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EN USER MANUAL

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### Warranty

No components are user-serviceable. Do not open or remove covers to the inside of the product. Repairs may only be done by Philips Service Centres and official repair shops. Failure to do so shall void any warranty, stated or implied. Any operation expressly prohibited in this manual, any adjustments, or 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.

### 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.

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# 1 Important

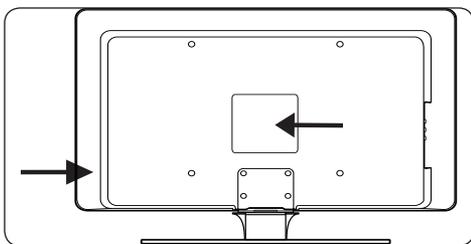
Congratulations on your purchase and welcome to Philips!

Read this user manual before you start to use this product.

Pay close attention to this section and follow the safety and screen care instructions. The product warranty does not apply if damage is caused by failing to follow these instructions.

To fully benefit from the support that Philips offers, register your product at [www.philips.com/welcome](http://www.philips.com/welcome).

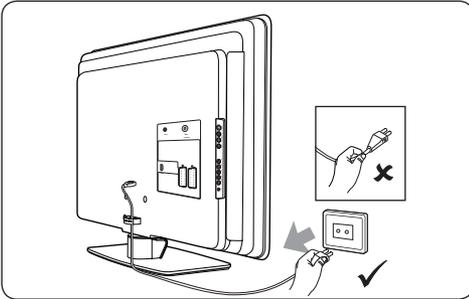
The model and serial number of your TV can be found on the back and side of the TV as well as on the packaging.



## 1.1 Safety

- Two people are required to lift and carry a TV that weighs more than 25 kilos (55lb). Improper handling of the TV can result in serious injury.
- If transporting the TV in low temperatures (less than 5°C), open the box and wait until the TV matches the ambient temperature of the room before unpacking.
- To avoid short circuit, do not expose the TV, remote control or remote control batteries to rain or water.
- Do not place vessels of water or other liquids on top of or near the TV. Spilling liquids on the TV can cause electric shock. If liquids are spilt on the TV, do not operate the TV. Immediately disconnect the TV from the mains and have the TV checked by a qualified technician.
- To avoid risk of fire or electric shock, do not place the TV, remote control or remote control batteries near naked flame sources (e.g. lighted candles) and other heat sources including direct sunlight.
- Do not install the TV in a confined space such as a bookcase. Leave a space of at least 10cm (four inches) around the TV for ventilation. Be sure air flow is not obstructed.
- If placing the TV on a flat, solid surface be sure to use only the supplied stand. Do not move the TV if the stand is not properly screwed to the TV.
- Wall mounting of the TV should only be performed by qualified personnel. The TV must only be mounted on an appropriate wall bracket and on a wall that can safely hold the weight of the TV. Improper wall mounting can result in severe injury or damage. Do not attempt to wall mount the TV yourself.
- If the TV is mounted on a swivel base or swivel arm, ensure no strain is placed on the power cord when the TV is swivelled. Strain on the power cord can loosen connections and cause arcing or fire.
- Disconnect the TV from the mains and antenna before lightning storms. During lightning storms do not touch any part of the TV, mains cord or antenna cable.
- Be sure that you have full access to the mains cord for easy disconnection of the TV from the mains.
- When disconnecting the TV from the mains, be sure to:
  1. Turn off the TV, then the mains power (if available).
  2. Unplug the mains cord from the mains socket outlet.

- Unplug the mains cord from the power connector at the back of the TV.  
Always pull the mains cord by the plug. Do not pull the mains cord.

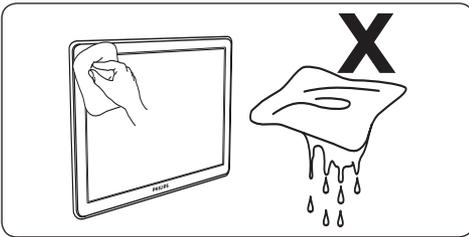


- Permanent hearing loss can occur if you use earphones or headphones at high volumes. Though high volume may sound normal over time, it can damage your hearing. To protect your hearing, limit the amount of time you use earphones or headphones at high volume.

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## 1.2 Screen care

- Turn off and unplug the mains cord before cleaning the screen. Clean the screen with a soft, dry cloth. Do not use substances such as household cleaning agents as these may damage the screen.



- To avoid deformations or colour fading, wipe off water droplets as soon as possible.
- Do not touch, push, rub or strike the screen with hard objects as this may damage the screen permanently.
- Where possible, avoid stationary images that remain on-screen for extended periods

of time. Examples include screen menus, teletext pages, black bars or stock market tickers. If you must use stationary images, reduce the screen contrast and brightness to avoid screen damage.

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## 1.3 Environmental care

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### Recycling your packaging

The packaging of this product is intended to be recycled. Contact your local authorities for information on how to recycle the packaging.

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### Disposing your used product

Your product is manufactured with high-quality materials and components that can be recycled and reused. When you see the crossed-out wheel bin symbol attached to a product, it means the product is covered by the European Directive 2002/96/EC:



Do not dispose your used product with household waste. Ask your dealer for information on how to safely dispose of the product. Uncontrolled waste disposal harms both the environment and human health.

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### Disposing used batteries

The supplied batteries do not contain mercury or cadmium. Dispose supplied and all other used batteries according to your local regulations.

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### Power consumption

The TV consumes minimal energy in standby mode to minimise environmental impact. Active power consumption is displayed at the back of the TV.

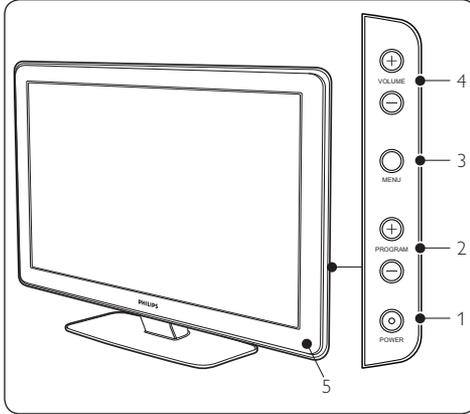
For more product specifications, see the product leaflet at [www.philips.com/support](http://www.philips.com/support).

## 2 Your TV

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

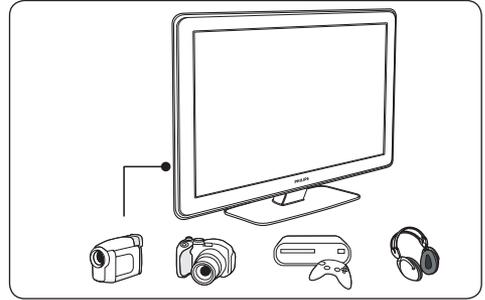
### 2.1 TV overview

#### Side controls and indicators



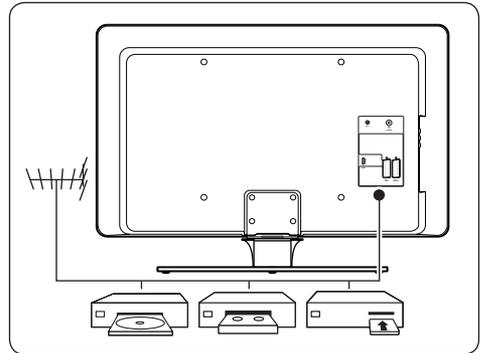
1. **POWER**
2. **PROGRAM +/-**
3. **MENU**
4. **VOLUME +/-**
5. Power indicator/Remote control sensor

#### Side connectors



Use the TV side connectors to connect to mobile devices such as a camera or game console. You can also connect a pair of headphones.

#### Back connectors

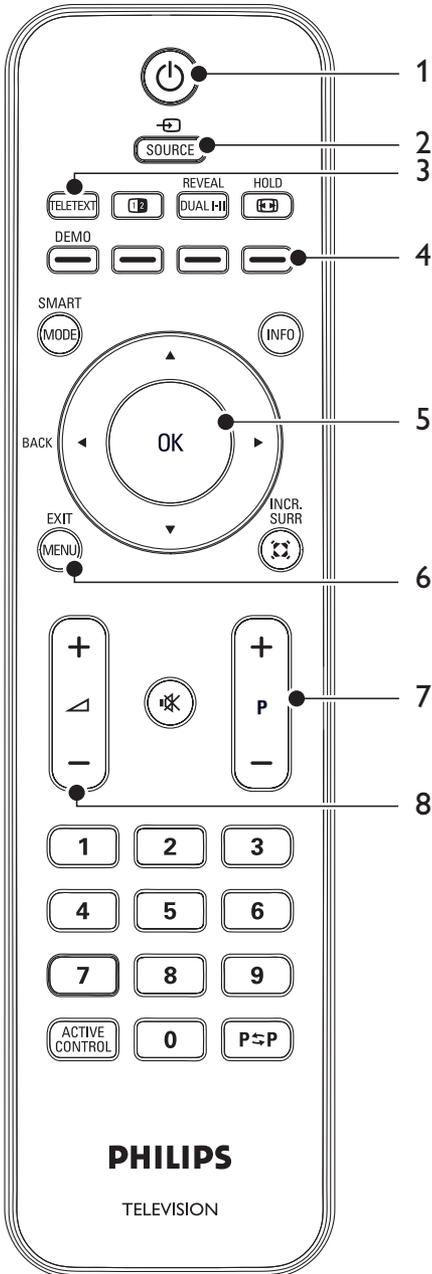


Use the TV back connectors to connect to the antenna and permanent devices such as a high-definition disc player, DVD player or VCR.

