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EN

User manual

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**PHILIPS**



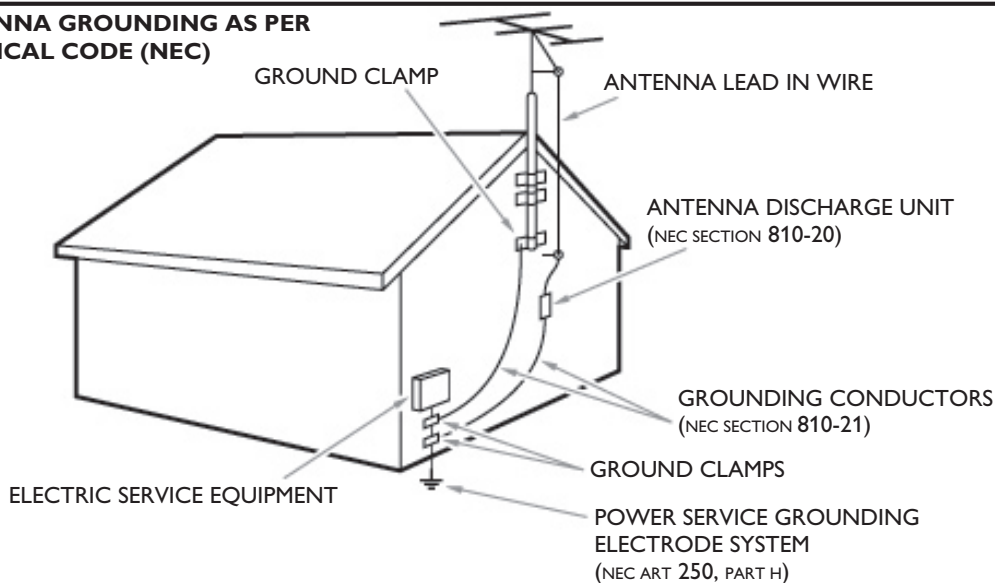


# IMPORTANT SAFETY INSTRUCTIONS

## Read before operating equipment

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and third grounding prong. The wide blade or third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12.  Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This product may contain lead or mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: [www.eiae.org](http://www.eiae.org).
16. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
  - A. The power supply cord or the plug has been damaged; or
  - B. Objects have fallen, or liquid has been spilled into the appliance; or
  - C. The appliance has been exposed to rain; or
  - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
  - E. The appliance has been dropped, or the enclosure damaged.
17. **Tilt/Stability** - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinets design.
  - Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product.
  - Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspiciously fall from the top of the set and cause product damage and/or personal injury.
18. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
19. **Power Lines** - An outdoor antenna should be located away from power lines.
20. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure grounding of the lead-in wire to an antenna-discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode. See Figure below.
21. **Objects and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
  - a) Warning: To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture and objects filled with liquids, such as vases should not be placed on this apparatus.
22. **Battery Usage CAUTION** - To prevent battery leakage that may result in bodily injury, property damage, or damage to the unit:
  - Install all batteries correctly, with + and - alignment as marked on the unit.
  - Do not mix batteries (old and new or carbon and alkaline, etc.)
  - Remove batteries when the unit is not used for a long time.

### EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE (NEC)



**Note to the CATV system installer:** this reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

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# 1 Notice

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Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips Electronics N.V.. or their respective owners. Philips reserves the right to change products at any time without being obliged to adjust earlier supplies accordingly. The material in this manual is believed adequate for the intended use of the system. If the product, or its individual modules or procedures, are used for purposes other than those specified herein, confirmation of their validity and suitability must be obtained. Philips warrants that the material itself does not infringe any United States patents. No further warranty is expressed or implied. Philips cannot be held responsible neither for any errors in the content of this document nor for any problems as a result of the content in this document. Errors reported to Philips will be adapted and published on the Philips support website as soon as possible.

## Pixel characteristics

This LCD product has a high number of color 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.

## 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.

## 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.

## Copyright

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

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



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

Portions of this software are copyright © The FreeType Project ([www.freetype.org](http://www.freetype.org)).

## 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 swiveled 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 results 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 10 cm around the TV for ventilation. Ensure curtains or other objects never cover the ventilation slots on the TV.
- Risk of damage to the TV! Before you connect the TV to the power outlet, ensure that the power voltage matches the value printed on the back of the TV. Never connect the TV to the power outlet if the voltage is different.

- Risk of injury, fire or power cord damage! Never place the TV or any objects on the power cord.
- To easily disconnect the TV power cord from the power outlet, ensure that you have full access to the power cord at all times.
- When you disconnect the power cord, always pull the plug, never the cable.
- Disconnect the TV from the power outlet and antenna before lightning storms. During lightning storms, never touch any part of the TV, power cord or antenna cable.
- Risk of hearing damage! Avoid using earphones or headphones at high volumes or for prolonged periods of time.
- 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.

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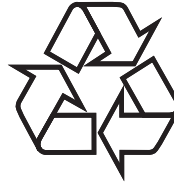
## Screen care

- 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 color fading, wipe off water drops as soon as possible.

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## Recycling



Your product is designed and manufactured with high quality materials and components, which 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:



Never dispose of your product with other household waste. Please inform yourself about the local rules on the separate collection of electrical and electronic products. The correct disposal of your old product helps prevent potentially negative consequences on the environment and human health.

