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24PFD5022/30

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EN

User Manual

**PHILIPS**



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# 1 Notice

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## Pixel Characteristics

This LCD 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.

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## 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 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.

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## Disposal of waste products and batteries



Your product is designed and manufactured using high-quality materials and components that can all be recycled and reused.



When accompanied by an attached cross recycling bin label, it means that the product applies to the European Guidelines (European Directive) 2002/96/EC.

Please obtain the related information about the local electronic and electrical product classification and collection systems.

Please dispose it according to local regulations, and do not discard the waste product together with other general household wastes.

Correct disposal of waste products helps to avoid the potential negative impact on human health and the environment.



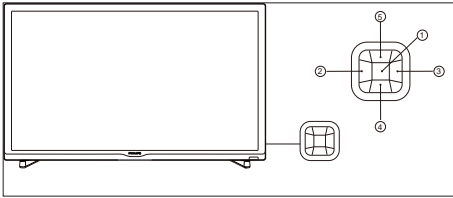
Your product contains batteries in line with European standards (European Directive) 2006/66/EC, and shall not be discarded together with other household waste.

Please pay attention to the local regulations regarding classification and collection of batteries, because correct disposal of waste products can help avoid negative impact on both the environment and human health.

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

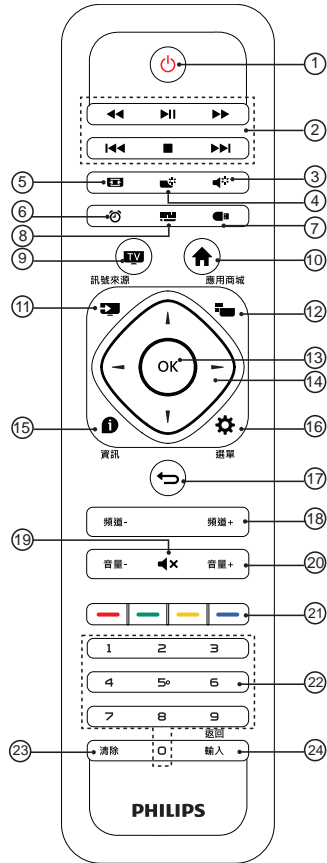
## Control Panel



(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 Move the cursor around in the control menu; when operating the common interface, you can move the cursor around.
- ④ / ⑤ In the control menu, 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 **Multimedia playback function button**  
To control play/pause, stop, previous, next and fast forward, fast rewind and other functions of multimedia.
- ③ **Sound style**  
To quickly select different sound modes.
- ④ **Picture style**  
To quickly select different screen modes.
- ⑤ **Picture format**  
To quickly select a different Picture format.

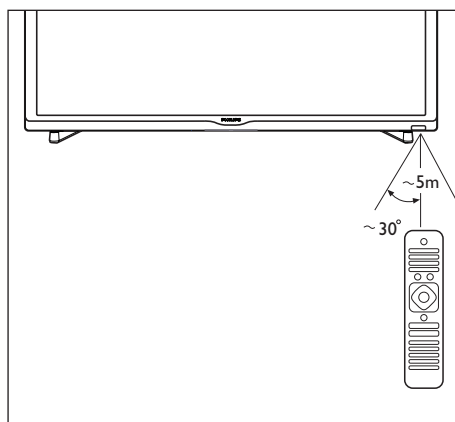


- ⑥ **Sleep timing**  
To quickly start and set the sleep timer function.
- ⑦ **Multimedia player center**  
To quickly enter [Multimedia player center].
- ⑧ **Channel list**  
To display the list of electronic programs.
- ⑨ **TV**  
To directly switch back to the TV screen, and switch between analog TV and digital TV.
- ⑩  **Home**  
To bring up the main menu (setting menu).
- ⑪ **Signal source**  
To open or close the signal source menu, and select the connected device.
- ⑫  **Multimedia player center**  
To display the main screen of multimedia player center.
- ⑬ **OK button**  
To confirm your input. To press 0~9 number keys and then press OK (confirm) when selecting channels.
- ⑭  **Navigation button**  
Navigation button Select items from the menu.
- ⑮  **Information**  
To display the related information about the signals of the currently played screen.
- ⑯ **Menu**  
To display the main screen of the menu.
- ⑰  **Return**  
To return to the previous level/page.
- ⑱ **Channel+/-**  
To select the next or previous channel.
- ⑲  **Mute**  
To remain muted. Press the Volume +/- button again, to restore the original volume.
- ⑳ **Volume+/-**  
To adjust the volume size.
- ㉑  **Color buttons**  
Color buttons to select corresponding tasks or options.
- ㉒ **0-9 number keys**  
Press 0~9 number keys to enter a channel.
- ㉓ **Clear**  
To clear the contents input from the specific interface.
- ㉔ **Back/Input**  
Press this button to return to the previous channel or signal source.

## 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!)

The TV set supports “Philips smart remote control” software (which can be downloaded from the app markets).

Through the use of “Philips smart remote control” software, you can:

- Family entertainments sharing: To play and display the video, audio files on the devices that support E-share on TV.
- Common remote control: To change mobile phones or Tablet PCs into the remote control of TV, to switch channels and control volume.
- Analog input device: you can use mobile phones or Tablet PCs to simulate the mouse and keyboard of TV.
- The use of this application requires both mobile devices and smart TV of Philips to be in the same LAN.

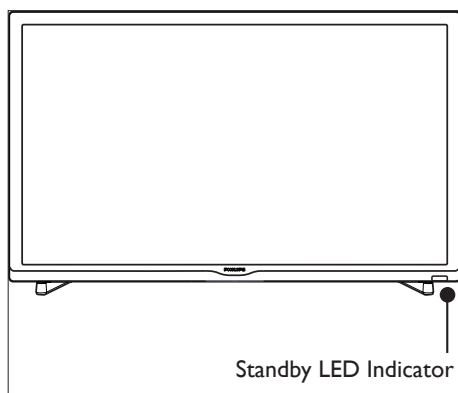
\* Details about the operation of “Philips smart remote control” can be found in the software.

## 4 Using TV

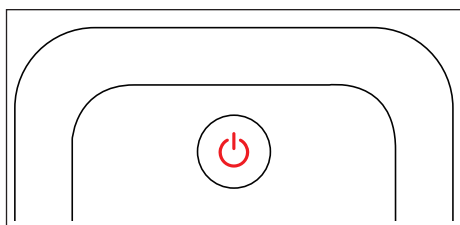
This section introduces the basic operations of the TV.

### Turn on the TV or switch to standby

#### Standby LED indicator



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



#### Turn on the TV

- Plug the power cord into the AC power outlet.  
↳ If the standby LED indicator is red, press **⏻** (**Standby-Power on**) on the remote control.

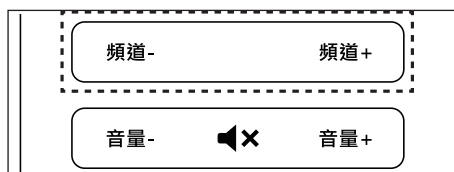
#### Switch to standby in the power-on status

- Press the **⏻** (**Standby-Power on**) on the remote control.  
↳ The standby indicator turns red.

#### Tip

- Although the TV set does not consume much electricity in standby, but still consumes some; only unplugging the power plug can this product be completely powered off. If it is not used for a long time, unplug the power plug.

### Switch channels




#### Do not use the channel list to switch channels

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

#### Using the channel list to switch channels

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

- 1 Press **OK**.  
↳ To display the channel list.
- 2 Press **▲▼** to select channels.
- 3 Press **OK** to watch the selected channel.

- 4 Press  to switch back to the channel you watched previously..

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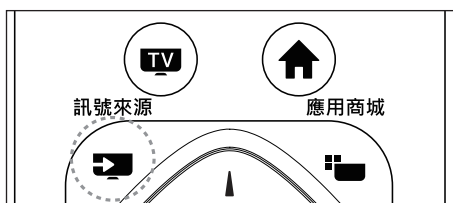
## To view the connected device(s)




### Note

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

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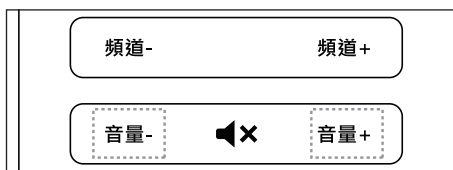
## To use the signal source button



- 1 Press  **Signal source**.  
↳ The signal source list appears.
- 2 Press   to select a device.
- 3 Press **OK** to select.  
↳ TV is switched to the selected device.

