

Contents

1 Notice	2
2 Important	4
3 Your product	7
TV overview	7
4 Use your product	9
Switch your TV on/off or to standby	9
Switch channels	9
Adjust TV volume	10
Watch connected devices	10
Use teletext	11
5 Use more of your product	12
Change language settings	12
Access the home menu	12
Access the options menu	13
Access the setup menu	13
Change picture and sound settings	14
Use advanced teletext features	18
Create and use lists of favourite channels	20
Reorder/rearrange and rename channels	20
Hide and unhide channels	21
Use the Electronic Programme Guide	22
Use timers	23
Use child and rating locks	24
Use subtitles	25
Use the TV clock	26
View photos, play music and watch video	
from a USB storage device	27
Listen to digital radio channels	29
Update the TV software	29
Change TV preferences	30
Start a TV demo	31
Reset the TV to factory settings	31

6 Install channels	32
Automatically install channels	32
Manually install channels	33
Manually update the channel list	34
Test digital reception	35
Change startup message settings	36
7 Connect devices	37
Back connectors	37
Side connectors	39
Connect a computer	40
Use a Conditional Access Module	41
Assign a channel decoder	42
Use Philips EasyLink	42
Use a Kensington lock	44
8 Product information	45
Supported display resolutions	45
Multimedia	45
Tuner/Reception/Transmission	45
Remote control	45
Power	45
Supported TV mounts	46
EPG information	46
9 Troubleshooting	47
General TV issues	47
TV channel issues	47
Picture issues	47
Sound issues	48
HDMI connection issues	48
USB connection issues	49
Computer connection issues	49
Contact us	49
10 Index	50



Österreich	0810 000205	€0.07 pro Minute
België/Belgique	078250145	€0.06 Per minuut/Par minute
България	+3592 489 99 96	Местен разговор
Hrvatska	01 6403 776	Lokalni poziv
Česká republika	800142840	Bezplatný hovor
Danmark	3525 8759	Lokalt opkald
Estonia	6008600	local
Suomi	09 2311 3415	paikallispuhelu
France	0821 611655	€0.09 Par minute
Deutschland	01803 386 852	€0.09 pro Minute
Ελλάδα	0 0800 3122 1280	Κλήση χωρίς χρέωση
Magyarország	0680018189	Ingyenes hívás
Hrvatska	0800 222778	free
Ireland	North 0800 055 6882 South 1800-PHILIPS 7445477	free
Italia	840320086	€0.08 Al minuto
Қазақстан	+7 727 250 66 17	local
Latvia	52737691	local
Lithuania	67228896	local
Luxemburg/Luxembourg	40 6661 5644	Ortsgespräch/Appel local
Nederland	0900 8407	€0.10 Per minuut
Norge	2270 8111	Lokalsamtale
Polska	(022) 3491504	połączenie lokalne
Portugal	800 780 903	Chamada local
România	031-810 71 25/0800-89 49 10	Apel local
Россия	Moscow (495) 961-1111 Outside Moscow 8-800-200-0880	Местный звонок
Србија	+381 114 440 841	Lokalni poziv
Slovensko	0800 004537	Bezplatný hovor
Slovenija	00386 12 80 95 00	lokalni klic
España	902 888 784	€0.10 Por minuto
Sverige	08 5792 9100	Lokalsamtal
Suisse/Schweiz/Svizzera	0844 800 544	Appel local/Ortsgespräch/Chiamata locale
Türkiye	0800 261 3302	Şehir içi arama
United Kingdom	General No: 0870 900 9070 General National Rate No: 0870 911 0036	local
Україна	8-800-500-69-70	Місцевий виклик

This information is correct at the time of press. For updated information, see www.philips.com/support.

1 Notice

2009 © Koninklijke Philips Electronics N.V. All rights reserved.

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.

Open source software

This television contains open source software. Philips hereby offers to deliver or make available, upon request, for a charge no more than the cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code on a medium customarily used for software interchange. This offer is valid for a period of 3 years after the date of purchase of this product. To obtain the source code, write to:

Development Manager
Technology & Development
Philips Consumer Lifestyle
620A Lorong 1, Toa Payoh
TP1, Level 3
Singapore 319762

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.

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



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 aerial before lightning storms. During lightning storms, never touch any part of the TV, power cord or aerial cable.

Risk of hearing damage!

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

Low temperatures

If the TV is transported in temperatures below 5°C, 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 with normal household waste.

Please inform yourself about the local rules on separate collection of batteries because correct disposal helps to prevent negative consequences for the environmental and human health.

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

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. 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 energy saving 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 change to another setting to check the corresponding values.

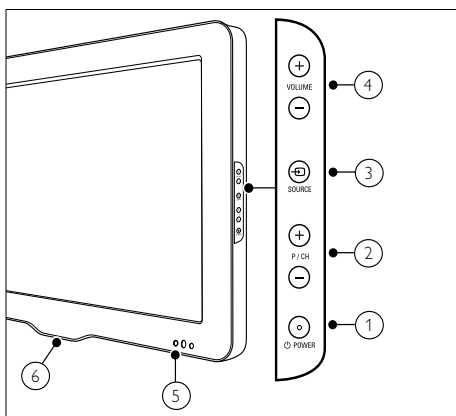
3 Your product

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.

