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EN User Manual

PHILIPS

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1 Notice

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Pixel Characteristics

This LCD/LED product has a high color pixels. Although it has effective pixels of 99.999% or higher, the screen may appear black or have bright spots (red, green, or blue). This is the structural properties of the display (within the common industry standards), and is not a fault.

Change components

Users are not allowed to change any components. Do not open or remove the back cover of the television and expose its inside. It must be repaired by Philips service centers and official repair shops. Otherwise, all declared or implied warranties will be invalidated.

Any operations specifically prohibited in this manual, any adjustments, or assembly procedures not recommended nor authorized in this manual are not within the scope of the warranty.

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2 Important

Before you start using the TV, please read and understand all instructions. If it is damaged due to failure to operate in accordance with the instructions, it is not covered by the warranty.

Safety

Risk of electric shock or fire!!

- Do not expose the TV set to rain or water. Do not place any liquid containers (such as vases) next to the TV. If liquid is spilled onto the surface or inside of the TV set, please power off the TV. Please contact Philips' customer service center, do not use the TV set before check.
- Do not put the TV, remote control or batteries near flame or heat source that is not isolated, nor directly expose it to sunlight.
- To avoid heat impact, keep the TV, remote control and batteries away from candles or other sources of ignition.



- Please do not insert any articles into TV vents or other openings.
- When the TV set runs, make sure that the power cord does not become too tight. If the power cable becomes too tight, the plug may become loose and experience arcing.

Risk of short circuit or fire!

- Do not expose remote control or batteries to rain, water or hot environments.
- Please avoid subject the power plug to external forces. A loose power plug may cause arcing or fire.

Risk of TV damage or destruction!

- The TV with a weight greater than 25 kilograms or 55 pounds needs to be handled by two persons.
- Upon mounting the straight stand on TV, be sure to use the attached base. Make sure that the straight stand can firmly support the TV set. Please place your TV on the flat surface that can support the total weight of the TV set and the straight stand.
- Upon wall-mounting the TV set, please be sure to use the bracket that can support the weight of the TV set. Fix the bracket firmly on the wall that can support the total weight of both the TV set and the bracket. TP Vision Europe B.V. does not bear any responsibility for accidents, damage or destruction due to incorrect wall mounting of the TV set.
- Some parts of this product may contain glass elements. Please exercise caution to avoid personal injury or mechanical damage.

Causing the risk of injury of children!

Please observe the following precautions to avoid TV fall and child injury:

- Do not place the TV set on the surface covered by the fabrics or other materials easy to pull.
- Ensure that TV set does not have any part of it protruded beyond the edge of the surface.
- To place the TV set on the top of a tall item of furniture (bookcases, for example), please be sure to fix the furniture and the TV set onto the wall or the appropriate support point.
- Tell your children that climbing onto furniture to touch the TV set is prone to danger.

Risk of overheating!

- Do not place the TV set in a narrow space. The TV must be reserved a space of at least 4 inches or 10 cm around it to ventilate. Make sure not

to allow curtains or other objects to cover the vents of the TV set.

If inadvertently, the TV set may be damaged!

- Before connecting the TV set to a power outlet, make sure the outlet voltage is consistent with the values printed on the back of the TV set. If both voltage values do not match, do not connect the TV to the power outlet.
- If your TV needs to be moved into the storage room for storage, first remove its base from the TV set. Do not place the TV set flat against its back when its base is not removed.

Risk of injury, fire or power cord damage!

- Do not put the TV or any objects upon the power line.
- For easy removal of the TV's power cord from the power outlet, a smooth and easy access to the power cord should always be kept.
- When pulling out the power cord, be sure to pull it from its plug part, and never pull the cable.
- Before the thunderstorm comes, please cut off the connection between the TV set, the power outlet and the antenna. During a thunderstorm, do not touch any part, power cord or antenna cable of the TV set!

Risk of hearing loss!

- Do not set the headset volume too high and don't use the headset for a long time.

Low temperatures

- If the TV set is transported at an ambient temperature below 5 °C or 41 °F, please wait for some time after the TV is taken out of the box until the TV's temperature returns to room temperature before it is connected to the power outlet.

Screen protection

- Please try to avoid rendering fixed images on the screen. A so-called fixed image means an image stays on the screen for a long time. For example, on-screen menus, black bars, and time display. If you must use fixed images, please reduce screen contrast and brightness to avoid screen damage.
- Remove the power cord before cleaning the TV.
- Use a slightly damp, soft cloth to clean the TV set and its frame. Do not use such substances as alcohol, chemicals or household cleaners to clean the TV set.
- If inadvertently, the TV screen may be damaged! Do not use items to touch, push, rub or strike the screen.
- To avoid warping and fading, please wipe the water droplets as soon as possible.