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
## Adjust the TV volume



Increase or reduce the volume

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

Mute or Unmute

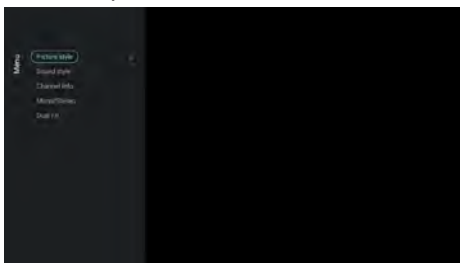
- Press  Mute button on the remote control.
- Press the  Mute button on the remote control again to restore the sound.

# 5 Using More Feature of your TV

## Accessing the TV menu

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

- 1 Press  menu  
↳ Open the menu.





- 2 Select one of the following options, and press **OK**:
  - **[Picture style]**: Applies a predefined picture setting options.
  - **[Sound style]**: Applies a predefined sound setting options
  - **[Channel Info]**: Displays the channel information.
  - **[Mono/Stereo]**: Sets mono or stereo.
  - **[Dual I-II ]**: Chooses a right channel.

### Note

- For different sources, the application menu is different.

## Change languages

You can select the language of the menus.



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

## Rename the external devices

After an external device is connected through the signal source menu, you can rename it according to your own preferences.



### Note

- The device can be named using up to 10 Chinese and 10 English characters.

- 1 Press  **Signal source**.
- 2 Select the  icon next to the device to be renamed.
- 3 Select the relevant icon.
- 4 Enter the new name.
- 5 After you have entered the new name, select **[Apply]**, and then press **OK**.

## Reset signal source name

Reset signal source name.


- 1 Press  **Signal source**.
- 2 Select the  icon next to the signal source to be reset, and then press **OK**.
- 3 Select **[Reset]**, and then press **OK**.

## Changing the picture settings

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

### Quick picture settings

This feature can help you quickly set pictures

- 1 Press , select **[Picture] > [Quick Picture and Sound Settings]**, and then press **OK**.

- 2 Select your favorite setting following the on-screen instructions.

---

## Picture style

Apply a predefined picture setting options by using the picture style.

- 1 Press the **⚙️** menu, and select **[Picture style]**.
- 2 Select one of the following settings, and then press **OK**:
  - **[Vivid]**: Application of dynamic and colorful settings, which is suitable for daytime watching.
  - **[Natural]**: Application of natural picture quality.
  - **[Standard]**: Adjust the picture settings to suit most types of video environments and types.
  - **[Cinema]**: Application of movie-watching settings.
  - **[Photo]**: Suitable for viewing photos.
  - **[Energy saving]**: Application of the low power settings.
  - **[Personal]**: Use of custom picture settings.

---

## Manually adjust the picture settings

- 1 Press **⬆️**, select **[Picture]**, and then press **OK**.
- 2 Select one of the following settings, and then press **OK**:
  - **[Quick Picture and Sound Settings]**: To select your favorite settings following the on-screen instructions.
  - **[Picture style]**: To select a predefined setting.
  - **[Contrast]**: To adjust the contrast, to increase the intensity difference between highlight and dark.
  - **[Backlight]**: To adjust the backlight intensity.

- **[Brightness]**: To adjust the intensity and finesse of dark areas.
- **[Color]**: To adjust the color saturation.
- **[Sharpness]**: To adjust the sharpness of the image.
- **[Soft Blue]**: Philips SoftBlue is a revolutionary technology reducing the intensity of the harmful spectrum of the blue light from TV screens. (Note: To adjust picture mode will cause SoftBlue automatically set to “Off”.)
- **[Tint]**: The definition of tint temperature.
- **[Custom tint]**: To set your favorite picture color balance. (This can only be done when tint temperature is selected and customized.)
- **[Perfect Pixel HD]**: To fine-tune each pixel to match surrounding pixels. This will result in perfect HD images.
  - **[Advanced sharpness]**: To enable the super-high picture sharpness.
  - **[Dynamic contrast]**: To increase the contrast with the change of images.
  - **[Dynamic backlight]**: To dynamically adjust the brightness of the backlight on the TV.
  - **[Color enhancement]**: To make the colors more vivid and richer.
  - **[Gamma]**: To adjust the subtle shades of pictures.
- **[Advanced]**:
  - **[Noise reduction]**: To filter and reduce the noises in an image.
  - **[PC mode]**: To adjust the picture settings when the computer is connected to the TV set using HDMI.
  - **[Screen edges]**: To adjust the size of the picture to be watched. (When the maximum value is set, you may be able to see noises and uneven edges on the picture.)
- **[Picture format]**: To change the picture format.

## Changes the picture format

- 1 Press **↑**, select **[Picture] > [Picture format]**, 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.



**[Super zoom]:**  
(This does not apply to computer mode.) Black edges caused by removal of the 4:3 format. This action will cause slight deformation of the picture.



**[4:3]:**  
Display of the traditional 4:3 picture format.



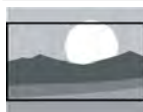
**[Unscaled]:**  
To adjust the sharpness to the maximum value. Because of the television broadcast system, the picture may have a very little distortion. Set the resolution of your computer to the wide-screen mode for best display results.



**[Subtitle zoom]:**  
(Not applicable for HD and PC mode.) Remove the black border caused by the 4:3 format and make the subtitles be seen, but the top part of the picture will be partially trimmed.



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



**[Movie expand 16:9]:**  
(This does not apply to computer mode.) Adjust the picture format from 4:3 to 16:9.



**[Wide screen]:**  
Adjust the picture format from 4:3 to 16:9.



**[Full screen]:**  
(Applies only to HDMI and digital TV signals) This mode corresponds to the reproduction rate set to 100%.

## Change the sound settings

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

## Quick setting of sound settings

This feature helps you quickly set the sound.

- 1 Press **↑**, select **[Picture] > [Quick Picture and Sound Settings]**, and then press **OK**.
- 2 Select your favorite setting following the on-screen instructions.

## Using Sound Style


To apply a predefined sound setting options using sound style.

- 1 Press the **⚙️ menu**, select **[Sound Style]**, and then press **OK**.
- 2 Select one of the following settings, and then press **OK**:
  - **[Standard]:** applies to the sound settings of most environments and types.
  - **[News]:** Applies to the sound settings of voice (such as news).

- **[Cinema]:**Applies to the sound settings of movies.
- **[Game]:**Applies to the sound settings of games.
- **[Drama]:**Applies to the sound settings of the drama programs.
- **[Sports]:**Applies to the sound settings of sports programs.
- **[Personal]:**To uses the custom sound settings set in the sound options.

---


## Manual adjustment of sound settings

- 1 Press , select [Sound], and then press OK.
- 2 Select one of the following settings, and then press OK.
  - **[Sound style]:**To access the predefined sound settings.
  - **[Bass]:**To adjust bass.
  - **[Treble]:**To adjust treble.
  - **[Balance]:**To adjust the balance of left and right speakers.
  - **[Surround]:**To turn on or off the surrounding function.
  - **[TV position]:**To select your TV mounting mode.
  - **[Advanced]:**
    - **[Auto volume levelling]:**To automatically reduce sudden volume changes in switching channels.
    - **[Clear sound]:**To improve sound clarity.
    - **[SPDIF]:**To select the audio types passing the digital audio output interface (COAXIAL).  
**[PCM]:**To convert the non-PCM audio types to PCM audio format.  
**[RAW]:**To output audio to home theater devices.

---

## Using application menus

Access the options related to the current activity or selection.

Press the  menu while watching TV.

- ↳ The list of options is divided into picture style, sound style, channel info, mono/stereo, dual I-II.

### Note

- For different sources, the application menu is different.

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## Using EPG

Program Guide (EPG) is a on-screen guide provided on the digital channel. Using the EPG, you can

- View the list of digital programs being currently broadcasting.
- Watch the incoming programs.
- Set the show reminder.

---

## Starting EPG (Program Guide)

- 1 Press  menu.
- 2 Select [EPG], then press **OK**.

### Note

- It cannot be started directly under non-digital channels.

---

## Reminders (program guide feature)

- Press the “Green” key on the program guide list for reservation or cancel the programs to be reminded for playwithin a week.

---

## Use of a timer

You can use a timer in order to switch the TV to standby at a specified time.



## Using 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 can reset the sleep timer during the countdown.

- 1 Press **⬆**, and select **[TV Settings] > [Sleep timer]**  
↳ Display of sleep timer.
- 2 Select a preset time between 0-180 minutes.  
↳ The sleep timer can be set with the unit of 10 minutes. If the timer is set to 0, the sleep timer will be shut down.
- 3 Press **OK** to start the time timer.  
↳ When the preset time is due, the TV set will switch to the standby mode.

## Use of TV lock

By locking the TV for control, you can prevent children from watching certain TV shows or channels.