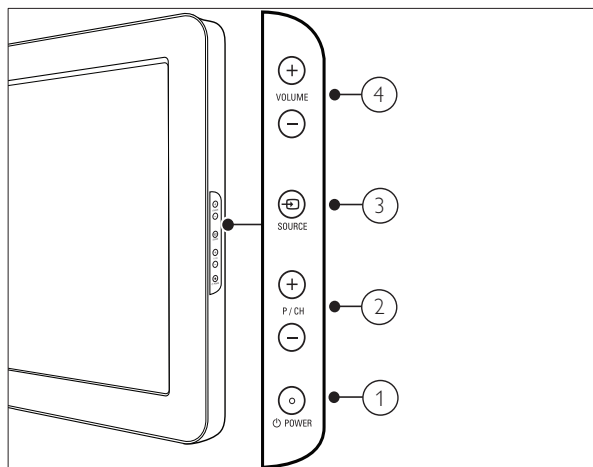
Your product contains batteries covered by the European Directive 2006/66/EC, which cannot be disposed of with normal household waste.

Please inform yourself about the local rules on separate collection of batteries. The correct disposal of batteries helps prevent potentially negative consequences on the environment and human health.

# 3 Your product

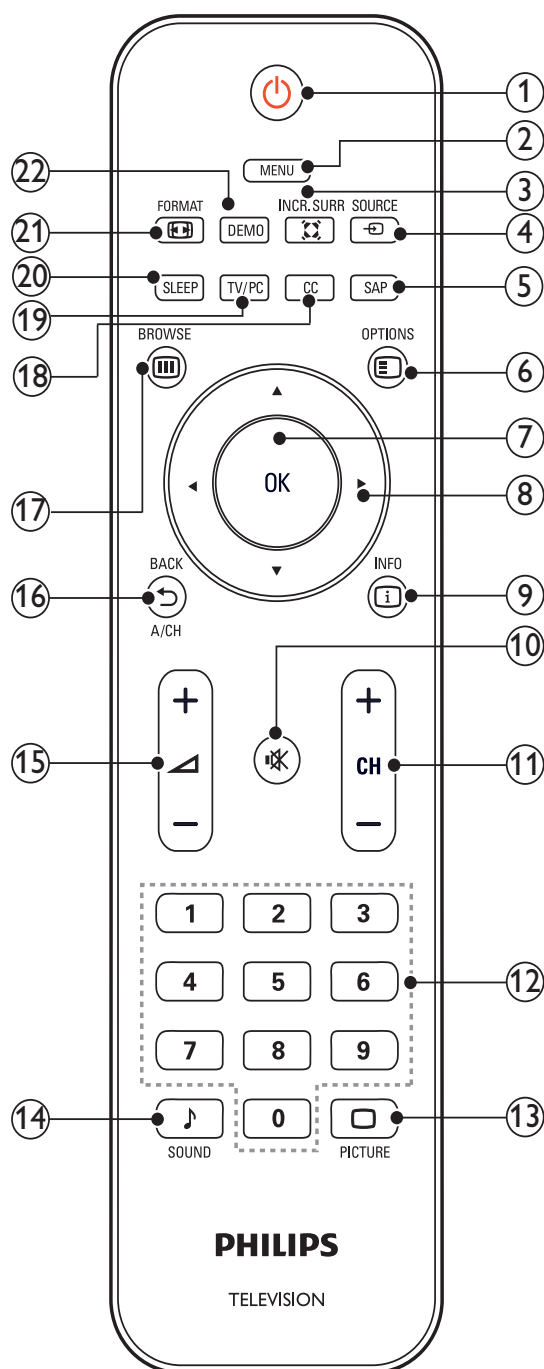
Congratulations on your purchase, and welcome to Philips! To fully benefit from the support that Philips offers, register your product at [www.philips.com/welcome](http://www.philips.com/welcome).














## Side controls and indicators



- ① **POWER:** Switches the TV on or off. The TV 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.

## Remote control

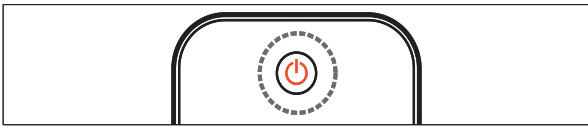
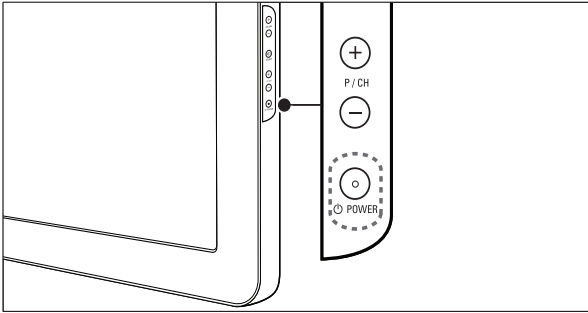


