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EN   User Manual

PHILIPS

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Contents

English

1 Notice

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Warranty

- Risk of injury, damage to TV or void of warranty! Never attempt to repair the TV yourself.
- Use the TV and accessories only as intended by the manufacturer.
- The caution sign printed on the back of the TV indicates risk of electric shock. Never remove the TV cover. Always contact Philips Customer Support for service or repairs.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

ATTENTION
RISQUE DE CHOC ELECTRIQUE
NE PAS OUVRIR

PRECAUCION ADVERTENCIA
NO ABRIR
RIESGO DE CHOQUE ELECTRICO

Any operation expressly prohibited in this manual, or any adjustments and assembly procedures not recommended or authorised in this manual shall void the warranty.

Pixel characteristics

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

Open source software

Philips Consumer Lifestyle hereby offers to deliver, upon request, a copy of the complete corresponding source code for the copyrighted open source software packages used in this product for which such offer is requested by the respective licenses. This offer is valid up to three years after product purchase / firmware download to anyone in receipt of this information.

To obtain source code, please contact open.source@philips.com. If you prefer not to use email or if you do not receive confirmation receipt within a week after mailing to this email address, please write to:

Open Source Team, Philips Intellectual Property & Standards
P.O. Box 220
5600 AE Eindhoven
The Netherlands

If you do not receive timely confirmation of your letter, please email to the email address above.

Compliance with EMF

Koninklijke Philips Electronics N.V. manufactures and sells many products targeted at consumers which, like any electronic apparatus, in general have the ability to emit and receive electromagnetic signals.

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

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

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

Mains fuse (UK only)

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

1 Remove fuse cover and fuse.

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

3 Refit the fuse cover.

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

Copyright

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

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Note

• Only applicable to TVs supporting MPEG4-HD standard

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

2 Important

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

Safety

Risk of electric shock or fire!

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

- Never insert objects into the ventilation slots or other openings on the TV.
- When the TV is swivelled ensure that no strain is exerted on the power cord. Strain on the power cord can loosen connections and cause arcing.

Risk of short circuit or fire!

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

Risk of injury or damage to the TV!

- Two people are required to lift and carry a TV that weighs more than 25 kg.
- When stand mounting the TV, use only the supplied stand. Secure the stand to the TV tightly. Place the TV on a flat, level surface that can support the combined weight of the TV and the stand.
- When wall mounting the TV, use only a wall mount that can support the weight of the TV. Secure the wall mount to a wall that can support the combined weight of the TV and wall mount. Koninklijke Philips Electronics N.V. bears no responsibility for improper wall mounting that result in accident, injury or damage.

Risk of injury to children!

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

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

Risk of overheating!

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

Risk of damage to the TV!

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

Risk of injury, fire or power cord damage!

- Never place the TV or any objects on the power cord.
- To disconnect the TV power cord easily from the power outlet, ensure that you have full access to the power cord at all times.
- When you disconnect the power cord, always pull the plug, never the cable.
- Disconnect the TV from the power outlet and antenna before lightning storms. During lightning storms, never touch any part of the TV, power cord or antenna cable.

Risk of hearing damage!

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

Low temperatures

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

Screen care

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

Disposal of your old product and batteries

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

When this crossed-out wheeled bin symbol is attached to a product it means that the product is covered by the European Directive 2002/96/EC. Please inform yourself about the local separate collection system for electrical and electronic products.

Please act according to your local rules and do not dispose of your old products with your normal household waste.

Correct disposal of your old product helps to prevent potential negative consequences for the environment and human health.

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

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

3 TV overview

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

Please read section 3 to 6 to set the basic consumer menu first, then follow the instructions in section 7 to set the Professional mode menu.

Side controls and indicators

For 22.26.32 inch TV

a ⊿ +/- : Increases or decreases volume. In the home menu, press these buttons to move horizontally.

b ⌂ MENU : Accesses the home menu. Press again to launch an activity in the home menu.

c P/CH +/- : Switches to the next or previous channel. In the home menu, press these buttons to move vertically.

d ⏻ Power : Switches the TV on or off.

## For 42 inch TV
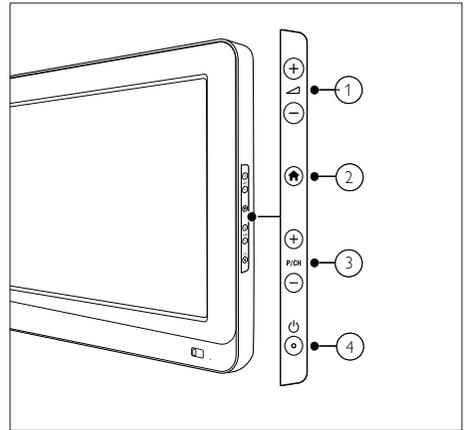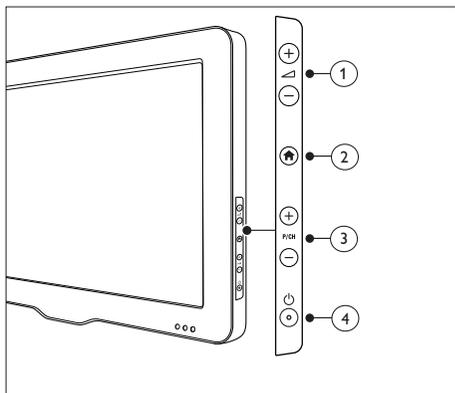
1. ◢ +/- : Increases or decreases volume.In the home menu, press these buttons to move horizontally.

2. ♠ MENU : Accesses the home menu. Press again to launch an activity in the home menu.

3. P/CH +/- : Switches to the next or previous channel. In the home menu, press these buttons to move vertically.

4. ⏻ Power : Switches the TV on or off.

Guest remote control

PHILIPS

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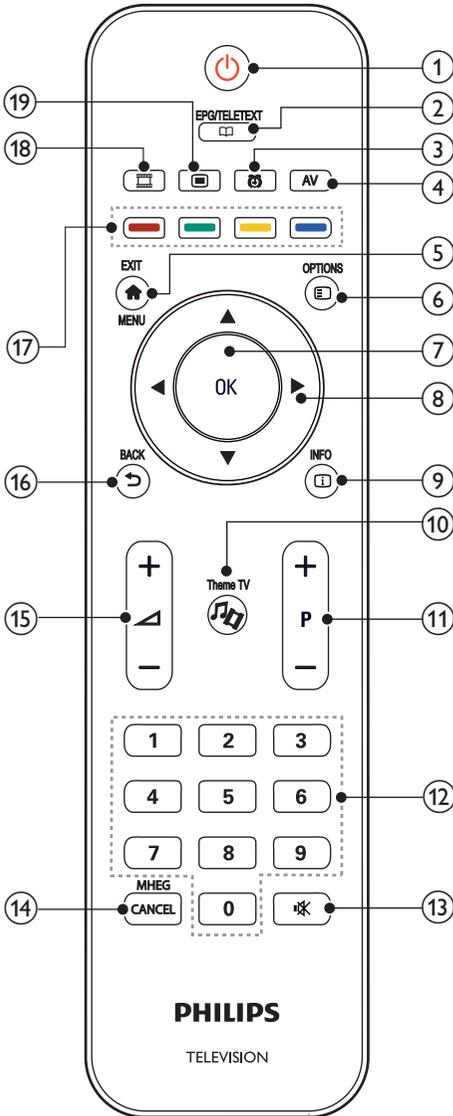
(a) ⏻ **(Standby-On)**
- Switches the TV to standby if it is on.
- Switches on the TV if it is in standby.

(b) 📖 **EPG/TELETEXT**
Accesses the browse menu to select TV channel list, the Electronic Programme Guide and teletext.

(c) ⏰ **ALARM**
Lauches **[Alarm time]** menu. (Only applicable in **[Hospitality]** mode and in some models.)

(d) **AV**
Selects connected devices.

(e) ⌂ **EXIT/MENU**
Accesses the home menu.

(f) 🗐 **OPTION**
Options menus offer convenient settings related to what is on screen.

(g) **OK**
Confirms an entry or selection.

(h) ▲▼◄► **(Navigation buttons)**
Navigates menus and selects items.

(i) 🛈 **INFO**
Displays program information, when available. If the information spans multiple pages, press **OPTIONS** to go to the next page.

(j) 🎜 **Theme TV**
To activate Theme TV function.

(k) **P+/- (Programme +/-)**
Switches to the next or previous channel. When the TV menu is on, this functions as Page Up / Down.

(l) **0-9 (Numeric buttons)**
Selects a channel or setting.

(m) 🔇 **(MUTE)**
Mutes or restores audio output.

(n) **MHEG / CANCEL**
UK only: Enables audio commentary for the visually handicapped.

(15) ⊿**+/-** (Volume +/-)
Increases or decreases volume.

(16) ⏎ **BACK**
- Returns to a previous screen.
- Returns to the previously viewed channel.

(17) **Colour buttons**
- Selects tasks or options.
- When Professional mode is On, press to operate Multi remote control function.

Red button(DEMO)
To select the red option, access digital **Interactive TV services** or watch TV demonstration clips.

Green button
To select the green option or the Eco settings.

Yellow button
To select the yellow option or the **Help** menu.

Blue button (Audio Descriptor) (For RF Digital TV only)
UK only: Enables audio commentary for the visually handicapped.

(18) ⊞ **(MyChoice)**
Opens MyChoice menu for entering authorized PIN code.

(19) ⬚ **OSRC**
On-Screen Remote Control Virtual control keys for HDMICEC devices.

> **Note**
>
> • Channel grid is not available in some specific modes.

Remote control usage

When using the remote control, hold it close to the TV and point it at the remote control sensor. Make sure that the line-of-sight between the remote control and TV is not blocked by furniture, walls or other objects.

