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User manual _____

PHILIPS

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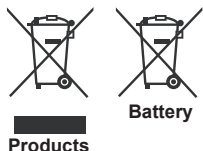
Important

'Read and understand all information in this manual and in the accompanying Safety booklet before you install and use your TV. If damage is caused by failure to follow these instructions, the warranty does not apply.'

Disposal of old Equipment and Batteries

Please do not dispose of this TV or battery as general household waste. If you want to dispose of this product or battery, please consider the collection systems or facilities for appropriate recycling.

Notice: The sign Pb below the symbol for batteries indicates that this battery contains lead.



Markings on the Product

The following symbols are used on the product as a marker for restrictions and precautions and safety instructions. Each explanation shall be considered where the product bears related marking only. Note such information for security reasons.



Class II Equipment: This appliance is designed in such a way that it does not require a safety connection to electrical earth.



Hazardous Live Terminal: The marked terminal(s) is/are hazardous live under normal operating conditions.



Caution, See Operating Instructions: The marked area(s) contain(s) user replaceable coin or button cell batteries.



Class 1 Laser Product:

This product contains Class 1 laser source that is safe under reasonably foreseeable conditions of operation.

Safety Information

IMPORTANT - Please read these instructions and the accompanying Safety booklet fully before installing or operating

- Use this TV set at an altitude of less than 2000 meters above the sea level, in dry locations and in regions with moderate or tropical climates.
- To avoid danger of suffocation, keep plastic bags out of the reach of the babies, children and domestic animals.
- Carefully attach the stand to the TV. If the stand is provided with screws, tighten the screws firmly to prevent the TV from tilting. Do not over-tighten the screws and mount the stand rubbers properly.
- The TV set is intended for household and similar general use but may also be used in public places.

WARNING

Do not ingest the battery, Chemical Burn Hazard
This product or the accessories supplied with the product may contain a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.

Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children.

If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

WARNING

Never place a television set in unstable or inclined locations. A television set may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as;

- Using cabinets or stands recommended by the manufacturer of the television set.
- Only using furniture that can safely support the television set.
- Educating children about the dangers of climbing on furniture to reach the television set or its controls. If your existing television set is being retained and relocated, the same considerations as above should be applied.

WALL MOUNTING WARNINGS

- Read the instructions before mounting your TV on the wall.
- The wall mount kit is optional. You can obtain from your local dealer, if not supplied with your TV.
- Do not install the TV on a ceiling or on an inclined wall.
- Use the specified wall mounting screws and other accessories.
- Tighten the wall mounting screws firmly to prevent the TV from fall. Do not over-tighten the screws.

WARNING

Apparatus connected to the protective earthing of the building installation through the MAINS connection or through other apparatus with a connection to protective earthing – and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator)

Figures and illustrations in this user manual are provided for reference only and may differ from the actual product appearance. Product design and specifications may be changed without notice.

Use Your TV

Remote Control



1. **Standby:** Switches On / Off the TV
2. **Text:** Displays teletext (where available), press again to superimpose the teletext over a normal broadcast picture (mix)
3. **Stop:** Stops the media being played
4. **Screen:** Changes the aspect ratio of the screen
5. **Source:** Shows all available broadcast and content sources
6. **Menu:** Displays TV menu
7. **Swap:** Quickly cycles between previous and current channels or sources
8. **Navigation buttons:** Helps navigate menus, content etc. and displays the subpages in TXT mode when pressed Right or Left
9. **Programme - / Page -** (in TXT mode)
10. **Volume -**
11. **Green button:** Follow the on-screen instructions for coloured button functions
12. **Red button:** Follow the on-screen instructions for coloured button functions
13. **Numeric buttons:** Switches the channel, enters a number or a letter in the text box on the screen.
14. **Subtitles:** Turns subtitles on and off (where available)
15. **Language:** Switches between sound modes (analogue TV), displays and changes audio/subtitle language (digital TV, where available)
16. **Blue button:** Follow the on-screen instructions for coloured button functions
17. **Yellow button:** Follow the on-screen instructions for coloured button functions
18. **Volume +**
19. **Mute:** Completely turns off the volume of the TV
20. **Programme + / Page +** (in TXT mode)
21. **Return/Back:** Returns to previous screen, opens index page (in TXT mode)
22. **OK:** Confirms user selections, holds the page (in TXT mode), views channel list
23. **Info:** Displays information about on-screen content, shows hidden information (reveal - in TXT mode)
24. **Play:** Starts to play selected media
25. **Pause:** Pauses the media being played
26. **Sleep:** Sets your TV to shut down automatically
27. **EPG (Electronic programme guide):** Displays the electronic programme guide