Note

Static images may cause permanent damage to the TV screen

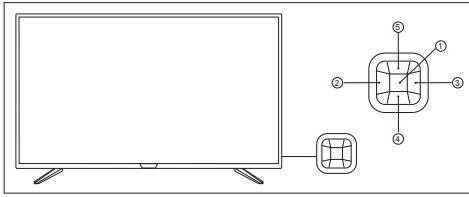
- Do not display static images on the LCD/LED screen for more than two hours, as this can cause ghosting. To prevent ghosting, please reduce the brightness and contrast of the screen.
- Watching TV in 4:3 format for a long time may leave different marks on the left and right edges of the screen and the border of the image. Avoid using this mode for a long time.
- Long-term display of static images in videos and games or computers can cause some blurring and ghosting due to screen burn. Please correspondingly reduce the screen brightness and contrast when using the TV set in this way.

The ghosting, partial ghosting and other traces displayed on the TV screen for the above reasons are not within the scope of this warranty.

3 TV Overview

Congratulations for purchasing and using Philips product! In order to enjoy all the supports provided by Philips, please register your TV at www.philips.com/welcome.

Control Panel

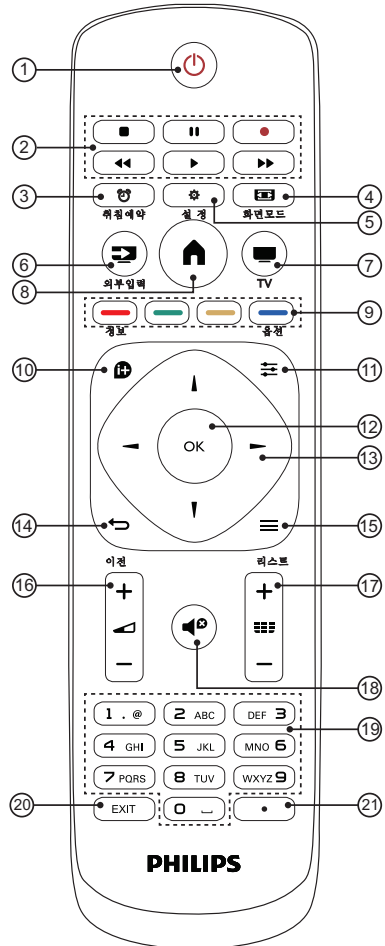


(Product shape may vary according to the different models, please refer to the actual models!)

- ① Open/close control menu:
 - On the control menu, when the cursor is displayed in the volume, channel, signal sources, press this button to close the control menu.
 - When the cursor is displayed as being shut down, press this button to shut down the TV set
 - Upon operating the common interface, it can be used as an OK button.
- ② / ③
 - Press to switch channels.
 - When operating the common interface, you can move the cursor around.
- ④ / ⑤
 - When the cursor appears in the volume, press this button to adjust the volume.
 - When the cursor is displayed in the channel, press this button to switch channels.

- When the cursor is displayed in the signal source, press this button to switch the signal sources.
- Upon operating the common interface, you can move the cursor up and down.

Remote Control



- ① **⏻ (Standby-Power On)**
Start the display or enter the standby status.

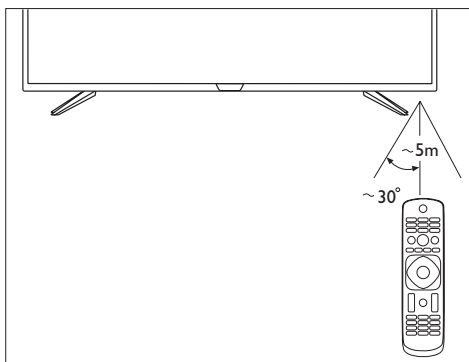
- ② **Playback and Record**
Control playback of multimedia files.
- ③ **Sleep timer**
Quickly start and set the sleep timer.
- ④ **FORMAT**
Change the picture format to suit the video source.
- ⑤ **SETUP**
Open the Settings menu.
- ⑥ **SOURCES**
Open or close the signal source menu, and select the connected device.
- ⑦ **TV**
Switch back to the TV screen directly.
- ⑧ **Home**
Open the Home menu.
- ⑨ **Color bars**
Select corresponding tasks or options.
- ⑩ **INFO**
Display the related information about the signals of the currently played screen.
- ⑪ **OPTIONS**
Open or close the Options menu.
- ⑫ **OK button**
Confirm an entry or selection. To press 0-9 number keys and then press OK (confirm) when selecting channels.
- ⑬ **Navigation button**
Navigate through menus and select items.
- ⑭ **BACK**
Return to the previous level/page.
- ⑮ **LIST**
Open or close the channel list.
- ⑯ **Volume +/-**
Adjust volume.
- ⑰ **Channel +/-**
Switch the next or previous channel.
- ⑱ **Mute**
Mute or restore audio.

- ⑲ **0-9 number keys**
Select channels or enter text.
- ⑳ **EXIT**
Close the menu.
- ㉑ **(Dot)**
Enter digital sub-channels.

Use of remote controller

When using the remote control, press and hold it near the TV set, and point it to the remote control sensor.

Ensure furniture, walls or other objects have not blocked the sight between the remote control and the TV set.



(Product shape may vary according to the different models, please refer to the actual models!)