#### **Note**

For more information about connections, see *Section 7.3 Connect devices*.

## Remote control



1. **STANDBY**
2. **SOURCE**
3. **TELETEXT**
4. Colour keys  
From left: Red, green, yellow, blue
5. Navigation keys  
Up ▲, Down ▼, Left ◀, Right ▶, **OK**
6. **MENU**
7. Program +/-
8. Volume +/-

For advanced information about the remote control, see *Section 5.1 Remote control overview*.

### 3 Get started

This section helps you position and install the TV and supplements the information provided in the **Quick Start**.

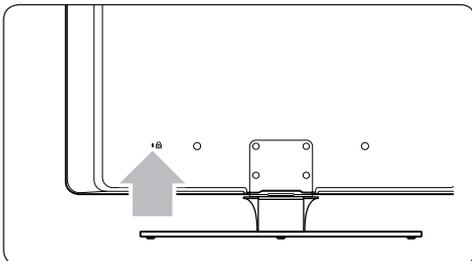
**Note**

Refer to the **Quick Start** for stand mounting instructions.

#### 3.1 Position the TV

In addition to reading and understanding the safety instructions in *Section 1.1*, consider the following before positioning your TV:

- The ideal viewing distance for watching TV is three times its screen size.
- Position the TV where light does not fall on the screen.
- Connect your devices before you position your TV.
- Your TV is equipped with a Kensington Security Slot at the back of the TV.



If connecting an anti-theft Kensington lock (not supplied), position the TV within reach of a permanent object (such as a table) that can be easily attached to the lock.

#### 3.2 Wall mount the TV

**WARNING**

Wall mounting of the TV should only be performed by qualified installers. Koninklijke Philips Electronics N.V. bears no responsibility for improper mounting that results in accident or injury.

##### Step 1 Purchase a VESA-compatible wall bracket

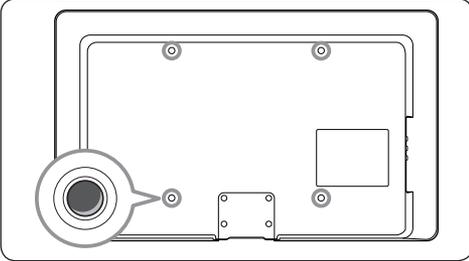
Depending on the size of your TV screen, purchase one of the following wall brackets:

TV screen size (inches/cm)	VESA-compatible wall bracket type (mm)	Special instructions
32"/81cm	Adjustable 300 x 300	The VESA-compatible bracket must be adjusted to 200 x 300 before securing to the TV
37"/94cm	Fixed 300 x 300	None
42"/107cm or larger	Fixed 400 x 400	None

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## Step 2 Secure the VESA-compatible wall bracket to the TV

1. Locate the four mounting nuts at the back of the TV.



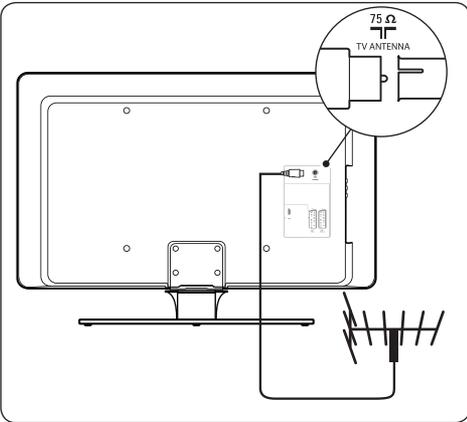
2. Continue with the instructions provided with your VESA-compatible wall bracket.

### NOTE

When securing the VESA-compatible wall bracket to your TV, use M6 bolts for 32 inch models or M8 bolts for larger models (bolts not supplied).

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## 3.3 Connect the antenna cable



1. Locate the **TV ANTENNA** connector at the back of the TV.
2. Connect one end of an antenna cable (not supplied) to the **TV ANTENNA** connector. Use an adaptor if the antenna cable does not fit.

3. Connect the other end of the antenna cable to your antenna outlet, ensuring that the cable is tightly secured at both ends.

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## 3.4 Connect the mains cord

### WARNING

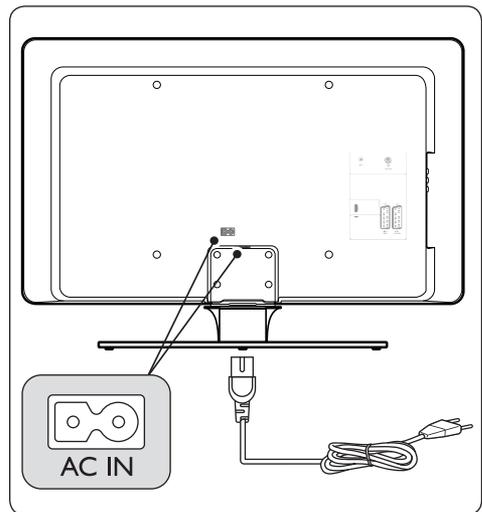
Verify that your mains voltage corresponds with the voltage printed at the back of the TV. Do not insert the mains cord if the voltage is different.

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### To connect the mains cord

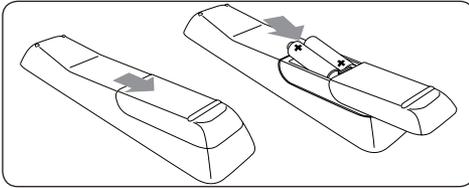
### Note

The location of the mains connector varies according to TV model.



1. Locate the **AC IN** mains connector at the back or on the bottom of the TV.
2. Connect the mains cord to the **AC IN** mains connector.
3. Connect the mains cord to the mains, ensuring that the cord is tightly secured at both ends.

### 3.5 Insert the remote control batteries



1. Slide the battery cover off the back of the remote control.
2. Insert the two supplied batteries (Size AAA, Type LR03). Be sure the + and - ends of the batteries line up with the markings inside the case.
3. Slide the cover back into position.

**Note**

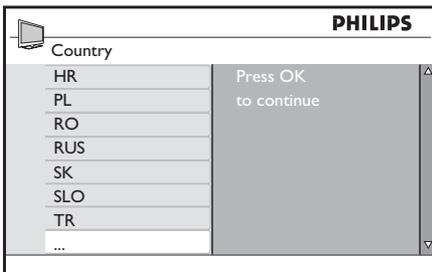
Remove the batteries if not using the remote control for an extended period of time.

### 3.6 Switch on the TV

The first time you switch on the TV, check that the mains cord is properly connected. When ready, turn on the mains (if mains switch is available), then press **POWER** on the side of the TV.

### 3.7 First time setup

1. The first time the TV is switched on, a **Country** selection menu appears.



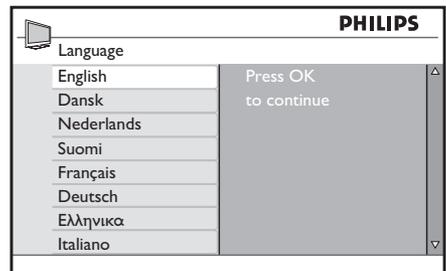
2. Press **▲** or **▼** to select your country. Refer to the table below for the list of countries available for selection.

**Tip**

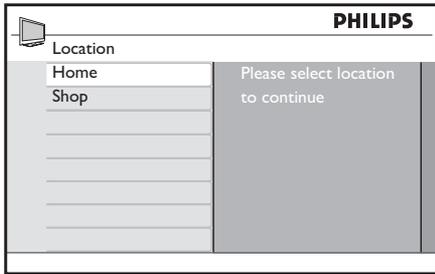
If your country is not in the list, select **...**.

Code	Country	Code	Country
<b>A</b>	Austria	<b>NL</b>	Netherlands
<b>B</b>	Belgium	<b>P</b>	Portugal
<b>CH</b>	Switzerland	<b>S</b>	Sweden
<b>D</b>	Germany	<b>CZ</b>	Czech Republic
<b>DK</b>	Denmark	<b>H</b>	Hungary
<b>E</b>	Spain	<b>HR</b>	Croatia
<b>F</b>	France	<b>PL</b>	Poland
<b>FI</b>	Finland	<b>RO</b>	Romania
<b>GB</b>	Great Britain	<b>RUS</b>	Russia
<b>GR</b>	Greece	<b>SK</b>	Slovakia
<b>I</b>	Italy	<b>SLO</b>	Slovenia
<b>IRL</b>	Ireland	<b>TR</b>	Turkey
<b>L</b>	Luxemburg	<b>...</b>	Others
<b>N</b>	Norway		

3. Press **OK** to enter the **Language** menu.



4. Press **▲** or **▼** to select your language.
5. Press **OK** to enter the **Location** menu.



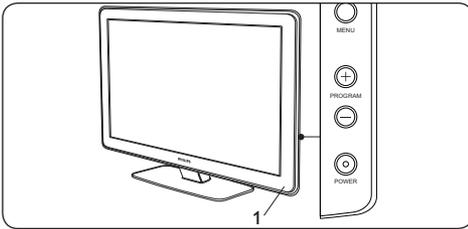
6. Press ▲ or ▼ to select your location.
7. Press **OK** to start the installation.  
The installation takes a few minutes. When complete, the first tuned channel appears on the TV.

## 4 Use your TV

This section helps you perform basic TV operations. Instructions on advanced TV operations are provided in *Section 5 Use more of your TV*.