TV overview

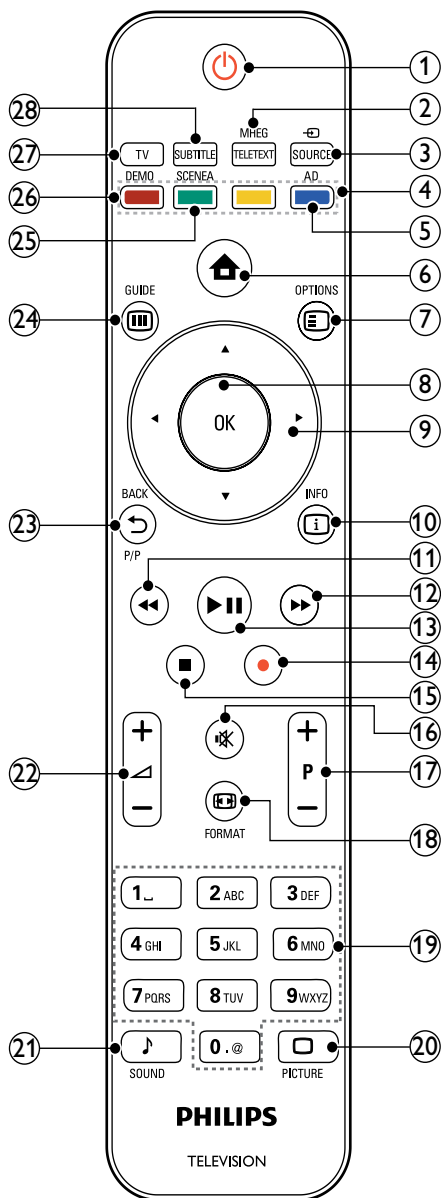
This section gives you an overview of commonly used TV controls and functions.

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 **Front LED indicator**
- ⑥ **LightGuide** : Available only on PFL7864H models.

Remote control



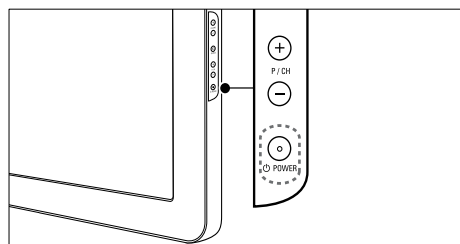
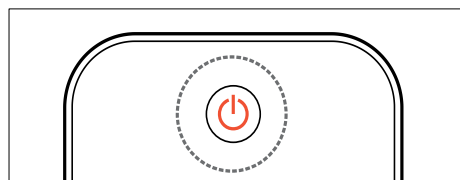
- ① **(Standby-On)**
 - Switches the TV to standby if it is on.
 - Switches on the TV if it is in standby.

- ② **MHEG/TELETEXT**
Toggles teletext on or off.
- ③  **SOURCE**
Selects connected devices.
- ④ **Colour buttons**
Selects tasks or options.
- ⑤ **AD (Audio Descriptor)**
UK only: Enables audio commentary for the visually handicapped. Not supported on all models.
- ⑥  **(Home)**
Toggles the home menu on or off.
- ⑦  **OPTIONS**
Accesses options relating to the current activity or selection.
- ⑧ **OK**
Confirms an entry or selection.
- ⑨  **(Navigation buttons)**
Navigates through the menus.
- ⑩  **INFO**
Displays programme information, if available.
- ⑪  **(Backward)**
*Searches backward.
- ⑫  **(Forward)**
*Searches forward.
- ⑬  **(Play/Pause)**
*Starts, pauses or resumes playback.
- ⑭  **(Record)**
*Starts or stops video recording.
- ⑮  **(Stop)**
*Stops playback.
- ⑯  **(Mute)**
Mutes or restores audio output.
- ⑰ **P +/- (Programme +/-)**
Switches to the next or previous channel.
- ⑱  **FORMAT**
Selects a picture format.
- ⑲ **0-9 (Numeric buttons)**
Selects a channel or setting.
- ⑳  **PICTURE**
Launches the picture menu. Not supported on all models.
- ㉑  **SOUND**
Launches the sound menu. Not supported on all models.
- ㉒  **+/- (Volume +/-)**
Increases or decreases volume.
- ㉓  **BACK/P (Previous channel)**
 - Returns to the previous menu screen.
 - Returns to the previous channel. (UK only: Not supported on MHEG channels).
- ㉔  **GUIDE**
Accesses or exits the Electronic Programme Guide (EPG).
- ㉕ **SCENEA (Wallpaper)**
Displays wallpaper on your TV screen. Not supported on all models.
- ㉖ **DEMO**
Toggles the demonstration menu on or off.
- ㉗ **TV**
Switches back to the aerial source.
- ㉘ **SUBTITLE**
Enables or disables subtitles.
- *Controls the connected EasyLink-compliant device.

4 Use your product

This section helps you perform basic operations (see 'Use more of your product' on page 12).

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

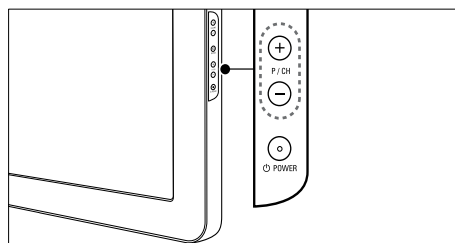
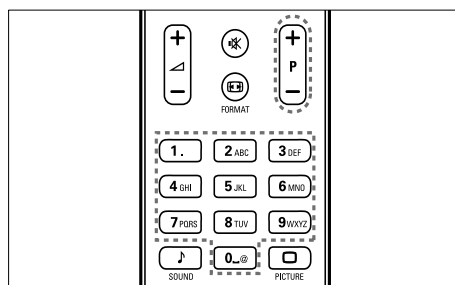
- Though your TV consumes very little power when in standby, energy continues to be consumed. When not in use for an extended period of time, disconnect the TV power cable from the power outlet.



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



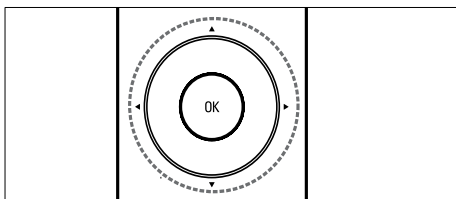
- Press **P +/-** on the remote control or **P/CH +/-** on the side of the TV.
- Enter a channel number using the **Numeric buttons**.
- Use the channel grid (see 'Switch channels with the channel grid' on page 10).

