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ΕN

User Manual



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English

## 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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## English

## 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!

- TThe 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.
- The power plug serves as the power disconnection device and should be easily operable.
- 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
- f 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.



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.

## 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) 2012/19/EU.

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.



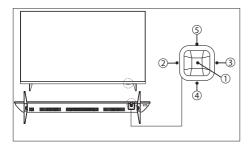
Your product contains batteries in line with European standards (European Directive) 2006/66/EC, and shall not be discarded together with other household waste.

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

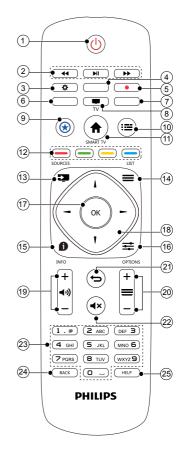
**Control Panel** 



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

- Open the control menu and serve as a confirm key between the menu and Smart TV interface.
- (2) / (3) Adjust the volume and serve as a right and left cursors between the menu and Smart TV interface.
- (4) / (5) Switch between channels and serve as a right and left cursors between the menu and Smart TV interface.

**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.
- 3 **C** Setting

To open setting option.

- (4) (6) (7) **button** No function.
- 5 **Record button** No function.

(8) **TV** 

Switch to TV source.

- 9 Smart star No function.
- (10) **EPG** To open EPG menu.
- (11) SMART TV

To enter Smart TV main menu.

 $(12) \quad -----$ 

Color buttons to select corresponding tasks or options.

(13) SOURCE

To open or close the signal source menu, and select the connected device.

(14) **LIST** 

To display the channel list.

(15) **D** INFO

To display the related information about the signals of the currently played screen.

(16) **OPTIONS** 

To display the main screen of the menu.

#### (17) OK button

To confirm your input. To press 0~9 number keys and then press OK when selecting channels.

#### 

Navigation button Select items from the menu.

(19) **•) Volume +/-**

To adjust the volume size.

(20) **Channel +**/-

To select the next or previous channel.

(21) 🕤

To return to the previous level/page.

- (22) **4 × Mute** 
  - To remain muted.Press the Volume +/-

button again, to restore the original volume.

#### (23) 0-9 number keys

Press 0~9 number keys to enter a channel.

#### (24) Back

Press this button to return to the previous channel.

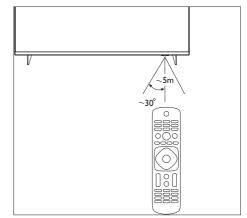
#### (25) Help

To open user manual.

## 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.



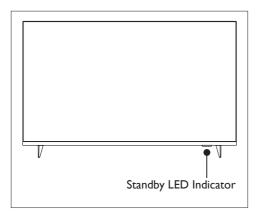
(Product shape may vary according to the different models, please refer to the actual models!)

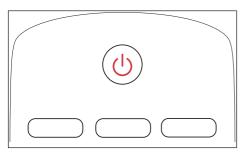
# 4 Using TV

This section introduces the basic operations of the TV.

# Turn on the TV or switch to standby

#### Standby LED indicator





#### Turn on the TV

 Plug the power cord into the AC power outlet. If the standby LED indicator is red, press <sup>(1)</sup> (Standby-Power on) on the remote control.

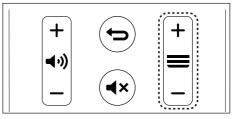
#### Switch to standby in the power-on status

- Press the () (Standby-Power on) on the remote control.
  - $\hookrightarrow$  The standby indicator turns red.



 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 = 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.

## Using the channel list to switch channels

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

- Press OK.
  - $\mapsto$  To display the channel list.

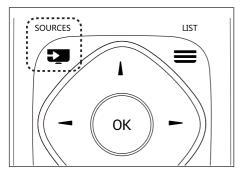
- 2 Press  $\blacktriangle$   $\lor$  to select channels.
- 3 Press **OK** to watch the selected channel.
- 4 Press 👈 to switch to the channel you watched previously.

### To view the connected device(s)



· Before selecting the external signal source, please turn on the external device.

#### To use the SOURCE button

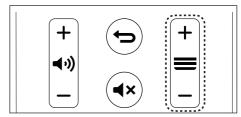


Press **SOURCES**. 1

 $\mapsto$  The signal source list appears.