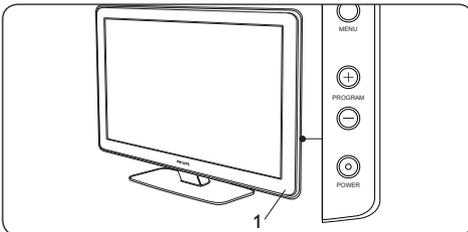
### 4.1 Switch your TV on/off or to standby

#### 4.1.1 Switch on your TV



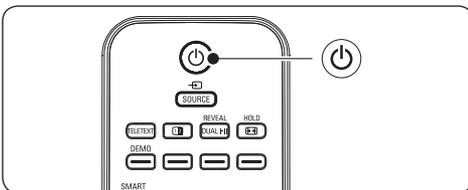
- If the power indicator (1) is off, press **POWER** on the side of the TV.

#### 4.1.2 Switch off your TV



- Press **POWER** on the side of the TV. The power indicator (1) switches off.

#### 4.1.3 Switch your TV to standby

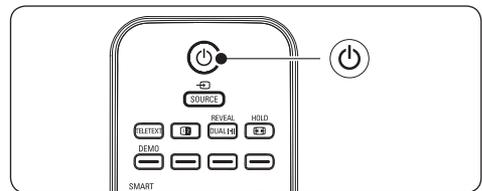


- Press **⏻** (standby) on the remote control. The power indicator switches to standby (red).

#### ✳ Tip

Though your TV consumes very little power when in standby, energy continues to be consumed as long as the mains remain connected and powered. When not in use for extended period of time, switch off and disconnect the TV from the mains.

#### 4.1.4 Switch on the TV from standby



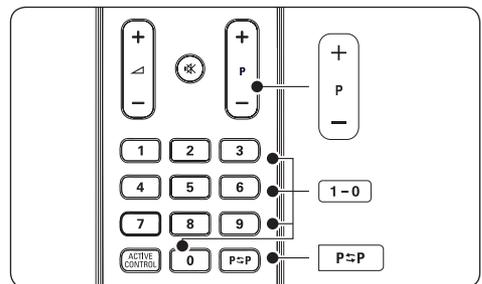
- If the power indicator is in standby (red), press **⏻** on the remote control.

#### ⓘ Note

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

## 4.2 Watch TV

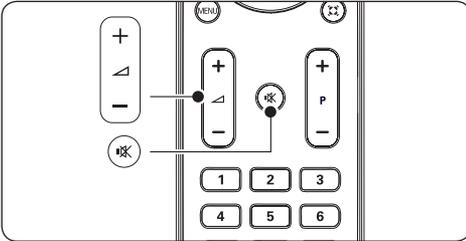
### 4.2.1 Switch channels



- Press a number (1 to 9) or press **P +/-** on your remote control.

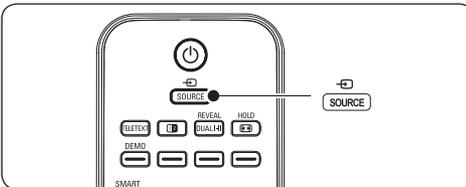
- Press **PROGRAM +/-** on the side controls of the TV.
- Press **P↔P** on the remote control to return to the previously-viewed TV channel.

## 4.2.2 Adjust volume



- Press **▲** (volume) **+** or **-** on the remote control.
- Press **VOLUME +** or **-** on the side controls of your TV.
- Press **⊗** (mute) on the remote control to mute the sound. Press **⊗** (mute) again to unmute the sound.

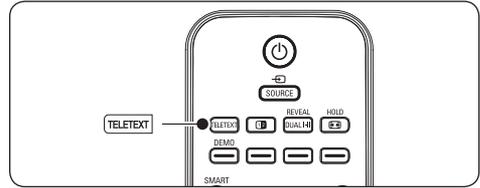
## 4.3 Watch connected devices



1. Switch on the device.
2. Press **SOURCE** on the remote control then select the input your device is connected to.
3. Press **OK** to select the device.

## 4.4 Use teletext

Most TV channels broadcast information via teletext.



1. Press **TELETEXT** on the remote control. The main index page appears.
2. To select a page with the remote control:
  - Enter the page number with the number keys.
  - Press **P +/-** or **▲/▼** to view the next or the previous page.
  - Press a colour key to select one of the colour coded items at the bottom of the screen.
3. Press **TELETEXT** again to switch off teletext.

For advanced information on teletext, see *Section 5.5 Use advanced teletext features.*

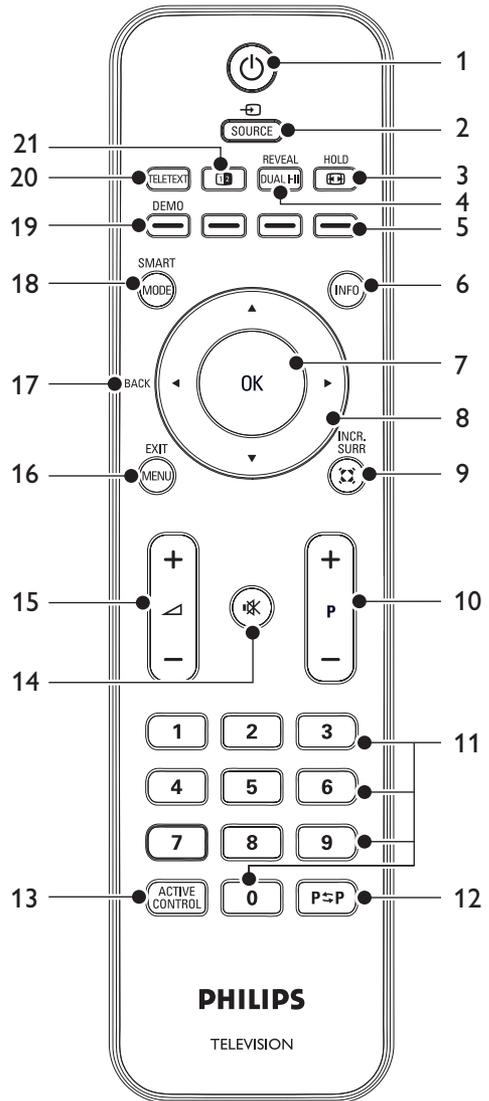
## 5 Use more of your TV

This section helps you perform advanced TV operations, including how to:

- Use TV menus (Section 5.2)
- Adjust picture and sound settings (Section 5.3)
- Change to Shop or Home mode (Section 5.4)
- Use advanced teletext features (Section 5.5)
- Use timers and Child lock (Section 5.6)

### 5.1 Remote control overview

This section provides a detailed overview of remote control features.

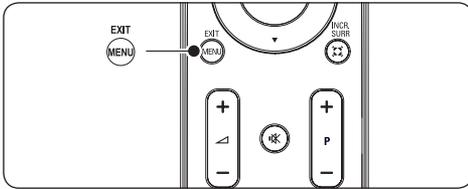


1.  Switches the TV on from standby or back to standby.
2. **SOURCE**  
Selects connected devices.
3.  Selects a picture format.
4. **DUAL I-II**  
Switches **Stereo** and **Nicam Stereo** to **Mono** or selects first language (**DUAL I**) or second language (**DUAL II**) in bilingual programmes.
5. Colour keys  
Selects tasks or teletext pages.
6. **INFO**  
Displays programme information, if available.
7. **OK**  
Accesses a menu or activates a setting.
8. Navigation keys  
Up ▲, Down ▼, Left ◀ and Right ▶ keys navigate the menu.
9. **INCR. SURR**  
Enables Incredible Surround with stereo sources or spatial mode with mono sources.
10. **P +/-**  
Switches to the next or previous channel.
11. Number keys  
Selects a channel, page or setting.
12. **P↔P**  
Returns to the previously-viewed channel.
13. **ACTIVE CONTROL**  
Selects **On** or **Off**.
14.  Mutes or restores sound.
15.  +/-  
Increases or decreases volume.
16. **MENU**  
Toggles the menu on or off.
17. **BACK**  
Returns to the previous menu.
18. **SMART MODE**  
Toggles through predefined picture and sound settings.
19. **DEMO**  
Toggles the **Demo** menu on or off.
20. **TELETEXT**  
Toggles teletext on or off.
21.  Splits the current channel or source on the left of the screen. Teletext appears on the right.

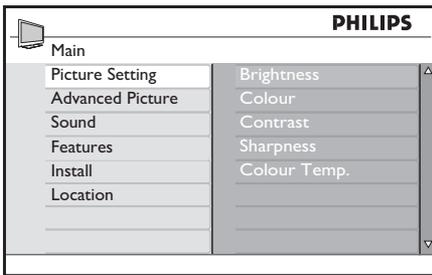
## 5.2 Use TV menus

On-screen menus help you install your TV, adjust picture and sound settings and access other features. This section describes how to navigate the menus.