For 22.26.32 inch TV
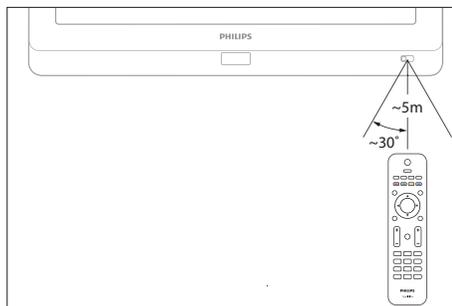
For 42 inch TV
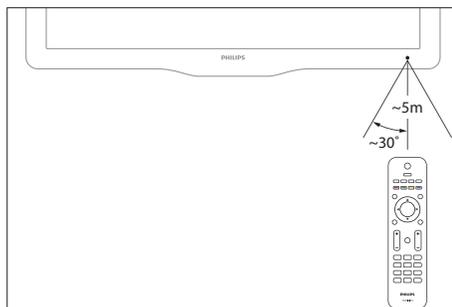
Basic TV menus

Home

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

1 Press 🏠.

2 Select an item in the home menu, then press **OK** to access the menu.

3 To exit the home menu, press 🏠 or ↩.

To start an activity, select the desired item with the **Navigation buttons**, then press **OK**:

- **[Help]** : Electronic user manual is not available for this model.
- **[Watch TV]** : Switches back to the antenna source if another source is selected.
- **[Browse USB]** : If a USB storage device is connected, accesses the content browser.
- **[Scenea]** : Switches to the Scenea wallpaper.
- **[Add your devices]** : Adds new devices to the home menu. Note that you must add a new device to the home menu in order to access it.
- **[Setup] :** Accesses menus that allow you to change picture, sound and other TV settings.

Browse

The browse menu gives you easy access to:

- Electronic programme guide
- TV channel list
- Teletext

To access the browse menu, while watching TV, press 📖.

1 Press the **Navigation buttons** to select an item:

- **[Programme guide]** : Accesses the Electronic Programme Guide.
- **[Channel list]** : Accesses the TV channel list.
- **[Text]** : Accesses teletext.

2 Press **OK** to confirm your choice.

Channel list

The channel list displays the TV channels and possible radio stations installed on your TV.

1 While watching TV, press 📖.

2 Select **[Channel list]**, then press **OK**.

3 Select a channel, then press **OK** to access the channel.

4 Press ↩ to exit the channel list without changing the channel.

Add your devices

After you connect a device to the TV, add this device in the home menu for easy access.

In the home menu, select **[Add your devices]**, then press **OK.** Follow the instructions on-screen to add the device to the home menu.

To remove a device from the home menu, select the item, press 📄 and select **[Remove this device]**. Press **OK**.

Setup

[Setup] in the home menu allows you to change most of the TV settings, including:

- Picture or sound settings
- Installation or update of TV channels
- Update of TV software
- Other special features

1 In the home menu, select **[Setup]**, then press **OK**.

2 Select an item with the **Navigation buttons**, then press **OK** :

- **[Quick picture and sound settings]** : Guides you through picture and sound settings.
- **[TV settings]** : Advanced picture and sound settings.
- **[Search for channels]** or **[Search for satellite]** : Guides you through antenna or satellite (if available) channel installation.
- **[Channel settings]** or **[Satellite settings]** : Advanced channel settings.
- **[Update software]** : Guides you through an update of the TV software.
- **[Software settings]** : Advanced TV update settings.
- **[Watch demos]** : Demos of special features available with the TV.

Options

Option menus offer convenient settings related to what is on-screen.

1 Press ⊟ to see what options are available.

2 To exit, press ⊟ again.

4 Use your product

This section helps you perform basic TV operations.

Switch your TV on / off or to standby
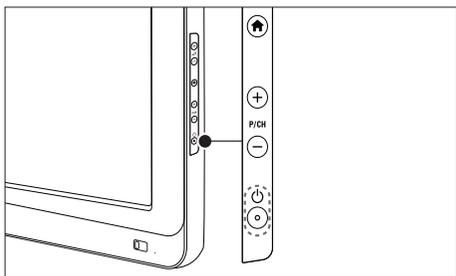
To switch on

- 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.

✳ Tip

- The front LED indicator does not turn on when the TV is switched on.
- The TV requires some time to start up. During this time, the TV will not respond to the remote control or side controls. This is normal behavior.

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.

Note

- 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.

Switch channels
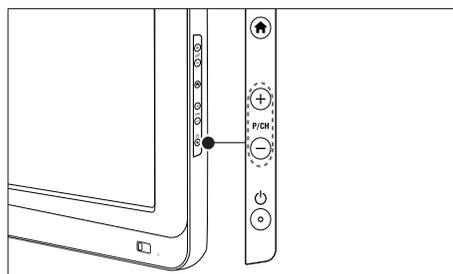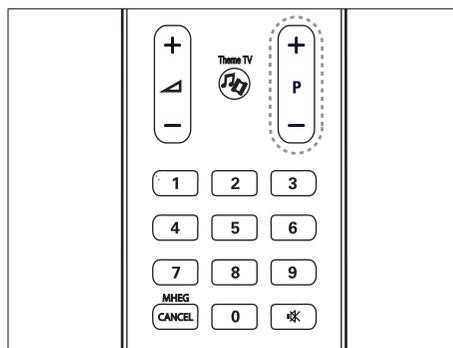
- Press **P +/-** on the remote control or **P /CH +/-** on the side of the TV.
- Press ▭, then select **[Channel list]** to use the channel list.

- Press ↩ to return to the previously-viewed channel.
- Enter a channel number using the **Numeric buttons**.

To view analogue or digital channels only

Filter the channel list to access analogue or digital channels only.

1 In the channel list, press ▣.

2 Select **[Select list]** > **[Analogue]** or **[Digital]**, then press **OK**. Depending on your selection, only digital or analogue channels become available.

Adjust TV volume
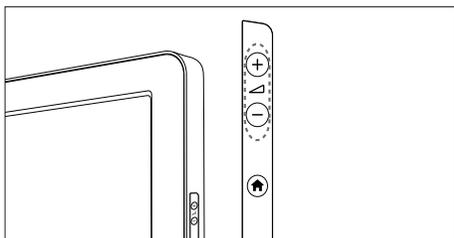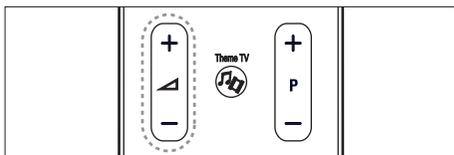
To increase or decrease volume

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

To mute or unmute sound

- Press ✖ to mute the sound.
- Press ✖ again to restore the sound.

Use the **[Sound]** menu to adjust headphone volume. For more information, see **Set up the TV** > **Change picture and sound settings** > **More sound settings** (Page 22).

Watch connected devices

Add new device

Note

- Before watching a connected device, you must add it to the home menu.
- HDMI ARC compliant devices connected to the **HDMI ARC** connector on the TV are automatically added to the home menu.

1 Connect and switch on the device.

2 Press ⌂.

**3** Select **[Add your devices]**, then press **OK**. Follow the on-screen instructions.

Watch connected device

1 Press ⌂.

2 Select the device from the home menu.

3 Press **OK** to confirm your choice.

5 Use more of your product

Use teletext
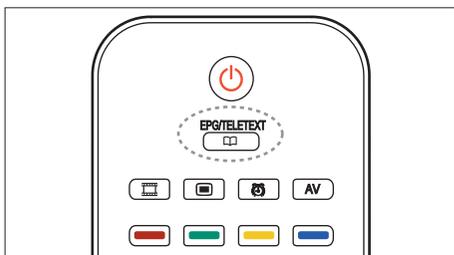
Select a page

1 Press ▥.
2 Select [Text], then press OK.
3 Select a page by:
• Entering the page number with the Numeric buttons.
• Pressing ▲ or ▼ to view the next or previous page.
• Pressing the Colour buttons to select a colour coded item.
4 Press ⏎ to exit teletext.

Access teletext options

1 When in teletext, press ▣.
2 Select an option:
• [Freeze page] / [Unfreeze page] : Freezes or unfreezes the current page.
• [Dual screen] / [Full screen] : Enables or disables dual screen teletext, which splits the current channel or source to the left of the screen, with teletext on the right.
• [T.O.P. overview] : Table Of Pages (T.O.P.) teletext broadcasts allow you to jump from one subject to another without using page numbers.
• [Enlarge] / [Normal view] : For more comfortable reading, you can enlarge the teletext page. Press the Navigation buttons to move around the enlarged screen.
• [Reveal] : Hides or reveals hidden information on a page, such as solutions to riddles or puzzles.
• [Cycle subpages] : Cycles through subpages automatically if subpages are available.
• [Language] : Switches to a different language group to display a language correctly when that language uses a different character set.
3 Press ▣ to exit the options menu.

Select a teletext language

Some digital TV broadcasters have several teletext languages available. You can set your primary and secondary language.

1 Press ⌂.
2 Select [Setup] > [Channel settings] or [Satellite settings] > [Languages] > [Primary Text] or [Secondary Text].
3 Select your preferred teletext languages, then press OK.

Select subpages

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

When available on a teletext page, press ◄ or ► to select subpages.

Search teletext

1 When in teletext, press **OK** to highlight the first word or number.

2 Press the **Navigation buttons** to skip to the word or number to search.

3 Press **OK** to begin the search.

4 Press ▲ until no word or number is highlighted to exit the search.

Use digital teletext

Some digital TV broadcasters offer dedicated digital text or interactive services on their digital TV channels, for example, BBC1.

When in digital teletext:

- Press the **Navigation buttons** to select or highlight items.