4 Using TV


This section introduces the basic operations of the TV.

Switch on, off, or standby


On or standby

Before you switch on the TV, make sure you plugged the power cord into the AC power outlet and on the back of the TV.

Turn on the TV

- With the TV in Standby, press  (**Standby-Power on**) on the remote control to switch the TV on. You can also press the small joystick key on the back of the TV to switch the TV on in case you can't find the remote control or its batteries are empty

Switch to standby

- Press the  (**Standby-Power on**) on the remote control. You can also press the small joystick key on the back of the TV.

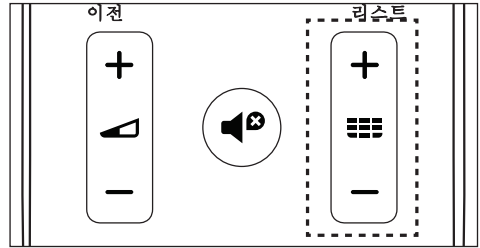
Tip



- In standby mode, the TV is still connected to the mains power but consumes very little energy.
- To switch off the TV completely, disconnect the power plug.
- When disconnecting the power plug, always pull the power plug, never the cord. Ensure that you have full access to the power plug, power cord and outlet socket at all times.

Keys on TV

If you lost the remote control or its batteries are empty, you can still do some basic TV operations by using the joystick on the back of the TV.


Switch channels



- Press  **Channel +/-** on the remote control.
- Enter the channel number using the number keys on the remote control.
- Press  **BACK** button on the remote control to switch back to the previous channel.

Switch channels from a channel list

You can use the channel list to watch all the channels that can be received.

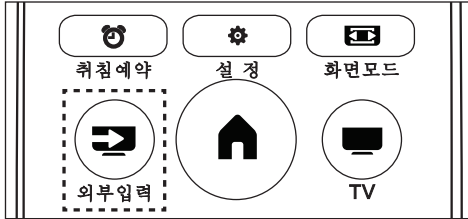
- 1 Press  **LIST**.
↳ To display the channel list.
- 2 Use navigation button to select channels.
- 3 Press **OK** to watch the selected channel.

To close the channel list without switching channels, press  **LIST** again.

Switch to a device

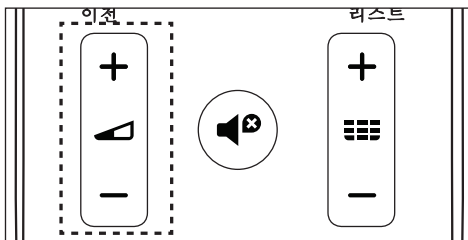
Note

- Before selecting an external signal source, please start up the external device.



- 1 Press **SOURCES** to open the Source menu.
- 2 Select one of the item in the source list.
- 3 Press **OK** to select.
 - ↳ TV is switched to the selected device.

Adjust the TV volume



Increase or reduce the volume


- Press **Volume +/-** on the remote control.

Mute or Unmute

- Press **Mute** button on the remote control.
- Press **Mute** button on the remote control again to restore the sound.


5 Using More Feature of your TV

Access the TV menu

- 1 Press .
 - ↳ Open the TV menu.
- 2 Select one of the following options, and press **OK**:
 - **[Channels]**: Access the channels setting menu.
 - **[Sources]**: Open the source list.
 - **[Settings]**: Access the Settings menu.



Access the Setup menu

The menu can help you set channels, change the picture and sound settings, and set other features.

- 1 Press  **SETUP**.
 - ↳ Open the Settings menu.
- 2 Select one of the options and press **OK** to adjust the settings.

Change languages


You can select the language of the menus.

- 1 Press  **SETUP**, select **[Settings]** > **[Menu languages]**, then press .
- 2 Select the language you want, and then press **OK**.

Install channels

The first time you set up your TV, you are prompted to select a menu language and to install TV channels.

Automatic channel search


- 1 Press  **SETUP**.
- 2 Select **[TV]** > **[Antenna Channel Search]** or **[Cable Channel Search]** and press **OK**.
- 3 Press **OK** to start the automatic channel search.

Note

- This feature can be used only in the TV mode.


Manually set the channel list

You can manually add or skip channels to the channel list.

- 1 Press  **SETUP**.
- 2 Select **[TV]** > **[Add/Skip Channels]** and press **OK**.

Adjust picture aspect ratio automatically

Automatically adjust the picture aspect ratio according to the TV program.


- 1 Press  **SETUP**.
- 2 Select **[TV]** > **[Auto Aspect Ratio]** and press **OK**.
- 3 Select **[On]**.

Change the picture settings

Change the picture settings to suit your preferences. You can apply the predefined settings or change the settings manually.

Smart Picture

Apply a predefined picture setting options by using the Smart Picture.

- 1 Press  **SETUP**, and select **[Picture]** > **[Smart Picture]**.
- 2 Select one of the following settings, and then press **OK**:

- **[Vivid]**: Application of dynamic and colorful settings, which is suitable for daytime watching.
- **[Standard]**: Adjust the picture settings to suit most types of video environments and types.
- **[ECO]**: Application of the low power settings.
- **[Movie]**: Application of movie-watching settings.
- **[Personal]**: Use of custom picture settings.