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.

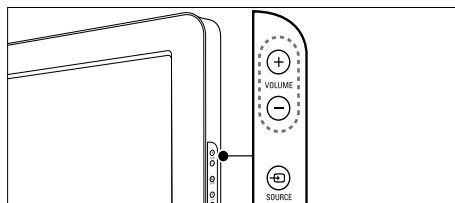
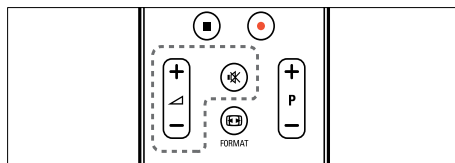


- Press **OK**.
→ The channel grid appears.



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

Adjust TV volume



To increase or decrease volume

- Press **+** or **-**.
- 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 'Adjust sound settings' on page 17).

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.



- Press **Home**.
→ The home menu appears.



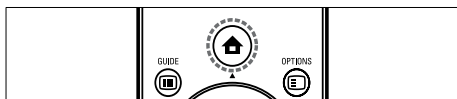
- 2 Press the **Navigation buttons** to select **[Add new device]**.
- 3 Press **OK**.
 ↳ A message appears with **[Start]** selected, prompting you to start the add new device guide.
- 4 Press **OK**.
 ↳ Follow the on-screen instructions to select the type of device and where it is connected. When the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



Tip

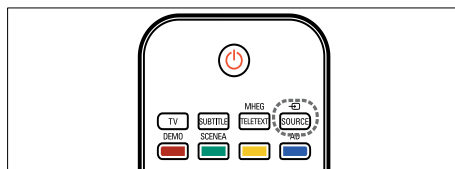
- To avoid screen clutter, remove devices from the home menu when they are no longer connected (see 'Remove devices from the home menu' on page 13).

Select a device via the home menu



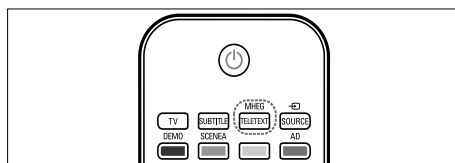
- 1 Press **⬆ (Home)**.
 ↳ The home menu appears.
- 2 Press the **Navigation buttons** to select a device.
- 3 Press **OK** to confirm your choice.
 ↳ The TV switches to the selected device.

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.

Use teletext



- 1 Press **MHEG/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 **MHEG/TELETEXT** to exit teletext.

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	Čeština
Channel installation	Primary audio	Dansk
Preferences	Secondary audio	Deutsch
Decoder	Primary subtitles	Ελληνικός
Clock	Secondary subtitles	English
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 as well as 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 that allow you to change picture, sound and other TV settings.
- **[Add new device]** Adds new devices to the home menu.
- **[Browse USB]** If a USB storage device is connected, accesses the USB content browser.

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.

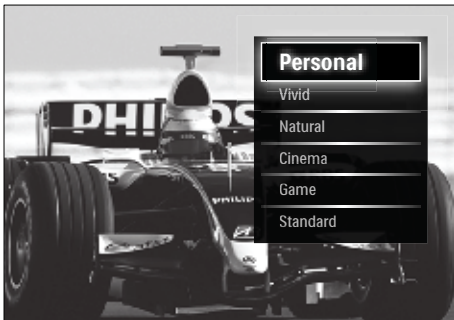
Note

- 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 30).

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]** Rich and dynamic settings, ideal for daylight use.
 - **[Natural]** A natural picture setting.
 - **[Cinema]** Ideal settings for watching movies.
 - **[Game]** Ideal settings for gaming.
 - **[Standard]** 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 15).

Use settings assistant

Use the settings assistant to guide you through the best 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.

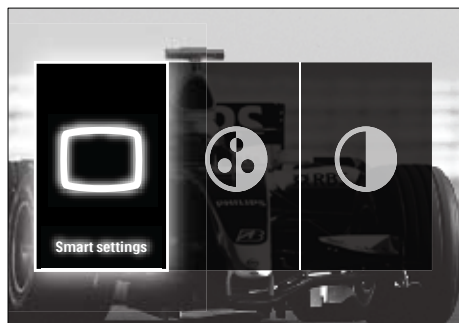
Use the picture and sound experience bar

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 15).
- All sound settings are available via the **[Sound]** menu (see 'Adjust sound settings' on page 17).

- 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.

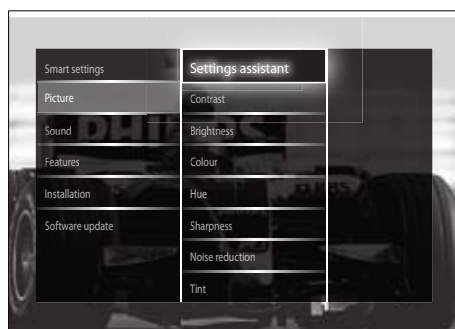
- **[Smart settings]** Applies pre-defined picture and sound settings.
- **[Colour]** Adjusts colour saturation.
- **[Contrast]** Adjusts the intensity of bright areas, keeping dark areas unchanged.
- **[Bass]** Adjusts the bass level.
- **[Treble]** Adjusts the treble level.
- **[TV speakers]** Turns 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.

Note

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

Manually adjust picture settings

- 1 Press **□** **PICTURE**.
 ↳ The **[Picture]** menu appears.



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

3 Press **↶** BACK to exit.



Tip

- The **[Picture]** menu is also accessible via the **[Setup]** menu (see 'Access the setup menu' on page 13).