- Use the **Colour buttons** to select an option, then press **OK** to confirm or activate.

Note

- Digital text services are blocked when subtitles are broadcast and **[Subtitles]** are enabled. Read **Use more of your product** > **Use subtitles** (Page 17).

Use Teletext 2.5

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

To switch Teletext 2.5 on or off

1 Press ⌂.

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

Favourite channels

Add or remove channels

1 Press ⌺.

2 Select **[Channel list:]**, then press **OK**.

3 Press ▤.

4 Select **[Mark as favourite]** or **[Unmark as favourite]**, then press **OK**.

A star appears in the channel grid, indicating that the channel is added to the favourite list. The star disappears if you remove the channel from the favourite list.

Select a favourite list

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

1 In the channel list, press ▤.

2 Select **[Select list]** > **[Favourites]** to display channels in a favourite list, or **[All]** to display all channels.

3 Press **OK** to confirm your choice.

Use EPG

Overview

The Electronic Programme Guide (EPG) is an on-screen guide available for digital channels. EPG allows you to:

*   View the information of current programme being broadcast
*   View the information of the next upcoming programme

Note

*   EPG is not available in some countries and also dependent on the broadcast channel.

Switch on EPG

1 Press 📖.

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

Use timers

Sleep timer

Sleeptimer switches the TV to standby after a pre-defined period of time. You can always switch off your TV earlier or reset the sleeptimer during the countdown.

1 Press 🏠.

2 Select **[Setup]** > **[TV settings]** > **[Preferences]** >**[Sleep timer]**.
  » The bar appears.

3 Press **Navigation buttons** to set the sleep time. The Sleep timer can be up to 180 minutes in steps of five minutes. If set to zero minutes, the Sleep timer is switched off.

4 Press **OK** to activate the Sleep timer. The TV switches to standby after the pre-defined period of time.

Use locks

Parental rating

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

1 Press 🏠.

2 Select **[Setup]** > **[Channel settings]** or **[Satellite settings]** > **[Child lock]** > **[Parental rating]**. A message appears prompting you to enter the child lock code.

3 Enter the child lock code with the **Numeric buttons**.

4 Select an age rating, then press **OK**. All programmes beyond the selected age rating are blocked.

Lock or unlock channels

1 In the child lock menu, select **[Channel lock]**.

2 Enter the child lock code with the **Numeric buttons**. The **[Channel lock]** menu appears.

3 Select channels to lock or unlock. Set or change the child lock code

Set or change the child lock code

1 In the child lock menu, select **[Set code]** or **[Change code]**.

2 Enter the code with the **Numeric buttons**.

� Tip

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

Use subtitles (channel content dependent)

On analogue channels

1 Switch the TV to an analogue TV channel.
2 Press 🕮, then select **[Text]** and press **OK**.
3 Enter the three number page number of the subtitles page (usually '888').
4 Press ⤴ to exit teletext. Subtitles display if available.

Subtitle language

This feature is only supported on selected digital channels.
1 While watching TV, press 🔲.
2 Select **[Subtitles]**.
3 Select a subtitle language from the list, then press **OK**.

Access multimedia

Browse USB

You can view photos or play music and videos on TV from a USB storage device.

⚠ Caution

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

You can access the USB content browser using one of the following methods:

When watching TV, connect the USB device to the USB port on the side of your TV.

1 Press 🏠.
2 Select **[Browse USB]**, then press **OK**.

View slideshow

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

• To pause or stop playback, press **OK** again.
• To jump to the previous or next file, press ◄ or ►.
• Press ⤴ to exit content browser.

Press 🔲 to access or exit the following settings:

• **[Show info]** : Displays the file information.
• **[Stop]** : Stops slideshow.
• **[Rotate]** : Rotates the file.
• **[Repeat]** : Repeats the slideshow.
• **[Play once]** : Plays the file once.
• **[Shuffle off] / [Shuffle on]** : Enables or disables random display of pictures in the slideshow.
• **[Slideshow speed]** : Sets the display time for each picture in the slideshow.
• **[Slideshow transition]** : Sets the transition from one picture to the next.

Listen to music

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

• Press ◄ / ► to fast rewind or fast forward a track.
• Press ⤴ to exit content browser.

Press 🔲 to access or exit the following settings:

• **[Stop]** : Stops audio playback.
• **[Repeat]** : Repeats a song or an album.
• **[Play once]** : Plays the file once.
• **[Shuffle on] / [Shuffle off]** : Enables or disables random play of songs.

Watch video

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

- Press ◄ or ► to rewind or fast forward a file.

- Press ⏎ to exit the content browser.

During video playback, press ▣ to access the following settings:

- **[Show info]** : Displays the file information.
- **[Stop]** : Stops playback.
- **[Repeat]** : Repeats a video.
- **[Shuffle on]** / **[Shuffle off]** : Enables or disables random play of videos.

Listen to digital radio

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

1 While watching TV, press ▭.
2 Select **[Channel list]**, then press **OK**.
3 In the channel list, press ▣.
4 Select **[Select list]** > **[Radio]**, then press **OK**.
5 Select a radio channel, then press **OK**.

You can listen to satellite radio broadcast (if available).

1 While watching TV, press ▭.
2 Select **[Channel list]**, then press **OK**.
3 In the channel list, press ▣.
4 Select **[TV/Radio]** > **[Radio]**, then press **OK**.

Use Scenea

Activate Scenea

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

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

> **Note**
>
> • If the sleep timer is off, the wallpaper is displayed for 240 minutes. Otherwise, it is displayed for the duration of the sleeptimer. For more information on the sleeptimer, see **Use more of your product** > **Use timers** > **Sleep timer** (Page 16).

Set a picture as Scenea

> **Note**
>
> • The file size of the picture must not be more than 1 MB.

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

Universal access

Enable universal access

Where supported by your digital TV broadcaster, this TV allows special audio and subtitles for the hearing impaired, as well as special audio for the visually impaired. To enable these features, you must turn on universal access in the [Preferences] menu.

1   Press ⌂.
2   Select [Setup] > [TV settings] > [Preferences] > [Universal access] > [On], then press OK.

Visually impaired

Some digital TV channels broadcast special audio adapted for people who are visually impaired. The normal audio is mixed with extra commentary.
To switch on visually impaired audio (if available)

1   While watching TV, press ▣.
2   Select [Universal access], and press the green button to enter [Visually impaired].
3   Use the following buttons to select:
   • Red - [Off] : Turn off visually impaired audio.
   • Green - [Speakers] : Hear visually impaired audio from speakers only.
   • Yellow - [Headphones] : Hear visually impaired audio from headphones only.
   • Blue - [Speakers + headphones] : Hear visually impaired audio from speakers and headphones only.
4   Press ⏎ to exit.

Note

• The green and yellow buttons are not applicable if EasyLink Remote Control is enabled.

Tip

• To verify whether visually impaired audio is available, press ▣ and select [Audio language]. Languages with an eye icon indicate visually impaired support.

Adjust volume for the visually impaired

1   In the [Universal access] menu, press the yellow button to select [Mixed volume].
2   Press the Navigation buttons to move the slider up or down, then press OK.
3   Press ⏎ to exit.

Audio feedback for the visually impaired

This feature enables audio feedback when buttons are pressed on the remote control or TV.

1   In the [Universal access] menu, press the blue button to select [Key beep].
2   Press the green button to turn on audio feedback or press the red button to turn it off.
3   Press ⏎ to exit.

6 Set up the TV

Change picture and sound settings

Settings assistant

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

1 Press ♠.
2 Press ▲▼◄► to select **[Setup]** > **[Quick picture and sound settings]**, then press **OK**.
3 Select **[Start]**, then press **OK**. Follow the on-screen instructions to choose your preferred settings.

Smart picture settings

Use Smart picture to apply pre-defined picture settings.

1 Press ♠.
2 Select **[Setup]** > **[TV settings]** > **[Picture]** > **[Smart picture]**, then press **OK**.
3 Select one of the following Smart picture settings.
   - **[Personal]**: Sets the TV to your personal preferences.
   - **[Vivid]**: Rich and dynamic settings, ideal for daylight use.
   - **[Natural]**: A natural picture setting.
   - **[Cinema]**: Ideal settings for watching movies.
   - **[Game]**: Ideal settings for gaming.
   - **[Energy saving]**: The most energy-conscious settings.
   - **[Standard]**: Adjusts picture settings to suit most environments and types of video. Factory default settings.
   - **[Photo]**: Ideal settings for viewing photos.
   - **[Custom]**: Allows you to customise and store personal picture settings.
4 Press **OK** to confirm your choice.
5 Press ⮌ to exit.

More picture settings

1 Press ♠.
2 Press ▲▼◄► to select **[Setup]** > **[TV settings]** > **[Picture]**, then press **OK**.
3 Select one of the following picture settings.
   - **[Smart picture]**:Accesses pre-defined smart picture settings.
   - **[Reset]**: Resets to factory default settings.
   - **[Contrast]**: Adjusts the intensity of bright areas, keeping dark areas unchanged.
   - **[Brightness]**: Adjusts the intensity and details of dark areas.
   - **[Colour]**: Adjusts colour saturation.
   - **[Hue]**: Compensates colour variations in NTSC encoded transmissions.
   - **[Sharpness]**: Adjusts sharpness in the image.
   - **[Noise reduction]**: Filters and reduces noise in an image.
   - **[Tint]**: Adjusts the colour balance in an image.
   - **[Custom tint]**: Make a customised tint setting.
   - **[Pixel Plus HD]**: Accesses advanced settings, including **[Perfect Natural Motion]**, **[Advanced sharpness]**, **[Dynamic contrast]**, **[Dynamic backlight]**, **[MPEG artefact reduction]**, **[Colour enhancement]**, **[Gamma]**.