### 5.2.1 Access the main menu



1. Press **MENU** on the remote control to display the main menu.



2. Press **MENU** to exit.

The main menu offers the following items:

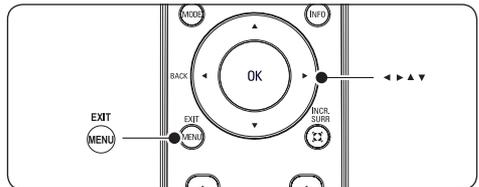
- **Picture Setting**  
To adjust picture settings such as Brightness, Colour, Contrast, Sharpness and Colour Temp. (Colour Temperature). See *Section 5.3 Adjust Picture and Sound settings.*
- **Advanced Picture**  
To turn on and off advanced picture settings such as Contrast+, Active Control, and Noise Reduction. See *Section 5.3 Adjust Picture and Sound settings.*
- **Sound**  
To adjust sound settings such as Equalizer, Balance, Auto Vol. Leveller (Auto Volume Leveller), and Incr. Surround (Incredible

Surround). See *Section 5.3 Adjust Picture and Sound settings.*

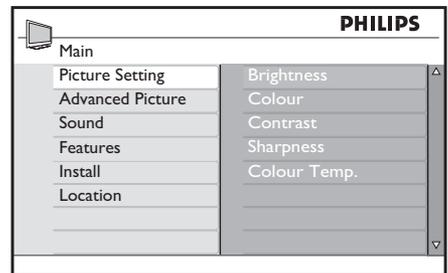
- **Features**  
To turn on or off and to adjust special features such as Timer, Child Lock, and Parental Control. See *Section 5.6 Use Timers and Child Lock.*
- **Install**  
To select and display Language, Country, Auto Store, Manual Store, Sort, Name, and Fav. Program (Favourite Program). See *Section 6 Install channels.*
- **Location**  
To change your TV location to Home or Shop mode. See *Section 5.4 Change to Shop or Home mode.*

### 5.2.2 Use the main menu

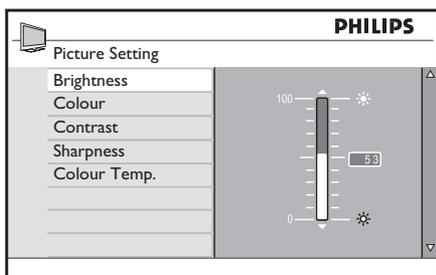
The following example describes how to use the main menu.



1. Press **MENU** on the remote control to display the main menu.



2. Press **▶** to enter **Picture Setting**.



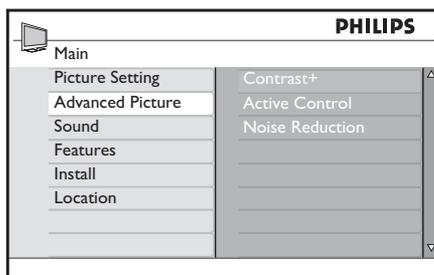
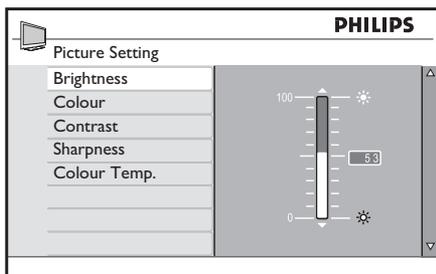
3. Press ▲ or ▼ to select a setting.
4. Press ► to enter the setting.
5. Press ▲ or ▼ to adjust the setting.
6. Press ◀ to return to **Picture** settings, or press **MENU** to exit.

## 5.3 Adjust picture and sound settings

This section describes how to adjust picture and sound settings.

### 5.3.1 Adjust picture settings

1. Press **MENU** on the remote control and select **Picture Setting** or **Advanced Picture**.

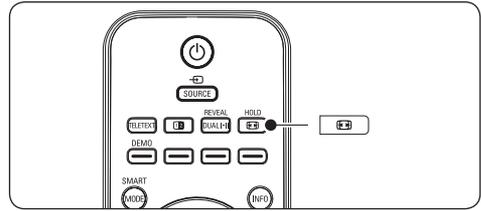
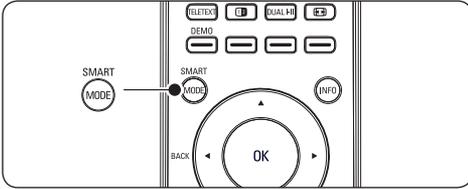


2. Press ► to enter.
3. Press ▲ or ▼ to select a setting.
  - **Brightness**  
Changes the level of light in the picture.
  - **Colour**  
Changes the level of saturation.
  - **Contrast**  
Changes the level of bright parts in the picture keeping the dark parts unchanged.
  - **Sharpness**  
Changes the level of sharpness of fine details.
  - **Colour Temp.**  
Sets the colours to **Normal**, **Warm** (reddish) or **Cool** (bluish).
  - **Contrast+**  
Changes the level of bright parts in the picture keeping the dark parts unchanged.
  - **Active Control**  
Corrects all incoming signals to provide the best picture possible. Switches Active control **On** or **Off**.
  - **Noise Reduction**  
Filters and reduces the noise in the picture. Set the level to **Minimum**, **Medium**, **Maximum** or **Off**.

### 5.3.2 Use Smart Mode

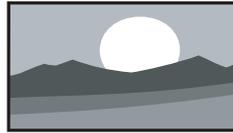
Apart from manually adjusting picture settings, you can use smart settings to set your TV to a predefined picture and sound setting.

1. Press **SMART MODE** on the remote control to toggle through a selection of predefined picture and sound settings.



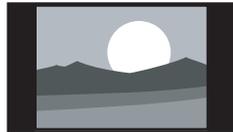
2. Press ◀ or ▶ to select one of the following picture formats:

- **Widescreen**



Stretches the classic 4:3 format to 16:9.

- **4:3**



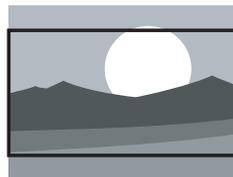
Displays the classic 4:3 format.

- **Movie Expand 14:9**



Scales the classic 4:3 format to 14:9.

- **Movie Expand 16:9**



Scales the classic 4:3 format to 16:9.

### Summary of smart modes

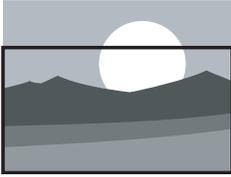
- **Vivid**  
Applies brilliant picture and sound settings suitable for bright surroundings.
- **Standard**  
Applies natural picture and sound settings suitable for most living room conditions.
- **Movie**  
Applies dynamic picture and sound settings suitable for a complete cinematic experience.
- **Game**  
Optimise for PCs, game consoles and play stations.
- **Power Saver**  
Eco friendly settings to reduce power consumption.
- **Personal**  
Based on the settings you customised in the **Picture Setting** menu.

### 5.3.3 Change picture format

Change the picture format to suit your content.

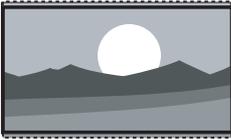
1. Press  on your remote control.

- **Subtitle Zoom**



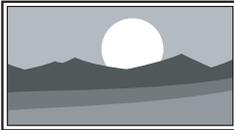
Displays 4:3 pictures using the full surface of the screen leaving the sub-titles visible. Part of the top of the picture is clipped off.

- **Super Zoom**



Removes the black bars on the side of 4:3 broadcasts with minimal distortion.

- **Unscaled (only for PC)**

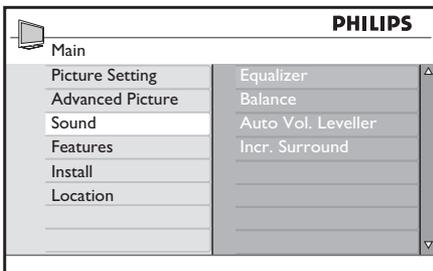


Maximum sharpness though distortion may appear on borders. Also black bars may appear with pictures from your PC.

### 5.3.4 Adjust sound settings

This section describes how to adjust sound settings.

1. Press **MENU** on the remote control and select **Sound**.
2. Press **▶** to enter the list.

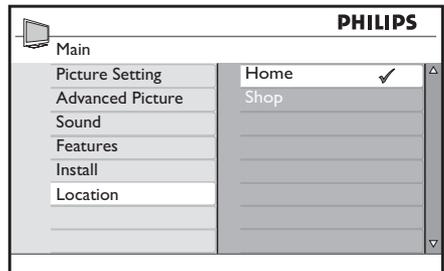


3. Press **▲** or **▼** to select one of the following settings:

- **Equalizer**  
Adjusts each individual frequency (tone).
- **Balance**  
Sets the balance of the left and right speakers to best fit your listening position.
- **Auto Vol. Leveller**  
Controls the sudden sound level increase when changing channels or during commercial break.
- **Incr. Surround**  
Enhances stereo effect. Select **Incr. Surround** or **Stereo** (when in stereo mode) or **Mono** or **Spatial** (when in mono mode).

### 5.4 Change to Shop or Home mode

1. Press **MENU** on the remote control and select **Location**.
2. Press **▶** to enter the **Location** menu.



3. Use **▲** or **▼** to select the TV mode:

- **Shop**  
Sets smart settings to **Vivid**, ideal for a shop environment. The flexibility to change settings is limited.
- **Home**  
Gives home users the full flexibility to change all TV settings.

4. Press **OK** to confirm.
5. Press **MENU** to exit.

## 5.5 Use teletext features

Your TV has a 1,000 page memory that stores broadcasted teletext pages and sub pages. The teletext memory reduces page loading time.

### 5.5.1 Select teletext sub pages

A teletext page can hold several sub pages. Sub pages are displayed at the bottom of the page.

1. Press **TELETEXT** on the remote control.
2. Select a teletext page.
3. Press ◀ or ▶ to select a sub page.

### 5.5.2 Use dual screen teletext

Enabling dual screen teletext displays your channel or source on the left of the screen. Teletext is displayed on the right.

1. Press **12** (Dual screen) on your remote control to enable dual screen teletext.
2. Press **TELETEXT** to switch off teletext.

### 5.5.3 Enlarge teletext pages

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

1. Press **TELETEXT** on the remote control and select a teletext page.
2. Press ▲ or ▼ on the remote control to enlarge the top half of the page.
3. Press again to enlarge the bottom half of the page.
4. Press again to return to normal page size.