## Setting or changing code

- 1 Press **⬆**, select **[Channels] > [Child lock] > [Set code]**.
- 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 '8888' to overwrite the existing code.

## Locking or unlocking one or more channels

- 1 Press the **OK** button to open the channel list.
- 2 Select the channel you want to lock or unlock, press **⏏** on the remote control, to lock or unlock the channel.  
↳ If it's your first time to watch a locked channel, you will be asked to enter your code.
- 3 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.

## 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 **⏏**.
- 2 Press the **⚙** menu, and select **[About the TV] > [Current software info]**, and then press **OK**.  
↳ Display the current software version information.

## Updating software

You can use the following methods to update software:

- Connecting the network for automatic updating.
- 1 Press **⏏**.
  - 2 Press the **⚙** menu, and select **[About the TV] > [Auto software updates]**, and then press **OK**.
  - 3 Update the software following the on-screen instructions.

- Using USB storage devices for automatic updating.


- 1 Press .
- 2 Press the  menu, and select **[About the TV]** > **[Manual software updates]**, and then press **OK**.
- 3 Update the software following the on-screen instructions.

#### 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.

---

## Changing TV preferences


- 1 Press , and select **[TV Settings]**.
- 2 Select one of the following items, and then press **OK**.
  - **[Location]**: To select the position of your TV set.
  - **[Picture and Sound reset]**: To restore all the TV picture and sound settings to their default values.
  - **[EasyLink]**: To set the EasyLink-related features.
  - **[About the TV]**: To display the information about TV.
  - **[Key Beep]**: To turn on the button sound of the remote control. When the user presses the remote control button, the TV will give a sound.
  - **[Sleep timer]**: To let the TV set to go into sleep after the set time.
  - **[Clear Cache]**: To clear the cache data from the built-in SD card partitioning.

- **[Reinstall TV]**: Restore all of the TV settings to their default values.

---

## Watching TV demos


You can better understand the functions of TV from the TV demos. Some models do not have this function.

- 1 Press .
- 2 Select **[TV Settings]** > **[Location]** > **[Shop]**, and then press **OK** to watch.

---

## Settings when reset to the factory settings

You can reset the picture and sound settings to the factory settings. Channel settings will not be reset.

- 1 Press , and select **[TV Settings]** > **[Picture and Sound reset]**, and then press **OK**.
- 2 Select **[OK]**, to start resetting the settings.

# 6 Media playing

## Video formats supported by USB

File formats	Video formats	Maximum code rate
AVI (.avi)	MPEG-1,	80Mbps
	MPEG-2 MP@HL,	80Mbps
	MPEG-4 SP@ L0-3,ASP @ L0-5,	50Mbps
	H.264 MP,HP@Level 4.1,	100Mbps(VCL) 120Mbps(NAL)
	VC1 (AP),	45Mbps
	H263,	5Mbps
MJPEG,		
MPEG-2 TS Transport Stream (.ts)	MPEG-2 MP@HL,	80Mbps
	MPEG-4 SP@ L0-3,ASP @ L0-5,	50Mbps
	H.264 MP,HP@Level 4.1,	100Mbps(VCL) 120Mbps(NAL)
	AVS baseline @ level 6.0,	50Mbps
	VC1 (AP),	45Mbps
	H265	100Mbps
MPEG FileFormat (.mpeg)	MPEG-1,	80Mbps
	MPEG-2 MP@HL,	80Mbps
	H.264 MP,HP@Level 4.1,	100Mbps(VCL) 120Mbps(NAL)
MPEG-4 Part 14 (.mp4)	H.264 MP,HP@Level 4.1,	100Mbps(VCL) 120Mbps(NAL)
	MPEG-4 SP@ L0-3,ASP @ L0-5,	50Mbps
	H265	100Mbps

QuickTime (.mov)	H.264 MP, HP@ Level 4.1,	100Mbps (VCL) 120Mbps (NAL)
	MPEG-4 SP@ L0-3 ASP @L0-5,	50Mbps
	MJPEG,	
	H265	100Mbps
BDVA MPEG-2 transport stream (.m2ts)	H.264 MP,HP@Level 4.1,	100Mbps(VCL) 120Mbps(NAL)
	VC1 (AP),	45Mbps
	MPEG-2 MP@HL,	80Mbps
	H265	100Mbps
Matroska (.mkv)	H.264 MP,HP@Level 4.1,	100Mbps(VCL) 120Mbps(NAL)
	VC1 (AP),	45Mbps
	H265	100Mbps
Flash Video (.flv)	H.264 MP,HP@Level 4.1,	100Mbps(VCL) 120Mbps(NAL)
	H263,	5Mbps
Video Object (.vob)	MPEG-2 MP@HL,	80Mbps
DAT (.dat)	MPEG-1,	80Mbps
Advanced Stream Format (.asf)	VC1 (AP),	45Mbps
	H.264 MP,HP@Level 4.1,	100Mbps(VCL) 120Mbps(NAL)
	MPEG-4 SP@ L0-3,ASP @ L0-5,	50Mbps
3gp	H.264 MP,HP@Level 4.1,	100Mbps(VCL) 120Mbps(NAL)
	H263,	5Mbps
	MPEG-4 SP@ L0-3,ASP @ L0-5,	50Mbps
tp	MPEG-2 MP@HL,	80Mbps

trp	H.264 MP,HP@Level 4.1,	100Mbps(VCL) 120Mbps(NAL)
	MPEG-2 MP@HL,	80Mbps

File formats	Frame rate	Resolution	Audio formats
AVI (.avi)	30FPS	1920x1080	MPEG-1 Layers I, II, III(MP3)
	30FPS	1920x1080	AAC, AC3, PCM, WMA, WMAPro
	30FPS	1920x1080	
	30FPS	1920x1080	
	30FPS	1280x720	
	30FPS	1920x1080	
	MPEG-2 TS Transport Stream (.ts)	30FPS	1920x1080
30FPS		1920x1080	AAC
30FPS		1920x1080	AC3
30FPS		1920x1080	PCM
30FPS		1920x1080	
30FPS		1920x1080	
MPEG File Format (.mpeg)	30FPS	1920x1080	PCM, AC3, MP3
	30FPS	1920x1080	
	30FPS	1920x1080	
MPEG-4 Part 14 (.mp4)	30FPS	1920x1080	AAC
	30FPS	1920x1080	
	30FPS	1920x1080	
QuickTime (.mov)	30FPS	1920x1080	AAC
	30FPS	1920x1080	
	30FPS	1920x1080	
	30FPS	1920x1080	
BD- AV MPEG-2 transport stream (.m2ts)	30FPS	1920x1080	AC3, AAC
	30FPS	1920x1080	
	30FPS	1920x1080	

Matroska (.mkv)	30FPS	1920x1080	AAC, AC3, MP3
	30FPS	1920x1080	
	30FPS	1920x1080	
Flash Video (.flv)	30FPS	1920x1080	AAC, MP3
	30FPS	1280x720	
Video Object (.vob)	30FPS	1920x1080	AC3 PCM MP3
DAT (.dat)	30FPS	1920x1080	PCM MP3
Advanced Stream Format (.asf)	30FPS	1920x1080	mp3, PCM WMA
	30FPS	1920x1080	
	30FPS	1920x1080	
3gp	30FPS	1920x1080	AMR_NB, AAC
	30FPS	1280x720	
	30FPS	1920x1080	
tp	30FPS	1920x1080	MPEG-1 Layers II, AC3
trp	30FPS	1920x1080	MP3
	30FPS	1920x1080	

---

## Audio formats supported by USB

Audio files	Audio formats	Sample rate	Code rate
Windows Media Audio (.wma)	WMA WMAPro	8KHz ~ 48KHz	128bps ~ 320Kbps
MPEG Audio Layer III (.mp3)	MPEG	32kHz~ 48kHz	32kbps ~ 320kbps
Advanced Audio Coding (.aac)	AAC	16kHz~ 48kHz	24kbps ~ 384kbps

N/A(Work with video files only)	AC3	32kHz, 44.1kHz, 48kHz	32kbps ~ 640kbps
	EAC3	32kHz, 44.1kHz, 48kHz	32Kbps ~ 6 Mbps
OGG Vorbis (.ogg)	Vorbis	8kHz~48kHz	max 320Kbps

## Picture formats supported by USB

Format	Maximum resolution	Minimum resolution
png	8K*8K(hard parse)	4*4
jpeg	Baseline 8K*8K, (hard parse), progressive 4K*4K	4*4
bmp	8K*8K	4*4

### Note

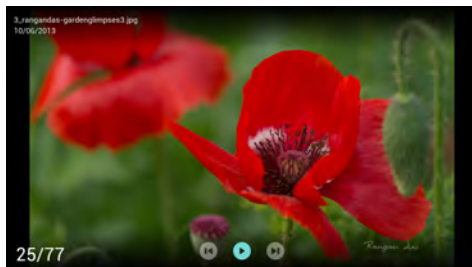
- If the content, packaging, or coding does not meet the standards, the video content may not play correctly. The failure to play due to some specific parameters of the sources that go beyond the decoding range is not a fault of the machine.
- The animated GIF pictures are not supported.
- Before connecting 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.