- ①  **(Standby-On)**
  - Switches the TV to standby if the TV is on.
  - Switches the TV on if the TV is in standby.
- ② **MENU**  
Toggles the main menu on or off.
- ③  **INCR. SURR**  
Enables Incredible Surround for stereo sources. Enables spatial mode for mono sources.
- ④  **SOURCE**  
Selects connected devices.
- ⑤ **SAP (Secondary audio program)**  
Selects Secondary Audio Program (SAP)/ Stereo/ Mono when SAP and/or Stereo is broadcast.
- ⑥  **OPTIONS**  
Accesses options relating to the current activity or selection.
- ⑦ **OK**  
Confirms an entry or selection and displays the channel grid, when watching TV.
- ⑧  **(Navigation buttons)**  
Navigates through the menus.
- ⑨  **INFO**  
Displays program information, if available.
- ⑩  **(Mute)**  
Mutes or restores audio output.
- ⑪ **CH +/- (CHANNEL +/-)**  
Switches to the next or previous channel. When the TV menu is on, this functions as Page Up/Down.
- ⑫ **0-9 (Numeric buttons)**  
Selects a channel or setting.
- ⑬  **PICTURE(Smart picture)**  
Launches the smart picture menu.
- ⑭  **SOUND(Smart Sound)**  
Launches the smart sound menu.
- ⑮  **+/- (Volume +/-)**  
Increases or decreases volume.
- ⑯  **BACKA/CH**
  - Returns to a previous screen.
  - Returns to the previously viewed channel.
- ⑰  **BROWSE**  
Switches between channel grid and program list.
- ⑱ **CC**  
Displays closed captions settings.
- ⑲ **TV/PC**  
Toggles between PC mode and previously viewed video mode.
- ⑳ **SLEEP**  
Sets a delay after which the TV switches to standby.
- ㉑  **FORMAT**  
Toggles through available picture formats. Some formats are not available for some picture sources.
- ㉒ **DEMO**  
Toggles the demonstration menu on or off.

## 4 Use your product

This section helps you perform basic operations.

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



#### To switch on

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

#### To switch to standby

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

#### To switch off

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



Tip

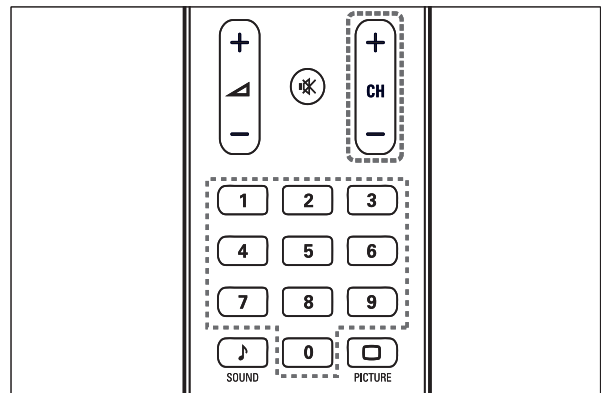
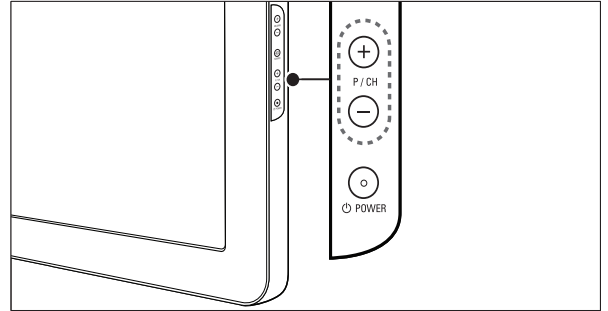
- Though your TV consumes very little power when in standby, energy continues to be consumed. When not in use for an extended period of time, disconnect the TV power cable from the power outlet.



Note

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

### Switch channels



- Press **BACK A/CH** on the remote control to return to the previously viewed channel.
- Press **CH +/-** on the remote control or **P/CH +/-** on the side of the TV.
- Press **OK** to use the channel matrix.
- Enter a channel number using the **Numeric buttons**.



Note

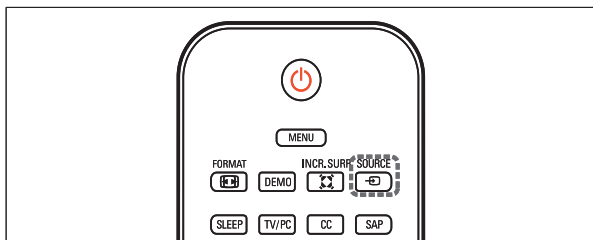
- When you use a favorite list, you can only select those channels in the list (see 'Select a favorite list' on page 12).

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## Watch connected devices

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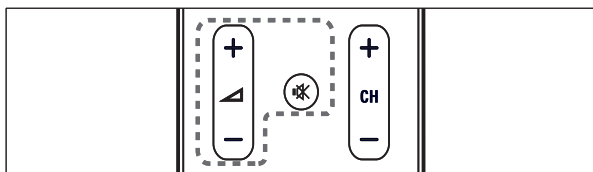
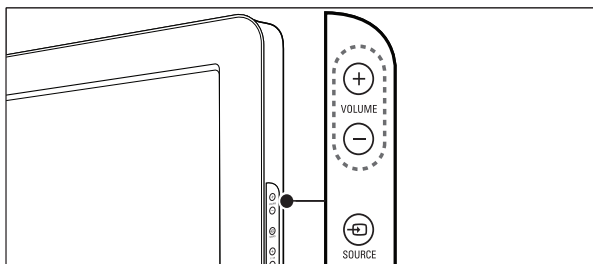
### Use the source button



- 1 Press **SOURCE**.  
↳ The source list appears.
- 2 Press **▲** or **▼** to select the connected device.
- 3 Press **OK** to watch the connected device.

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## Adjust TV volume



#### To increase or decrease volume

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

#### To mute or unmute sound

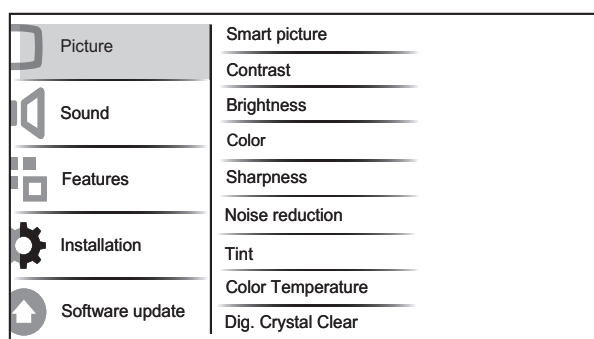
- Press **🔇** to mute the sound.
- Press **🔇** again to restore the sound.