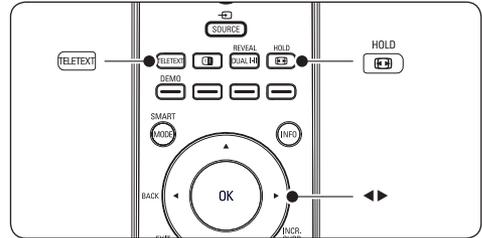
### 5.5.4 Hold teletext pages

Certain pages contain sub-pages which are automatically displayed successively.

1. Press **TELETEXT** on the remote control.
2. Press **HOLD** to stop or resume sub-page

progression.

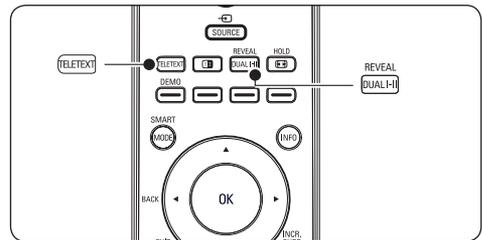
3. Press ◀ or ▶ to select previous or next sub-page.



### 5.5.5 Reveal hidden information

You can hide or reveal hidden information on a page, such as solutions to riddles or puzzles.

1. Press **TELETEXT** on the remote control.
2. Press **REVEAL** to reveal or hide information.



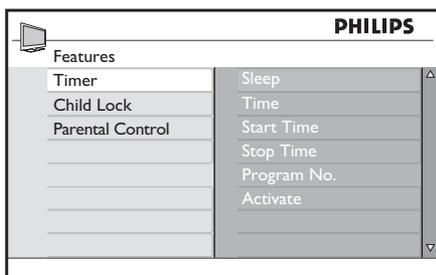
## 5.6 Use timers and Child lock

This section describes how to switch the TV on or off at a specified time and to use Child lock.

### 5.6.1 Automatically switch the TV to standby (Sleep timer)

Sleeptimer switches the TV to standby after a defined period of time.

1. Press **MENU** on the remote control and select **Features > Timer > Sleep**.



2. Press ► to enter the **Sleep** menu.
3. Press ▲ or ▼ to set the sleep time. If set to **Off**, the Sleep timer is switched off.
4. Press **OK** to activate the **Sleep** timer.

### ⊖ Note

You can always switch off your TV earlier or reset Sleep timer during the countdown.

## 5.6.2 Automatically switch the TV on (Timer)

On timer switches the TV to a specified channel at a specified time, from standby.

1. Press **MENU** on the remote control and select **Features > Timer**.
2. Press ► to enter the **Timer** menu.
3. Use ▲ or ▼, ◀ or ▶ to select and enter the menu items to set a time, start time, stop time, program no., and frequency.
4. Press **OK** to confirm.
5. Press **MENU** to exit.

### ⓘ Tip

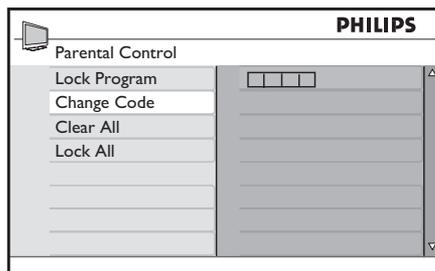
To switch off On timer, select **Off** in **Features > Timer > Activate**.

## 5.6.3 Lock TV channels (Parental Control)

Lock TV channels with a four digit code to prevent children from watching unauthorised content.

### To set or change the PIN code

1. Press **MENU** on the remote control and select **Features > Parental Control > Change Code**.



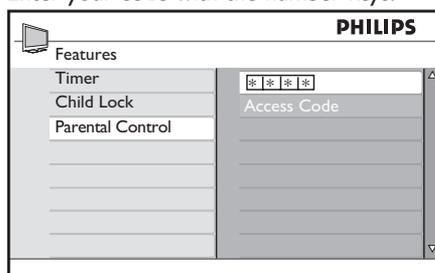
2. Press ► to enter the code setup.
3. Enter your code with the number keys. The **Features** menu reappears with a message confirming that your code is created or changed.

### ✳ Tip

If you forget your code, enter '0711' twice to override any existing codes.

### To enter the Parental Control menu

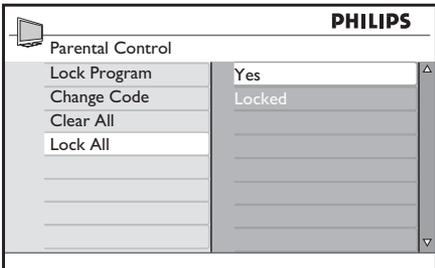
1. Press **MENU** on the remote control and select **Features > Parental Control**.
2. Press ► to enter your code.
3. Enter your code with the number keys.



### To lock or unlock all channels

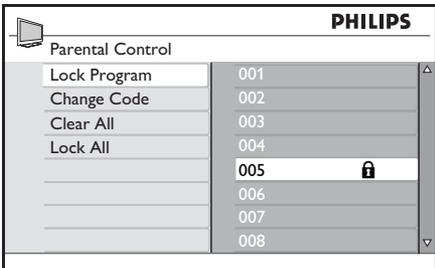
1. In the **Parental Control** menu, select **Lock All** or **Clear All**.

2. Press ► to enter.
3. Press **OK** to confirm your choice.

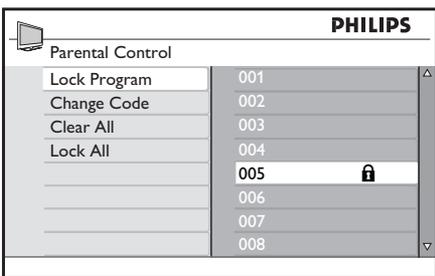


**To lock one or more channels**

1. Press **MENU** on the remote control and select **Features > Parental Control > Lock Program**.
2. Press ► to enter.



3. Press ▲ or ▼ to select a channel you want to lock.
4. Press **OK** to lock the channel. A **🔒** symbol appears next to the program number. To unlock press **OK** again.

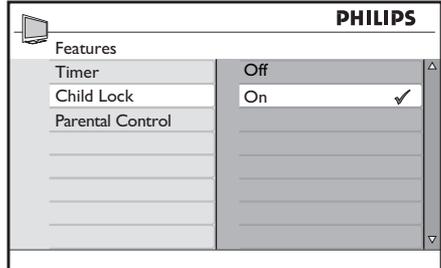


5. Repeat the above steps to lock or unlock more channels.

**5.6.4 Lock the side controls (Child Lock)**

You can lock the side controls of the TV to prevent children from changing channels. You can still change channel with the remote control.

1. Press **MENU** on the remote control and select **Features > Child Lock**.
2. Press ▲ or ▼ to select **On** or **Off**.



3. Press **OK** to confirm.
4. Press **MENU** to exit.

## 6 Install channels

This chapter provides instructions on how to reinstall channels as well as other useful channel installation features.

### 6.1 Automatically install channels

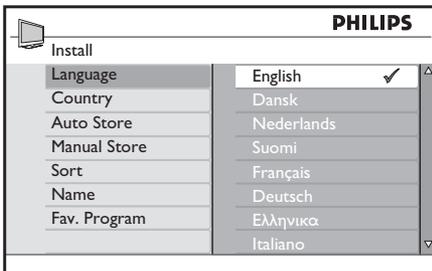
This section describes how to search and store channels automatically.

#### Step 1 Select your menu language

##### Note

Skip to *Step 3 Install channels* if your language settings are correct.

1. Press **MENU** on the remote control and select **MENU > Install > Language**.



2. Press **▶** to enter the **Language** menu.
3. Press **▲** or **▼** to select your language.
4. Press **OK** to confirm.
5. Press **◀** to return to the **Install** menu.

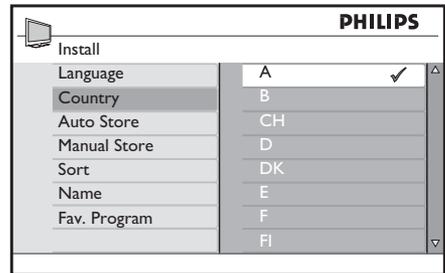
#### Step 2 Select your country

Select the country where you are located. The TV installs and arranges channels according to your country.

##### Note

Skip to *Step 3 Install channels* if your country settings are correct.

1. In the **Install** menu, press **▼** to select **Country**.



2. Press **▶** to enter the list.
3. Press **▲** or **▼** to select your country.

Refer to the table below for the list of countries available for selection.

##### Tip

If your country is not in the list, select **...**.

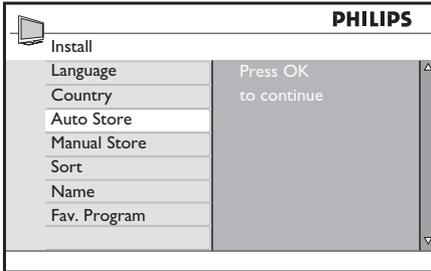
Code	Country	Code	Country
<b>A</b>	Austria	<b>NL</b>	Netherlands
<b>B</b>	Belgium	<b>P</b>	Portugal
<b>CH</b>	Switzerland	<b>S</b>	Sweden
<b>D</b>	Germany	<b>CZ</b>	Czech Republic
<b>DK</b>	Denmark	<b>H</b>	Hungary
<b>E</b>	Spain	<b>HR</b>	Croatia
<b>F</b>	France	<b>PL</b>	Poland
<b>FI</b>	Finland	<b>RO</b>	Romania
<b>GB</b>	Great Britain	<b>RUS</b>	Russia
<b>GR</b>	Greece	<b>SK</b>	Slovakia
<b>I</b>	Italy	<b>SLO</b>	Slovenia
<b>IRL</b>	Ireland	<b>TR</b>	Turkey
<b>L</b>	Luxemburg	<b>...</b>	Others
<b>N</b>	Norway		

4. Press **◀** to return to the **Install** menu.

### Step 3 Install channels

Your TV searches and stores all available TV channels.