- **[PC mode]**: Enables picture settings adjustment when a PC is connected to the TV via HDMI. If enabled, you can select **[Picture format]** > **[Unscaled]** which provides maximum detail for display of PC content.
- **[Picture format]**: Changes the picture format.
- **[Screen edges]**: Changes the picture size.
- **[Picture shift]**: Adjusts the position of the picture. Not applicable if selected picture format is **[Auto zoom]** or **[Wide screen]**.

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.
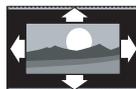
	[Auto fill]: (Not for PC mode.) Automatically displays the suitable picture format. If not, widescreen is applied.
	[Auto zoom]: (Not for PC mode.) Automatically enlarges the picture to the maximum without distortion. You may see black bars.
	[Super zoom]: (Not for HD and PC mode.) Removes the black bars on the side of 4:3 broadcasts. There is minimal distortion.
	[Movie expand 16:9]: (Not for HD and PC mode.) Scales 4:3 format to 16:9.
	[Wide screen]: Scales 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.
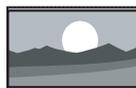
Smart sound settings

Use the **[Smart sound]** experience bar to access frequently-used sound settings.

1 Press **⌂**.
2 Select **[Setup]** > **[TV settings]** > **[Sound]** > **[Smart sound]**, then press **OK**.
3 Select one of the following settings:
   - **[Personal]**: Sets the TV to your personal preferences.
   - **[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.
   - **[Game]**: Ideal settings for gaming.
   - **[Drama]**: Applies sound settings ideally suited for drama.
   - **[Sports]**: Applies sound settings ideally suited for sports.
4 Press **OK** to confirm your choice.
5 Press **⏎** to exit.

More sound settings

1 Press **⌂**.
2 Select **[Setup]** > **[TV settings]** > **[Sound]**, then press **OK**.
3 Select one of the following picture settings.
   - **[Smart sound]**: Accesses pre-defined smart sound settings.
   - **[Reset]**: Resets to factory default settings.
   - **[Bass]**: Adjusts the bass level.
   - **[Treble]**: Adjusts the treble level.
   - **[Surround]**: Enables spatial sound.
   - **[Headphones volume]**: Adjusts headphone volume.
   - **[Auto volume leveling]**: Automatically reduces sudden volume changes, for example, when switching channels.
   - **[Balance]**: Adjusts the balance of the right and left speakers to best suit your listening position.

Reset to factory settings

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

1 Press **⌂**.
2 Select **[Setup]** > **[TV settings]** > **[Factory settings]** , then press **OK**.
TV settings are reset back to the factory default.

Start a TV demo

Start a demo to find out more about your TV's features.

1 Press **⌂**.
2 Select **[Setup]** > **[Watch demos]**, then press **OK**.
3 Select a demo, then press **OK**.
4 Press **⏎** to exit the demo.

Change channel settings

Reorder channels

After installation, you may want to reorder the channel list to suit your preference.

1 While watching TV, press 🕮.
2 Select **[Channel list]**, then press **OK**.
3 In the channel list, press ▣.
4 Select **[Reorder]**, then press **OK.**
5 Select the channel to reorder, move it to the desired location, then press **OK**.
6 Select **[Insert]** to insert the channel into the desired location, **[Swap]** to swap location with another channel or **[Cancel]** to cancel the reorder.
7 Press **OK** to activate.

Rename channel

After installation, you may want to rename channels to suit your preference.

1 While watching TV, press 🕮.
2 Select **[Channel list]**, then press **OK**.
3 In the channel list, press ▣.
4 Select **[Rename]**, then press **OK**.
5 In the entry screen that appears, press the **Navigation buttons** or **Numeric buttons** to edit the name, then press **OK**.
6 Once complete, press the **Navigation buttons** to select **[Done]**.
•   To clear the entry, select **[Clear]**.
•   To cancel, select **[Cancel]**.
7 Press **OK** to confirm your choice.
8 Press ⮌ to exit.

Hide channels

Hide channels from the channel list, to prevent unauthorised access.

1 While watching TV, press 🕮.
2 Select **[Channel list]**, then press **OK**.
3 In the channel list, select the channel to hide, press ▣.
4 Select **[Hide channel]**, then press **OK**. The channel is hidden.

Unhide channels

1 While watching TV, press 🕮.
2 Select **[Channel list]**, then press **OK**.
3 In the channel list, press ▣.
4 Select **[Show hidden channels]**, then press **OK**. Hidden channels appear in the channel list, but without channel information displayed.
5 Select the channel to unhide, then press ▣.
6 Select **[Unhide channel]**, then press **OK**. Repeat steps 5 and 6 to unhide other channels.

Update channel list

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

You can set the TV to add or remove digital channels automatically. You can also manually start the channel update.

Automatic update

To set the TV to update digital TV channels automatically, leave the TV in standby mode.

Once a day, the TV updates earlier found channels and stores new channels. Empty channels are removed from the channel list.

If a channel update is performed, a message appears at startup.

If you do not want this message to appear

1 Press ♠.
2 Select **[Setup]** > **[Channel settings]** > **[Channel installation]** > **[Channel update message]** > **[Off]**, then press **OK**.
• To disable automatic updates In the **[Channel installation]** menu, select **[Automatic channel update]** > **[Off]**.

Select audio language

If the TV channel has multiple or dual sound broadcast, you can select the preferred audio language.

1 While watching TV, press ▣.
• **[Audio language]** : Select the audio language for digital channels.
• **[Dual I-II]** : Select the audio language foranalogue channels.

Install channels

Automatic install

When the TV was switched on for the first time, a full installation of channels was performed. You can redo this full installation again to set your language, country and install all available TV channels.

> **Note**
>
> • The PrimeSuite TV is capable of tuning to both DVB-T and DVB-C. Please refer to attachment A.

1 Press ♠.
2 Select **[Setup]** > **[Search for channels]**, then press **OK**.
3 Follow the on-screen instructions to complete the channel installation.
4 Once complete, select **[Finish]**, then press **OK**.

> ✳ **Tip**
>
> • Press 🕮 to see the channel list.

> **Note**
>
> • During installation, leave **[Settings]** unchanged unless your digital provider provides you with the specific values to enter.
> • When digital TV channels are found, the list of installed channels may display empty channel numbers. You can rename, reorder or uninstall these channels.

Access DVB-C or DVB-T channels

This TV contains specific tuning algorithms supporting local cable operators. This can impact DVB-T tuning.

Please refer to attachment in case no or less channels are found.

Install analogue channels

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

Step 1: Select your system

> **Note**
>
> • Skip this step if your system settings are correct.

1   While watching TV, press **⌂**.
2   Select **[Setup]** > **[Channel settings]** > **[Channel installation]** > **[Analogue: Manual installation]** > **[System]**, then press **OK**.
3   Select the system for your country or region, then press **OK**.

Step 2: Search and store new TV channels

1   In the **[Analogue: Manual installation]** menu, select **[Find channel]**, then press **OK**.
2   Press:
•   The **Navigation buttons** or **Numeric buttons** to manually enter the channel frequency.
•   The **Navigation buttons** to select **[Search]**. Press **OK** to automatically search for the next channel.
3   When the correct channel frequency is entered, select **[Done]**, then press **OK**.
4   Select **[Store current channel]** to store the fine tuned channel as the current channel number, or select [Store as new channel] to store it as a new channel number.

Install digital channels

You can reposition your antenna to improve the reception. You need to know the correct frequency to tune. For best results, contact the service provider or get a professional installer.

1   Press **⌂**.
2   Select **[Setup]** > **[Channel settings]** > **[Channel installation]** > **[Digital: Reception test]** > **[Search]**, then press **OK**.
3   Press the **Numeric buttons** to enter the channel frequency.
4   Select **[Search]**, then press **OK**.
5   When the correct channel is located, select **[Store]**, then press **OK**.
6   Press **⤺** to exit.

> **Note**
>
> • If the reception is poor, reposition your antenna and repeat the procedure.
> • If you receive the channel with DVB-C, the options **[Symbol rate mode]** and **[Symbol rate]** are available.
>   In **[Symbol rate mode]**, select **[Automatic]** unless your cable provider supplies you with a specific symbol rate value.

Fine-tune analogue channels

If the reception of an analogue TV channel is poor, try fine tuning the TV channel.

1   Press **⌂**.
2   Select **[Setup]** > **[Channel settings]** > **[Channel installation]** > **[Analogue: Manual installation]** > **[Fine tune]**, and then press **OK**.
3   Press ▲ or ▼ to fine tune the channel.
4   When the correct channel frequency is selected, select **[Done]**, and then press **OK**.
5   Select **[Store current channel]** to store the fine tuned channel under the current channel, or select **[Store as new channel]** to store under a new channel number.

Change language settings

Audio, subtitle, teletext languages

Digital TV channels may stream several audio, subtitle and teletext languages with a broadcast. Set preferred languages when multiple languages are available.

1 Press ♠.

2 Select **[Setup]** > **[Channel settings]** or **[Satellite settings]** > **[Language]**.

3 Select one of the following settings, then press **OK**:
- **[Primary audio] / [Secondary audio]** : Selects the available audio language for digital channels.
- **[Primary subtitles] / [Secondary subtitles]** : Selects the available subtitle language for digital channels.
- **[Primary Text] / [Secondary Text]** : Selects the available teletext for digital channels.
- **[Hearing impaired]** : Enables or disables hearing impaired subtitles.
- **[Visually impaired] (UK only)** : Selects the device for audio output.
- **[Volume - Visually impaired] (UK only)** : Adjusts the volume of the visually impaired audio.
- **[Preferred audio format]** : Select **[Standard]** to receive standard audio format (MPEG). Select **[Advanced]** to receive advanced audio formats (AAC, EAC-3 or AC-3 if available).
- **[Mono/Stereo]** : Select **[Mono]** or **[Stereo]** if stereo broadcasting is available.