- 23 Press  $\blacktriangle$   $\blacksquare$  to select a device.
- Press **OK** to select.
  - $\rightarrow$  TV is switched to the selected device.

## Adjust the TV volume



Increase or reduce the volume

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

Mute or Unmute

- Press **4**× Mute button on the remote control.
- Press the **I** × Mute button on the remote control again to restore the sound.

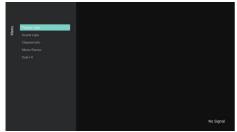
## 5 Using More Feature of your TV

## Accessing the TV menu

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

#### 

 $\rightarrow$  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 SOURCES.

- 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 SOURCES.
- 2 Select the ticon 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.

- 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 moviewatching 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

- 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.))
- **[4K Pixel Plus]**: 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.

|--|

## Display of the traditional 4:3 picture format.

F4:31:

#### [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



#### [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

16:9.

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 **₹ OPTIONS**, 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 $rac{rac}{rac}$ **OPTIONS** 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.

## 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 **<b>TOPTIONS**
- 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.

### 🔆 Тір

- 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]

 $\hookrightarrow$  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.

## Channel Editing

You can edit channels.

### Use TV lock

You can prevent your children from watching some programs or channels using TV Lock.

#### Set or change your password

- 1 Press ♣, select [Channels] > [Child lock] > [Set Password].
- 2 Use the numeric keys on the remote control to set your password.
  - Follow the on-screen instructions to set or change your password.

#### 🔆 Тір

• If you forget your password, enter "8888" to overwrite your existing password.

## Lock or unlock one or more channels

- 1 Press the **OK** button to open the channel list.
- 2 After you select a channel to be locked or unlocked, 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 After setup, the Lock Channel function will take effective.

#### Note

• When you use the Channel List or the numeric buttons to select a locked channel, you will be asked to enter your password.

### Chanel Switching

- 1 Press the OK button to open the Channel List.
- 2 Press ▲ ▼ to select a channel to be switched. Then press the green key — on the remote control, and press the ▲ ▼ key to select another channel to be switched.
- 3 Press the OK button and follow the instructions to confirm or cancel the channel switching.

### **Channel Skipping**

- 1 Press the OK button to open the Channel List.
- Press ▲ ▼ to select a channel to be skipped, and press the yellow key on the remote control to skip it.
- **3** Repeat the steps above to skip more channels.

Note

 Select a skipped channel and press the yellow key — on the remote control to cancel skipping it.

#### **Channel Deletion**

- 1 Press the OK button to open the Channel List.
- 2 Press ▲ ▼ to select a channel to be deleted, and press the blue key on the remote control to follow the prompt to confirm or cancel the deletion of the channel.

## 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 OPTIONS, 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 ft.
- **3** Update the software following the onscreen instructions.
- Using USB storage devices for automatic updating.
- 1 Press 🕇 .
- **3** Update the software following the onscreen instructions.



- 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.
  - **[HDMI Ultra HD]**: HDMI interface for the HDMI switch can support the EDID format project, to strengthen the compatibility with equipment.
  - **[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     |
|--------------|----------------------|------------------|
| AVI          |                      | rate             |
|              | MPEG-1,<br>MPEG-2    | 80Mbps<br>80Mbps |
| (.avi)       |                      | ourups           |
|              | MP@HL,<br>MPEG-4 SP@ | 50Mbps           |
|              |                      | Solutions        |
|              | L0-3,ASP @           |                  |
|              | L0-5,<br>H 264       | 100Mbps(VCL)     |
|              |                      | 120Mbps(NAL)     |
|              | MP,HP@Level          | 12010ps(INAL)    |
|              | 4.1,<br>VC1 (AP),    | 45Mbps           |
|              | H263,                | 5Mbps            |
|              | MJPEG,               |                  |
| MPEG-2       | MPEG-2               | 80Mbps           |
| TS           | MP@HL,               | 001 1003         |
| Transport    | MPEG-4 SP@           | 50Mbps           |
| Stream       | L0-3,ASP @           | 501 1003         |
| (.ts)        | L0-5,                |                  |
| (.03)        | H.264                | 100Mbps(VCL)     |
|              | MP,HP@Level          | 120Mbps(NAL)     |
|              | 4.1,                 |                  |
|              | AVS baseline @       | 50Mbps           |
|              | level 6.0,           |                  |
|              | VC1 (AP),            | 45Mbps           |
|              | H265                 | 100Mbps          |
| MPEG         | MPEG-1,              | 80Mbps           |
| FileFormat   | MPEG-2               | 80Mbps           |
| (.mpeg)      | MP@HL,               |                  |
|              | H.264                | 100Mbps(VCL)     |
|              | MP,HP@Level          | 120Mbps(NAL)     |
|              | 4.1,                 |                  |
| MPEG-4       | H.264                | 100Mbps(VCL)     |
| Part 14      | MP,HP@Level          | 120Mbps(NAL)     |
| (.mp4)       | 4.1,                 |                  |
|              | MPEG-4 SP@           | 50Mbps           |
|              | L0-3,ASP @           |                  |
|              | L0-5,                |                  |
|              | H265                 | 100Mbps          |