1. In the **Install** menu, press **▼** to select **Auto Store**.



2. Press **OK** to start installation.  
The installation may take a few minutes.  
When complete, the first tuned channel appears on the TV.
3. Press **MENU** to exit.

#### Tip

If you want to rename, reorder or uninstall stored channels, see *Section 6.5 Rearrange channels*.

## 6.2 Manually install channels

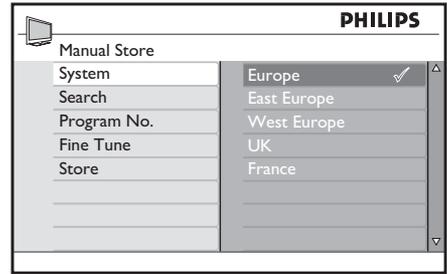
This section describes how to search and store TV channels manually.

### Step 1 Select your system

#### Note

Skip to *Step 2 Search and store new TV channels* if your system settings are correct.

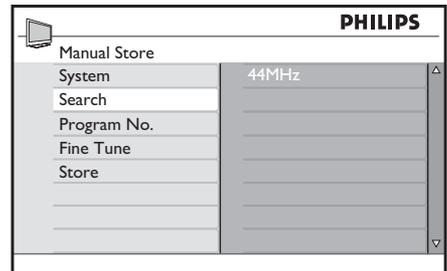
1. Press **MENU** on the remote control and select **Install > Manual Store > System**.



2. Press **▶** to enter the **System**.
3. Press **▲** or **▼** to select the appropriate system.
4. Press **◀** to return to the **Manual Store** menu.

### Step 2 Search and store new TV channels

1. Press **MENU** on the remote control and select **Install > Manual Store > Search**.



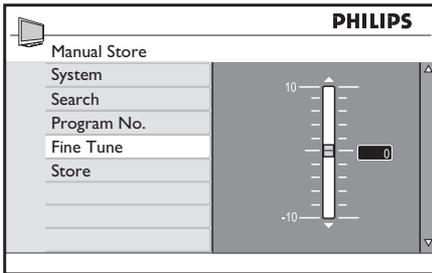
2. Press **▶** to enter the **Search** menu.
3. Press the number keys on the remote control to manually enter the three digit frequency.
4. Press **◀** when the new channel is found.
5. Press **▼** to select **Program No**.
6. Press **▲** or **▼** to select a program number. Alternatively, press the number keys on the remote control to enter a number.
7. Press **▼** to select **Store**.
8. Press **▶** to store the new found channel under a new number. **Stored** appears.

9. Press **MENU** to exit.

### 6.3 Fine tune channels

You can manually fine tune channels when reception is poor.

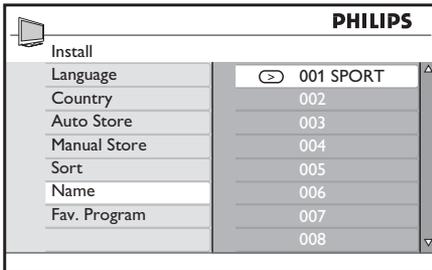
1. Press **MENU** on the remote control and select **Install > Manual Store > Fine Tune**.
2. Press **▶** to enter the **Fine Tune** menu.



3. Press **▲** or **▼** to adjust the frequency.
4. Press **◀** when done.
5. Press **▼** to select **Store**.
6. Press **▶** to store the fine tuned channel under the current channel number. **Stored** appears.
7. Press **MENU** to exit.

### 6.4 Name or rename channels

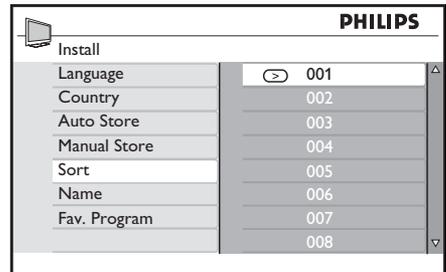
1. Press **MENU** on the remote control and select **Install > Name**.
2. Press **▶** to enter the **Name** menu.



3. Press **▲** or **▼** to select the channel you want to rename.
4. Press **▶** to start.
5. Press **▲** and **▼** to select the characters or numbers in the list. You can choose up to five characters or numbers.
6. Press **◀** to finish.
7. Repeat the above steps to name or rename more channels.
8. Press **MENU** to exit.

### 6.5 Rearrange channels

1. Press **MENU** on the remote control and select **Install > Sort**.
2. Press **▶** to enter the **Sort** menu.



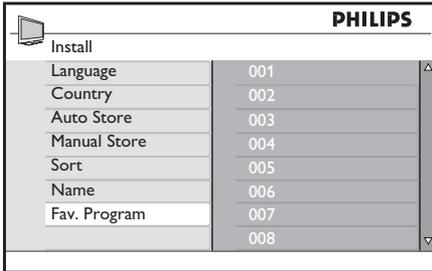
3. Press **▲** or **▼** to select the channel you want to rearrange.
4. Press **▶** to confirm.
5. Press **▲** or **▼** to select the channel you want to change to.
6. Press **◀** to confirm.
7. Repeat the above steps to rearrange more channels.
8. Press **MENU** to exit.

### 6.6 Create a favourite list

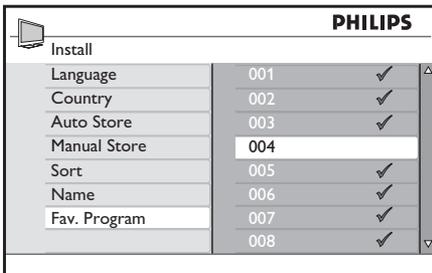
Press **P +/-** on the remote control to scan channels in your selected list. You can select channels that are not in your list by pressing the number keys.

## Add or remove programmes from your favourite list

1. Press **MENU** on the remote control and select **Install > Fav. Program**.



2. Press **▶** to enter the **Fav. Program** menu.
3. Press **▲** or **▼** to select the channel you want to add or remove from the list.



4. Press **▶** to add or remove the channel from your list.

### Note

A ✓ symbol next to the program number means that it is in the favourite list.

5. Press **◀** to return to the previous menu.
6. Press **MENU** to exit.

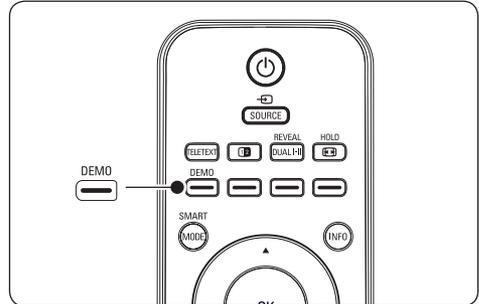
## 6.7 Start a demo

### Note

Only for Widescreen format.

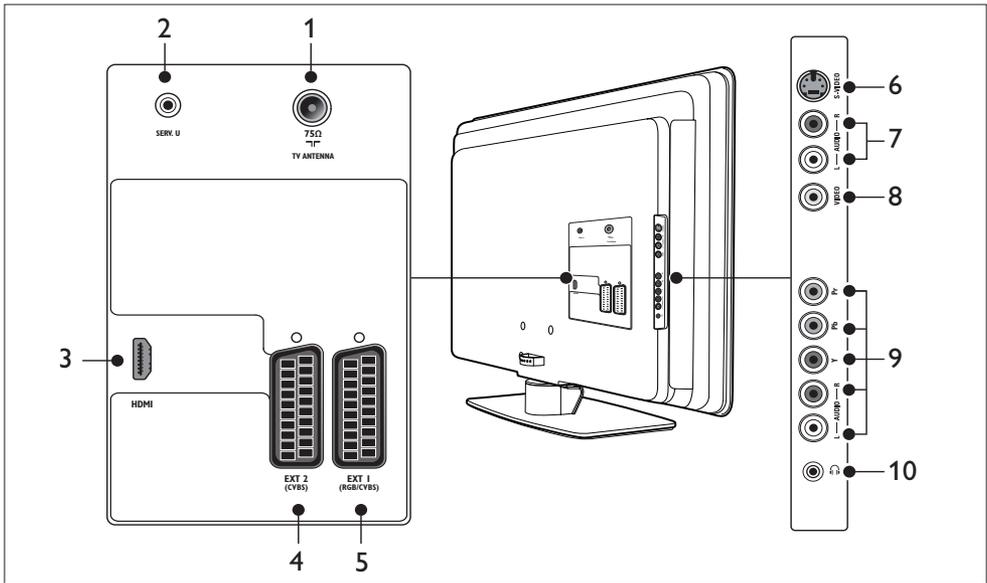
The demo mode shows the difference between the new video technologies available on your TV and conventional TVs without these features.

1. Press **DEMO** on the remote control to turn on the demo mode.  
The screen is split into half. **On** shows the picture with enhanced picture quality while **Off** shows the picture with standard picture quality.
2. Press **DEMO** again to turn off the mode.



# 7 Connect devices

## 7.1 Connection overview



### Back connectors

- 1. TV ANTENNA**
- 2. SERV. U**  
For service use (do not insert the headphone here).
- 3. HDMI**  
HDMI input connectors for Blu-ray Disc players, digital receivers, game consoles and other high-definition devices.
- 4. EXT 2**  
Second SCART connector. Supports Audio L/R, CVBS in/out, S-Video.
- 5. EXT 1**  
First SCART connector for DVD players, VCRs, digital receivers, game consoles and other SCART devices. Supports Audio L/R, CVBS in/out, RGB.