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 the level of sharpness in image details.
- **[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]** Make a customised tint setting.
- **[Pixel Plus HD]/[Pixel Precise HD]** Gives access to advanced picture settings:
 - **[Dynamic contrast]** Automatically enhances contrast in an image.
 - **[Dynamic backlight]** Adjusts the brightness of the TV backlight to match lighting conditions.
 - **[MPEG artefact reduction]** Smoothes out transitions on digital pictures. You can switch this feature on or off.

- **[Colour enhancement]** Makes colours more vivid and improves the resolution of 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]** Dynamically adjusts picture settings 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

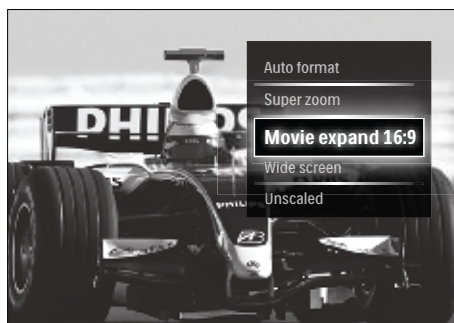
- **[Colour]** and **[Contrast]** settings are also accessible via the **[Picture and sound]** experience bar (see 'Use the picture and sound experience bar' on page 15).

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

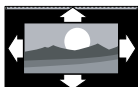
- Picture formats are also accessible via the **[Setup]** menu (see 'Access the setup menu' on page 13).

The following picture formats can be selected.



Note

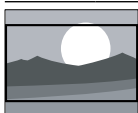
- Depending on the picture source, some picture formats are not available and will not be seen on-screen.
- Before you adjust **[Unscaled]**, select **[Picture]** > **[PC mode]** > **[On]**, then press **OK** to enable the option.



[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.



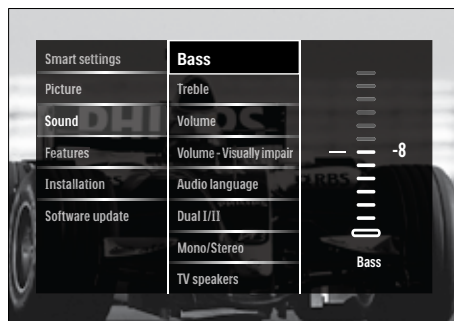
[Wide screen] Stretches the classic 4:3 format to 16:9



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

Adjust sound settings

- 1 Press **↵ SOUND**.
 ↳ The **[Sound]** menu appears.



- 2 Press the **Navigation buttons** and **OK** to select and adjust a sound setting.
- 3 Press **↵ BACK** to exit.



Tip

- The **[Sound]** menu is also accessible via the **[Setup]** menu (see 'Access the setup menu' on page 13).

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 between mono or stereo if stereo is broadcast.
- **[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 to best suit your listening position.
- **[Auto volume leveling]**Automatically reduces sudden volume changes, for example, when switching channels. When enabled, this produces a more consistent audio volume.

Note

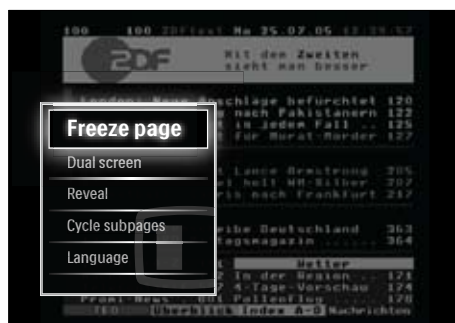
- **[Bass]**, **[Treble]** and **[TV speakers]** settings are also accessible via the **[Picture and sound]** experience bar (see 'Use the picture and sound experience bar' on page 15). When supported, **[Audio language]** and **[Volume - Visually impaired]** are directly accessible from the options menu.

Use advanced teletext features

Access the teletext options menu

Most of the advanced teletext features are accessed via the teletext options menu.

- 1 Press **MHEG/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, which splits the current channel or source to the left of the screen, with teletext on the right.
 - **[Reveal]**Hides or reveals hidden information on a page, such as solutions to riddles or puzzles.
 - **[Cycle subpages]**Cycles through subpages automatically if subpages are available.
 - **[Language]**Switches to a different language group to display a language correctly when that language uses a different character set.
- 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 18).

- 1 Press **MHEG/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 **MHEG/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 **MHEG/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 **MHEG/TELETEXT**.
↳ The teletext screen appears.
- 2 Press **⏏** **FORMAT**.
↳ The teletext screen is enlarged.
- 3 Press:
 - **▲▼** to scroll up and down 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 **⏏** **OPTIONS**.
↳ The options 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

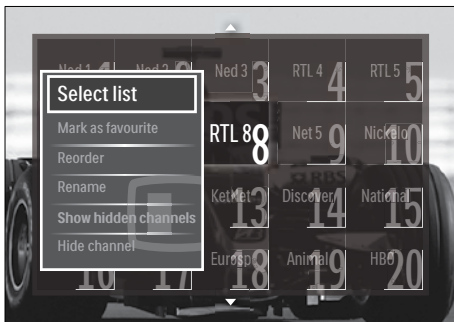
You can create lists of your preferred TV channels so that you can find those channels easily.

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.

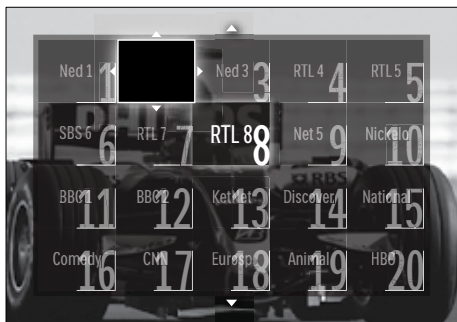
Reorder/rearrange and rename channels

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 grid to suit your needs.