Adjust the picture settings manually

- 1 Press **⚙️ SETUP**, select **[Picture]**, and then press **OK**.
- 2 Select one of the following settings, and then press **OK**:
 - **[Backlight]**: Adjust the backlight intensity.
 - **[Brightness]**: Adjust the intensity and finesse of dark areas.
 - **[Video Contrast]**: Adjust the contrast, to increase the intensity difference between highlight and dark.
 - **[Color]**: Adjust the color saturation.
 - **[Tint]**: The definition of tint temperature.
 - **[Sharpness]**: Adjust the sharpness of the image.
 - **[Aspect Ratio]**: Change the picture format.
 - **[Overscan]**:
 - **[Color Temperature]**: Set the picture to a preset color temperature for a better white balance.
 - **[Noise Reduction]**: Filter and reduce the noises in an image.
 - **[Dynamic Contrast]**: Set the level at which the TV automatically enhances the details in the dark, middle and light areas of the picture.
 - **[Reset Picture Settings]**: Restore the picture settings to their default values.

Change the picture format

- 1 Press **⚙️ SETUP**, select **[Picture] > [Aspect Ratio]**, and then press **▶**.

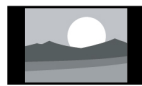
Picture format summary

You can configure the following picture settings.



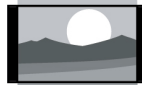
Note

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



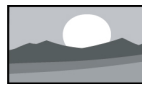
[Normal]:

Display of the traditional 4:3 picture format.



[Zoom]:

(Not applicable for HD and PC mode.) Adjust the picture format from 4:3 to 14:9.



[Wide]:

Adjust the picture format from 4:3 to 16:9.



[1 : 1]:

Detects the resolution of the signal and displays the picture with the same number of pixels on the screen.



[Auto]:

Adjust the picture to fill the screen (subtitles remain visible).

Change the sound settings

Change the sound settings to suit your preferences. You can apply the predefined settings or change the settings manually.

Sound mode

Apply a predefined sound setting options by using the sound mode.

- 1 Press **⚙️ SETUP**, and select **[Sound]** > **[Smart Sound]**.
- 2 Select one of the following settings, and then press **OK**:
 - **[Standard]**: Applies to the sound settings of most environments and types.
 - **[Movie]**: Applies to the sound settings of movies.
 - **[Music]**: Applies to the sound settings of music.
 - **[Speech]**: Applies to the sound settings of speech program.
 - **[Personal]**: Uses the custom sound settings set in the sound options.

Adjust the sound settings manually

- 1 Press **⚙️ SETUP**, select **[Sound]**, and then press **OK**.
- 2 Select one of the following settings, and then press **OK**.
 - **[Balance]**: Adjust the balance of left and right speakers.
 - **[Bass]**: Adjust the level of low tones in the sound.
 - **[Treble]**: Adjust the level of high tones in the sound.
 - **[TV Speakers]**: Turn on or off the TV speakers.
 - **[SPDIF Mode]**: Select the audio types passing the digital audio output interface.
 - **[MTS]**: Select an audio format if an analog TV channel broadcaster streams stereo audio in multiple formats.
 - **[Audio Language]**: Select your preferred audio language if the TV channel broadcasts multiple or dual audio languages.
 - **[DTS TruSurround]**: Turn on or off the TruSurround sound.
 - **[Reset Audio Settings]**: Restore the sound settings to their default values.

Use sleep timer

The sleep timer can switch the TV to standby after a predefined time.



Tip

- You can turn off the TV in advance and reset the sleep timer during the countdown.

- 1 Press **⚙️ SETUP**, and select **[Settings]** > **[Sleep Timer]**
 - ↳ Display of sleep timer.
- 2 Select a preset time.
 - ↳ If the timer is set to **Off**, the sleep timer will be shut down.
- 3 Press **OK** to start the timer.
 - ↳ When the preset time is due, the TV set will switch to standby mode.

Use TV lock

Lock the TV to prevent children from watching certain TV shows or channels.

Set or change code


- 1 Press **⚙️ SETUP**, select **[Parental]** > **[Change Password]**.
- 2 Enter your password using the number keys on your remote control.
 - ↳ Set or change your code following the instructions on the screen.



Tip

- If you have forgotten your code, please enter '9999' to overwrite the existing code.

Lock the channels

- 1 Press  **SETUP**, select **[Parental]** > **[Channel Lock]**.
- 2 Enter your password using the number keys on your remote control.
- 3 Select the channel you want to lock or unlock.
 - ↳ The channel locking function will immediately take effect after setting.

Note

- When you use the channel list or number keys to select a locked channel, it will remind you that you need to enter a code.


Use closed caption

You can display closed captions at all times.