### Side connectors

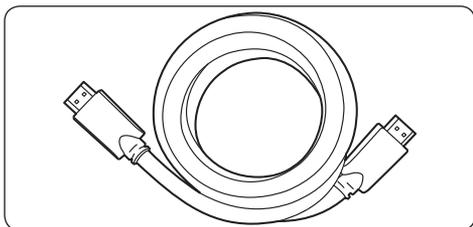
- 6. S-VIDEO**  
S-Video input connector for S-Video devices.
- 7. AUDIO L/R**  
Audio L/R input connectors for composite and S-Video devices.
- 8. VIDEO (CVBS)**  
Video input cinch connector for composite devices.
- 9. Component (Y Pb Pr)**  
Component video (Y Pb Pr) and Audio L/R input connectors for DVD players, game consoles and other component video devices.
- 10. Headphones**  
Stereo mini-jack.

## 7.2 Select connection quality

This section describes how you can enhance your audio visual experience by connecting your devices with the best possible connectors.

After connecting your devices, be sure to enable them as described in *Section 7.4 Setup devices*.

### 7.2.1 HDMI - Highest quality ★★★★★



HDMI produces the best audio visual quality possible. Both audio and video signals are combined in one HDMI cable, providing an uncompressed, digital interface between your TV and HDMI devices. You must use HDMI to experience full high-definition video. You must also use HDMI cables to enable Philips EasyLink as described in *Section 7.5 Use Philips EasyLink*.

#### ✱ Tip

If your PC only has a DVI connector, use a DVI-HDMI adaptor to connect your device to a HDMI connector at the back of the TV. You must connect a separate audio cable from the device to the AUDIO IN mini-jack connector.

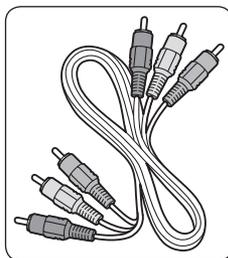
#### ⊞ Note

Philips HDMI supports HDCP (High-bandwidth Digital Contents Protection). HDCP is a form of Digital Rights Management that protects high definition content in DVD or Blu-ray Discs.

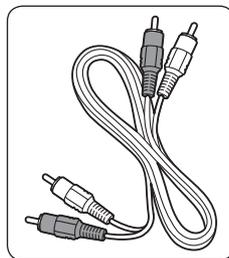
### 7.2.2 Component (Y Pb Pr) - High quality ★★★★★

Component (Y Pb Pr) video provides better picture quality than S-Video or composite video connections. Though component video supports high-definition signals, picture quality is lower than HDMI and is analogue.

When connecting a component video cable, match the cable colours to the connectors on the side of the TV. Also, connect a Audio L/R cable to the red and white Audio L/R input connectors here.

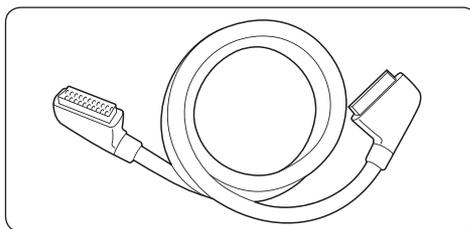


Component video cable  
- Red, Green, Blue



Audio L/R cable  
- Red, White

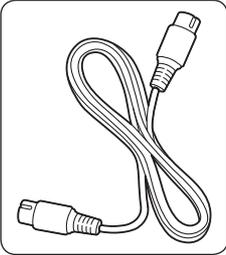
### 7.2.3 SCART - Good quality ★★★



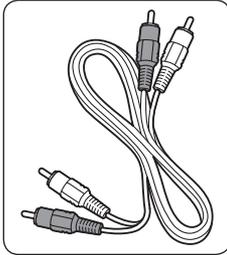
SCART combines audio and video signals in one cable. Audio signals are stereo, while video signals can be composite or S-Video quality. SCART does not support high-definition video and is analogue. Two SCART connectors are provided on the TV, EXT 1 and EXT 2.

### 7.2.4 S-Video - Good quality ★★

An analogue connection, S-Video provides better picture quality than composite video. When connecting your device with S-Video, plug the S-Video cable to the S-Video connector on the side of the TV. You must connect a separate Audio L/R cable from the device to the red and white Audio L/R connectors on the side of the TV.



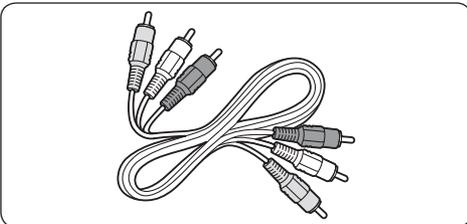
S-Video cable



Audio L/R cable  
- Red, White

### 7.2.5 Composite - Basic quality ★

Composite video provides basic analogue connectivity, usually combining a (yellow) video cinch cable with (red and white) Audio L/R cinch cable. Match the cable colours when connecting to the composite Video and Audio L/R input connectors on the side of the TV.



Composite audio/video cable - Yellow, red and white

## 7.3 Connect devices

This section describes how to connect various devices with different connectors and supplements examples provided in the **Quick Start**.

### ⚠ Caution

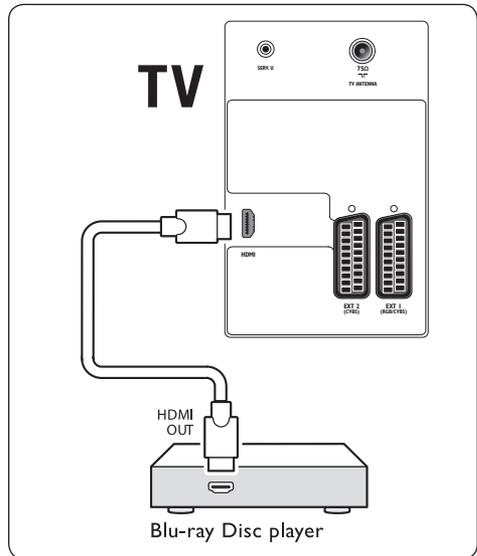
Disconnect the mains cord before connecting devices.

### 📌 Note

Different types of connectors may be used to connect a device to your TV, depending on availability and your needs.

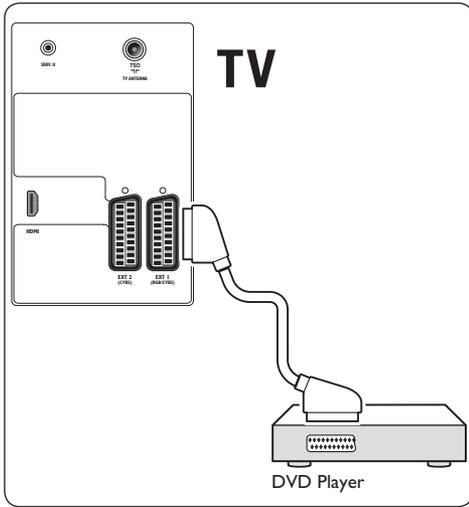
### 7.3.1 Blu-ray Disc player

For full high-definition video, connect a HDMI cable as illustrated:



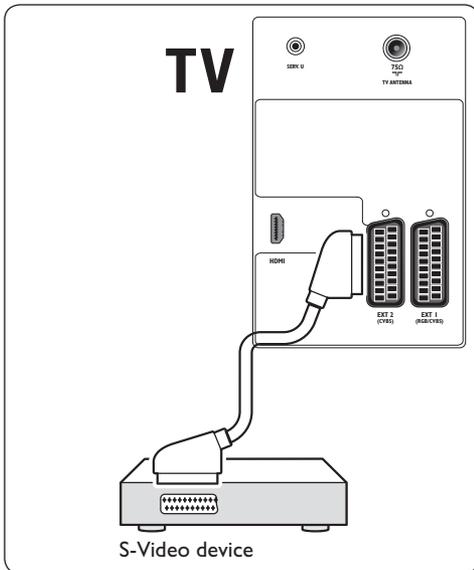
### 7.3.2 DVD player

To playback DVD, connect a SCART cable to EXT 1.



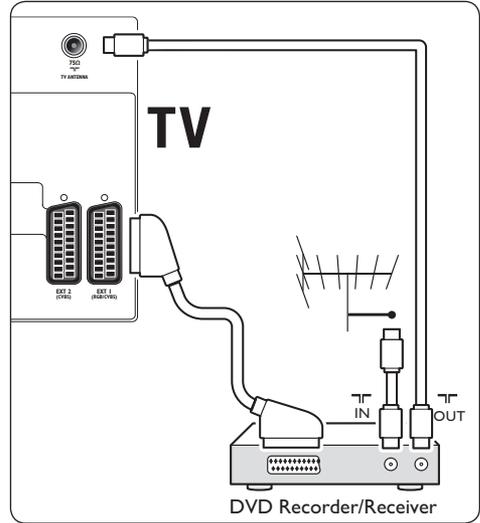
### 7.3.3 S-Video device

To playback a S-Video device, connect a SCART cable to EXT2 or S-Video connector at the side of the TV.