- 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

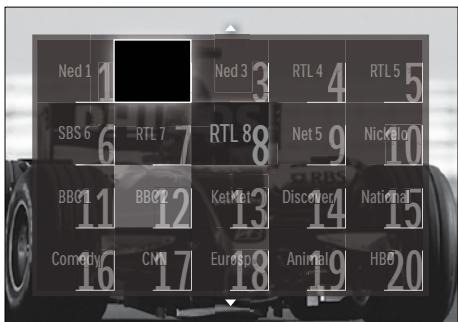
Hide channels from the grid, to prevent unauthorised access.

- 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 22).
 - OPTIONS** to view the options menu (see 'Use the EPG options menu' on page 23).
- 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]** View 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 (sleeptimer)

Sleeptimer 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

Locking the TV prevents your child from accessing 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

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 24).

- 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 have the additional option of selecting a preferred subtitle language.

Enable or disable subtitles on analogue TV channels

- 1 Switch to an analogue TV channel.
- 2 Press **MHEG/TELETEXT**.
- 3 Enter the three-digit page number of the subtitle page with the **Numeric buttons**.
- 4 Press **MHEG/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 44).

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 13).

- 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 13).

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 33) and daylight saving conditions (see 'Enable or disable daylight saving' on page 27).

- 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 from a USB storage device

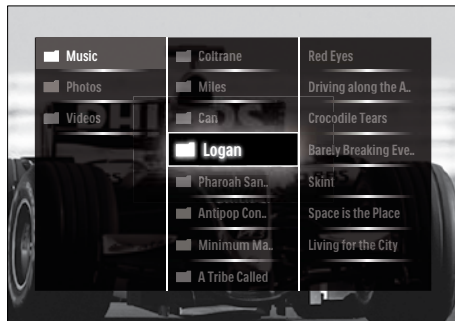
! Caution

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

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.

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.

Watch a slideshow of your photos

- 1 In the USB 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 USB 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.

View a slideshow of your photos with music

You can view a slide show of your photos with background music.

- 1 After selecting a song to play (see 'Listen to music' on page 28), press **GUIDE**.
↳ The USB content browser appears.
- 2 Start a photo slideshow (see 'Watch a slideshow of your photos' on page 27).

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.

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 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.

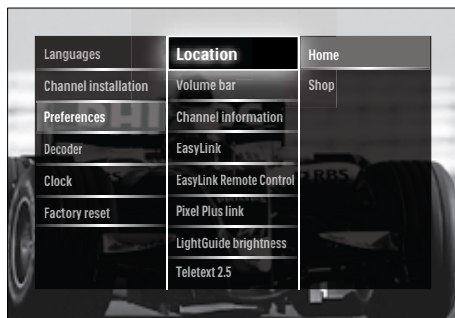
If an update is available, a message appears prompting you to update the software. We strongly recommend that you update the software when prompted.

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.

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 adjusting 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.

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.

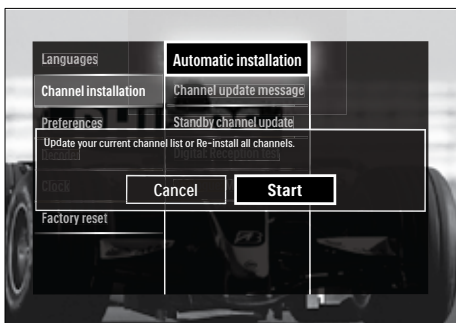
Automatically install channels

This section describes how to search and store channels automatically.

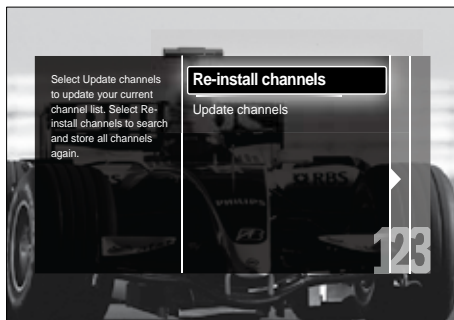
Install channels

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 33).

- 5 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.
- 6 Press **OK** to confirm your choice.
 - ↳ The TV exits to the **[Channel installation]** menu.

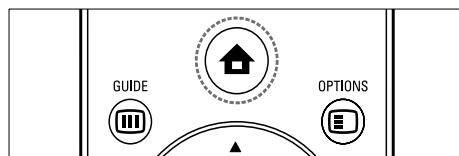


Tip

- 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

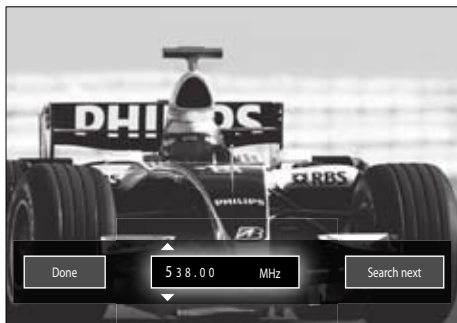
Note

- 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.

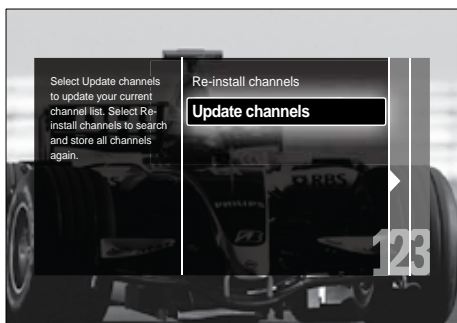
In addition to this automatic update, you can manually update the channel list.



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]**.

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



- 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.
- Press **OK**.
↳ The **[Installation]** menu appears.