Note

- Digital TV interactive applications are not accessible when closed caption text is switched on.
- Not all TV programs, commercials and features include closed captioning information. See your local TV program listings about channels with closed captions. The captioned programs are typically listed with service marks, such as 'CC', in the TV listings.

Switch on closed captions

- 1 Press  **SETUP**.
- 2 Select **[Closed Caption]** > **[Caption Control]** and press **OK**
- 3 Select **[CC On]**.

Set the closed captions settings


- 1 Press  **SETUP**, select **[Closed Caption]**, and then press **OK**
- 2 Select the correct type of closed captions, then press **OK**.

- 3 Select one of the settings, and then press **OK**.

Updating the TV software

Philips is continuously striving to improve its products, and we recommend updating your TV software after updates are launched.

Check the current software version

- 1 Press  **SETUP**, select **[Settings]** > **[System Info]**, and then press **OK**.
 - ↳ Display the model name and current software version.

Updating software

You can use the USB flash drive to update software automatically.


- 1 Download the new software from the Philips website.
- 2 Unzip the file and copy the file onto USB flash drive.
- 3 Insert the USB flash drive into the TV. The update starts automatically.

Note

- Your USB memory stick should be removed after software update.
- For software update, please use the USB device. The hard disk may cause the update to fail and restart because of the excessive demand for the current.


Reset to factory settings

You can reset the TV to factory default.

- 1 Press  **SETUP**, and select **[Settings]** > **[Reset to Default]**, and then press **OK**.
- 2 Select **[OK]**, to start resetting the settings.
 - ↳ Restore all of the TV settings to their default values.

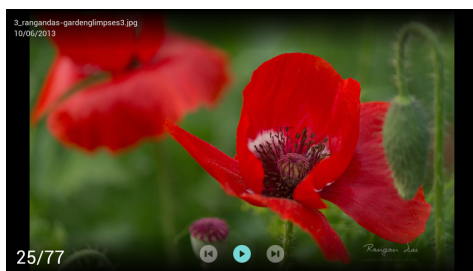
6 Playing media




Play from a USB connection

- 1 Turn on the TV.
- 2 Connect the USB storage device to the USB slot on the side of TV set.
- 3 Press  **SOURCES**.
- 4 Select **[USB]**, and then press **OK**.
- 5 If there is more than one USB storage device, select the USB storage device to be read, and press **OK**.
 - ↳ The browse page opens.


View photos

- 1 Select **[Folders]** or **[Photo]** in the browse page, then press **OK**.
- 2 Select a photo and press **OK**.
 - ↳ Enlarge the picture to the full screen size.



	Start/Pause the slide show
 (Navigation button)	View the previous/next picture
	Return to the browse page

Change the slide show settings

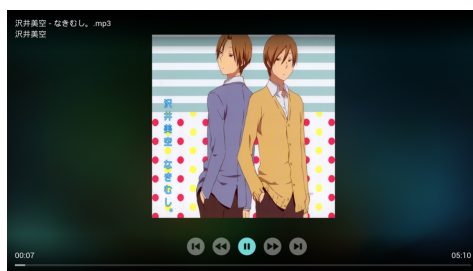
- 1 Press  Menu when playing a slide.
 - ↳ Display the list of slide show options, and browse photos in accordance with the instructions on the screen.




Note

- The information about the photos will only appear when the slide stops playing.

Listen to music


- 1 Select **[Folders]** or **[Music]** in the browse page, and then press **OK** to play.
 - ↳ Change the settings for playing music according to the instructions on the screen.



	Start / Pause the music
	Fast rewind/fast forward
	Return to the browse page

Play music while viewing slides

You can play background music while viewing slides.

- 1 Select a music album.
- 2 Press **OK**.
- 3 Press  **BACK** to return to the main screen of the browse page.

- 4 Select a picture.
- 5 Press **OK** to play the slide.

Watch the movie

- 1 Select **[Folders]** or **[Video]** in the browse page.
- 2 Press **OK** to play the movie.
 - ↳ Change the settings for playing the movie according to the instructions on the screen.



	Start / Pause the video.
	Fast rewind/fast forward
	Return to the browse page

Remove the USB storage device

Note

- Please follow the following steps to remove the USB storage device to prevent damage.

- 1 Press **↶ BACK** to return or leave the main screen of the browse page.
- 2 Wait about five seconds, and then remove the USB storage device.

Picture formats supported by USB

File Format	Photo	Resolution
JPEG	Base-line	15360x8640
	Progressive	1024x768
PNG	non-interlace	9600x6400
	interlace	1200x800
BMP	-	9600x6400

Audio formats supported by USB

File Format	Audio Codec	Sample rate	Code rate
mp3, wav	MPEG1/2 layer1	16KHz ~ 48KHz	32Kbps ~ 448Kbps
	MPEG1/2 layer2	16KHz ~ 48KHz	8Kbps ~ 384Kbps
mp3, wav, m4a	MPEG1/2 layer 3	16KHz ~ 48KHz	8Kbps ~ 320Kbps
ac3, m4a	AC3	32KHz, 44.1KHz, 48KHz	32Kbps ~ 640Kbps
aac, m4a	AAC	8KHz ~ 48KHz	-