| Quial/Time  | H.264             | 100Mh-a      |  |
|-------------|-------------------|--------------|--|
| QuickTime   |                   | 100Mbps      |  |
| (.mov)      | MP,               | (VCL)        |  |
|             | HP@               | 120Mbps      |  |
|             | Level             | (NAL)        |  |
|             | 4.1,              |              |  |
|             | MPEG-4 SP@        | 50Mbps       |  |
|             | L0-3              |              |  |
|             | ASP @L0-5,        |              |  |
|             | MJPEG,            |              |  |
|             | H265              | 100Mbps      |  |
| BDAV        | H.264             | 100Mbps(VCL) |  |
| MPEG-2      | MP,HP@Level       | 120Mbps(NAL) |  |
| transport   | 4.1,              |              |  |
| stream      | VC1 (AP),         | 45Mbps       |  |
| (.m2ts)     | MPEG-2            | 80Mbps       |  |
| (.11203)    | MP@HL,            |              |  |
| Matroska    | H.264             | 100Mbps(VCL) |  |
| (.mkv)      | MP,HP@Level       | 120Mbps(NAL) |  |
|             |                   |              |  |
|             | 4.1,<br>VC1 (AP), | 45Mbps       |  |
|             | H265              | 100Mbps      |  |
| Flash Video | H.264             | 100Mbps(VCL) |  |
| (.flv)      | MP,HP@Level       | 120Mbps(NAL) |  |
|             | 4.1,              |              |  |
|             | H263,             | 5Mbps        |  |
| Video       | MPEG-2            | 80Mbps       |  |
| OBject      | MP@HL,            |              |  |
| (.vob)      |                   |              |  |
| DAT         | MPEG-1.           | 80Mbps       |  |
| (.dat)      |                   |              |  |
| Advanced    | VC1 (AP),         | 45Mbps       |  |
| Stream      | H.264             | 100Mbps(VCL) |  |
| Format      | MP,HP@Level       | 120Mbps(NAL) |  |
|             | 4.1,              |              |  |
| (.asf)      | MPEG-4 SP@        | 50Mbps       |  |
|             | L0-3,ASP @        | Journeys     |  |
|             | -                 |              |  |
| 2 ~ ~       | L0-5,             |              |  |
| 3gp         | H.264             | 100Mbps(VCL) |  |
|             | MP,HP@Level       | 120Mbps(NAL) |  |
|             | 4.1,              |              |  |
|             | H263,             | 5Mbps        |  |
|             | MPEG-4 SP@        | 50Mbps       |  |
|             | L0-3,ASP @        |              |  |
|             | L0-5,             | ļ            |  |
| tp          | MPEG-2            | 80Mbps       |  |
|             |                   | 1 1          |  |

English

| 1. 1. |                  | 100Mbps(VCL)<br>120Mbps(NAL) |
|-------|------------------|------------------------------|
|       | MPEG-2<br>MP@HL, | 80Mbps                       |