Test digital reception

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

- In the **[Installation]** menu, press the **Navigation buttons** to select **[Channel installation] > [Digital: Reception test] > [Search]**.
- Press **OK**.
↳ The **[Search]** menu appears.
- 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.
- 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

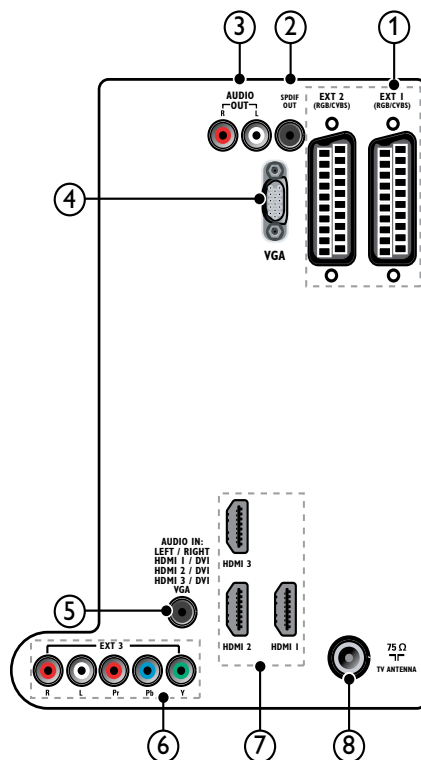
For best picture quality, we recommend you use the following connection types, listed below from highest to basic quality:

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

Note

- The connectivity diagrams provided in this section are examples only. Other types of connections are possible.

Back connectors

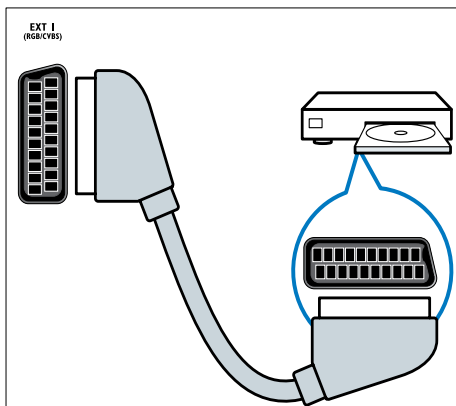


Note

- Back connectors on 19-22" models vary slightly from the diagram.
- The number of HDMI connectors available varies according to TV model.

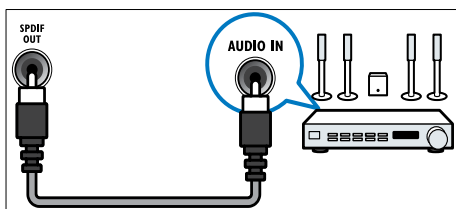
① EXT 1/EXT 2 (SCART)

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



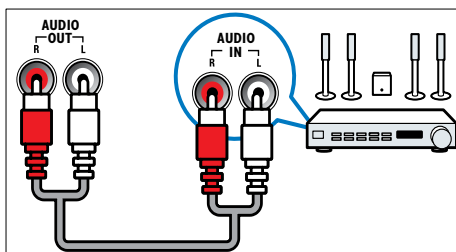
② SPDIF OUT

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



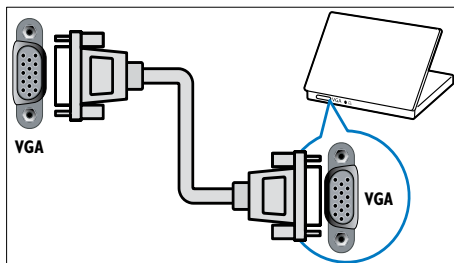
③ AUDIO OUT L/R

Analogue audio output to home theatres and other audio systems.



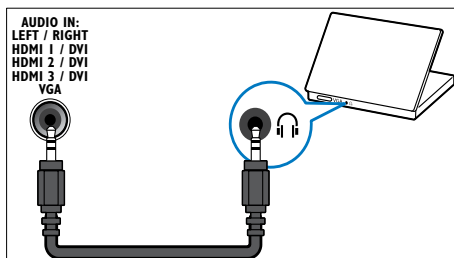
④ VGA

Video input from a computer.



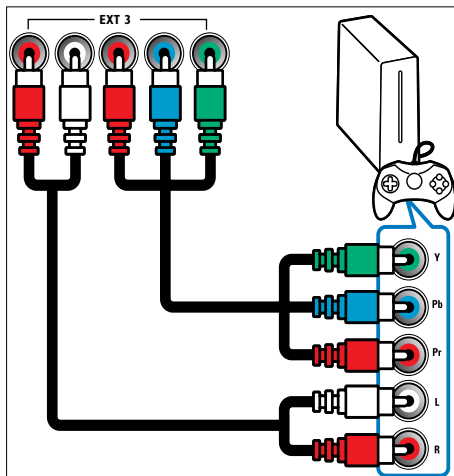
⑤ AUDIO IN

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



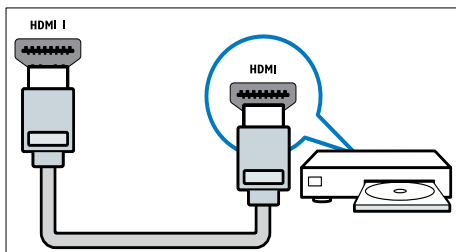
⑥ EXT 3 (Y Pb Pr and AUDIO L/R)

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



⑦ HDMI 1/2/3

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

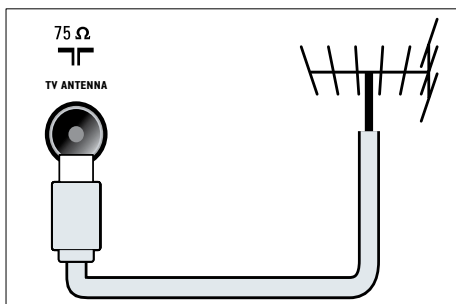


Note

- Only one HDMI connector is available on 19/22" models. The HDMI connector on these models is labelled as **HDMI** instead of **HDMI 1**.