Video formats supported by USB

File formats	Video formats	Video Codec	Audio Codec	Frame rate	Resolution	Maximum code rate
dat, vob, mpg, mpeg	MPG, MPEG	MPEG1/2	(work with video files) MP3, WAV, MP4, AC3, AAC	30fps	1080p	40Mbps
ts, trp, tp	MPEG -TS					
mp4, mov, avi, mkv	MP4, AVI, MKV					
mpg, mpeg	MPG, MPEG	MPEG4		30fps	1080p	40Mbps
mp4, avi, mkv	MP4, AVI, MKV	H.264		30fps	1080p	50Mbps
ts, trp, tp	MPEG -TS					
mp4, mov, avi, mkv	MP4, AVI, MKV	HEVC		30fps	1080p	30Mbps
ts, trp, tp	MPEG -TS					
mp4, mov, mkv	MP4, MKV	Motion JPEG		30fps	640x480	10Mbps
mp4, mov, avi, mkv	MP4, AVI, MKV					




Note

- If the content, packaging, or coding does not meet the standards, the video content may not play correctly. The failure to play due to some specific parameters of the sources that go beyond the decoding range is not a fault of the machine.
- The animated GIF pictures are not supported.
- Before connecting the device to the TV set, please back up your files to prevent file damage or data loss. For no support for USB storage devices, Philips assumes no responsibility, and shall not be liable for any damage or loss of data in the device.
- Some high-power USB devices might not be supported.(more than 0.5A).
- When connecting or using a USB device, if there is a power overload warning message, you may not be able to identify the device or the device may have problems.

7 Installing channels

The first time you set up your TV, you are prompted to select a menu language and to install TV channels.

Automatic channel search

- 1 Press  **SETUP**.
- 2 Select **[TV] > [Antenna Channel Search]** or **[Cable Channel Search]** and press **OK**.
- 3 Press **OK** to start the automatic channel search.




Note

- This feature can be used only in the TV mode.


Manually set the channel list

You can manually add or skip channels to the channel list.

- 1 Press  **SETUP**.
- 2 Select **[TV] > [Add/Skip Channels]** and press **OK**.

Adjust picture aspect ratio automatically

Automatically adjust the picture aspect ratio according to the TV program.

- 1 Press  **SETUP**.
- 2 Select **[TV] > [Auto Aspect Ratio]** and press **OK**.
- 3 Select **[On]**.

8 Connecting Devices

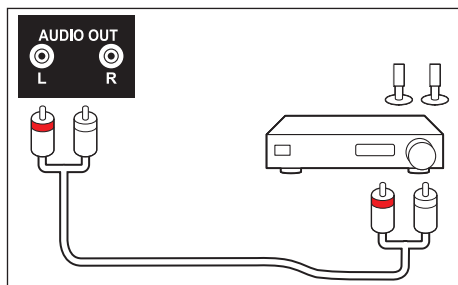
This section describes how to connect devices with different connectors.

Note

- You can use different types of connectors to connect a device to your TV.

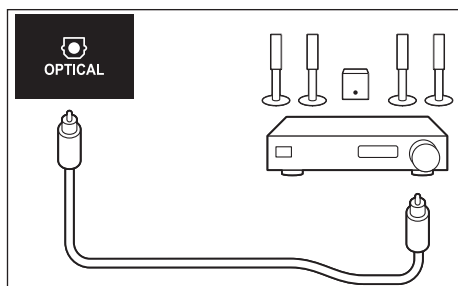
Bottom Connectors

1 Audio out (L/R)



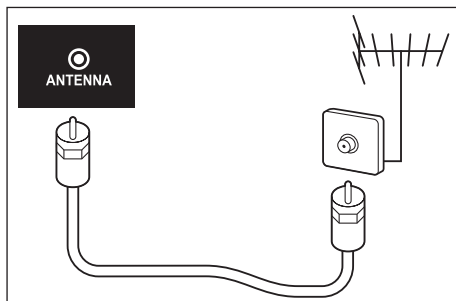
2 Optical

Transmit sound to digital audio signal, then connected audio device can play digital audio sound.



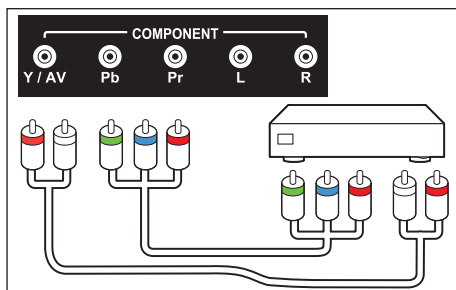
3 Antenna

Signal input from an antenna or cable.



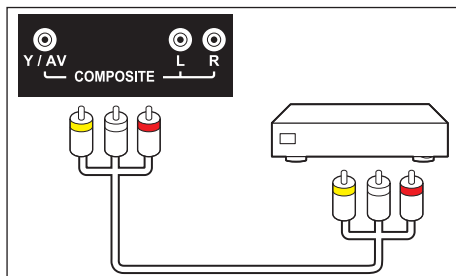
4 Component input

- The analog audio and video input of the analog or digital devices, such as DVD players and game consoles.



