 0044, 0045,  
0086, 0087, 0088, 0089, 0094, 0182, 0187, 0219,  
0237, 0238, 0264, 0293, 0345  
TRANS-continents - 0114, 0288  
Transonic - 0288  
Trio - 0135  
TruVision - 0277  
TSM - 0290  
Umax - 0285  
Union - 0351  
United - 0288  
Universum - 0395  
Viewmaster - 0290  
Vtrek - 0280  
Waitec - 0290  
Welltech - 0289  
Wharfedale - 0142, 0270  
Wintel - 0271  
Woxter - 0285, 0290  
Xbox - 0048  
Xenon - 0228  
Xlogic - 0135, 0142  
XMS - 0135, 0267  
Xoro - 0289, 0396  
Yakumo - 0158  
Yamada - 0114, 0158, 0285, 0287  
Yamaha - 0009, 0118, 0120, 0315, 0338  
Yamakawa - 0114, 0266  
Yukai - 0112, 0160  
Zenith - 0101, 0264, 0293

#### **STB codes : Digital receiver**

Philips - 0432, 0436, 0437, 0439, 0506  
ABC - 0448  
ADB - 0461, 0462  
Alcatel - 0463, 0540

Allegro - 0464  
Amstrad - 0431, 0449  
Andover - 0452  
Arcon - 0431  
Atlanta - 0465  
Auna - 0466  
Axis - 0431  
BBT - 0467  
Belgacom TV - 0468  
Bell Atlantic - 0453  
Birmingham Cable Communications - 0451  
British Telecom - 0448  
BT Cable - 0448  
Cabletime - 0538  
Clyde - 0454  
Clyde Cablevision - 0443  
Comcrypt - 0442, 0469  
Connect TV - 0470  
Coship - 0471  
Cryptovision - 0444, 0472  
Daehan - 0473  
Decsat - 0474  
Digi1 - 0475  
Eastern - 0476  
Electricord - 0477  
Electus - 0455  
Fastweb - 0478  
Fidelity - 0431  
Filmnet - 0442  
Filmnet Cablecrypt - 0445, 0539  
Filmnet Comcrypt - 0445  
Finlux - 0434  
Foxtel - 0449  
France Telecom - 0437, 0439, 0479  
Freebox - 0450, 0480  
GC Electronics - 0481  
GE - 0482  
GEC - 0443, 0454  
General Instrument - 0433, 0448, 0483  
Golden Channel - 0461  
Gooding - 0432  
Grundig - 0431, 0432  
Hirschmann - 0434  
Hitachi - 0484  
HomeChoice - 0441, 0485  
Humax - 0486, 0487  
HyperVision - 0435

ITT Nokia - 0434  
 Jerrold - 0433, 0448, 0536  
 Jiuzhou - 0488  
 JVC - 0432  
 Kabel Deutschland - 0489, 0490  
 Kansalaisboksi - 0491  
 LG Alps - 0492  
 Macab - 0439  
 Maestro - 0493  
 Magnavox - 0494  
 Maspro - 0432  
 Matav - 0462  
 Matsui - 0432  
 Maxdome - 0489  
 Medion - 0495  
 Minerva - 0432  
 Mnet - 0442, 0539  
 Mood - 0496  
 Motorola - 0497  
 MovieTime - 0447  
 Mr Zapp - 0439  
 Multichoice - 0442  
 NEC - 0498  
 NeufTelecom - 0533  
 Nokia - 0434, 0499  
 Noos - 0439  
 Northcoast - 0500  
 Novaplex - 0501  
 Now - 0502  
 NTL - 0456  
 Omniview - 0503  
 Ono - 0457, 0504  
 Orange - 0534  
 Pace - 0535  
 Pacific - 0505  
 Palladium - 0432  
 Pioneer - 0431  
 Prelude - 0507  
 Protelcon - 0508  
 PVP Stereo Visual Matrix - 0536  
 Regency - 0509  
 Sagem - 0439  
 Samsung - 0440, 0502  
 SAT - 0431  
 Satbox - 0458  
 Satel - 0459  
 Scientific Atlanta - 0446

Seam - 0510  
 Sharp - 0511  
 SingTel - 0512  
 SkyCable - 0513  
 Skyworth - 0514  
 Starcom - 0448  
 Stargate - 0515  
 Stellar One - 0516  
 TaeKwang - 0517  
 Tandy - 0518  
 Tatung - 0519  
 Teknika - 0520  
 Tele+1 - 0442, 0445, 0539  
 Telefonica - 0460  
 Telegent - 0521  
 Telenet - 0522  
 Telepiu - 0442, 0539  
 Thomson - 0438  
 Timeless - 0476  
 Tiscali - 0523  
 Tocom - 0524