⑧ TV ANTENNA

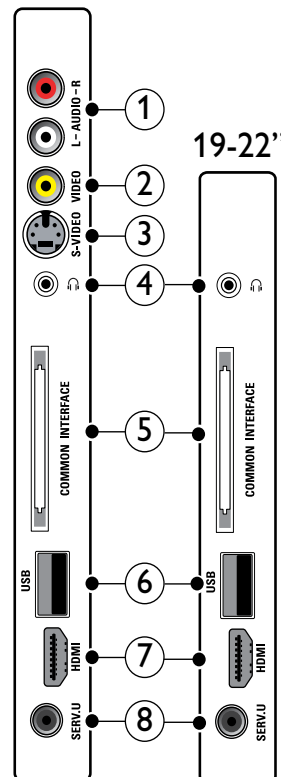
Signal input from an antenna, cable or satellite.



Side connectors

Refer to the correct connector diagram for your TV screen size:

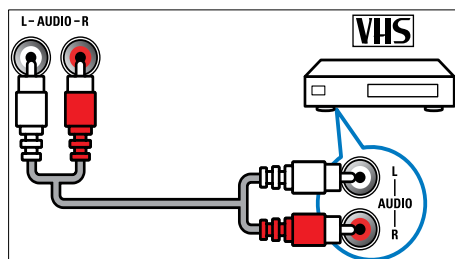
26-52"



19-22"

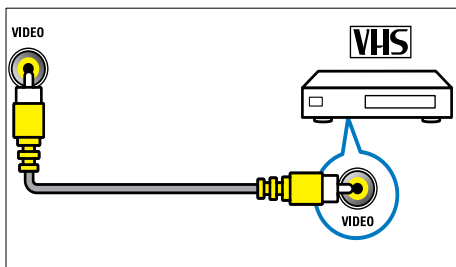
① AUDIO IN L/R

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



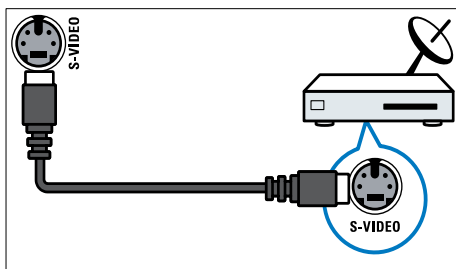
② VIDEO

Composite video input from analogue devices such as VCRs.



③ S-VIDEO

Video input from analogue devices such as satellite receivers.



④

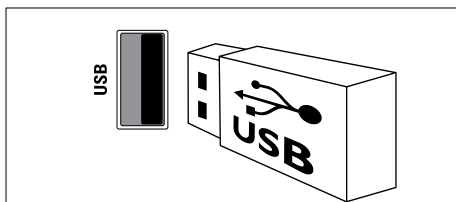
Stereo audio output to headphones or earphones.

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:

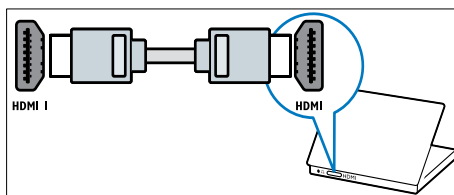
- Set the screen refresh rate on your computer to 60Hz.
- Select a supported screen resolution on your computer.
- Enable **[PC mode]** in the **[Picture]** menu (see 'Manually adjust picture settings' on page 15), and set the picture format to **[Unscaled]**.

Connect a computer with one of the following connectors:

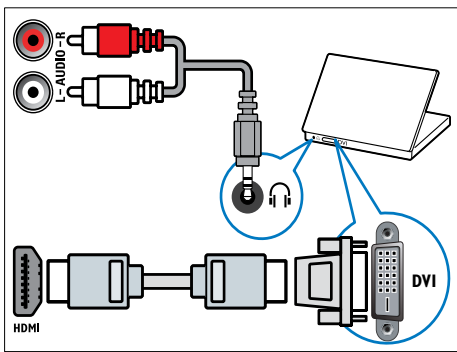
Note

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

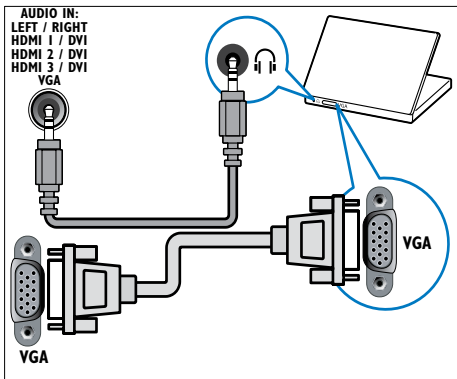
• HDMI cable



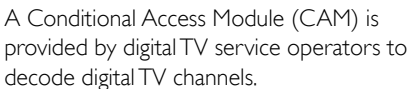
- HDMI cable and HDMI-DVI adaptor
(side HDMI and AUDIO IN L/R)



- VGA cable



- ## Use a Conditional Access Module



Note

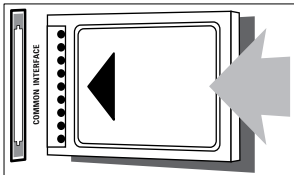
- If required, refer to documentation from your operator on how to insert a smart card into the Conditional Access Module.

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  (Home) 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. Note that you must press and hold  (Standby-On) for at least 3 seconds for this to occur.

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**.