4 Press ⤺ to exit.

✳ Tip

- Set a secondary language in the same menu. You receive this language if the primary language is unavailable.

Menu language

1 While watching TV, press ♠.

2 Select **[Setup]** > **[TV settings]** > **[Preferences]** > **[Menu language]**.

3 Select a menu language from the list, then press **OK**.

Change other settings

Energy-efficient settings

1 While watching TV, press the green button.

2 Select one of the following settings, then press OK:
- **[Energy saving]** : Applies a combination of picture settings to reduce energy consumption.
- **[Mute screen]** : Turns off the TV display. 'Muting' the screen saves energy if you just want to listen to audio from the TV.

Audio lip sync

Turn on digital audio lipsync to automatically sync the image on your TV to audio from a connected Home Theatre System.

1 While watching TV, press ♠.

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

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

When watching TV, press ⓘ.

» The TV clock is displayed at the bottom right corner of the TV screen.

Change the clock mode

By default, the clock mode is set to **[Automatic]**, syncing the TV clock to Coordinated Universal Time (UTC). If your TV cannot receive UTC transmissions, set the clock mode to **[Manual]**. **[Country dependent]** applies UTC and gives you the option of setting **[Daylight saving]**.

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

Enable or disable daylight saving

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

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

Set the clock manually

If clock mode is set to **[Manual]**, set the date and time manually.

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

TV location

A range of TV settings are applied to suit the location of the TV.

Shop or home mode

The flexibility to change settings is limited if the TV location is set to **[Shop]** mode. Set the TV location to **[Home]** mode to access all TV settings.

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

Stand mount or wall mount

Specific TV settings are applied to suit the mounting location of the TV.

In the **[Preferences]** menu, select **[TV placement]** > **[On a TV stand]** or **[Wall mounted]**, then press **OK**.

Update software

TV: Check version

1 Press ♠.

2 Select **[Setup]** > **[Software settings]** > **[Current software info]**, then press **OK**.

The version of the current software is displayed.

TV: USB update

Before performing this procedure be sure to:

- Set aside some time to complete the entire update.

- Have available a USB flash drive with at least 256 MB of storage space.

- Have access to a computer with a USB port and internet access.

1 Press ♠.

2 Select **[Setup]** > **[Update software]**, then press **OK**. The update assistant starts. Follow the on-screen instructions to complete the update.

> **Note**
>
> • If you already have the upgrade file downloaded onto a USB flash drive, connect it to the TV. Then, select **[Setup]** > **[Software settings]** > **[Local updates]**.

Reinstall the TV

Reinstalling your TV resets all picture and sound settings, and reinstalls all TV channels.

1 Press ♠.

2 Select **[Setup]** > **[TV settings]** > **[Reinstall TV],** then press **OK**.

3 Follow the on-screen instructions.

7a Professional mode instruction

Introduction

Included in this TV is a special functional mode that allows the TV to be configured for commerical application. This feature is called Professional mode.

This section has been designed to help install and operate this TV in Professional mode. Before reading this section, please read section 3 to 6 to set the basic functionality of this TV.

Benefits of Professional mode

This TV is specially designed to operate in Professional Mode. Professional Mode offers the following benefits:

Access to the **[TV Setup Menu]** can be blocked. This prevents users (e.g. guests) from deleting or changing channel settings and / or modifying picture and sound settings. This ensures that TVs are always set up correctly.

- A switch-on volume and channel can be selected. After switching on, the TV will always start on the specified volume level and channel.
- The maximum volume level of the TV can be limited in order to prevent disturbance to other guest.
- Channels can be blanked (Video only).
- The TV local buttons **VOLUME +/-**, **P/CH+/-** and **⌂ (Home)** can be locked.
- Screen information can be suppressed.

Professional Setup Remote control (22AV8573 optional)
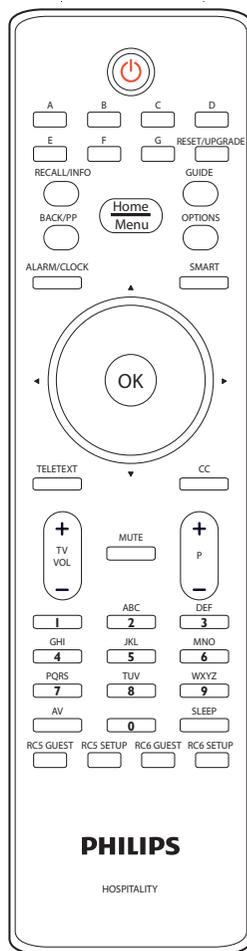
To enter the Professional Setup menu
- Press **RC5 Setup**.
- Press **HOME/MENU**.

On a Guest remote
- Press **[3, 1, 9, 7, 5, 3, ⍤ (MUTE)]**.

> **Note**
>
> - **SETUP** mode should be selected for hotel installer.

Professional mode options

This paragraph describes the functionality of each item in the Professional mode setup menu.
Enter the next layer by pressing OK, or ▶. Return to a previous level by pressing ◀.
Navigate in the current layer by pressing ▲, or ▼.

Layer 1	Layer 2	Layer 3	Layer 4
PBS Setup	PBS Setup menu language	English, Français, Deutsch, Italiano	
	PBS Mode	Off / On	
	Room ID	####	
	Switch on settings	Switch on volume	[0..60] Slider [15]
		Maximum volume	[0..60] Slider [60]
		Switch on channel	[List: AV & RF channels]
	Welcome message	Display message	Off / On
		Welcome message line 1	Edit text
		Welcome message line 2	Edit text
		Clear	Erase messages 1 & 2
		Message time-out	20sec., 25sec., 30sec.
	Control settings	Local keyboard lock	Off / On
		Remote control lock	Off / On
		OSD display	Off / On
		High security mode	Off / On
		Browse USB	Off / On
		Auto scart	AV, Power On Scart, Off
		Easylink break-in	Off / On
		Easylink control	Off / On
		Auto USB	Off / On
		Enable CI slot	Off / On
		Enable Teletext	Off / On
		Enable MHEG	Off / On
		Enable EPG	Off / On
		Enable Subtitle	Off / On
	Power settings	Power on	On / Standby
		Low power standby	Fast / Green
		Smart power	On / Off
	Clock settings	Display Standby	Off / 1, 2, 3, 4, 5
		Display On	Off / 1, 2, 3, 4, 5
		Time Setting	<Entry> on manual
		Time Download	Automatic, Manual, Country dependent
		Download Program	[List: RF channels]
		Time Offset	<-12 – 0 – 12>
		Buzzer Volume	Off / Low / High
	Feature settings	Multi RC	Off / Blue, Green, Yellow, Red
		MyChoice	On / Off
		Theme TV	On / Off / Startup
		VSecure	
		Mode	Stand alone / RF static
		Load key to USB	<Action>
		Load key to TV	<Action>

Layer 1	Layer 2	Layer 3	Layer 4
PBS Setup	Feature settings	Vsecure self test	<Action>
		Program Info	Frequency, Medium, Service ID, ONID, NID, TSID, Symbol Rate, Modulation
		Erase key option	Shared key, Odd key, Even key, All
		Erase key	
	Speaker settings	TV Speaker Enable	Off / On
		Independent Main Speaker Mute	Off / On
		Default Main Speaker Volume	[0..60] Slider [15]
	Factory default	<Action>	
TV setup			
Channel setup	Enter TV Channel Setup	<Action>	
Store Settings			
Smart Clone	USB to TV	<Action>	
	TV to USB	<Action>	
RF Download	SW types	SSB Firmware / SSB NVM / Standby Firmware / ThemeTV / All	
	Program Info	Frequency, Medium, Service ID, ONID, NID, TSID, Symbol Rate, Modulation	
	Start Download	<Action>	

Setup settings

PBS Setup

[PBS Setup menu language]
Select menu language to be English, French, German or Italian.

[PBS mode]
Enables / disables the Professional mode.
- **[On]:** All settings in the Professional mode Setup menu are in effect.
- **[Off]:** The TV operates as a normal (consumer) TV.

Only if set to Off mode it is possible to enter install channels (using Channel setup) and make other TV specific settings (i.e. brightness, .. etc).

[Room ID]
Entry field to store 4 character to identify Room ID.

[Switch on settings]
- **[Switch on volume]**: When the guest switches the TV on, it will play at the specified volume level.

- **[Maximum volume]**: This option specifies the maximum allowable volume level of the TV.

- **[Switch on channel]**: When the guest switches the TV on, it will play at the specified channel.

[Welcome message]
The Welcome message function allows the TV to show a customized greeting to the hotel guest whenever the TV is switched on. This helps to personalize the hotel experience for guests. The Welcome message can consist of 2 lines of text, with each line containing a maximum of 20 alphanumeric characters. Use Navigation buttons on the remote control to compose the Welcome message.

Note

- Welcome message is always disabled if you select **[BDS Mode Setting]** > **[OSD display]** > **[Off]**.

- **[Display message]**: Select to show the welcome message at power up cycle: **[On]** to activate, **[Off]** to disable.

- **[Welcome message line 1]**: Set the characters of the first line message.

- **[Welcome message line 2]**: Set the characters of the second line message.

- **[Clear]**: Clear the settings in Line 1 and Line 2.

- **[Message Time-out]**: Set the period of time to display the welcome message on the screen when TV is turned on from standby / Off.

[Control Settings]
- **[Local keyboard lock]**:
  [Off]: The TV local buttons will function normally.
  [On]: The TV local buttons are locked, except ⏻ **(Power)**.