## Viewing photos and playing music and videos from a connected USB storage device.

- 1 Turn on the TV.
- 2 Connect the USB storage device to the USB slot on the side of TV set.
- 3 Press **Signal source**.
- 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
	Please read the option instructions

## Change the slide show settings

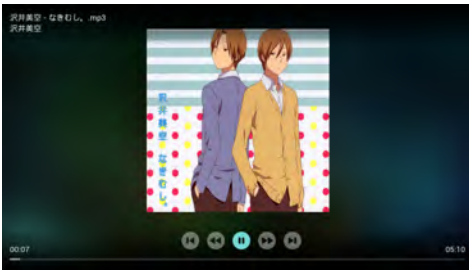
- 1 Press Menu when playing a slide.  
↳ Display the list of slide show options, and browse photos in accordance with the instructions on the screen.

### 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
	Previous/Next track
	Return to the browse page
	Please read the option instructions

## Playing music while viewing slides

You can play background music while viewing slides.

- 1 Select a music album.
- 2 Press **OK**.
- 3 Press 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
	Previous/Next movie
	Return to the browse page
	Please read the option instructions

## Enable the Family entertainments sharing to view

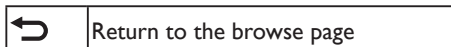
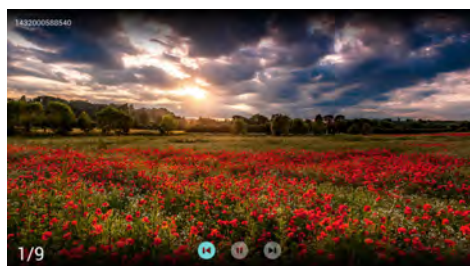
## photos and play music and videos

- 1 Turn on the TV.
- 2 Connect the TV to the Internet or the wireless network.
- 3 Start up the multimedia devices that support the Family entertainments sharing.
  - ↳ The multimedia devices for Family entertainments sharing will share multimedia files with the TV through networks.
- 4 Press **▶** **Signal source**.
- 5 Select [**Family entertainments sharing**], and then press **OK**.
  - ↳ The browse page opens.



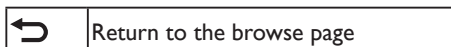
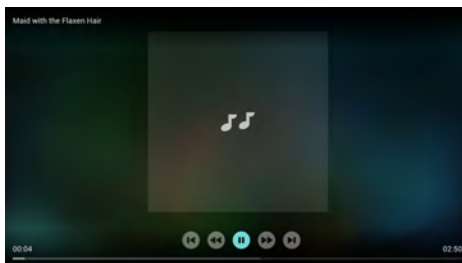
### View photos

- 1 Select **Picture** in the browse page, then press **OK**.
- 2 Select a photo and press **OK**.



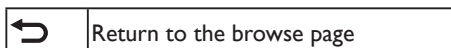
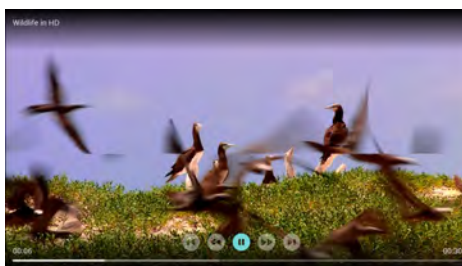
### Listen to music

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



### Watch the movie

- 1 Select **video** in the browse page.
- 2 Press **OK** to play the movie.




---

## Remove the USB storage device

### Note

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

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



# 7 Installing channels

The first time you set up your TV, you are prompted to select a menu language and to install TV channels. This section provides instructions on how to re-install and fine-tune channels.

## Automatic channel search

- 1 Press **↑**.
- 2 Select **[Channels]** > **[Channel settings]** and press **OK**.
- 3 Press **OK** to start the automatic channel search.

### Note

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

## Manually setting the channel

### Step 1 Select your system

- 1 Press **↑**.
- 2 Select **[Channels]** > **[Analog channel manual installation]**.
- 3 Select your **[Color system]** and **[Sound system]**.

### Note

- If your system settings are correct, you can skip this step.

### Step 2 Search and store new channels

- 1 Press **↑**.
- 2 Select **[Channels]** > **[Analog channel manual installation]** > **[Find channel]**.
  - Channel frequency can be entered directly.
  - Select **[Search]**, and press **OK** to start the search.
- 3 Search, and select **[Cancel]** to leave the menu.
- 4 When the search is complete, select **[Save]** and leave the menu.
  - Saving the searched channels

### Step 3 Fine-tune the analogue channels

- 1 Press **↑**.
- 2 Select **[Channels]** > **[Analog channel manual installation]** > **[Fine tune]**.
- 3 Press **[Decrease]** or **[Increase]** to adjust the channel frequency.


## Installing digital channels

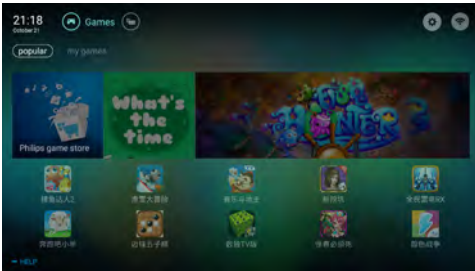
- 1 Press **↑**.
- 2 Select **[Channels]** > **[Digital channel manual installation]** and press **OK**.
- 3 Enter the channel frequency directly.
- 4 Select **[Search]**, and press **OK** to start the search.

# 8 Network setting

## Turn on/off the smart TV

You can set up a network in order to access different networks.

- 1 Connect the TV to the Internet. If there is no network connection, some features of the smart TV will not work properly.
- 2 Press the  button on the remote control.  
↳ The picture jumps automatically to the smart TV.



(The pictures and the applications in pictures are for reference only. The actual machine should prevail!)

## Applications

Obtain hot applications and the applications already installed from the App store partners, and manage the applications, to quickly switch the hot applications and my applications.






### Note

- Part of the applications only supports operation by mouse.
- Memory space does not mean the usable space.
- Philips reserves the right to increase and decrease the right of part of the applications.
- Do not arbitrarily change the ROM of the TV, and any resulting failure is not covered under warranty.

## Network type

You can select the type of network settings.

- 1 Press , and select **[Connection]** > **[Wired or Wi-Fi]**.
- 2 In the [Smart TV] mode, press the  menu > **[Connect to network]**.  
↳ If you need to know the MAC address, press the  menu > **[View network settings]** item for view in the smart TV mode.

## Cable installation

To connect the TV to computer networks and Internet, you need to install a router in computer networks. Connect your router to the TV set using a network cable (Ethernet cable).

Connect the router to the network interface at the bottom of the TV set using a network cable, and turn on the router before you begin network installation.

---

## Wired network settings - automatic search

- 1 Press **⬆** .
- 2 Select **[Connection]** > **[Wired or Wi-Fi]** > **[Connect to network]** > **[Wired network]**.
- 3 Select **[DHCP]** , then press **OK**.  
↳ Network protocols will be set automatically.

---

## Wired network settings - Manual input

- 1 Press **⬆** .
- 2 Select **[Connection]** > **[Wired or Wi-Fi]** > **[Connect to network]** > **[Wired network]**.
- 3 Select **[Static IP]**, then press **OK**.
- 4 Press **▶** , position the cursor in the input box.
- 5 And press **OK** again.  
↳ Display of on-screen keypad.
- 6 Use the on-screen keypad to enter the **[IP address]**, **[Subnet mask]**, **[Gateway]** and **[DNS1]** .
- 7 After you have entered, select **[OK]**, then press **OK**.

---

## Wireless installation

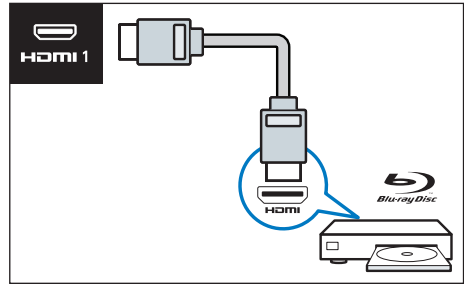
- 1 Press **⬆** .
- 2 Select **[Connection]** > **[Wired or Wi-Fi]** > **[Connect to network]** > **[Wireless network]** .
- 3 Select **[On]**.  
↳ The screen will display the currently set network parameters, and the wireless network that can be connected.