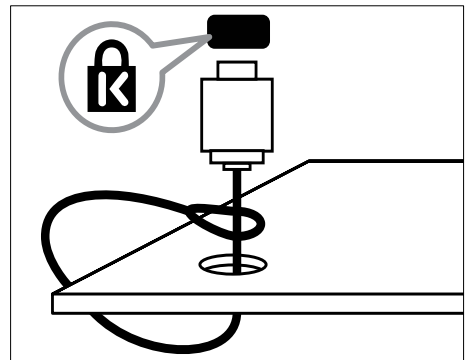
Set TV speakers to EasyLink mode

When enabled, this feature automatically turns off TV speakers when content from an EasyLink-compliant home theatre system is played. Audio is played only from the home theatre system's speakers.

- 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.

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)
- Supported multimedia file formats:
 - Images: JPEG
 - Audio: MP3, LPCM
 - Video: MPEG1, MPEG2, H.264/ MPEG-4 AVC



Note

- Multimedia file names must not exceed 128 characters.

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: PF03E09B/PF02E09B/PF02E09W
- Batteries: 2 × AAA (LR03 type)

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/ 48cm	VESA MIS-D 75, 4
22 inches/ 56cm	VESA MIS-D 100, 4
26 inches/ 69cm	VESA MIS-E 200, 100, 4
32 inches/ 81cm	VESA MIS-F 200, 200, 6
37 inches/ 94cm	VESA MIS-F 200, 200, 6
42 inches/ 107cm	VESA MIS-F 400, 400, 6
47 inches/ 119cm	VESA MIS-F 400, 400, 8
52 inches/ 132cm	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
Luxembourg	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 +/-)**, **P +/- (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 12).

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 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 a HDMI-to-DVI adaptor or HDMI to DVI cable is used, 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.

Computer connection issues

The computer display on the TV is not stable:

- Check that a supported resolution and refresh rate is selected on the computer.
- 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.

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 Index

A

analogue channel	
fine-tune	34
audio balance	17
audio language	17
auto volume leveling	17

B

bass	17
batteries	45, 47
bracket	46
Brightness	15

C

cables	
quality	37
CAM, see also Conditional Access Module	41
channel decoder	42
channel grid	
access and change channels	10
channels	
channel grid	
hide channels	21
rename channels	21
reorder/rearrange channels	20
favourite list	20
install	
automatic	32
manual	33
test reception	35
tune	34
child lock	
TV lock	24
clock	26
colour	15
Common Interface	41, 39
composite cable	37
computer format	
technical specifications	45
Conditional Access Module	41, 39
connections	

component	37
composite	39
HDMI	39
overview	37
quality	37
SCART	37
S-video	39
technical specifications	45
troubleshooting	49
USB	27

connectors

overview	37
USB	37
USB	39

contrast

15

D

demo	31
devices	
add to home menu	10
connect	37
remove from home menu	13
watch	10
digital channel	
subtitle language	26
test reception	35
digital radio	29
digital services	
CAM	41
teletext	19, 18
display	
resolution	45
Dual I-II	17
DVB-C and DVB-T	
access	33

E

EasyLink	
buttons	43
disable	44
enable	44
features	43
RC key forwarding	44
TV speakers	44
environmental care	5

F	
factory settings	31
favourite list	
create	20
troubleshooting	47

H	
HDMI cable	
connectors	39, 37
troubleshooting	48
headphone volume	17
Home menu	
access	12
remove devices	13
hue	15

I	
install channels	
automatic	32
manual	33

K	
Kensington lock	44

L	
language	
troubleshooting	47
light sensor	15
location	30
lock	
Kensington	44

M	
menu	
home menu	12
language	12
setup menu	13
teletext	18
troubleshooting	47
Mono/Stereo	17
multimedia	
listen to music	28
watch videos	28

Multimedia	
supported formats	45
USB	27
music	
digital radio	29
supported formats	45
USB	28

N	
Noise reduction	15

P	
PC mode	15
Personal Identification Number or PIN	
code	47
photos	
slideshow	27
supported formats	45
picture and sound experience bar	15
picture format	
picture format change	16
troubleshooting	47
Pixel Plus	15
power	45, 47

R	
RC key forwarding	44
reception	47
remote control	
key forwarding	44
overview	, 7
technical specifications	45
troubleshooting	47

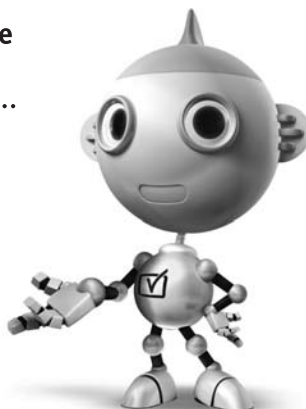
S	
safety	4
SCART	37
settings	
picture	15
sound	17
settings	15
settings assistant	14
setup menu	13
sharpness	15

shop mode	30	switch off	9
sleep timer	23	switch on	9
smart settings	14	troubleshooting	47
software		tuner technical specifications	45
update	29	wall mount	4, 46
version	29		
sound settings	17		
SPDIF	37	V	
standby		VGA	37
troubleshooting	47	videos	
subtitles		supported formats	45
language	26	watch	28
surround sound	17	visually impaired	17
S-Video	39	volume	
		adjust	10
		headphones	17
		visually impaired	17
T			
Table of Pages	19		
technical specifications	45		
Teletext			
dual screen	18		
enlarge pages	19		
features	18		
menu	18		
search	19		
subpages	19		
table of pages	19		
teletext 2.5	19		
use	11		
timer			
sleep timer	23		
tint	15		
transmission			
troubleshooting	47		
treble	17		
troubleshooting	47		
tuner	45		
TV			
access DVB-C and DVB-T networks	33		
adjust volume	10		
connectors	39, 37		
menu	12		
screen care	5		
software	29		
speakers	17		
standby	9		
switch channels	9		

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).

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

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

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
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.