#### **STB codes : Satellite receiver**

Philips - 0000, 0001, 0002, 0008, 0020, 0054,  
 0065, 0069, 0070, 0072, 0075, 0077, 0111, 0119,  
 0136, 0140, 0144, 0155, 0156, 0159, 0163, 0165,  
 0388, 0390, 0391, 0392, 0396, 0410, 0412, 0420,  
 0422, 0423, 0427  
 AB Sat - 0163, 0164, 0173, 0425  
 Action - 0187  
 ADB - 0175, 0188  
 Aegir - 0189  
 AGS - 0163  
 Akai - 0054, 0391  
 Akura - 0190  
 Alba - 0015, 0019, 0020, 0021, 0023, 0044,  
 0067, 0164, 0234, 0412  
 Aldes - 0021, 0023, 0024, 0234, 0395  
 Allantide - 0191  
 Allegro - 0192  
 Allsat - 0040, 0054, 0193, 0384, 0390, 0391  
 Allsonic - 0010, 0023, 0028, 0395, 0402  
 Alltech - 0164, 0414  
 Alpha - 0391  
 Altai - 0403  
 Amino - 0194  
 Amitronica - 0164

Ampere - 0153, 0403  
 Amstrad - 0026, 0055, 0074, 0108, 0153, 0158,  
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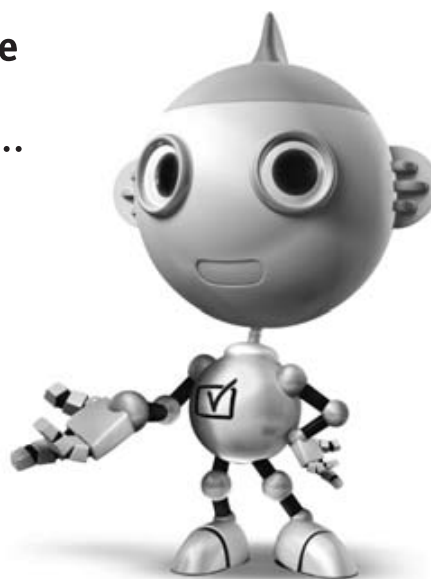
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# Information about how to re-tune your TV during the digital TV switchover.

**Keep this user manual safe – you'll need it.**

.....



Television in the UK is going digital, bringing us all more choice and new services. Starting in late 2007 and ending in 2012, television services in the UK will go completely digital, TV region by TV region.

Please see the next page to find out when your area switches to digital.

Digital UK is the independent, non-profit organisation leading the process of digital TV switchover in the UK. Digital UK provides impartial information on what people need to do to prepare for the move to digital, and when they need to do it.

## How the switchover affects your TV equipment:

Your new TV has a digital tuner built in, which means it is ready to receive the Freeview signal by simply plugging it into your aerial socket (check if you can get digital TV through your aerial now, or whether you'll have to wait until switchover, at [www.digitaluk.co.uk](http://www.digitaluk.co.uk)).

When the TV switchover happens in your area, there are at least two occasions when you will need to re-tune your TV in order to continue receiving your existing TV channels, and also to pick up new ones.

**get set for digital** 

Digital UK, the body leading the digital TV switchover, will advise you when you need to re-tune during the switchover.

If you choose to connect your TV to satellite or cable with a digital box then it will not be affected by switchover, and you won't need to re-tune.

If you have any questions, please contact your equipment supplier or call Digital UK on ... 0845 6 50 50 50 or visit [www.digitaluk.co.uk](http://www.digitaluk.co.uk)

## How to re-tune:

To find out how to re-tune your TV, check this user manual for details.

If you do not re-tune your channels when advised to do so by Digital UK, you may lose some or all of your channels until you do re-tune. You should re-tune your TV every few months to check for any new channels.

If you are missing any channels, it may be that they are not available in your area, or that your aerial needs upgrading.

# When does switchover happen?

\*Copeland switches on October 17, 2007

The exact date you switch depends on the transmitter you are served by. To check when you switch, go to Digital UK's postcode checker on [www.digitaluk.co.uk](http://www.digitaluk.co.uk)

Check your ITV news service or look at Teletext page 106 to see what TV region you're in.

Visit us at [digitaluk.co.uk](http://digitaluk.co.uk)  
Call us on 0845 6 50 50 50†

† Calls charged at BT rate of 3p per minute daytime and 1p per minute evenings and weekends. Rates may vary for calls from non-BT lines.