# 9 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.



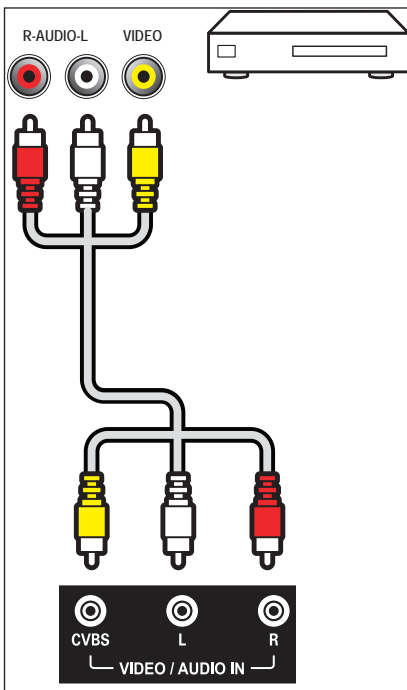
## Note

- Supported resolution: HDMI1:FHD

## Bottom Connectors

### ① AV input (left/right video, audio)

- Video: Composite video inputs in the analog devices such as VCR.
- Audio: Audio inputs in the analog devices connected to the video.

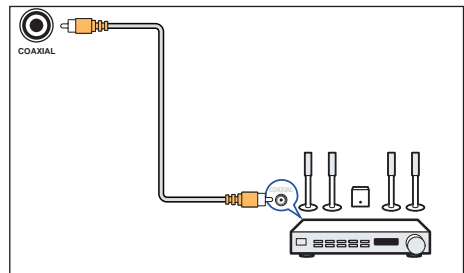


### ② HDMI 1

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

### ③ Coaxial output

Coaxial output: Digital audio output to home theater systems and other digital audio systems.



### ④ Connecting computers

Before you connect your computer to your TV.

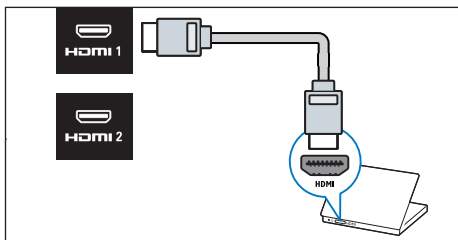
- Set the refresh rate to 60Hz on the computer's screen.
- Select a supported screen resolution on your computer.

Connecting to your computer through one of the following interfaces:

## Note

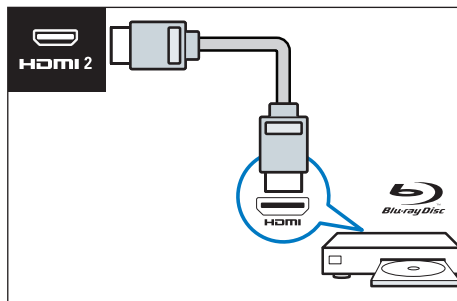
- An extra audio cable is required for the connection via VGA.

- HDMI cable



### Note

- HDMI 1 and HDMI 2 supports HDMI 1.4.



### Note

- Supported resolution:  
HDMI2: FHD

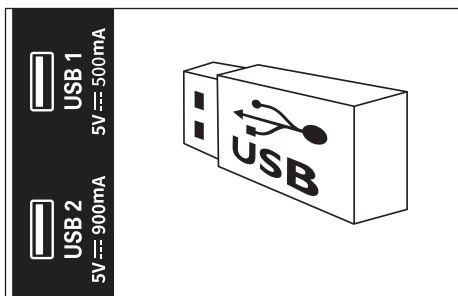
## ⑤ Network port

Data input from the network.

## Side Connectors

### ① USB 1/ USB 2

Data input into USB storage devices.



### Note

- USB 2 supports the devices of USB 2.0 or more.

### ② HDMI 2

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

---

## Using 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 **↑**.
- 2 Select **[TV Settings] > [EasyLink] > [EasyLink]**.
- 3 Select **[Off]** or **[On]** and press **OK**.

---

## Turn on or off the EasyLink remote control

### Note

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

- 1 Press **↑**.
- 2 Select **[TV Settings] > [EasyLink] > [EasyLink remote control]**.
- 3 Select **[Off]** or **[On]** and press **OK**.

---

## Using the quick standby

- 1 Press **⏻ (standby-power on)** on the remote control.
  - ↳ The TV and all connected HDMI devices will be switched to standby.

---

## Configuring the TV speakers

- 1 Press **↑**.
- 2 Select **[TV Settings] > [EasyLink] > [TV Speakers]**.
- 3 Select one of the following items, and then press **OK**.
  - **[Off]**: Turn off the TV speakers.
  - **[On]**: Turn on the TV speakers.
  - **[EasyLink autostart]**: To automatically disable the TV speakers, and transmit the TV audio to the connected HDMI-CEC audio device.

---

## Media Center

You can browse the pictures, videos or music and other multimedia files in the USB devices or local media.

Choose pictures, video or music files from the home page, and then press the **OK** button to confirm.

For the operating instructions, refer to **[View photos and play music and movies from a connected USB storage device]** or **[Enable the Family entertainments sharing to view photos and play music and videos]**

### Note

- Supported storage devices: Make sure that the USB is connected.

---

## Multi-screen interaction

You can use a mobile device, such as a Philips W8510, to display the content (the contents to be displayed depends upon the mobile device) on the screen of the mobile device on the TV screen through multi-screen interaction, and support playback of the sound content transmitted by synchronization from the mobile device.


During the transmission, the volume buttons on the remote control can be used to control the volume of sound.

### Note

- Multi-screen interaction feature cannot be compatible with all mobile phone devices.


---

## Establishing a connection

- 1 Press .
- 2 Select [Connection] > [Wired or Wi-Fi] > [Screen sharing] > [On].
- 3 Use WLAN/Wireless display on a mobile device, to send a connection request > Connection successful, and the pictures on a mobile device are transmitted to the TV screen.

---

## Way of disconnection

- 1 In transmission, the mobile device is disconnected.
- 2 In transmission, press the  **Return** button on the remote control, etc. can disconnect.

### Note

- Only when the Wi-Fi functions of the TV and the mobile device is turned on can the multi-screen interaction function can be used.

# 10 Product Information

Product information may be subject to change without prior notice. For detailed product information, please go to [www.Philips.com/support](http://www.Philips.com/support)

## Supported input signal formats

### Computer Formats

- Resolution - refresh rate:
  - 640 × 480 - 60Hz
  - 800 × 600 - 60Hz
  - 1024 × 768 - 60Hz
  - 1280 × 1024 - 60Hz
  - 1920 × 1080 - 60Hz

### Video Formats

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

## Tuner / Reception / Transmission

- Aerial input: 75 ohm coaxial (IEC75)
- TV system: PAL I, DTMB
- Video Play: NTSC, PAL

- Tuner bands: UHF,VHF

## Intrinsic Resolution/Sound power

- Intrinsic Resolution
  - 24PFD5022/30: 1920 × 1080
- Sound power
  - 24PFD5022/30: 3W × 2

## Remote Control

- Battery: 2 × AAA

## Power

- Mains: 220 V ~ , 50 Hz
- Standby power consumption: ≤ 0.5 W
- Ambient temperature: 5-45 °C
- Power consumption:
  - 24PFD5022/30 : 50W

## Dimensions and Weights

### 24PFD5022/30

- Without TV stand
  - (W) × (H) × (D):  
562.3mm × 336.6mm × 61.8mm
  - Weight: 3.2kg
- With TV stand
  - (W) × (H) × (D)  
562.3mm × 352.8mm × 112mm
  - Weight: 3.25kg

## 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 dot pitch (mm)	Required mounting screws
24PFD5022/30	75	2 x M4 (We recommend an effective thread length of 14mm (without gaskets), and the maximum thread length of 16mm (without gaskets))

# 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 '8888'.

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.

---

## Network connection problems

Web surfing is not working properly:

- If the connection to the router is set up correctly, please verify that the router is properly connected to the Internet.

Browsing speed or Web surfing speed is slow:

- Please refer to your router's user manual to learn about the information such as transmission rates and other factors of signal quality.
- You need to apply to the router's high-speed Internet connection.