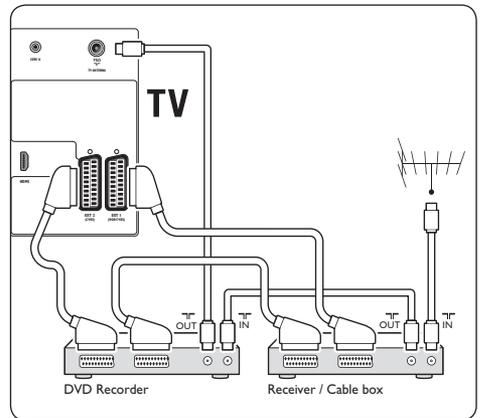
### 7.3.4 Combined DVD recorder and receiver

To receive channels via antenna and record programs on a combined DVD recorder and receiver; connect two antenna cables and one SCART cable as illustrated:



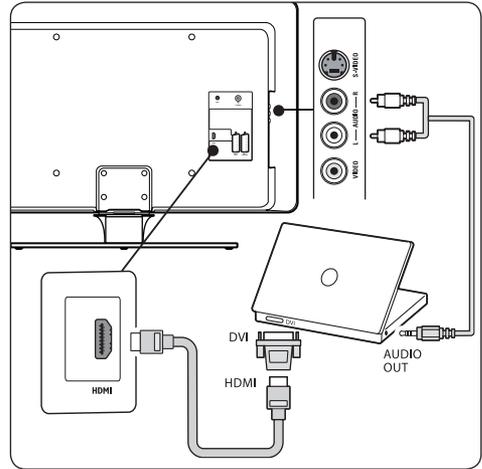
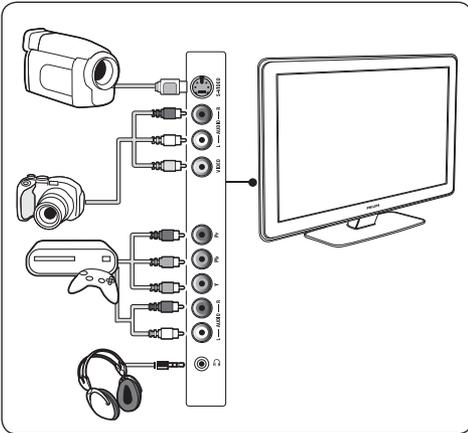
### 7.3.5 Separate DVD recorder and receiver

To receive channels via antenna and record programmes on a separate DVD recorder and receiver; connect three antenna cables and three SCART cables as illustrated:



### 7.3.6 Camcorder, digital camera, game console, or headphones

The most practical connection for a mobile devices may be at the side of the TV. You can, for example, connect the game console to the Y Pb Pr, digital camera or camcorder to VIDEO/S-Video and AUDIO L/R connectors at the side of the TV.



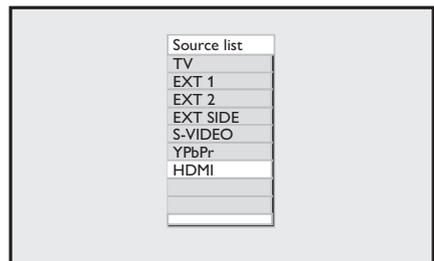
## 7.4 Setup devices

When all devices are connected, you must select the type of device attached to each connector.

### 7.4.1 Select connectors

To select the device connected to the connectors on your TV.

1. Press **SOURCE** on the remote control.



2. Press **▼** or **▲** to select a connector.
3. Press **OK** to confirm.
4. Repeat the procedure to select another connector.
5. Press **SOURCE** to exit.

### 7.3.7 Personal Computer

Before connecting the PC:

- Set the PC monitor refresh rate to 60Hz. See *Section 8 Technical specifications* for a list of computer resolutions.
- Change the TV picture format to **Unscaled** as described in *Section 5.3.3 Change picture format*.

#### To connect a PC to the back of the TV

1. Using a HDMI to DVI cable or a HDMI-to-DVI adaptor (attached to a HDMI cable), connect a HDMI connector on the back of your TV to the DVI connector on your PC.
2. Connect an audio cable from your PC to the AUDIO L and R at the side of the TV.

---

## 7.5 Use Philips EasyLink

Your TV supports Philips EasyLink, which enables one-touch play and one-touch standby between EasyLink-compliant devices. Compliant devices must be connected to your TV via HDMI and assigned as described in *Section 7.4.1 Select connectors*.

---

### 7.5.1 Use 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. For example, when you press **one touch play** on your DVD's remote control, your Philips TV will automatically switch to the correct channel to show the DVD content.

---

### 7.5.2 Use one-touch standby

When you connect your TV to devices that support one-touch standby, you can use your TV's remote control to put devices to standby. Press and hold the  button on the TV's remote control for 3-4 seconds.

---

## 8 Technical specifications

### Supported display resolutions

- **HDMI/DVI-PC formats**  
640 x 480 @ 60Hz, 72Hz, 75Hz, 85Hz  
720 x 480 @ 60Hz\*  
800 x 600 @ 60Hz, 72Hz, 75Hz, 85Hz  
1024 x 768 @ 60Hz, 72Hz, 75Hz, 85Hz  
1280 x 720 @ 60Hz\*

\*When you connect a PC that supports resolutions of 480p or 720p, the **Mode Selection** feature is available in the **Features** menu. The **Mode Selection** feature allows you to select between the **PC** and **HD** mode.

- **HDMI Video formats**  
720 x 480p @ 60Hz  
720(1440) x 480i @ 60Hz  
720 x 576p @ 50Hz  
720(1440) x 576i @ 50Hz  
1280 x 720p @ 60Hz  
1280 x 720p @ 50Hz  
1920 x 1080i @ 50Hz, 60Hz  
1920 x 1080p @ 24Hz, 25Hz, 30Hz, 50Hz, 60Hz

### Tuner / Reception / Transmission

- Antenna input: 75ohm coaxial (IEC75)
- TV system: PAL Multi
- Video playback: NTSC, SECAM, PAL

### Remote control

- Batteries: 2 x AAA size (LR03 type)

### Connections (Rear)

- EXT 1 (SCART): Audio L/R, CVBS in/out, RGB
- EXT 2 (SCART): Audio L/R, CVBS in/out, S-Video
- HDMI
- TV ANTENNA

### Connections (Side)

- S-Video
- Video (CVBS) in
- AUDIO L/R in
- Component (Y Pb Pr), Audio L/R in
- Headphones out (stereo mini-jack)

### Power

- Mains power: AC 220-240V (±10%)
- Power and standby power consumption: See technical specifications at [www.philips.com](http://www.philips.com)
- Ambient temperature: 5°C - 35°C

---

**Specifications are subject to change without notice. For detailed specifications of this product go to [www.philips.com/support](http://www.philips.com/support).**

## 9 Troubleshooting

This section describes commonly-encountered issues and accompanying solutions.

### 9.1 General TV issues

#### The TV does not switch on:

- Unplug the mains cord, wait for one minute and plug in the mains again.
- Verify that the mains cord is properly connected and that the mains are powered.

#### The remote control is not working properly:

- Verify 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:

- Turn off the TV and unplug the mains cord. Wait until the TV cools down before reinserting the mains cord and turning on the TV. If the blinking occurs again, contact our Customer Support Centre.

#### You forgot your code to unlock Child lock

- Enter '0711' as described in *Section 5.6.3 Lock TV channels (Parental Control)*.

#### The TV menu is in the wrong language

- See *Section 6.1 Automatically install channels* for instructions on how to change the TV menu to your preferred language.

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

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

### 9.2 Picture issues

#### The power indicator is on, but there is no picture:

- Verify if the antenna is connected properly.
- Verify if the correct device is selected.

#### There is sound but no picture:

- Verify that picture settings are correctly set. See *Section 5.3.2 Adjust picture settings*.

#### You receive poor TV reception from an antenna connection:

- Check that the antenna is properly connected to the TV.
- Loud speakers, unearthed audio devices, neon lights, high buildings or mountains can influence the picture quality. Try to improve the reception quality by changing the antenna direction or moving devices away from the TV.
- Verify if the correct TV system is selected for your region. See *Section 6.2 Manually install channels*.
- If reception on only one channel is poor, try to fine tune this channel. See *Section 6.3 Fine tune channels*.

#### You receive poor picture quality from connected devices:

- Check that the devices are connected properly. Also, be sure to assign devices to connectors as described in *Section 7.4.1 Select connectors*.
- Verify that picture settings are correctly set. See *Section 5.3.1 Adjust picture settings*.

### The TV did not save my settings:

- Verify that the TV is set to **Home** mode, which offers you complete flexibility to change settings. See *Section 5.4 Change to Shop or Home mode.*

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

- Try using a different picture format as described in *Section 5.3.3 Change picture format.*
- Assign your device to connectors as described in *Section 7.4.1 Select connectors.*

### The picture position on screen is not correct:

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

---

## 9.3 Sound issues

### There is picture but no sound from the TV:

#### Note

If no audio signal is detected, the TV automatically switches off audio output and 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.

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

- Check **Sound** settings as described in *Section 5.3.4 Adjust sound settings*, verifying that **Stereo** selected and **Equalizer** settings are correct. If needed, try resetting audio settings to standard.

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

- Verify that **Balance** correctly set as described in *Section 5.3.4 Adjust sound settings.*

---

## 9.4 HDMI connection issues

### You encounter problems with HDMI devices

- HDCP support can delay the time taken for a TV to display content from a device.
- If the TV does not recognise the device and the screen displays no picture, try switching from one device to another and back again to restart.
- If you experience intermittent sound disruptions, check the user manual of the HDMI device to verify that output settings are correct. Alternatively, try connecting the audio signal from the HDMI device to the TV via AUDIO IN at the back of the TV.
- If a HDMI-to-DVI adaptor or HDMI to DVI cable is used, check that an additional audio cable is connected to AUDIO IN.

---

## 9.5 PC connection issues

### The PC display on my TV is not stable or is not synchronised:

- Check that a supported resolution and refresh rate is selected on your PC. See *Section 8 Technical specifications* for supported resolutions and refresh rates

---

## 9.6 Contact us

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

If the problem remains unresolved, contact the Customer Support Centre 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**

Please have available your TV model and  
serial number before contacting us. These  
numbers are available on the back and side  
of your TV, as well as on the packaging.

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