- **[Remote control lock]**:
  [Off]: All buttons on Guest remote control will function normally.
  [On]: All buttons on the Guest remote control are disabled.
(It is still possible to enter the PBS Setup menu by pressing **[3, 1, 9, 7, 5, 3, ⊠ (MUTE)]**).

- **[OSD display]**:
  Set this function to show or hide screen information.
  [Off]: Screen information is suppressed.
  [On]: Normal screen information is displayed.

- **[High security mode]**:
  [Off]: Professional mode setup menu can be accessed by both Guest remote control

(Press **[3, 1, 9, 7, 5, 3, ⌖ (MUTE)]** and the Professional setup remote control)

  [On]: Professional mode setup menu can only be accessed by the Professional setup remote control.

- **[Browse USB]**:
  Enables / disables the USB Browse icon to be presented in the Guest Menu.
  [Off]: When set to Off, the TV will hide the USB icon in the Home menu.
  [On]: When set to On, the TV will show the USB icon in the Home menu.

- **[Auto scart]**:
  Enables auto scart switching (or break-in) in Professional mode.
  [AV]: (Only available if EXT I Scart source is connected to the TV). Select EXT I as the auto switching source when TV restarts from standby / Off, or when EXT 1 signal is detected.
  [Power On Scart]: Set scart source as power on / off button. When the connected scart source is turned on / off, the TV enters to on / standby mode simultaneously.
  [Off]: Disable auto scart switching or break-in Professional mode.

- **[Easylink break-in]**:
  Enables or disables HDMI-CEC standby feature in Professional mode:
  [Off]: Not able to switch on the TV by external HDMI-CEC devices.
  [On]: Able to switch on the TV by external HDMI-CEC devices.

- **[Easylink control]**:
  Enables or disables HDMI-CEC one touch play feature in Professional mode:
  [Off]: Disables TV functionality to control external HDMI-CEC devices.
  [On]: Enables TV functionality to control external HDMI-CEC devices.

- **[Auto USB]**:
  Enables or disables USB break-in feature in Professional mode:
  [Off]: When USB device is plugged in, the **[Multimedia]** menu will not appear automatically, but users can access **[Multimedia]** menu from the Guest menu.
  [On]: When USB device is plugged in, the **[Multimedia]** menu appears automatically.

- **[Enable CI-slot]**:
  Enables or disables the use of the integrated CI slot:
  [Off]: No TV input via the CI-Slot Card is possible.
  [On]: TV input via the CI-Slot Card is possible.

- **[Enable Teletext]**:
  Enables or disables the use of Teletext OSD on pressing **Teletext** button:
  [Off]: No Teletext services available *(Prison Mode)*
  [On]: Teletext services available

- **[Enable MHEG]**:
  Enables or disables the use of MHEG OSD on pressing **MHEG** button:
  [Off]: No MHEG services available *(Prison Mode)*
  [On]: MHEG services available

- **[Enable EPG]**:
  Enables or disables the use of EPG OSD on pressing **EPG** button:
  [Off]: No EPG *(Now/Next)* services available *(Prison Mode)*
  [On]: EPG *(Now/Next)* services available

- **[Enable Subtitles]**:
  Enables or disables the use of subtitles in
  a DVB broadcast channel:
    [Off]: No subtitles services available
    (Prison Mode)
    [On]: Subtitles services available

[Power settings]
- **[Power on]**: The power on function
  allows the TV to enter a specific mode
  (**[On]** or **[Standby]**) of operation when
  the mains power is activated *(cold start)*:
    [On]: The TV will always turn on (show
    startup channel) after the mains power
    is activated.
    [Standby]: When set, the TV will always
    turn to standby (status as defined in
    Low power standby option) after the
    mains power is activated.

- **[Low power standby]**:
  The Low power standby option defines
  the TV to enter a specific standby mode
  after pressing the On/Off button on the
  remote control. To wake-up the TV both
  On/Off button on the RC or TV can be
  pressed:
    [Fast]: The TV will quickly turn on
    (show startup channel. *(This mode is
    having more power consumption than the
    Green mode)*.
    [Green]: The TV will slower turn
    on (show startup channel) then the
    Fast. *(This mode is having less power
    consumption than the Fast mode)*.

- **[Smart power]**:
  The power consumption for the Smart
  power mode is defined by the Standard
  Smart Picture setting in the TV Setup
  part.
    [Off]: The TV will start with Standard
    Smart Picture setting, but the setting
    can be changed in the guest setup
    mode.
    [On]: The TV will start with Standard
    Smart Picture setting and Smart Picture
    setup is not selectable in the guest
    setup mode.

[Clock settings]
- **[Display Standby]**: Define the brightness
  level for the Clock LCD backlight if the TV
  is in Standby mode:
    [Set]: Off, 1, 2, 3, 4, 5
- **[Display On]**: Define the brightness level
  for the Clock LCD backlight if the TV is in
  On mode:
    [Set]: Off, 1, 2, 3, 4, 5

- **[Time Setting]**: This is only available if the
  Time Download is set to Manual and can
  be used to set the clock with the remote
  control:
    [Set]: Time entry field [xx:xx Hr]
  Time to be set by using arrow keys and numeric buttons

- **[Time Download]**: Select source for clock
  time:
    [Automatic]: During cold start the
    Clock time is retrieved from the
    Download Program channel before
    displaying the tuned channel.
    During a 'going to Standby cycle', the
    clock time is updated as well.

    [Manual]: The clock time is set using
    the Time Setting option.

    [Country dependent]: During cold
    start the Clock time is retrieved from
    the Download Program channel before
    displaying the tuned channel, and
    country dependent settings are made
    (UTC+LTO). During a 'going to Standby
    cycle', the clock time is updated as well.

- **[Download Program]:** Select the
  programme where time downloading
  must be performed.

- **[Time Offset]**: Offset time added to the
  downloaded clock time:
    [Slider]: -12 to 12 hr

- **[Buzzer Volume]**: Volume level of the
  Clock Time Alarm level:
    [Set]: Off, Low, High

[Feature settings]

- **[Multi RC]**: This function allows that up to four televisions can be installed in a room whereas every TV will listen to its own RC. Once the TV is set, also every RC can be set to remember its connected TV:

    [Off]: This function is not used; all TVs will listen to a 'blue' RC.
    [Blue]: The TV will listen to a 'blue' RC.
    Press and hold the blue button for two seconds.
    [Green]: The TV will listen to a 'green' RC.
    Press and hold the green button for two seconds.
    [Yellow]: The TV will listen to a 'yellow' RC.
    Press and hold the yellow button for two seconds.
    [Red]: The TV will listen to a 'red' RC.
    Press and hold the red button for two seconds.

- **[MyChoice]**: With MyChoice it is possible to activate two channel rings: R0 when MyChoice PIN is valid, and R1 if not.

    [Off]: Single channel map as configured during channel installation.
    [On]: Channel ring R0 to be available to guest in case of valid PIN entered; R1 if not.

- **[Theme TV]**: With ThemeTV it is possible to activate a customizable UI to select upto 15 different themes that contains Channle references. ThemeTV can be presented on the display by means of pressing the ThemeTV button on the RC, or automatically after starting up the TV:

    [Off]: ThemeTV disabled.
    [On]: Show ThemeTV on the display after pressing the Theme TV button on the RC.
    [Startup]: Show ThemeTV on startup and able to show ThemeTV by pressing the Theme TV button on the RC.

- **[VSecure]**: VSecure is the hospitality content scrambling method used by the Philips Hospitality TVs. With its internal VSecure Authorization key a VSecure Unprotect key can be generated. If this VSecure Unprotect key is stored in the TV, the TV is able to descramble protected content. Loading the VSecure Unprotect key can be done by USB memory device or via DVB RF:

- **[Mode]**:

    [Stand alone]: The VSecure Unprotect key is to be stored once via USB and will remain available until manual erasing it.
    [RF Static]: The VSecure Unprotect key is to be stored via RF and will remain valid until manual erasing it or receiving a successive VSecure Unprotect key.
    [RF Dynamic]: The VSecure Unprotect key is to be stored via RF and will remain valid until power down or receiving a successive VSecure Unprotect key.

- **[Load key to USB]**:

    [Action]: Place a USB memory device in the USB side I/O.
    Press ► or **OK** to copy the VSecure Authorization key to the USB memory device.

- **[Load key to TV]**:

    [Action]: Place a USB memory device with a valid VSecure Unprotect key in the USB side I/O.
    Press ► or **OK** to copy the VSecure Unprotect key to the USB memory device.

- **[Vsecure self test]**:

    [Action]: Internal self test to validate VSecure. After this load proper hotel specific keys.

- **[Program Info]**:

    [Action]: This function is to set the necessary DVB parameters to locate the proper VSecure RF channel to load the VSecure RF Static or RF Dynamic key(s):

[Frequency]	Frequency of MUX	(0362)
[Medium]	Cable or Antenna (DVB T/C)	
[Service ID]	# # # # #	(00001)
[ONID]	# # # # #	(00000)
[NID]	# # # # #	(00000)
[TSID]	# # # # #	(00000)
[Symbol Rate]	# . # # #	(6.900)
[Modulation]	QAM16, QAM32, QAM64, QAM128, QAM256	

Above parameters must match head-end configuration.

- **[Erase key option]**:This function is to set the stored VSecure Unprotect key(s) to erase:

    [Shared key]: Erase the Shared key
    [Odd key]: Erase the Odd key
    [Even key]: Erase the Even key
    [All keys]: Erase the Shared, Odd and Even keys

- **[Erase key]**: This function is to erase the key that were selected by the Erase key option:

    [Action]: Press ► or **OK** to erase the key(s).

[Speaker settings]

This function defines the simultaneously working of the integrated speakers and the headphone/bathroom speakers.

- **[TV Speaker Enable]**:

    [Off]: The main speakers are muted. The RC can control the volume and mute of the headphone/bathroom speaker.