---

## 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](http://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.

# 12 Index

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May 2016

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To obtain a source code, please send a letter in Chinese to .....

open.source@tpvision.com  
 TP Vision Europe B.V.  
 Prins Bernhardplein 200  
 1097 JB Amsterdam

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BusyBox (1.24.1)

Source: [http://busybox.net/Das U-Boot - Universal Bootloader](http://busybox.net/Das-U-Boot-Universal-Bootloader) (2010.06)

Source: [http://www.denx.de/wiki/U-Boot/ WebHomeLinux Kernel](http://www.denx.de/wiki/U-Boot/WebHomeLinux-Kernel) (3.18)

Source: [https://kernel.org/Android - platform - frameworks - av](https://kernel.org/Android-platform-frameworks-av) (5.1.1\_r1)

Source: [http://source.android.com/index.html libjpeg](http://source.android.com/index.html/libjpeg) (6b)

Source: <http://ijg.org/libpng> - PNG Reference Library (1.6.10)

Source: <http://www.libpng.org/pub/png/libpng.html> Android - platform - external - libpng (4.4.2\_r1)

Source: [http://source.android.com/index.html zlib](http://source.android.com/index.html/zlib) (1.2.8) Source: <http://www.zlib.net/> NFS - nfs-utils (1.3.2)

Source: <http://linux-nfs.org/rp-pppoe> (3.11)

Source: [www.roaringpenguin.com/products/pppoe](http://www.roaringpenguin.com/products/pppoe) Android (5.1.1\_r1)

Source: [https://android.googlesource.com Arp Scan](https://android.googlesource.com/Arp-Scan) (1.9)

Source: <http://www.nta-monitor.com/tools-resources/security-tools/arp-scan> ISC DHCP (4.3.3)

Source: [http://www.isc.org/downloads/dhcp/ FFmpeg](http://www.isc.org/downloads/dhcp/FFmpeg) (2.8)

Source: [http://www.ffmpeg.org/ARM GPU drive](http://www.ffmpeg.org/ARM-GPU-drive) (r6p0-01rel0) Mali-400/450 GPU Linux Kernel Device Drivers (r6p0-01rel0)

Source: [malideveloper.arm.com Khronos Group - OpenMAX](http://malideveloper.arm.com/Khronos-Group-OpenMAX) (1.1.2)

Source: [http://www.khronos.org/openmax/ iniParser](http://www.khronos.org/openmax/iniParser) - stand-alone ini Parser library in ANSI C (4.0)

Source: <http://ndevilla.free.fr/iniparser/> Android - platform - system - extras (4.4.2\_r1)

Source: [http://source.android.com/index.html YAFFS](http://source.android.com/index.html/YAFFS) - Yet Another Flash File System (master-583dbd9)

Source: <http://www.yaffs.net/mtd-utils> (1.5.0)

Source: <http://git.infradead.org/mtd-utils.git> ntfs driver (v1r1\_ntfs\_svn\_21204) Linaro GCC (4.9-2015.06)

Source: [https://www.linaro.org/Android - platform - external - aac](https://www.linaro.org/Android-platform-external-aac) (4.4.2\_r1)

Source: [http://source.android.com/index.html RealAudio](http://source.android.com/index.html/RealAudio) 8 Low Bitrate music (1.2.2.1) alsa-lib (1.0.28)

Source: [http://www.alsa-project.org/main/index.php/Main\\_Page](http://www.alsa-project.org/main/index.php/Main_Page) alsa-utils (1.0.28)

Source: [http://www.alsa-project.org/main/index.php/Main\\_Page](http://www.alsa-project.org/main/index.php/Main_Page) PolarSSL (1.3.7)

Source: <https://polarssl.org/my-project-oks> (r3546)

Source: <http://code.google.com/p/my-project-oks/Curl> and Libcurl (7.42.1)

Source: <http://curl.haxx.se/>



# China Rohs law

## Requirement of Usage Control on Electrical and Electronic Product Hazardous Substances

### Names and Levels of Hazardous Substances Contained in this Product

Part Name	Hazardous Substances					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr(VI))	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
Plastic frame	○	○	○	○	○	○
Rear chassis	○	○	○	○	○	○
LCD panel	CCFL	×	×	○	○	○
	LED	×	○	○	○	○
The circuit board assemblies*	×	○	○	○	○	○
Base	○	○	○	○	○	○
Power cable	×	○	○	○	○	○
Other materials	×	○	○	○	○	○
Remote Control	×	○	○	○	○	○

\*: The circuit board assemblies, including the printed circuit board and its component parts, such as resistors, capacitors, integrated circuits and connectors.

This table is compiled in accordance with SJ/T 11364 requirements.

○: indicates that the hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in GB/T 26572.

×: indicates that the hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in GB/T 26572.

Note: In the parts marked "X" above, some of the hazardous substances have exceeded the limit requirements set out in GB/T 26572 in order to meet functional requirements, but are in compliance with the European Union's RoHS requirements (under the exemption section).



This electrical and electronic product contains some hazardous substances. You may be safe to use it during the environment-friendly use period, and please hand it over to recycle system after environment-friendly use period exceeded.

### Suggestive description of the Recycling Administrative Regulations for Waste Electrical and Electronics Products

In order to care and protect the Earth in a better way, when the user no longer needs to use this product, or it has reached the end of the use period, please adhere to the national and applicable laws in relation to the recycling management of waste electrical and electronics products.

# 13 Warranty

**English**  
Warranty

**Hrvatski**  
Jamstvo

**Polski**  
Gwarancja

**ไทย**  
การรับประกัน

**Български**  
Гаранция

**Italiano**  
Garanzia

**Português**  
Garantia

**Tiếng Việt**  
Bảo hành

**Čeština**  
Záruka

**Indonesia**  
Jaminan

**Română**  
Garanție

**Türkçe**  
Garanti

**Dansk**  
Garanti

**Казакша**  
Кепілдік

**Русский**  
Гарантия

**Українська**  
Гарантія

**Deutsch**  
Garantie

**Latviešu**  
Garantija

**Slovenščina**  
Garancija

**简体中文**  
保修

**Ελληνικά**  
Εγγύηση

**Lietuvių**  
Garantija

**Slovenský**  
Záruka

**繁體中文**  
保養

**Eesti**  
Garantii

**Magyar**  
Garancia

**Srpski**  
Garancija

**العربية**  
الضمان

**Español**  
Garantía

**Nederlands**  
Garantie

**Suomi**  
Takuu

**Malay**  
Waranti

**Français**  
Garantie

**Norsk**  
Garanti

**Svenska**  
Garanti

**Brazilian Portuguese**  
Garantia

**English - Guarantee**

Dear Customer,  
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**Eesti - Garantii**

Lügupeetud klient,  
Täname, et ostsite Philipsi toote. Tootele kehtiva Philipsi garantii leiate Philipsi veebi-saidilt [www.philips.com/guarantee](http://www.philips.com/guarantee). Kui teil puudub Interneti-ühendus, võtke ühendust kohaliku Philipsi klienditeeninduskeskusega. Kontaktid leiate klienditeeninduskeskuste loendist.

**Español - Garantía**

Estimado cliente:  
Le agradecemos la compra de este producto Philips. Para obtener detalles sobre la garantía Philips que se aplica a este producto, visite el sitio web de Philips en [www.philips.com/guarantee](http://www.philips.com/guarantee). Si no tiene conexión a Internet, póngase en contacto con el Centro de atención al cliente de Philips local. Los datos de contacto se indican en la lista de centros de asistencia al cliente a continuación.

**Français - Garantie**

Cher client,  
Merci d'avoir acheté ce produit Philips. Pour connaître les conditions de garantie Philips applicables à ce produit, reportez-vous à la page [www.philips.com/guarantee](http://www.philips.com/guarantee). Si vous ne possédez pas de connexion Internet, contactez votre Service Consommateurs Philips local. Vous trouverez les coordonnées de tous les Services Consommateurs dans la liste ci-après. Ces informations étaient correctes à la date d'impression. Pour des informations à jour, consultez la page [www.philips.com/support](http://www.philips.com/support).

**Hrvatski - Jamstvo**

Poštovani kupče,  
hvala vam što ste kupili ovaj Philipsov proizvod. Philipsovo jamstvo koje se odnosi na ovaj proizvod možete pronaći na Philipsovim internetskim stranicama [www.philips.com/guarantee](http://www.philips.com/guarantee). Ako nemate pristup internetu, obratite se lokalnom Philipsovom Centru za korisnike. U nastavku se nalazi popis Centara za korisnike s podacima za kontakt.

**Italiano - Garanzia**

Gentile cliente,  
grazie per aver acquistato questo prodotto Philips. Per informazioni sulla garanzia Philips applicabile a questo prodotto, è possibile fare riferimento al sito Web Philips [www.philips.com/guarantee](http://www.philips.com/guarantee). Nel caso non disponesse di una connessione Internet, contatti il centro per il servizio clienti Philips locale. È possibile trovare le informazioni di contatto nell'elenco dei centri per il servizio clienti riportato di seguito.