# 5 Use more of your product

## Access TV menus

Menus help you to install channels, change picture and sound settings and access other features.

- 1 Press **MENU**.  
↳ The menu screen appears.



- 2 Press the **▲▼◀▶** to select and navigate through one of the following menus.
  - **[Picture]** Adjusts the picture setting for optimal viewing.
  - **[Sound]** Adjusts the sound setting.
  - **[Features]** Accesses different features like timer, TV lock, and demo.
  - **[Installation]** Selects channel installation menu, adjusts preferences and resets the TV to factory settings.
  - **[Software update]** Updates the TV software.
- 3 Press **OK** to confirm your choice.



### Tip

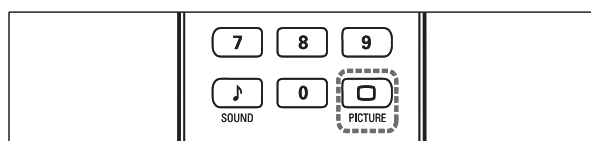
- When the menu is on, **CH +/-** functions as Page Up/Down.
- Press **MENU** at any time to exit the menu.
- Press **↶ BACK A/CH** to move back one screen.

## Change picture and sound settings

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

### Use smart picture

Use smart picture to apply pre-defined picture settings.



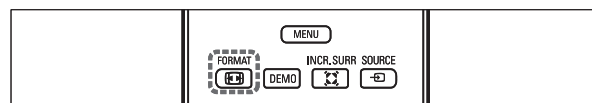
- 1 Press **PICTURE**.  
↳ The **[Smart picture]** menu appears.
- 2 Press **▲▼** to select one of the following smart picture settings.
  - **[Personal]** Lists customized personal picture settings.
  - **[Sports]** Maximizes picture settings.
  - **[Standard]** Adjusts picture settings to suit most environments and types of video.
  - **[Movie]** Applies picture settings ideally suited for movie viewing.
  - **[Game]** Applies picture settings maximized for fast-moving games.
  - **[Energy saving]** Applies low-energy picture settings.
- 3 Press **OK** to confirm your choice.  
↳ The selected smart picture setting is applied.

### Manually adjust picture settings

- 1 Press **MENU**.
- 2 Press **OK** to select **[Picture]**.  
↳ The **[Picture]** menu appears.
- 3 Press **▲▼◀▶** to select from the following settings and adjust:

- **[Smart picture]** : Accesses pre-defined smart picture settings.
- **[Contrast]** : Adjusts the intensity of bright areas, keeping dark areas unchanged.
- **[Brightness]** : Adjusts the intensity and details of dark areas.
- **[Color]** : Adjusts color saturation.
- **[Hue]** : Compensates color variations in NTSC encoded transmissions.
- **[Sharpness]** : Adjusts the level of sharpness in image details.
- **[Noise reduction]** : Filters and reduces noise in an image.
- **[Color temperature]** : Introduces more orange tones or blue tones to the picture.
- **[Dig.CrystalClear]** : Digitally adjusts picture quality to optimal contrast, color and sharpness.
  - **[Dynamic contrast]** : Automatically enhances contrast in an image.
  - **[Dynamic backlight]** : Adjusts the brightness of the TV backlight to match lighting conditions.
  - **[Color enhancement]** : Makes colors more vivid and improves the resolution of details in bright colors. You can switch this feature on or off.
- **[PC mode]** : Adjusts picture settings when a PC is connected to the TV.
- **[Picture format]** : Changes the picture format.
- **[Horizontal shift]** : Adjusts the picture horizontally for PC-VGA or HD input.
- **[Vertical shift]** : Adjusts the picture vertically for PC-VGA or HD input.

## Change picture format



- 1 Press **FORMAT**.  
↳ A picture format bar appears.
- 2 Press **▲▼** to select a picture format.  
↳ The selected picture format is activated.
- 3 Press **OK** to confirm your choice.

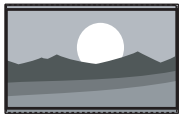
## Summary of picture formats

The following picture settings can be configured.



Note

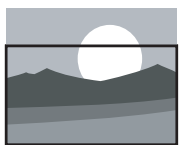
- Depending on the format of the picture source, some picture settings are not available.



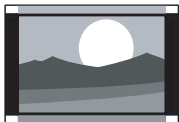
**[Super zoom]**(Not for HD and PC mode.) Removes the black bars on the side of 4:3 broadcasts. There is minimal distortion.



**[4:3]**Shows the classic 4:3 format.



**[Subtitle zoom]**Displays 4:3 pictures over the full area of the screen, with sub-titles visible. Part of the top of the picture is clipped off.



**[Movie exp.14:9]**(Not for HD and PC mode.) Scales 4:3 format to 14:9.



**[Movie exp.16:9]**(Not for HD and PC mode.) Scales 4:3 format to 16:9.



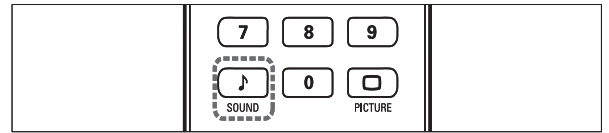
**[Wide screen]**Stretches the classic 4:3 format to 16:9.



**[Unscaled]**For HD and PC mode only, and in selected models only. Allows maximum sharpness. Some distortion may be present due to the broadcaster's systems. Set your PC resolution to wide screen mode for best results.