Teletext

Press **Text** button to view teletext information. Press again to activate mix mode, which allows you to see the teletext page and the TV broadcast at the same time. Press once more to exit. If available, sections or pages in teletext will become color-coded and can be selected by pressing the colored buttons. Use either the navigation or the **Programme +/-** buttons to browse the pages. The operation method may differ depending on the contents of the teletext. Follow the instructions displayed on the screen.

Note: The Remote Control range is approximately 7m / 23ft.

Notifications, features and accessories

Energy efficiency

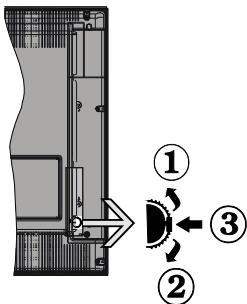
This TV is designed with energy efficiency features:

- **Energy Saving:** You can apply a combination of energy saving picture settings. While you watch TV, press the **Menu** button and, the **Energy Saving** settings can be found in the **Picture** section of the Main Menu.
- **Picture off mode:** If you only want to listen to audio from the TV, you can switch off the display. Other functions continue to operate normally. While you watch TV, press **Menu** button and select **Picture**, and from there select the **Energy Saving** option. Press Right button while **Auto** option is selected or Left button while **Custom** option is selected. A message will be displayed on the screen. Select **Proceed** and press **OK** to turn the screen off immediately. If you don't press any button, the screen will be off in 15 seconds. Press any button on the remote or on the TV to turn the screen on again.

Note: *Screen Off option is not available if the Mode is set to Game. Disconnect your TV from the mains plug in case your TV is going to be inactive for a long time.*

TV scroll button

The TV Scroll button on the side of the TV allows you to control the volume level, change the channel, input source and switch the TV into standby mode or switch it on.



To change volume: Increase the volume by scrolling up. Decrease the volume by scrolling down.

To change channel:

- Press the middle of the scroll button in, the channel information banner will appear on screen.
- Scroll through the stored channels by pushing the button up or down.

To change source:

- Press the middle of the button in twice (for the second time in total), the source list will appear on screen.
- Scroll through the available sources by pushing the button up or down.

To switch the TV to standby: Press the middle of the button in and hold it down for a few seconds, the TV will turn into standby mode.

To switch the TV on from standby: Press the middle of the button in, the TV will turn on.

Notes:

If you turn the TV off, this cycle starts again beginning with the volume setting.

Main menu OSD cannot be displayed via control button.

Switching on/off

To switch the TV on

To switch on the TV from standby mode either:

- Press the **Standby** button, **Programme +/-** or a numeric button on the remote control.
- Press the middle of the side function switch on the TV in.

Note: *If the TV has been left on and not been operated for a while, the TV will go into standby. When you next switch-on, the following message will be displayed. "TV switched to stand-by mode automatically because no operation was made for a long time". Press OK to continue.*

To switch the TV off

- Press the **Standby** button on the remote control or press the middle of the side function switch on the TV in and hold it down for a few seconds, the TV will switch into standby mode.

Note: *To power down the TV completely, unplug the power cord from the mains socket.*

First time installation

You will see the language selection screen when you first turn on your TV. Select your preferred language and press **OK**.