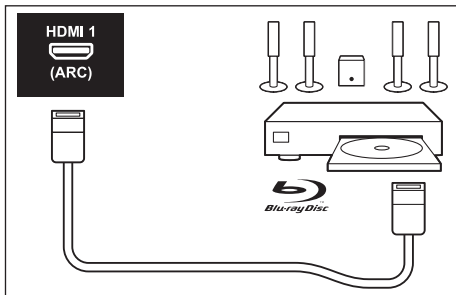
5 AV input

- Video: Composite video input from analogue devices such as VCR.
- Audio: Audio input from analogue devices connected to the video.



⑥ HDMI 1 (ARC)

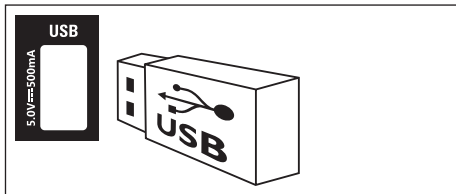
Digital audio and video input from high definition digital devices such as Blu-ray players



Side Connectors

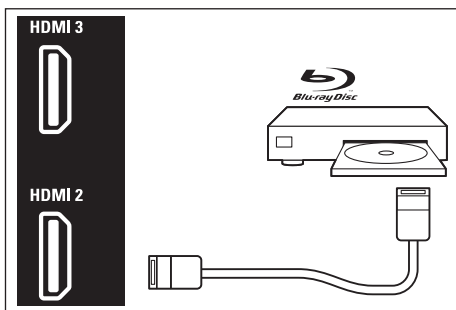
① USB

Data input into USB storage devices.



② HDMI 2 / HDMI 3

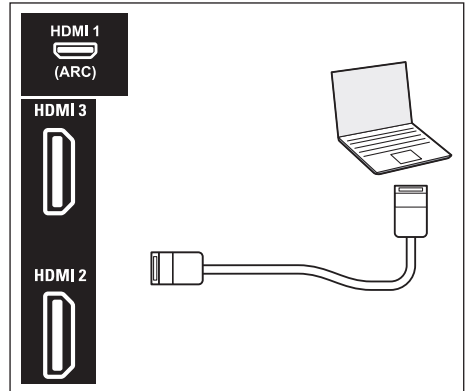
Digital audio and video input in Blu-ray disc player and other HD digital devices.



Connecting computers

Before you connect your computer to your TV.

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



Use Philips EasyLink

Taking full advantage of your Philips EasyLink HDMI-CEC compatible devices can enhance the control function and achieve the best possible results. HDMI-CEC compatible devices connected through the HDMI connector can be controlled by a TV remote control.

To enable Philips EasyLink, you need to:

- Make sure that each HDMI-CEC compatible device can run normally.
- Switch to EasyLink


Note

- EasyLink-compatible device must already be turned on and is selected as a signal source.
- Philips does not guarantee its 100% interoperability with all HDMI CEC devices.


Turn on or off EasyLink

Note

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

- 1 Press  **SETUP**.
- 2 Select [**EasyLink**] > [**HDMI CEC**].
- 3 Select [**On**] or [**Off**] and press **OK**.

Use the CEC device list


- 1 Press  **SETUP**.
- 2 Select [**EasyLink**] > [**CEC Device List**] and press **OK**.
 - ↳ The connected HDMI devices list display.

Use system audio control

Only HDMI 1 on the TV have HDMI ARC (Audio Return Channel).

If the device, typically a Home Theater System (HTS), also has the HDMI ARC connection, connect it to HDMI 1 connection on this TV.

With the HDMI ARC connection, you do not need to connect the extra audio cable that sends the sound of the TV picture to the HTS. The HDMI ARC connection combines both signals.

- 1 Press  **SETUP**.
- 2 Select [**EasyLink**] > [**HDMI ARC**].
- 3 Select [**Off**] or [**On**] and press **OK**.
 - [**Off**]: Use TV speakers.
 - [**On**]: Disable the TV speakers and transmit the TV audio to the connected HDMI-CEC audio device.

10 Product Information

Product information may be subject to change without prior notice. For detailed product information, please go to www.Philips.com/support

Display resolutions

Computer Formats

- Resolution - refresh rate:
- 720 × 400 - 70Hz
- 640 × 480 - 60Hz
- 800 × 600 - 60Hz
- 1024 × 768 - 60Hz
- 1280 × 720 - 60Hz
- 1280 × 768 - 60Hz
- 1280 × 1024 - 60Hz
- 1440 × 900 - 60Hz
- 1680 × 1050 - 60Hz
- 1920 × 1080 - 60Hz

Video Formats

- Resolution - refresh rate:
- 480i - 60Hz
- 480p - 60Hz
- 720p - 60Hz
- 1080i - 60Hz
- 1080p- 24Hz, 30Hz, 60Hz.
- 2160p- 24Hz, 30Hz, 60Hz.