**Indonesia - Jaminan**

Pelanggan yang terhormat,  
Terima kasih telah membeli produk Philips. Untuk mendapatkan jaminan produk ini, kunjungi situs Web Philips di [www.philips.com/guarantee](http://www.philips.com/guarantee). Jika Anda tidak memiliki sambungan Internet, hubungi Pusat Layanan Pelanggan Philips setempat. Rincian kontak tercantum dalam daftar Pusat Layanan Pelanggan.

**Казакша - Кеңілдік**

Құрметті, Тұтынушы  
Мына Philips бұйымын сатып алғаныңызға алғысымызды білдіреміз. Бұл бұйымға қатысты Philips кеңілдігін алу үшін Philips компаниясының [www.philips.com/guarantee](http://www.philips.com/guarantee) веб-сайтын қараңыз. Интернетке қосыла алмаған жағдайда, жергілікті Philips тұтынушыларды қолдау орталығына хабарласыңыз. Байланыс мәліметтері осы құжаттың «Тұтынушыларды қолдау орталықтары» тізімінде берілген.

**Latviešu - Garantija**

Cien. klient!  
Pateicamies, ka iegādājāties šo Philips produktu. Lai skatītu šī produkta Philips garantiju, apmeklējiet Philips vietni [www.philips.com/guarantee](http://www.philips.com/guarantee). Ja jums nav pieejams internets, lūdzu, sazinieties ar vietējo Philips klientu apkalpošanas centru. Kontaktinformācija ir pieejama tālāk norādītajā klientu apkalpošanas centru sarakstā.

**Lietuvių - Garantija**

Gerb. kliente,  
dėkojame, kad įsigijote „Philips“ gaminį. Jei norite sužinoti, kokia garantija taikoma šiam gaminiui, apsilankykite „Philips“ svetainėje [www.philips.com/guarantee](http://www.philips.com/guarantee). Jei neturite interneto ryšio, susisiekiu su vietos „Philips“ klientų aptarnavimo centru. Kontaktinę informaciją rasite toliau pateiktame klientų aptarnavimo centrų sąraše.

**Magyar - Garancia**

Kedves Vásárlónk!  
Köszönjük, hogy ezt a Philips termékét választotta. A Philips termékre vonatkozó garanciáról a Philips webhelyén tájékozódhat: [www.philips.com/guarantee](http://www.philips.com/guarantee). Ha nem rendelkezik internetkapcsolattal, forduljon a Philips helyi ügyfélszolgálatához. A kapcsolattartási adatokat az ügyfélszolgálatok listája tartalmazza az alábbiakban.

**Nederlands - Garantie**

Beste klant,  
hartelijk bedankt voor uw aankoop van dit Philips-product. Voor informatie over de Philips-garantie die van toepassing is op dit product verwijzen wij u naar de Philips-website [www.philips.com/guarantee](http://www.philips.com/guarantee). Hebt u geen internetverbinding, dan kunt u contact opnemen met uw lokale Philips Consumer Care Centre. Contactgegevens vindt u in de lijst met Consumer Care Centres.

## Norsk - Garanti

Kjære kunde,  
tak for at du kjøpte dette Philips-produktet. Se vårt webområde [www.philips.com/guarantee](http://www.philips.com/guarantee) som gjelder for dette produktet. Hvis du ikke har tilgang til Internett, kan du kontakte ditt lokale Philips-brukerstøttesenter. Du finner kontaktinformasjon i listen over brukerstøttesentre.

## Polski - Gwarancja

Szanowni Kliencie!  
Dziękujemy za nabycie tego produktu Philips. Aby sprawdzić gwarancję Philips mającą zastosowanie do tego produktu należy przejść do witryny internetowej firmy Philips pod adresem [www.philips.com/guarantee](http://www.philips.com/guarantee). W przypadku nieposiadania łącza internetowego należy skontaktować się z lokalnym Centrum Obsługi Klienta firmy Philips. Informacje kontaktowe znajdują się na liście Centrów Obsługi Klienta.

## Português - Garantia

Caro(a) Cliente,  
Obrigado por adquirir este produto da Philips. Para obter a garantia da Philips aplicável a este produto, consulte o Web site da Philips [www.philips.com/guarantee](http://www.philips.com/guarantee). Caso não tenha uma ligação à Internet, contacte o Centro de Assistência ao Cliente da Philips local. Os detalhes de contacto são fornecidos na lista de Centros de Assistência ao Cliente indicados a seguir.

## Română - Garanție

Stimate client,  
Vă mulțumim pentru că ați achiziționat un produs Philips. Pentru garanția Philips aplicabilă acestui produs, vă îndrumăm către site-ul Philips [www.philips.com/guarantee](http://www.philips.com/guarantee). În cazul în care nu dispuneți de o conexiune la Internet, vă rugăm să contactați Centrul local Philips de asistență pentru consumatori. Datele de contact ale Centrelor de asistență pentru consumatori sunt disponibile în lista următoare.

## Русский - Гарантия

Уважаемый потребитель!  
Благодарим за покупку продукта Philips. Гарантия Philips для этого продукта опубликована на веб-сайте [www.philips.com/guarantee](http://www.philips.com/guarantee). Если подключения к Интернету нет, обратитесь в местный центр поддержки потребителей Philips. Контактные данные приведены ниже в списке центров поддержки потребителей.

## Slovenščina - Garancija

Spoštovani kupec!  
Zahvaljujemo se vam za nakup Philipsovega izdelka. Informacije o Philipsovem jamstvu, veljavnem za ta izdelek, najdete na spletnem mestu [www.philips.com/guarantee](http://www.philips.com/guarantee). Če nimate internetne povezave, se obrnite na krajevni Philipsov center za pomoč strankam. Podatki za stik so navedeni v

seznamu Philipsovih centrov za pomoč strankam v nadaljevanju.

## Slovenský - Záruka

Vážení zákazníci,  
děkujeme, že ste si kúpili produkt spoločnosti Philips. Ak si chcete pozrieť záručné podmienky vzťahujúce sa na tento produkt, odpoňčame Vám navštíviť stránku [www.philips.com/guarantee](http://www.philips.com/guarantee). V prípade, že nemáte prístup k internetu, obráťte sa na miestne centrum podpory zákazníkov spoločnosti Philips. Kontaktné informácie nájdete v ďalej uvedenom zozname centier starostlivosti o zákazníkov.

## Srpski - Garancija

Poštovani kupče!  
Zahvaljujemo Vam na kupovini ovog Philipsovog proizvoda. Garanciju kompanije Philips koja se odnosi na ovaj proizvod možete pogledati na Philipsovoj Internet prezentaciji, na lokaciji [www.philips.com/guarantee](http://www.philips.com/guarantee). Ukoliko ne posedujete vezu sa Internetom, molimo Vas da se obratite najbližem centru kompanije Philips za brigu o potrošačima. Detaljni podaci o kontaktu dati su u spisku centara za brigu o potrošačima.

## Suomi - Takuu

Hyvää asiakas  
Kitos, että ostit tämän Philips-tuotteen. Tuotetta koskevaan Philipsin takuuseen voit tutustua Philipsin sivustossa osoitteessa [www.philips.com/guarantee](http://www.philips.com/guarantee). Jos sinulla ei ole Internet-yhteyttä, pyydämme sinua ottamaan yhteyttä Philipsin paikalliseen asiakaspalvelukeskukseen. Yhteyshiedot ovat jäljempänä olevassa asiakaspalvelukeskusten luettelossa.

## Svenska - Garanti

Bästa kund,  
Tack för att du har köpt den här Philips-produkten. Besök Philips webbplats [www.philips.com/guarantee](http://www.philips.com/guarantee) för information om den garanti som gäller för den här produkten. Om du inte har någon internetuppkoppling kan du kontakta din närmaste Philips-kundtjänst. Kontaktinformation finns i listan över kundtjänster nedan.

## Türkçe - Garantisi

Değerli Müşterimiz,  
Bu Philips ürününü satın aldığınız için teşekkür ederiz. Bu ürünün sahip olduğunuz Philips garantisi hakkında bilgi almak için [www.philips.com/guarantee](http://www.philips.com/guarantee) adresinden Philips web sitesini ziyaret etmenizi öneririz. İnternet bağlantınız yoksa, lütfen yerel Philips Tüketicili İşçikleri Merkezi ile iletişime geçin. İletişim bilgileri, Tüketicili İşçikleri Merkezleri listesinde verilmiştir.

## Українська - Гарантія

Шановний покупць,  
дякуємо за придбання цього виробу Philips. Гарантію Philips для цього виробу можна знайти на веб-сайті [www.philips.com/](http://www.philips.com/)

guarantee. Якщо доступ до Інтернет відсутній, зверніться до місцевого центру обслуговування споживачів Philips. Контактна інформація наведена далі у списку центрів обслуговування споживачів.