    [On]: The main speakers are active and the behavior of the headphone/bathroom speaker is defined by the Independent Main Speaker Mute.

- **[Independent Main Speaker Mute]**:

    [Off]: The RC volume and mute will control the main speakers and headphone bathroom speaker simultaneously.

    [On]: If the main speakers are muted by the RC, the RC will control the volume of the headphone/bathroom speaker.

- **[Default Main Speaker Volume]**:
    This option defines the volume level that will be set to the main speakers when the TV is unmated and the Independent Main Speaker Mute is set to 'On'.

[Factory default]

Restore the factory picture and sound setting. Channel installation is not changed.

TV Setup

The TV Setup enables a mode to make changes to the TV settings (i.e. channel installations, brightnes, and others).

Before activate this action, store changed settings.

Channel Setup

The Channel Setup function depends on the state of the PBS Mode:

Channel Configuration

[Channel setup]

Layer 1	Layer 2	Layer 3
Channel setup	<Action>	Press OK or ▶

Activate the channel setup menu item by pressing **OK**, or ▶ and the installed channels will be displayed in a Channel Grid.

Press **RC6 GUEST** on the Professional Setup RC to put this into TV Setup mode.

Press **OPTIONS** on the Professional Setup RC to option the options display.

The following options can be selected:
- Rename
- Reorder
- Show hidden channels
- Hide channel
- Blank channels
- MyChoice setup
- ThemeTV setup

[Rename]
Rename the current selected channel.

[Reorder]
Change the order of the current channel to be presented in the Chanel Grid:

- Navigate to the channel to be adjusted
- Press **OK**
- Move the current channel to the preferred location using the arrow keys
- Press **OK** to accept
  [Insert]: Channel will be inserted in the Channel Grid order.
  [Swap]: Both selected channels will swap their location in the Channel Grid order.
- Make next changes, or press **Options** to exit.

[Show hidden channels]
Presents the hidden channels in the Channel Grid as blanks.
These blank channels can NOT be selected by Channel number or **P+** / **P-**.
If activated new a second level for **Options** is available:

Exit	Cancel operation
Unhide All	Make all channels visual again
Blank Channels	The Blank channels function disables the display of video on the TV, but does not affect the audio output. This function can be used for audio applications (example: music-only channels, and so on) which do not necessarily require the display of video. Mark the channels to be blanked.

[Hide channels]
Hide the current channel on the Channel Grid. This channel can NOT be selected by Channel number or **P+** / **P-**.

[MyChoice setup]

The MyChoice setup feature enables the configuration of the the MyChoice PayTV channel list and 'the other'channels list.

In the event that the MyChoice function is activated and a valid PIN code is received, the channels in R0 will become available to the guest.

In the event that the MyChoice function is activated and no valid PIN code is received, the channels in R1 will become available to the guest.

Mark the channels that are to be included in list R0 and R1.

[ThemeTV setup]

The ThemeTV setup feature enables the configuration of the UI and the configured channels.

For country specific themes, the Theme 1 up to Theme 12 can be configured.

For the specific 'other' themes, Theme 13 up to Them 15 can be configured.

Mark the channels that are to be included in the themes.

Store Settings

To confirm the changes in the PBS Setup menu the changes 'MUST' be stored.

[Action]

Press ► or **OK** to store the new settings.

Smart Clone

Place a USB Memory stick in the USB side I/O connector.

Layer 1	Layer 2	Layer 3
Smart Clone	USB to TV	Press **OK** or ►

TV will read and store Cloning data from USB stick.

RF Download

Instead of using USB memory device to do cloning (tbd) and firmware update, this upgrading is also possible using the RF infrastructure. This is covered by Philips Hospitality RF Download and allows a simultaneous upgrade of all installed televisions.

[SW Types]

Defining the software parts to be upgraded:

- **[SSB Firmware]**: TV Firmware
- **[SSB NVM]**: TV Settings
- **[StandBy Firmware]**: Firmware for the StandBy CPU
- **[Theme TV]**: Supporting files for ThemeTV:
  - R1.png – R15.png
  - R1s.png – R15s.png
  - Background.png
  - Header.png
  - Footer.png
- **[All]**: All of above

[Program Info]

This function is to set the necessary DVB parameters to locate the proper VSecure RF channel to load the VSecure RF Static or RF Dynamic key(s):

[Frequency]	Frequency of MUX	(0706)
[Medium]	Cable or Antenna (DVB T/C)	
[Service ID]	# # # # #	(00001)
[ONID]	# # # # #	(00000)
[NID]	# # # # #	(00000)
[TSID]	# # # # #	(00000)
[Symbol Rate]	# . # # #	(6.900)
[Modulation]	QAM16, QAM32, QAM64, QAM128, QAM256	

Above parameters must match head-end configuration.

[Start Download]

To initiate RF Download just press OK or ►.

7b Guest mode instruction

Introduction

When this television is configured as a professional television, the guest is having no access to TV functionality that can influence TVs expected behavior.

The guest will not have access to menus that can change the channel configuration, nor can he, as example, put the TV on a louder audio level then is permitted in the BDS Mode setting.

This section describes the functionality available to the guest.

PrimeSuite Remote Control

The Remote Control is designed to support together with the PrimeSuite television a predictable behavior.
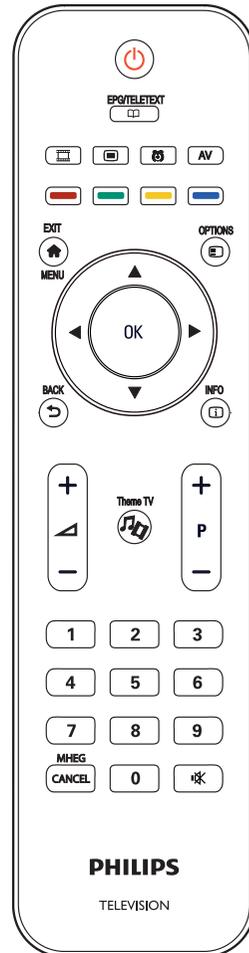
Activate the television

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

(2) 🏠 **(Home)**
Accesses the home menu.
The home menu gives easy access to watch TV, select connected devices and to make TV settings (picture, sound), set the sleep timer and alarm clock.

(3) 📖 **(Browse)**
Accesses the browse menu to select:
- Electronic Program Guide
  Now / Next channel information
- TV channel list
  Display Channel Grid
- Text
  Display Teletext service

(4) ↩ **(BACK)**
Returns to a previous menu screen.
Press and hold to return to watch TV.

*Not supported in MHEG mode.

(5) 🗐 **(OPTION)**
Access to options for the current selection.
Watch TV and press **[Options]** will bring up a menu to select: What's on, Subtitles, Audio language, Dual I-II, Status.

(6) 🛈 **(INFO)**
Now / Next channel information

(7) 🎛 **(MyChoice)**
MyChoice activation key

(8) 🦅 **(Theme TV)**
ThemeTV activation key

(9) ▣ **(OSRC)**
- On-Screen Remote Control
  Virtual control keys for HDMI-CEC devices.

(10) ⏰ **(ALARM)**
- Alarm Time
Menu to enable/disable clock alarm.

(11) **AV (External)**
- Selects connected devices.

8 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 connector
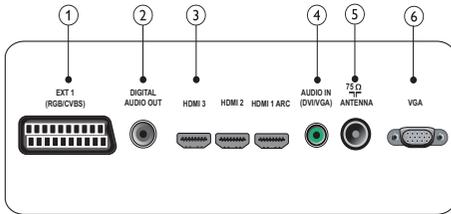
① **EXT 1 (CVBS and RGB)**
Analogue audio and video input from analogue or digital devices such as DVD players or game consoles.
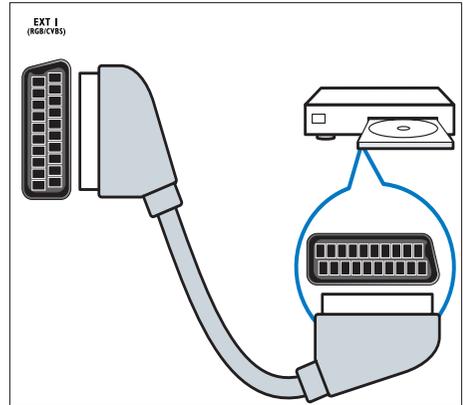
② **DIGITAL AUDIO OUT**
Audio and video output to analogue devices such as another TV or a recording device.
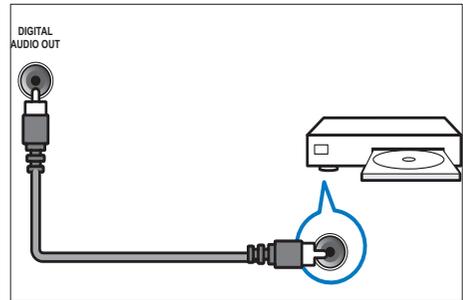
(3) **HDMI 1**

Digital audio and video input from high-definition digital devices such as Blu-ray players.
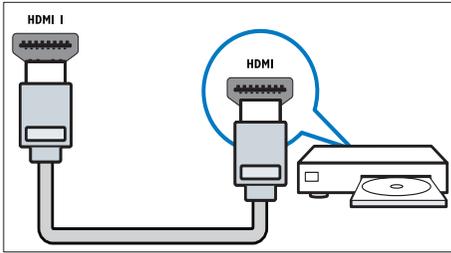
Connections via DVI or VGA require an additional audio cable.

(4) **AUDIO IN (DVI and VGA)**

Audio input from a computer.