Note: *Depending on the Country selection you may be asked to set and confirm a PIN at this point. The selected PIN cannot be 0000. You have to enter it if you are asked to enter a PIN for any menu operation later.*

If a USB device is connected to the TV, you can press the GREEN button on the remote before continuing, in order to load the NVRAM data (service list, preferences, etc.) from the USB device which is uploaded from another Philips Hotel TV. Refer to the "Copy To USB" and "Copy From USB" sections in the quick start guide.

If the correct software update file is pre-installed in the USB device, you can press the RED button on the remote before continuing, in order to upgrade your TV's software. The software update file should be named as "VES172HE_upgrade.bin" or "Philips_upgrade_mb130.bin".

Software upgrade via an USB device can be done anytime by using the hidden key combination, "Menu-1-5-0-5".

On the next screen, set your preferences using the directional buttons and when finished, press **OK** to continue.

You can set up your TV by following the First Time Installation (FTI) screen with the following selections.

Digital Aerial installation

If **Digital Aerial** broadcast search option is turned on, the TV will search for digital terrestrial broadcasts after other initial settings are completed.

Digital Cable installation

If **Digital Cable** broadcast search option is turned on, the TV will search for digital cable broadcasts after other initial settings are completed. According to your other preferences a confirmation message may be displayed before starting to search. For automatic installation in case your Cable network supplier supports a Network-ID based installation (e.g. Unitymedia), select **Yes** and press **OK**.

In case your Cable network supplier does not support a Network-ID based installation please select **No**, press **OK** and follow the instructions on the screen.

You can also select frequency ranges from this screen. Enter the frequency range manually by using the numeric buttons.

Note: Searching duration will change depending on the selected **Search Step**.

Analogue installation

If **Analogue** broadcast search option is turned on, the TV will search for analogue broadcasts after other initial settings are completed.

Satellite installation (depending on the model)

If **Satellite** broadcast search option is turned on, the TV will search for digital satellite broadcasts after other initial settings are completed. Before satellite search is performed some settings should be made.

Antenna Type menu will be displayed first. You can select **Antenna type** as **Direct**, **Single Satellite Cable** or **DiSEqC switch** by using “◀” or “▶” buttons.

- **Direct:** If you have a single receiver and a direct satellite dish, select this antenna type. Press **OK** to continue. Select an available satellite on the next screen and press **OK** to scan for services.
- **Single Satellite Cable:** If you have multiple receivers and a single satellite cable system, select this antenna type. Press **OK** to continue. Configure settings by following instructions on the next screen. Press **OK** to scan for services.
- **DiSEqC switch:** If you have multiple satellite dishes and a **DiSEqC switch**, select this antenna type. Then set the DiSEqC version and press **OK** to continue. You can set up to four satellites (if available) for version v1.0 and sixteen satellites for version v1.1 on the next screen. Press **OK** button to scan the first satellite in the list.

Additionally you can set a broadcast type as your favourite one. Priority will be given to the selected broadcast type during the search process and the

channels of it will be listed on the top of the **Channel List**. When finished, press **OK** to continue.

Home Mode / Store Mode selection screen follows. It is recommended to select **Home Mode** for home use.

After the initial settings are completed TV will start to search for available broadcasts of the selected broadcast types.

While the search continues a message may appear, asking whether you want to sort channels according to the LCN(*). Select **Yes** and press **OK** to confirm.

(* *LCN is the Logical Channel Number system that organizes available broadcasts in accordance with a recognizable channel number sequence (if available).*

After all the available stations are stored, scan results will be displayed. Press **OK** to continue. The **Edit Channel List** will be displayed next. Press **Menu** button to quit **Edit Channel List** and watch TV.

Note: Do not turn off the TV while initializing first time installation. Note that, some options may not be available depending on the country selection.

Play media files from a USB drive

You can play photo, music and movie files stored on a USB disk by connecting it to your TV. Connect a USB disk to one of the USB inputs located on the rear side of the TV. The USB device will be automatically recognized by the TV and **Media Browser** menu will be displayed. You can also access to **Media Browser** menu from the main TV menu. Press the **Menu** button, select **Media Browser** from the list and press the **OK** button to enter.