## ไทย - การรับประกัน

เรียนลูกค้า  
ขอขอบคุณที่เลือกซื้อผลิตภัณฑ์ของ Philips สำหรับการรับประกันที่มีผลบังคับใช้กับผลิตภัณฑ์นั้น โปรดดูอ้างอิงเว็บ ไซต์ของ Philips [www.philips.com/guarantee](http://www.philips.com/guarantee) ในกรณีที่คุณไม่มีอินเทอร์เน็ต โปรดติดต่อศูนย์บริการลูกค้า Philips ประจำท้องถิ่นของคุณ รายละเอียดการติดต่อจะแสดงอยู่ในรายชื่อศูนย์บริการลูกค้าต่อไป

## Tiếng Việt - Bảo hành

Kính gửi Quý khách hàng,  
Cảm ơn quý vị đã mua sản phẩm Philips này. Để biết bảo hành của Philips có thể áp dụng cho sản phẩm này, chúng tôi xin giới thiệu trang web của Philips [www.philips.com/guarantee](http://www.philips.com/guarantee). Trong trường hợp quý vị không có kết nối internet, vui lòng liên hệ với Trung tâm Chăm sóc Khách hàng của Philips tại địa phương. Chi tiết liên hệ được cung cấp trong danh sách Trung tâm Chăm sóc Khách hàng sau đây.

## 简体中文 - 保证

尊敬的客户：  
感谢您购买此 Philips 产品。有关适用于此产品的 Philips 保修信息，建议您访问 Philips 网站：[www.philips.com/guarantee](http://www.philips.com/guarantee)。如果您无法访问 Internet，请联系您当地的 Philips 客户服务中心。将来，我们会在客户服务中心列表中提供详细联系信息。

## 繁體中文 - 保證

親愛的客戶，您好：  
多謝您購買本飛利浦產品。有關適用於本產品的飛利浦保養詳情，請瀏覽飛利浦網站：[www.philips.com/guarantee](http://www.philips.com/guarantee)。如您未能連線至互聯網，請與您當地的飛利浦消費者保養中心聯絡。聯絡詳情已詳列於之後的消費者保養中心清單中。

## العربية الضمان

عزيزي العميل،  
شكراً لكم على شراء هذا المنتج من Philips. لمعرفة شروط ضمان Philips الذي ينطبق على هذا المنتج، راجع موقع [www.philips.com/guarantee](http://www.philips.com/guarantee). في حال لم يكن لديك اتصال بالإنترنت، يرجى الاتصال برقم مركز خدمة العملاء المحلي لشركة Philips. يمكن معرفة تفاصيل الاتصال من قائمة مراكز خدمة العملاء فيما يلي.

**Inggeris-Jaminan**

Pelanggan yang dihormati,  
Terima kasih kerana membeli produk Philips. Bagi waranti Philips yang terpakai untuk produk ini, kami merujuk anda kepada laman web Philips [www.philips.com/guarantee](http://www.philips.com/guarantee). Sekiranya anda tidak mempunyai sambungan Internet, sila hubungi Pusat Layanan Pelanggan Philips tempatan anda. Butiran kenalan diberikan dalam senarai Pusat Layanan Pelanggan selepas ini.

**Português do Brasil**

Caro cliente,  
Obrigado por ter adquirido este produto Philips. Para obter a garantia Philips aplicável a este produto, consulte o site da Philips [www.philips.com/guarantee](http://www.philips.com/guarantee). Caso você não tenha uma conexão de Internet, entre em contato com a Central de Atendimento ao Cliente Philips. Os detalhes de contato estão disponíveis na lista de Centrais de Atendimento ao Cliente a seguir.



User Manual



FAQ



Chat



Forum



Call



Email



Warranty

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

**Հայաստան – Armenia**  
Հաճախորդների սպասարկում  
**0 800 01 004**  
փոխանցված 0,03€/ min

**Azərbaycan – Azerbaijan**  
Müştəri xidmətləri  
**088 220 00 04**  
Köçürüldü zəng edin 0,17€/min

**Кыргызстан**  
Байланыш борбору  
**810 800 2000 00 04**

**България**  
Грижа за клиента  
**02 4916 273**  
(Национален номер)

**België/Belgique**  
Klantenservice/  
Service Consommateurs  
**02 700 72 62**  
(015€/min.)

**Bosna i Hercegovina**  
Potpora potrošačima  
**033 941 251**  
(Lokalni poziv)

**Republika Srbija** Potpora  
potrošačima  
**011 321 6840**  
(Lokalni poziv)

**Česká republika**  
Zákaznická podpora  
**228 880 895**  
(Místní tarif)

**Danmark**  
Kundeservice  
**3525 8314**

**Deutschland**  
Kundendienst  
**069 66 80 10 10**  
(Zum Festnetzstarif Ihres  
Anbieters)

**Ελλάδα**  
Τμήμα καταναλωτών  
**2111983028**  
(Διεθνής κλήση)

**Eesti**  
Klienditugi  
**668 30 61**  
(kohalikul kõned)

**España**  
Atención al consumidor  
**913 496 582**  
(0,10€/ + 0,08€/min.)

**France**  
Service Consommateurs  
**01 57 32 40 50**  
(coût d'un appel local sauf  
surcoût éventuel selon opérateur  
réseau)

**Қазақстан Республикасы**  
байланыс орталығы  
**810 800 2000 00 04**  
(стационарлық нөмірлерден  
Қазақстан Республикасы бойынша  
қоңырау шалу тегін)

**Hrvatska**  
Potpora potrošačima  
**01 777 66 01**  
(Lokalni poziv)

**Ireland**  
Consumer Care  
**015 24 54 45**  
(National Call)

**Italia**  
Servizio Consumatori  
**0245 28 70 14**  
(Chiamata nazionale)

**Latvija**  
Klientu atbalsts  
**6616 32 63**  
(Vietētais tarifs)

**Lietuva**  
Klientų palaikymo tarnyba  
**8 521 402 93**  
(Vietiniai tarifais)

**Luxembourg**  
Service Consommateurs  
**2487 11 00**  
(Appel nat./ (Nationale Ruf)

**Magyarország**  
Ügyfélszolgálat  
**(061) 700 81 51**  
(Belföldi hívás)

**Österreich**  
Kundendienst  
**0150 284 21 40**  
(0,05€/Min.)

**Республика Беларусь**  
Контакт Центр  
**8 10 (800) 2000 00 04**  
(бесплатный звонок по  
Республике Беларусь со  
стационарных номеров)

**Российская Федерация**  
Контакт Центр  
**8 (800) 220 00 04**  
(бесплатный звонок по России)

**Polska**  
Wsparcie Klienta  
**22 397 15 04**  
(Połączenie lokalne)

**Nederland**  
Klantenservice  
**0900 202 08 71**  
(1€/gesprek)

**Norge**  
Forbrukerstøtte  
**22 97 19 14**

**Slovenija**  
Skrb za potrošnike  
**01 88 88 312**  
(Lokalni klic)

**Slovensko**  
Zákaznická podpora  
**02 332 154 93**  
(vnútroštátny hovor)

**Suomi**  
Finland Kuluttajapalvelu  
**09 88 62 50 40**

**Portugal**  
Assistência a clientes  
**800 780 068**  
(0,03€/min. – Móvel 0,28€/min.)

**România**  
Serviciul Clienți  
**031 630 00 42**  
(Tarif local)

**Schweiz/Suisse/Svizzera**  
Kundendienst/Service  
Consommateurs/Servizio  
Consumatori  
**0848 000 291**  
(0,04 CHF/Min)

**Sverige**  
Kundtjänst  
**08 57 92 90 96**

**Türkiye**  
Tüketici Hizmetleri  
**0 850 222 44 66**

**Україна**  
Служба підтримки  
споживачів  
**0-800-500-480**  
(дзвінки зі стаціонарних і  
мобільних телефонів у межах  
України безкоштовні)

**United Kingdom**  
Consumer Care  
**020 79 49 03 19**  
(5p/min BT landline)

**Argentina**  
Consumer Care  
**0800 444 77 49**  
– Buenos Aires  
**0810 444 7782**

**Brasil**  
Suporte ao Consumidor  
**0800 701 02 45**  
– São Paulo  
**29 38 02 45**

**Australia**  
**1 300 360 386**

**Indonesia**  
**62 214809086**

**Philippines/Pilipinas**  
**(02) 633-3636**

**Malaysia**  
**1800 220 180**

**Singapore/新加坡**  
**65 6286 7333**

**Thailand/ประเทศไทย**  
**02 321 3992 ext. 601**



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