| File formats        | Frame | Resolution | Audio                     |
|---------------------|-------|------------|---------------------------|
|                     | rate  |            | formats                   |
| AVI                 | 30FPS | 1920×1080  | MPEG-1                    |
| (.avi)              | 30FPS | 1920×1080  | Layers I, II,<br>III(MP3) |
|                     | 30FPS | 1920×1080  | AÀC, Í                    |
|                     | 30FPS | 3840×2160  | AC3,<br>PCM.              |
|                     | 30FPS | 1920×1080  | WMA,                      |
|                     | 30FPS | 1280×720   | WMAPro                    |
|                     | 30FPS | 1920×1080  | ]                         |
| MPEG-2              | 30FPS | 1920×1080  | MP3                       |
| TS<br>Transport     | 30FPS | 1920×1080  | AAC<br>AC3                |
| Stream              | 30FPS | 3840×2160  | PCM                       |
| (.ts)               | 30FPS | 1920×1080  |                           |
|                     | 30FPS | 1920×1080  |                           |
|                     | 30FPS | 3840×2160  |                           |
| MPEG File           | 30FPS | 1920×1080  | PCM,                      |
| Format<br>(.mpeg)   | 30FPS | 1920×1080  | AC3,<br>MP3               |
| (                   | 30FPS | 3840×2160  |                           |
| MPEG-4              | 30FPS | 3840x2160  | AAC                       |
| Part 14             | 30FPS | 1920×1080  | ]                         |
| (.mp4)              | 30FPS | 3840x2160  |                           |
| QuickTime           | 30FPS | 3840x2160  | AAC                       |
| (.mov)              | 30FPS | 1920×1080  | ]                         |
|                     | 30FPS | 1920×1080  | ]                         |
|                     | 30FPS | 3840×2160  | ]                         |
| BDAV                | 30FPS | 3840×2160  |                           |
| MPEG-2<br>transport | 30FPS | 1920×1080  |                           |
| stream              | 30FPS | 1920×1080  |                           |
| (.m2ts)             | l     |            |                           |

| Matroska                  | 30FPS | 3840×2160 | AAC,                        |
|---------------------------|-------|-----------|-----------------------------|
| (.mkv)                    | 30FPS | 1920×1080 | AC3,<br>MP3                 |
|                           | 30FPS | 3840x2160 |                             |
| Flash Video               | 30FPS | 3840x2160 | AAC,                        |
| (.flv)                    | 30FPS | 1280×720  | MP3                         |
| Video<br>OBject<br>(.vob) | 30FPS | 1920×1080 | AC3<br>PCM<br>MP3           |
| DAT<br>(.dat)             | 30FPS | 1920×1080 | PCM<br>MP3                  |
| Advanced                  | 30FPS | 1920×1080 | mp3,                        |
| Stream<br>Format          | 30FPS | 3840×2160 | PCM<br>WMA                  |
| (.asf)                    | 30FPS | 1920×1080 |                             |
| 3gp                       | 30FPS | 3840×2160 | AMR_NB,                     |
|                           | 30FPS | 1280×720  | AAC                         |
|                           | 30FPS | 1920×1080 |                             |
| tp                        | 30FPS | 1920×1080 | MPEG-1<br>Layers II,<br>AC3 |
| trp                       | 30FPS | 3840×2160 | MP3                         |
|                           | 30FPS | 1920×1080 | 1                           |
|                           |       |           |                             |

# Audio formats supported by USB

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

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

# Picture formats supported by USB

| Format | Maximum resolution  | Minimum<br>resolution |
|--------|---|-----------------------|
| png    | 8K × 8K(hard parse)   | 4×4                   |
| jpeg   | Baseline 8K × 8K, (hard<br>parse), progressive<br>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 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.



| ►II                    | Start/Pause the slide show          |
|------------------------|-------------------------------------|
| (Navigation<br>button) | View the previous/next<br>picture   |
| <b>*</b> D             | Return to the browse<br>page        |
| \$                     | Please read the option instructions |

### Change the slide show settings

 Press OPTIONS when playing a slide.
 → Display the list of slide show options, and browse photos in accordance with the instructions on the screen.



• 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.



| ►II           | Start / Pause the music             |
|---------------|-------------------------------------|
| <b>44&gt;</b> | Fast rewind/fast<br>forward         |
| +             | Previous/Next track                 |
| Ð             | Return to the browse<br>page        |
| <b>‡</b>      | 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.



| ►II      | Start / Pause the video.            |
|----------|-------------------------------------|
| ┫┫┣┣     | Fast rewind/fast<br>forward         |
| +        | Previous/Next movie                 |
| Ð        | Return to the browse page           |
| <b>‡</b> | 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 SOURCES.