After selecting a desired media type in the main **Media Browser** menu, pressing the **Menu** button will access the **Picture**, **Sound** and **Settings** menu options. Pressing the **Menu** button again will exit from this screen. You can set your **Media Browser** preferences by using the **Settings** menu.

To enable **Auto Play** feature highlight this option in the **Settings** menu and set as **On** using the directional buttons. When this feature is enabled, the TV detects connected USB devices and searches for media files.

Photo files are searched first. If no photo files are found, the program searches for Video files. If no Video files are found, the program searches for Audio files.






After finding a file to play, the format of this file will be selected as a constant choice and each file with this format will be played in an infinite loop. Using the remote control to exit etc. will interrupt the playing of the file(s) and break the play loop.

When the TV cannot find any media files, the main media browser menu will be displayed on the screen. Set the **View Style** as **Flat** to make all files searched in all sub-folders in the USB device.

Note: If the TV is in standby mode, this feature will not be available.

IMPORTANT! Back up your files before making any connections to the TV. The manufacturer will not be responsible for any file damage or data loss. Certain types of USB devices, for example, MP3 players or USB hard disk drives/memory sticks may not be compatible with this TV.

Media browser menu

<i>Loop/Shuffle Mode Operation</i>	
Start playback with the Play button and activate 	All files in the list will be continuously played in original order
Start playback with the OK button and activate 	The same file will be played continuously (repeat)
Start playback with the Play button and activate 	All files in the list will be played once in random order
Start playback with the Play button and activate  	All files in the list will be continuously played in the same random order

CEC

This function allows to control the CEC-enabled devices, that are connected through HDMI ports by using the remote control of the TV.

The **CEC** option in the **Settings>More** menu should be set as **Enabled** at first. Press the **Source** button and select the HDMI input of the connected CEC device from the **Sources list** menu. When new CEC source device is connected, it will be listed in source menu with its own name instead of the connected HDMI ports name(such as DVD Player, Recorder 1 etc.).

The TV remote is automatically able to perform the main functions after the connected HDMI source has been selected.

To terminate this operation and control the TV via the remote again, press and hold the “0-Zero” button on the remote control for 3 seconds. This feature can also be enabled or disabled under the **Settings>More** menu.

The TV supports also ARC(Audio Return Channel) feature. This feature is an audio link meant to replace other cables between the TV and the audio system (A/V receiver or speaker system).

When ARC is active, TV does not mute its other audio outputs automatically. So you need to decrease TV volume to zero manually, if you want to hear audio from connected audio device only (same as other optical or co-axial digital audio outputs). If you want to change connected device’s volume level, you should select that device from the source list. In that case volume control keys are directed to connected audio device.

Note: ARC is supported only via the HDMI2 input.

System Audio Control

Allows an Audio Amplifier/Receiver to be used with the TV. The volume can be controlled using the remote control of the TV. To activate this feature set the **Speakers** option in the **Settings>More** menu as **Amplifier**. The TV speakers will be muted and the sound of the watched source will be provided from the connected sound system.

Note: The audio device should support System Audio Control feature and **CEC** option should be set as **Enabled**.

Change TV settings

To access the options listed below;

- 1- Press the **Menu** button
- 2- Highlight your selection
- 3- Press **OK** to confirm

Display options

Mode: Changes the picture mode to one of the following: **Cinema**, **Game(*)**, **Sports**, **Dynamic** and **Natural**.

(*) **Game mode option** may not be available depending on the current source selection.

Contrast: Sets the light and dark values of the image.

Brightness: Sets the brightness value of the image.

Sharpness: Sets the sharpness value. A high sharpness value may result in a clearer, crisper image depending on the content.

Colour: Sets the color value.

Backlight: Controls the brightness of the backlight. The backlight function will be inactive if the **Energy Saving** is set to an option other than **Custom**.

Sound options

Volume: Adjusts volume level.

Equalizer: Changes the equalizer mode.

Balance: Adjusts whether the sound is coming mainly from the right or left speakers.