(5) **TV ANTENNA**

Signal input from an antenna, cable or satellite.
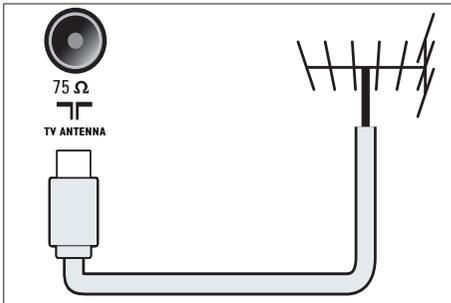
(6) **VGA**

Video input from a computer.

Side connector
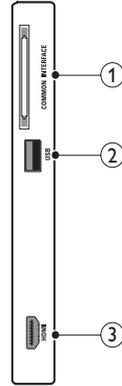
(1) **COMMON INTERFACE**

Slot for a Conditional Access Module (CAM).
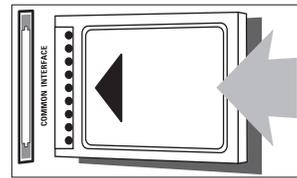
(2) **USB**

Data input from USB storage devices.
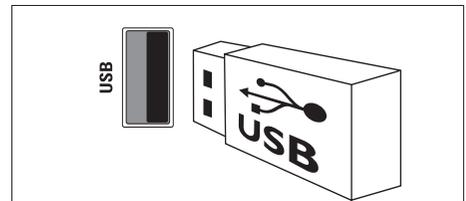
③ HDMI

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

• DVI-HDMI cable

PC AUDIO IN/ PC IN(AUDIO)

HDMI

DVI
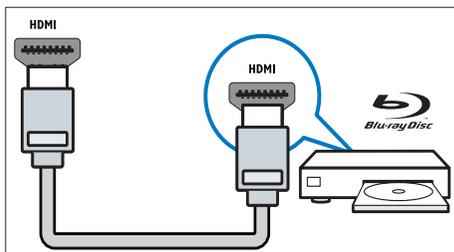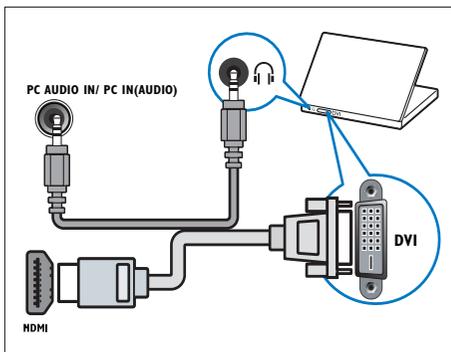
• HDMI cable and HDMI-DVI adaptor

PC AUDIO IN/ PC IN(AUDIO)

HDMI

DVI
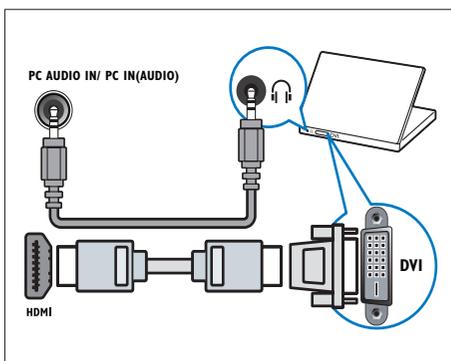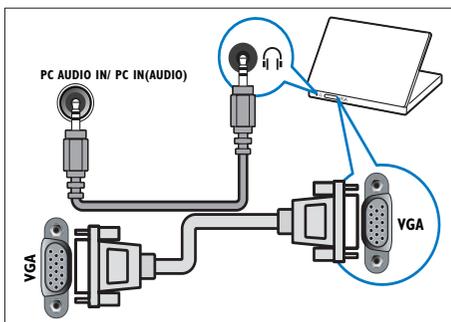
Connect a computer

Before you connect a computer to the TV

• Set the screen refresh rate on your computer to 60Hz.
• Select a supported screen resolution on your computer.

Connect a computer with one of the following connectors:

> **Note**
>
> • Connections via DVI or VGA require an additional audio cable.

• HDMI cable

HDMI

HDMI

• VGA cable

PC AUDIO IN/ PC IN(AUDIO)

VGA

VGA
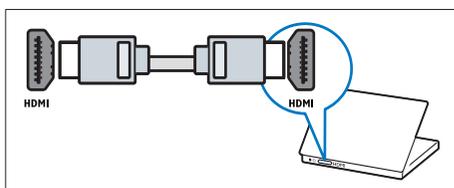
Use a Conditional Access Module

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

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

Insert and activate a CAM

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

1 Switch off the TV.
2 Following the directions printed on the CAM, gently insert the CAM into the **COMMON INTERFACE** at the side of the TV.
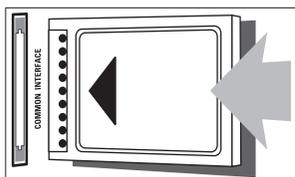
3 Push the CAM in as far as it will go.
4 Turn on the TV and wait for the CAM to be activated. This may take several minutes. Do not remove the CAM from the slot when in use — removing the CAM will deactivate digital services.

Access CAM services

1 After inserting and activating the CAM, press ♠.
2 Press ▲▼◄► to select **[Common interface]**.
  » Applications provided by the digital TV service operator appear on the screen.

> **Note**
>
> • This menu option is available only if the CAM is inserted and activated correctly.

Use Philips EasyLink

Your TV supports Philips EasyLink, which enables one-touch play and one-touch standby between EasyLink-compliant devices.

> **Note**
>
> • Compliant devices must be connected to your TV via HDMI.

Enable or disable EasyLink

> **Note**
>
> • Do not enable Philips EasyLink if you do not intend to use it.

1 Press ♠.
2 Press ▲▼◄► to select **[Setup]** > **[TV settings]** > **[EasyLink]**.
3 Select **[On]** or **[Off]**.

Use one-touch play

1 After enabling EasyLink, press play on your device.

» The TV automatically switches to the correct source.

## Use one-touch standby

1 Press and hold ⏻ (**Standby**) on the TV's or device's remote control for at least three seconds.

» The TV and all connected HDMI devices switch to standby.

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.
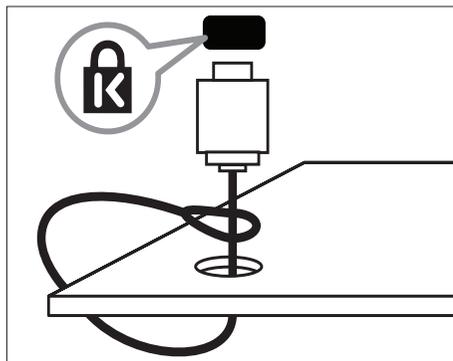
9 Product information

Product information is subject to change without notice. For detailed product information, go to www.philips.com/support.

Supported display resolutions

Computer formats
- Resolution - refresh rate:
  - 640 x 480 - 60Hz
  - 800 x 600 - 60Hz
  - 1024 x 768 - 60Hz
  - 1280 x 1024 - 60 Hz (For Full HD only)
  - 1360 x 768 - 60Hz
  - 1600 x 1200 - 60Hz (For Full HD only)
  - 1920 x 1080 - 60Hz

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

Multimedia

- Supported storage device: USB (Only FAT or FAT 32 USB storage devices are supported)
- Supported multimedia file formats:
  - Images: JPG. JPEG
  - Audio: MP3. WMA
  - Video: MPEG 1/MPEG 2, H.264/MPEG-4AVC

Note

- Multimedia file names must not exceed 128 characters.

Tuner / Reception / Transmission

- Aerial input: 75ohm coaxial (IEC75)
- DVB: DVB Terrestrial, DVB-T MPEG4 (only in some models)
- TV system: DVB COFDM 2K/8K; PAL I, B/G, D/K; SECAM B/G, D/K, L/L'
- Video playback: NTSC, SECAM, PAL
- Tuner Bands: Hyperband, S-channel, UHF, VHF

Remote control

- Type: RC-6
- Batteries: 2 x AAA (LR03 type)

Power

- Mains power: 220-240V, 50~60Hz
- Standby power: < 0.5 W
- Ambient temperature: 5 to 40 degrees Celsius

Supported TV mounts

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

Warning

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

TV screen size (inches)	Required pitch (mm)	Required mounting bolts (≤ 10mm)
22	100 x 100	4 x M4
26	100 x 200	6 x M4
32	200 x 200	4 x M6
42	300 x 200	4 x M6

10 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 TV lock feature
- Enter '8888'.

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 down and warms up. This does not impact performance.

When TV start-up time is slow:
- Select [Fast] mode in [Low power standby] menu.

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

There is poor picture quality from connected devices:
- Check that the devices are connected properly.
- Check that the picture settings are correctly set.

The TV did not save your picture settings:
- Check that the TV location is set to the home setting. This mode offers you the flexibility to change and save settings.

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

*   Try using a different picture format.

The picture position is incorrect:

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

Sound issues

There is a picture but sound quality is poor:

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

*   Check that all cables are properly connected.
*   Check that the volume is not set to 0.
*   Check that the sound is not muted.

There is a picture but the sound quality is poor:

*   Check that the sound settings are correctly set.

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

*   Verify that sound balance is set to the centre.

HDMI connection issues

There are problems with HDMI devices:

*   Note that HDCP (High-bandwidth Digital Content Protection) support can delay the time taken for a TV to display content from a HDMI device.
*   If the TV does not recognise 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 your PC uses the supported resolution and refresh rate.
*   Set the TV picture format to unscaled.

Contact us

If you cannot resolve your problem, refer to the FAQs for this product at www.philips.com/support.
If the problem remains unresolved, contact Philips Consumer Care in your country as listed in the warranty leaflet.

> **Warning**
>
> *   Do not attempt to repair the product yourself. This may cause severe injury, irreparable damage to your product 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.

11 Attachment A

This section describes commonly encountered issues when installing DVB-T channels.

DVB-T installation issues

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