## Use smart sound

Use smart sound to apply pre-defined sound settings.



- Press **♪ SOUND**.  
↳ The **[Smart sound]** menu appears.
- Press **▲▼** to select one of the following smart sound settings.
  - [Standard]**Adjusts sound settings to suit most environments and types of audio.
  - [News]**Applies sound settings ideally suited for spoken audio, such as the news.
  - [Movie]**Applies sound settings ideally suited for movies.
  - [Personal]**Applies the settings that were customized in the sound menu.
- Press **OK** to confirm your choice.  
↳ The selected smart sound setting is applied.

## Adjust sound settings

- Press **MENU**
- Press **▲▼** to select **[Sound]**.  
↳ The **[Sound]** menu appears.
- Press **▲▼◀▶** to select and adjust:
  - [Smart sound]**Accesses pre-defined smart sound settings.
  - [Bass]**Adjusts the bass level.
  - [Treble]**Adjusts the treble level.
  - [Volume]**Adjusts the volume.
  - [Balance]**Adjusts the balance of the right and left speakers to best suit your listening position.
  - [Stereo/Mono/SAP]**Selects between audio languages if dual sound is broadcast.

- **[Mono/Stereo]** Selects between mono or stereo if stereo is broadcast.
- **[Surround]** Enables spatial sound.
- **[Auto volume]** Automatically reduces sudden volume changes, for example, when switching channels. When enabled, this produces a more consistent audio volume.
- **[Delta volume]** Levels out volume differences between channels or connected devices. Switch to the connected device before you change the delta volume.

## Create and use lists of favorite channels

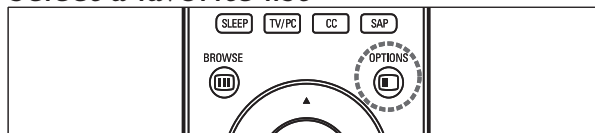
You can create lists of your preferred TV channels and radio stations so that you can find those channels easily.



Tip

- You can create and store up to four favorite lists on your TV.

### Select a favorite list



- 1 When watching TV, press **OK** to display the channel grid.
- 2 Press **⏏** **OPTIONS**.  
↳ The channel options menu appears.
- 3 Press **OK** to select **[Show favorite ch.]**.  
↳ The favorite lists appear.
- 4 Press **▲▼** to select a favorite list.
- 5 Press **OK**.  
↳ Only channels in the favorite list appear in the channel grid.

## Add a channel to a favorite list



Tip

- View all channels before adding a channel to a favorite list.

- 1 When watching TV, switch to the channel you want to add to a favorite list (see 'Switch channels' on page 7).
- 2 Press **▲▼◀▶** to select a channel to add to a favorite list.
- 3 Press **⏏** **OPTIONS**.  
↳ The channel options menu appears.
- 4 Press **▲▼** to select **[Mark as favorite]**.
- 5 Press **OK**.  
↳ The favorite lists appear.
- 6 Press **▲▼** to select a favorite list to add the channel to.
- 7 Press **OK**.  
↳ The channel is added to the favorite list.



Tip

- When watching TV, press **⏏** **OPTIONS** > **[Mark as favorite]** to save the current channel into a favorite list.

## Remove a channel from a favorite list



Note

- Select the favorite list to edit, before removing a channel.

- 1 When watching TV, press **OK** to display the channel grid.
- 2 Press **⏏** **OPTIONS**.  
↳ The channel options menu appears.
- 3 Press **OK** to enter **[Show favorite ch.]**.
- 4 Press **▲▼** to select a favorite list and press **OK** to confirm the choice.

- 5 Press **▲▼◀▶** to choose the channel that you wish to remove from the list.
- 6 Press **☰** **OPTIONS**.
- 7 Press **▲▼** to select **[Unmark as fav.]**.
- 8 Press **OK**.
  - ↳ The channel is removed from the favorite list.

## Use timers

You can set timers to switch the TV on or switch 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 Press **MENU**.
- 2 Select **[Features] > [Sleep timer]**.
  - ↳ The **[Sleep timer]** menu appears.
- 3 Press **◀▶** to set the sleep time.
  - ↳ The sleeptimer can be up to 180 minutes in steps of five minutes. If set to zero minutes, the sleeptimer is switched off.
- 4 Press **OK** to activate the sleeptimer.
  - ↳ The TV switches to standby after the pre-defined period of time.

### Automatically switch the TV on (on timer)

You can switch the TV to a specified channel at a specified time, from standby.

- 1 Press **MENU**.
- 2 Select **[Features] > [On timer]**.

- 3 Press **▶** to enter the **[On timer]** menu.
- 4 Press **▲▼◀▶** to select **[Activate]** and set a day of the week or frequency.
- 5 Press **OK** to confirm.
- 6 Press **▲▼◀▶** to select **[Time]** and set the starting time.
- 7 Press **[Done]** to confirm.
- 8 Press **▲▼◀▶** to select **[Program no.]** and set the channel.
- 9 Press **OK** to confirm.
- 10 Press **MENU** to exit.



#### Tip

- Select **[Off]** to switch off **[On timer]**.
- When **[On timer]** is switched off, only **[Activate]** option is available.
- Set the TV clock before you activate **[On timer]** feature (see 'Set the TV clock' on page 14).

## Use child control

You can prevent your children from watching certain programs or certain channels by locking the TV controls.