- 5 Select [Family entertainments sharing], and then press OK.
  - → The browse page opens.

| 🕐 🕑 Media Browser                      |  | 0                         |
|--|--|---------------------------|
| @+ 王为林<br>## XM/NB4004133: angela.luo: | <ul> <li>■ 音乐</li> <li>■ 夜嘆</li> <li>■ 图片</li> <li>■ 指放列表</li> </ul> |                           |
|  |  |                           |
|  |  |                           |
| - APP INSTALL - UPDATE - HELP          |  | 14:12 Tuesday November 07 |

#### **View photos**

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





|  | + | ) | Return to the browse page |  | Ð | Return to the browse page |
|--|---|---|---------------------------|--|---|---------------------------|
|--|---|---|---------------------------|--|---|---------------------------|

#### 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.





Return to the browse page

#### 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.

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



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

- **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.

### Application

Download hot applications from the App store partners.



Display and control the applications which had been installed in this TV.



#### Games

Download hot games from the Game App store partners.



## Network type

You can select the type of network settings.

- 1 Press 🌣 , and select [Connection]> [Wired or Wireless].
- 2 In the [Smart TV] mode, press the OPTIONS > [Connect to network].

## 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 Wireless] > [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 Wireless] > [Connect to network] > [Wired network].
- 3 Selec [Static IP], then press OK.
- 4 Press ► , position the cursor in the input box.
- 5 And press **OK** again.

- $\rightarrow$  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 Selesct [Connection] > [Wired or Wireless] > [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.

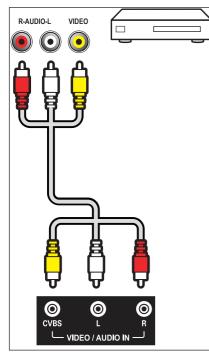
| Note |
|------|

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

## **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.

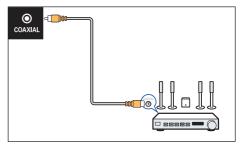


#### 2 **Connecting the network** Network port

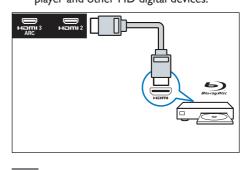
• Data input from the network.

#### 3 Coaxial output

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



HDMI 2 /HDMI 3(ARC) Digital audio and video input in Blu-ray disc player and other HD digital devices.





Supported resolution: HDMI 2/ HDMI 3: FHD, UHD

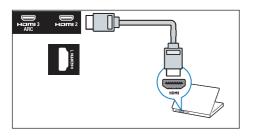
#### **5** Connecting computers

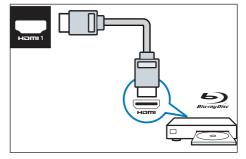
Before you connect your computer to your TV.

- 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:

HDMI cable

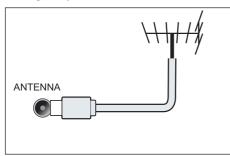




## Side Connectors

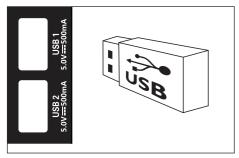
#### 1 Antenna/cable TV

Signal input from an antenna or cable.



#### 2 USB 1 / USB2

Data input into USB storage devices.



#### 3 HDMI 1

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

#### 

• Supported resolution: HDMI 1: FHD,UHD

## 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



 Pease 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



• Pease 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

- 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]



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 ◄୬ Volume +/- buttons on the remote control can be used to control the volume of sound.



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

#### Establishing a connection

- 1 Press 🌣 .
- 2 Select [Connectiont] > [Wired or Wireless] > [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.



• Only when the wireless 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/ TVsupport

### Supported input signal formats

#### **Computer Formats**

- Resolution refresh rate:
  - 640 × 480 60Hz
  - 800 × 600 60Hz
  - 1024 × 768 60Hz
  - 1360 × 768 60Hz
  - 1920 × 1080 60Hz

#### Video Formats

- Resolution refresh rate:
  - 480i 60Hz
  - 480p 60Hz
  - 576i 50Hz
  - 576p 50Hz
  - 720p 50Hz, 60Hz
  - 1080i 50Hz, 60Hz
  - 1080p- 24Hz, 25Hz, 30Hz, 50Hz, 60Hz.
  - 4K × 2K 30Hz, 23.98Hz, 25Hz, 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 D/K, DTMB
- Video playback: NTSC, PAL
- Tuner bands: UHF, VHF