Note

- When the TV set does not support resolution and refresh rate, there will be a black screen or flower screen. Please switch to the TV set to display resolution and refresh rate.

Multimedia

- Supported storage device: USB (Supports FAT 32/FAT 16 USB storage devices.)

Sound power

- 50PUN6102: 8W x 2
- 55PUN6102: 8W x 2

Intrinsic Resolution

- 50PUN6102: 3840 x 2160
- 55PUN6102: 3840 x 2160

Tuner / Reception / Transmission

- Aerial input: 75 ohm coaxial (IEC75)
- TV system: ATSC
- Video playback: NTSC
- Tuner bands: UHF, VHF

Remote Control

- Batteries: 2 × AAA

Power

- Mains: 220V, 60 Hz
- Standby power consumption: ≤ 0.5 W

- Ambient temperature: 5–45 °C
- Power consumption:
 - 50PUN6102: TBDW
 - 55PUN6102: TBDW

Supported TV Mounts

To install the TV set, purchase a Philips TV mounting bracket.

Warning

- Please follow all the instructions provided with the TV mounting bracket. TP Vision Europe B.V. does not bear any responsibility for any accidents, personal injury or loss caused by improper TV mounting.

- 1 Please first lock the mount behind the TV.
- 2 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 locked TV (including the protruding parts of the speakers) to the wall.
- 3 Make sure that your mounting bolts follow these specifications:

TV screen size (inch)	Required VESA (mm)	Required mounting screws
50PUN6102	200x200	4 x M6 (Recommended length: 10-15 mm)
55PUN6102	400x200	4 x M6 (Recommended length: 10-15 mm)

11 Trouble Shooting

This section describes the commonly encountered issues and accompanying solutions.

General TV issues

TV set cannot be started:

- Disconnect the power cord plug from the power outlet. Reconnect it one minute later.
- Check that the power cord is firmly connected.

The remote control does not function normally:

- Check that the +/- poles of the remote control battery are installed properly.
- If the remote control batteries are exhausted or leak, please replace it.
- Clean the remote control and TV sensor lens.

The TV standby light is blinking in red:

- Disconnect the power cord plug from the power outlet. Wait until the TV set cools down and then reconnect the cable. If the flashing still occurs, please contact the Philips customer service center.

Forget the code to unlock the TV lock:

- Input '9999'.

The TV menu's display language is wrong:

- Change the TV menu to the desired language.

Hear a squeak in the TV box after turning on/off the TV to standby state:

- You need not perform any action. Squeaking is a normal sound given from normal dilatation of the TV set during cooling and warming. This will not affect performance.

TV channels have problems

The previous channel installed does not appear in the channel list:

- Check that the selected channel list is correct.

Picture problem

The TV is on, but has no picture:

- Check that the antenna is not properly connected to the TV.
- Check that a correct device is selected as the TV signal source.

There is no sound nor picture:

- Check that the picture settings are correct.

Antenna connection causes bad reception of the TV set:

- Check that the antenna is not properly connected to the TV.
- Loudspeakers, unearthed audio devices, neon lights, high buildings and other large objects can affect the reception quality. If possible, try improving the reception quality by changing the antenna direction or keeping the above device away from the TV set.
- If there is only one channel having poor reception, please fine tune this channel.

Poor picture quality of the device connected thereto:

- Check the connection of the device.
- Check that the picture settings are correct.

The TV set has no settings for saving pictures:

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

The picture does not fit on the screen, too large or small:

- Try using a different picture format.

The picture position is not correct:

- The picture signal in some devices may not fit the screen correctly. Check the signal output of the device.

Sound problem

There is a picture but the sound quality is poor:



Note

- If audio signal cannot be detected, the TV set will automatically switch off audio output – This does not indicate a failure.

- Check that all cables are properly connected.
 - Check that the volume is not set to 0.
 - Check the sound is not muted.
- There is picture, but the sound quality is poor:
- Check that the sound settings are set properly.

There is a picture, but only one speaker has sound:

- Check that the sound balance is set to the middle.

HDMI connection problem

HDMI has a problem:

- Note that HDCP (high-bandwidth digital content protection) support may delay TV display of the time of the contents in the HDMI device.
- If the TV cannot recognize the HDMI device, and does not display, please attempt to switch the signal source from a device to another and switch back again.
- If the sound is on and off, please check the output of the HDMI device is set up correctly.

Computer connection problem

The computer display is unstable on the TV:

- Check that your PC uses a supported resolution and refresh rate.
- Set the TV picture format to no compression.

Contact Us

If you cannot resolve the problem, please refer to the frequently asked questions about the TV set in the following Web site:
www.philips.com/support.

If the problem is still not resolved, please contact your local Philips customer service center.



Warning

- Do not attempt to repair the TV on your own. This may cause serious personal injury, and cause irreparable damage to the TV set or void the warranty.



Note

- Before you contact Philips customer service center, please record your TV models and serial numbers. The numbers are printed on the back and packaging of the TV set.

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