### Set or change your PIN code

- 1 Press **MENU**.
- 2 Press **▲▼◀▶** to select **[Features] > [Set code]**.
- 3 Press **▶** to enter the code setup.
- 4 Enter your code with the **Numeric buttons**.
- 5 Re-enter the same code in the new dialog box for confirmation.
  - ↳ If the code is set successfully, the dialog box will disappear. However, if the code cannot be set, you will be prompted to re-enter the code.
- 6 If you want to change the code, select **[Features] > [Change code]**.

- 7 Enter your current code using the **Numeric buttons**.
  - ↳ If the code is validated, you will be prompted to enter your new code.
- 8 Enter the new code using the Numeric buttons.
  - ↳ You will be prompted to re-enter the new code for confirmation.



#### Tip

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

## Lock or unlock the TV

Locking the TV prevents your child from accessing all channels and connected devices.

- 1 Press **MENU**.
- 2 Press **▲▼◀▶** to select **[Features] > [TV lock]**.
- 3 Press **▶** to enter **[TV lock]**.
  - ↳ A screen prompting you to enter code appears.
- 4 Enter your code.
- 5 Press **▲▼** to select **[Lock]** or **[Unlock]**.
- 6 Press **OK**.
  - ↳ All channels and connected devices are locked or unlocked.
- 7 Press **MENU** to exit.

## Lock or unlock one or more channels

- 1 When watching TV, press **OK** to display the channel grid.
- 2 Press **▲▼◀▶** to select a channel to lock or unlock.
- 3 Press **⏻** **OPTIONS**.
- 4 Press **▲▼** to select **[Lock/Unlock chan.]**.
- 5 For each selection, press **OK** to lock or unlock the channel.

## 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

- 1 When watching TV, press **⏻** **OPTIONS**.
  - ↳ The TV options menu appears.
- 2 Select **[Clock]**.
- 3 Press **OK**.
  - ↳ The clock is displayed.



#### Note

- The clock is disabled automatically after ten minutes. To disable the clock before that, repeat this procedure.

### Set the TV clock

- 1 Press **MENU**.
- 2 Select **[Features] > [Clock]**.
  - ↳ The **[Clock]** menu appears.
- 1 Press **▲▼◀▶** or **Numeric buttons** to enter time.
- 2 Press **[Done]** to confirm.
- 3 Press **MENU** to exit.



#### Note

- The clock is disabled automatically after three seconds.

## Update the TV software

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

## Check the current software version

- 1 Press **MENU**.
- 2 Select **[Software update]** > **[Current software]**.

## Download the software

- 1 On your PC, open a web browser and go to [www.philips.com/support](http://www.philips.com/support).
- 2 Find information and software related to your TV and download the latest software upgrade file to your PC.
- 3 Decompress the ZIP-file.
- 4 Copy the autorun.upg file to the root directory of the USB device.

## Update software (analog broadcasts)

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 64MB of storage space.
- Have access to a computer with a USB port and internet access.

- 1 Press **MENU**.
- 2 Select **[Software update]** > **[Update assistant]**.
- 3 Select **[Start]**.
- 4 Connect the USB storage device to your computer.
- 5 Follow the on-screen instructions to complete the update.

## Change TV preferences

The **[Preferences]** menu allows you to customize various features and functions.

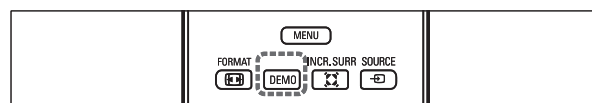
- 1 Press **MENU**.
- 2 Select **[Installation]** > **[Preferences]**.
- 3 Press **▶** to enter **[Preferences]**.
  - **[Location]** Optimizes TV settings for your location - home or shop.

- **[Volume bar]** Displays the volume bar when adjusting the volume.
- **[EasyLink]** Enables one-touch play and one-touch standby between EasyLink-compliant devices.
- **[E-sticker]** For shop mode only. Sets the location of the e-sticker.

- 4 Press **▲▼◀▶** to select your preference.
- 5 Press **OK**.
- 6 Press **MENU** to exit.

## Start a TV demo

You can use demonstrations to better understand the features of your TV. Some demos are not available on certain models. When a demo is available, it is displayed in the menu list.



- 1 Press **DEMO** on the remote control.
- 2 Press **▲▼** to select a demo and press **OK** to view it.
- 3 Press **DEMO** to exit.

## Reset the TV to factory settings

You can restore the default picture and sound settings of your TV. Channel installation settings remain the same.

- 1 Press **MENU**.
- 2 Select **[Installation]** > **[Factory settings]**.
- 3 Press **▶** to enter the **[Factory settings]** menu.
  - ↳ **[Reset]** is highlighted.
- 4 Press **OK** to reset to factory settings.
- 5 Press **MENU** to exit.

## 6 Install channels

The first time you setup 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 reinstall and fine tune channels.

---

### Automatically install channels

This section describes how to search and store channels automatically.

- 1 Press **MENU**.
- 2 Select **[Installation] > [Channel install.] > [Channel assistant]**.
- 3 Press **OK**.
- 4 Follow the on-screen instructions to install channels.

---

### Manually install channels

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

---

#### Step 1 Select your system



#### Note

- Skip this step if your system settings are correct.

- 1 Press **MENU**.
- 2 Select **[Installation] > [Channel install.] > [Analog: Manual]**  
↳ The **[Analog: Manual]** menu appears.
- 3 Press **▲▼◀▶** to select and enter **[Color system]**.
- 4 Press **OK** to confirm.
- 5 Press **▲▼◀▶** to select and enter **[Sound system]**.

- 6 Press **OK** to confirm.
- 7 Press **MENU** to exit.