# Intrinsic Resolution/Sound power

- Intrinsic resolution
  - 50PUD6654/30: 3840 x 2160
  - 55PUD6654/30: 3840 × 2160
  - 58PUD6654/30: 3840 × 2160
- Sound power
  - 50PUD6654/30: 8W x 2
  - 55PUD6654/30: 8W x 2
  - 58PUD6654/30: 8W x 2

### Remote Control

• Battery: 2 × AAA

#### Power

- Mains: 220 V  $\sim$  , 50 Hz
- Standby power consumption:  $\leq 0.5 W$
- Ambient temperature: 5-45 °C
- Power consumption:
  - 50PUD6654/30:120W
  - 55PUD6654/30:135W
  - 58PUD6654/30:150W

### **Dimensions and Weights**

50PUD6654/30

- Without TV stand (W) × (H) × (D): 1113mm × 647mm × 87mm - Weight: 10.84kg
- With TV stand (W) × (H) × (D) 1113mm × 709mm × 262mm - Weight: 11.04kg

#### 55PUD6654/30

- Without TV stand (W) × (H) × (D): 1227mm × 719mm × 87mm Weisher 11 (11)
  - Weight: 11.41kg

 With TV stand (W) × (H) × (D) 1227mm × 775mm × 263mm
 Weight: 11.63kg

#### 58PUD6654/30

- Without TV stand (W) × (H) × (D): 1289mm × 751mm × 86mm
   Weight: 14.22kg
- With TV stand (W) × (H) × (D) 1289mm × 814mm × 265mm
   Weight: 14.42kg

## 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<br>size(inch) | Required<br>dot pitch<br>(mm) | Required mounting screws   |  |  |
|-------------------------|-------------------------------|--|--|--|
| 50                      | 50 200 × 200                  | 4 x M6<br>(We recommend an<br>effective thread length<br>of 16MM (without<br>gaskets), and the<br>maximum thread<br>length of 22MM<br>(without gaskets)) |  |  |

| 55 | 200 × 200 | 4 x M6<br>(We recommend an<br>effective thread length<br>of 16MM (without<br>gaskets), and the<br>maximum thread<br>length of 22MM<br>(without gaskets)) |
|----|-----------|--|
| 58 | 300 × 200 | 4 x M6<br>(We recommend an<br>effective thread length<br>of 16MM (without<br>gaskets), and the<br>maximum thread<br>length of 22MM<br>(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:



 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 highspeed 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/TVsupport.

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

## A 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.



 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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BusyBox (1.24.1) Source: http://busybox.net/Das U-Boot -Universal Bootloader (2010.06)

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

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

Source: 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 (1.2.8) ource: 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 Android (5.1.1\_r1)

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

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

Source: http://www.isc.org/downloads/dhcp/ FFmpeg (2.8) Source: 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 (1.1.2)

Source: 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 - 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 (4.4.2\_r1)

Source: 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 alsa-utils (1.0.28)

Source: 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-projectoks/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

|                     |                    | Hazardous Substances |                 |                 |                                    |                                   |   |
|---------------------|--------------------|----------------------|-----------------|-----------------|------------------------------------|-----------------------------------|---|
| Part Name           |                    | Lead<br>(Pb)         | Mercury<br>(Hg) | Cadmium<br>(Cd) | Hexavalent<br>chromium<br>(Cr(VI)) | Polybrominated<br>biphenyls (PBB) | Polybrominated<br>diphenyl ethers<br>(PBDE) |
| Plastic f           | rame               | 0                    | 0               | 0               | 0                                  | 0                                 | 0   |
| Rear ch             | assis              | 0                    | 0               | 0               | 0                                  | 0                                 | 0   |
| LCD<br>panel        | CCFL               | ×                    | ×               | 0               | 0                                  | 0                                 | 0   |
|                     | LED                | ×                    | 0               | 0               | 0                                  | 0                                 | 0   |
| The cire<br>assembl | cuit board<br>ies* | ×                    | 0               | 0               | 0                                  | 0                                 | 0   |
| Base                |                    | 0                    | 0               | 0               | 0                                  | 0                                 | 0   |
| Power of            | able               | ×                    | 0               | 0               | 0                                  | 0                                 | 0   |
| Other n             | naterials          | ×                    | 0               | 0               | 0                                  | 0                                 | 0   |
| Remote              | Control            | ×                    | 0               | 0               | 0                                  | 0                                 | 0   |

\*: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.

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

X: 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).

#### **Environmental Protection Use Period**



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.