Headphone: Sets headphone volume. This option will be inactive if the **Headphone/Lineout** option is set to **Lineout**.

Sound Mode: Sets the preferred sound mode.

AVL: Sets a limit to maximum volume output.

Headphone/Lineout: This option should be set to **Headphone** if you have headphones or **Lineout** if you have external amplifier connected to the headphone jack.

Dynamic Bass: Enables or disables the Dynamic Bass. Increases the range of bass.

Surround Sound: Surround sound mode can be changed as **On** or **Off**.

Digital Out: Sets digital out audio type.

Configuring parental settings

This feature is for restricting access to selected content. It is controlled by a pin number defined by you. These settings are located in the **Settings>Parental** menu.

Note: Default PIN may be set to **0000** or **1234**. If you have defined the PIN (is requested depending on the country selection) during the **First Time Installation** use the PIN that you have defined. Some options may not be available depending on the country selection in the **First Time Installation**.

Menu lock: Menu lock setting enables or disables the menu access.

Maturity lock (optional): If this option is set, TV gets the maturity information from the broadcast and if this maturity level is disabled, disables access to the broadcast.

Child lock (optional): When Child Lock is set, the TV can only be controlled by the remote control. In this case the control panel buttons will not work.

Guidance (optional): This setting enables or disables access some of the MHEG applications. Disabled applications can be released by entering the right PIN.

Set PIN: Defines a new PIN number.

Default CICAM PIN: This option will appear as greyed out if no CI module is inserted into the CI slot of the TV. You can change the default PIN of the CI CAM using this option.

Electronic program guide (EPG)

Some channels send information about their broadcast schedules. Press the **Epg** button to view the EPG menu.

There are 3 different types of schedule layouts available, **Timeline Schedule**, **List Schedule** and **Now/Next Schedule**. To switch between them follow the instructions on the bottom of the screen.

Timeline Schedule

Zoom (Yellow button): Press the **Yellow** button to see events in a wider time interval.

Filter (Blue button): Views filtering options.

Highlight Genre (Subtitles button): Displays **Highlight Genre** menu. Using this feature, you can search the program guide database in accordance with the genre. Info available in the program guide will be searched and results matching your criteria will be highlighted.

Options (OK button): Displays event options.

Event Details (Info button): Displays detailed information about selected events.

Next/Prev Day (Program +/- buttons): Displays the events of previous or next day.

Search (Text button): Displays **Guide Search** menu.

Now (Swap button): Displays current event of the highlighted channel.

List Schedule(*)

(*) In this layout option, only the events of the highlighted channel will be listed.

Prev. Time Slice (Red button): Displays the events of previous time slice.

Next/Prev Day (Program +/- buttons): Displays the events of previous or next day.

Event Details (Info button): Displays detailed information about selected events.

Filter (Text button): Views filtering options.

Next Time Slice (Green button): Displays the events of next time slice.

Options (OK button): Displays event options.

Now/Next Schedule

Options (OK button): Displays event options.

Event Details (Info button): Displays detailed information about selected events.

Filter (Blue button): Views filtering options.

Event Options

In EPG menu, press the **OK** button to open the **Event Options** menu.

Select Channel: In EPG menu, using this option, you can switch to the selected channel.

Set Timer on Event / Delete Timer on Event: After you have selected an event in the EPG menu, press the **OK** button. Select the **Set Timer on Event** option and press the **OK** button. You can set a timer for future events. To cancel an already set timer, highlight that event and press the **OK** button. Then select **Delete Timer on Event** option. The timer will be cancelled.

Update your TV

Navigate on your main menu, choose **Settings>More**, the version of the current software is displayed.

CAUTION: Do not install a lower version of software than the current version installed on your product. TP Vision cannot be held liable or be made responsible for problems caused by a software downgrade.

Update with USB

Before you update the software, make sure that you have:

- A USB storage device that has at least 256 megabytes of storage space, is FAT32 or DOS formatted and has its write protection disabled.
- Access to a computer with a USB connector and Internet access.

Navigate to www.philips.com/support, and follow the software update instructions.