---

#### Step 2 Search and store new TV channels

- 1 Press **MENU**.
- 2 Select **[Installation] > [Channel install.] > [Analog: Manual]**.  
↳ The **[Analog: Manual]** menu appears.
- 3 Press **▲▼◀▶** to select and enter **[Search]**.
- 4 Press **▲▼** or use **Numeric buttons** to manually enter the three digit frequency.
- 5 Press **OK** to begin search.
- 6 Press **◀** when the new channel is found.
- 7 Press **▲▼◀▶** to select **[Store new channel]** to store the new channel under a new channel number.
- 8 Press **◀▶** to select **[Yes]** and press **OK** to store new channel.
- 9 Press **MENU** to exit.

---

### Rename channels



Channels can be renamed so that a name of your choice appears whenever the channel is selected.

- 1 When watching TV, press **OK** to display the channel grid .
- 2 Select the channel you want to rename.
- 3 Press **⏏** **OPTIONS**.  
↳ The channel options menu appears.
- 4 Press **▲▼** to select **[Rename chan.]** and press **OK**.  
↳ A text input box appears.
- 5 Press **▲▼** to select a character and press **▶** to add another character.
- 6 Select **[Done]**.
- 7 Press **OK**.

---

## Rearrange channels

After you install channels, you can rearrange the order in which they appear:

- 1** When watching TV, press **OK** to display the channel grid .
- 2** Press  **OPTIONS**.  
↳ The channel options menu appears.
- 3** Press **▲▼** to select and enter **[Reorder]**.
- 4** Select the channel you want to reorder and press **OK**.
- 5** Press **▲▼◀▶** to select the new position for the channel.
- 6** Press **OK** to confirm the new position.
- 7** Press  **OPTIONS**.  
↳ **[Done reordering]** appears.
- 8** Press **OK** to finish reordering.

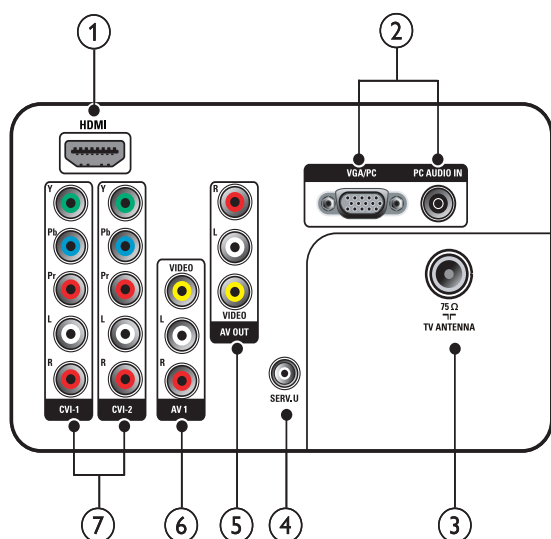
# 7 Connect devices

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

## Note

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

## Back connectors

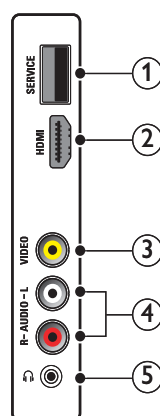


- HDMI**  
Digital audio and video input from high-definition digital devices such as Blu-ray players.
- VGA/PC and PC AUDIO IN**  
Audio and video input from a computer.
- TV ANTENNA**  
Signal input from an antenna, cable or satellite.
- SERV. U**  
For use by service personnel only.
- AV OUT (VIDEO and AUDIO L/R)**
- CVI-1 and CVI-2**
- CVI-1 and CVI-2**

Audio and video output to analog devices such as another TV or a recording device.

- AV IN (VIDEO and AUDIO L/R)**  
Analog audio and video input from analog or digital devices such as DVD players, satellite receivers and VCRs.
- CVI 1/2 (Y Pb Pr and AUDIO L/R)**  
Analog audio and video input from analog or digital devices such as DVD players or game consoles.

## Side connectors



- SERVICE**  
For software update.
- HDMI**  
Digital audio and video input from high-definition digital devices such as Blu-ray players.
- VIDEO**  
Composite video input from analog devices such as VCRs.
- AUDIO L/R**  
Audio input from analog devices connected to **VIDEO**.
- HEADPHONE**  
Stereo audio output to headphones or earphones.

## Connect a computer

Before you connect a computer to the TV

- Set the monitor refresh rate on your computer to 60Hz.
- Press **FORMAT** and change the TV picture format to **[Unscaled]**.

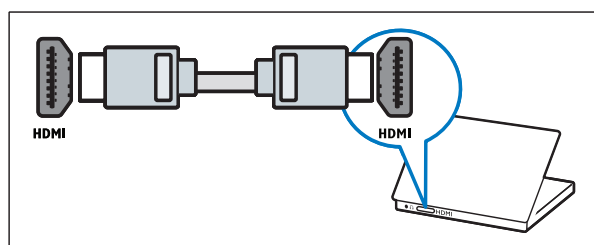
Connect a computer with one of the following connectors:



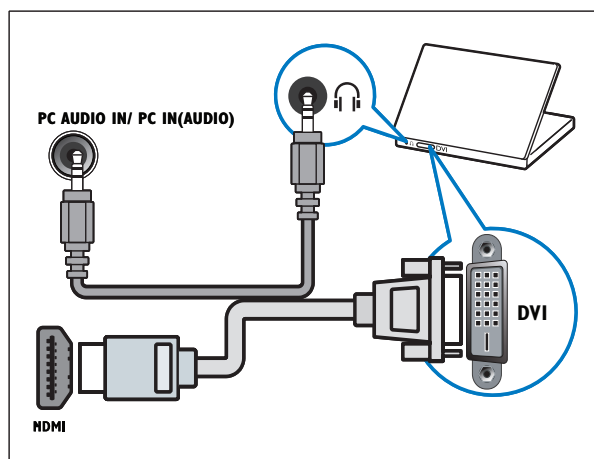
### Note

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

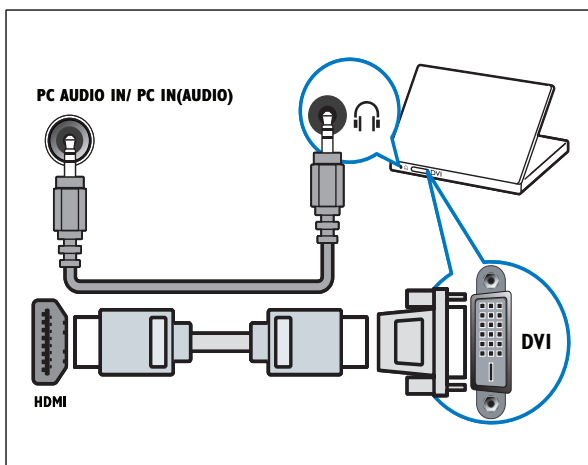
- HDMI cable



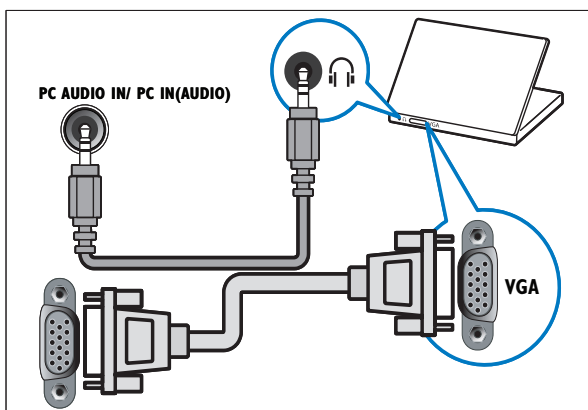
- DVI-HDMI cable



- HDMI cable and HDMI-DVI adaptor



- VGA cable



## 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. For example, when you press Play on your DVD remote control, your TV automatically switches to the correct channel to show the DVD content.

### 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.

### Tip

- Press **TV** to switch back to the antenna source from EasyLink mode.

## Enable or disable EasyLink

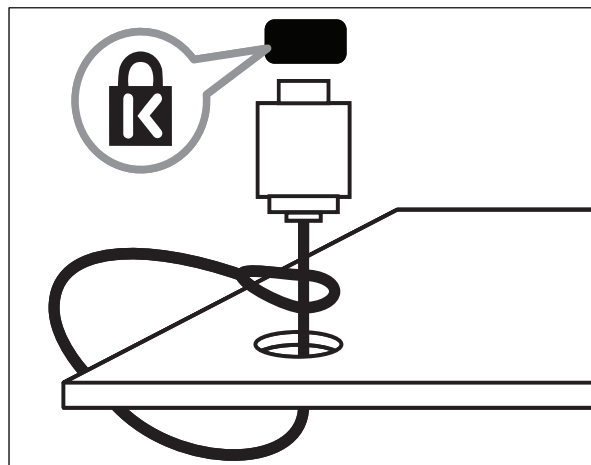
### Note

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

- 1 Press **MENU**.
- 2 Select **[Installation] > [Preferences] > [EasyLink]**.
- 3 Select **[On]** or **[Off]**.

## Use a Kensington lock

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



# 8 Product information

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

## Supported display resolutions

Computer formats

HDMI:

Resolution	Refresh rate (Hz)
640x480	60, 72, 75, 85
800x600	60, 72, 75, 85
1024x768	60, 70, 75, 85
1280x768	60
1280x1024	60
1360x768	60

VGA:

Resolution	Refresh rate (Hz)
640x480	60, 72, 75, 85
800x600	60, 72, 75, 85
1024x768	60, 70, 75, 85
1280x768	60
1280x1024	60
1360x768	60

Video formats

Resolution	Refresh rate (Hz)
720 x 480p	60
720 x 480i	60
720 x 576p	50
720 x 576i	50
1280 x 720p	60
1280 x 720p	50
1920 x 1080i	50, 60
1920x 1080p	24, 25, 30, 50, 60

## Tuner/Reception/Transmission

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

## Remote control

- Batteries: 2 x AAA (R03 type)

## Connections

- Headphone out (stereo mini-jack)
- TV antenna
- CVBS in
- CVBS out
- YPbPr: Component video (CVI in)
- VGA in
- HDMI
- VGA Audio in
- USB (for software update only)
- Service connector

## Power

- Mains power: AC 110-240 (50-60Hz)
- Standby power: < 0.3W
- 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 5.5 cm 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	VESA-compatible wall bracket type	
32"-37"	200 x 200 mm	M6
42"-47"	400 x 400 mm	M6 (42"), M8 (47")

# 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 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 '0711'.

### The TV menu is in the wrong language

- 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.

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

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

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

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

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

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

- Try using a different picture format.

**The picture position is incorrect:**

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

---

## Sound issues

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



### 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.

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

- Check that the sound settings are correctly set.

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

- Verify that sound balance is set to the center.

---

## HDMI connection issues

**There are problems with HDMI devices:**

- Note that HDCP 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).

---

## 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](http://www.philips.com/support).

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



### Warning

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



### Note

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

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