Automatic update from digital broadcast

While the TV is connected to an aerial signal. If **Automatic scanning** in the **Upgrade options** menu is **Enabled**, the TV wakes up at 03:00 and searches broadcast channels for new software upgrades. If new software is found and downloaded successfully, the next time the TV powers up, it will have the new

software version. To open the **Upgrade options** menu, enter the **Settings>More** menu, highlight **Software upgrade** and press the **OK** button.

Note: Do not unplug the power cord while led is blinking during the reboot process. If the TV fails to come on after the upgrade unplug the TV for 2 minutes and plug in again.

Troubleshooting & Tips

Tv will not turn on

Make sure the power cord is plugged in securely to wall outlet. Check if batteries are exhausted. Press the Power button on the TV.

Poor picture

- Check if you have selected the correct TV system.
- Low signal level can cause picture distortion. Please check antenna access.
- Check if you have entered the correct channel frequency if you have done manual tuning.
- The picture quality may degrade when two devices are connected to the TV at the same time. In such a case, disconnect one of the devices.

No picture

- This means your TV is not receiving any transmission. Make sure the correct source has been selected.
- Is the antenna connected properly?
- Is the antenna cable damaged?
- Are suitable plugs used to connect the antenna?
- If you are in doubt, consult your dealer.

No sound

- Check if the TV is muted. Press the **Mute** button or increase the volume to check.
- Sound may be coming from only one speaker. Check the balance settings from **Sound** menu.

Remote control - no operation

- The batteries may be exhausted. Replace the batteries.

Input sources - can not be selected

- If you cannot select an input source, it is possible that no device is connected. If not;
- Check the AV cables and connections if you are trying to switch to the input source dedicated to the connected device.

The Image is not centered in VGA source

To have your TV automatically center the image, enter the **PC Position** menu in **Picture** menu, highlight **Autoposition** and press **OK**. Wait for it to finish. In order to set the position of the image manually you can use **H Position** and **V Position** options. Select the desired option and use Left and Right directional buttons on the remote to set.

PC input typical display modes

The following table is an illustration of some of the typical video display modes.

Index	Resolution	Frequency
1	640x350	85Hz
2	640x480	60Hz
3	640x480	72Hz
4	640x480	75Hz
5	800x600	56Hz
6	800x600	60Hz
7	800x600	72Hz
8	800x600	75Hz
9	1024x768	60Hz
10	1024x768	70Hz
11	1024x768	75Hz
12	1024x768	85Hz
13	1152x864	75Hz
14	1280x768	60Hz
15	1280x768	75Hz
16	1280x960	60Hz
17	1280x960	75Hz
18	1280x1024	60Hz
19	1280x1024	75Hz
20	1360x768	60Hz
21	1366x768	60Hz
22	1400x1050	59Hz
23	1400x1050	60Hz
24	1400x1050	75Hz
25	1440x900	60Hz
26	1440x900	75Hz
27	1600x1200	60Hz
28	1680x1050	59Hz
29	1680x1050	60Hz
30	1920x1080	60Hz

AV and HDMI signal compatibility

Source	Supported Signals	Available	
Back AV	PAL	O	
	SECAM	O	
	NTSC4.43	O	
	NTSC3.58	O	
PC/YPbPr	480i, 480p	60Hz	O
	576i, 576p	50Hz	O
	720p	50Hz,60Hz	O
	1080i	50Hz,60Hz	O
HDMI	480i, 480p	60Hz	O
	576i, 576p	50Hz	O
	720p	50Hz,60Hz	O
	1080i	50Hz,60Hz	O
	1080p	24Hz, 25Hz, 30Hz, 50Hz, 60Hz	O
	3840x2160p	24Hz, 25Hz, 30Hz, 50Hz, 60Hz	O
	4096x2160p	24Hz, 25Hz, 30Hz, 50Hz, 60Hz	O

Note: There are **Regular**, **Enhanced** and **Disabled** options available for HDMI sources. **Regular** and **Enhanced** options are affecting the colour settings of the selected HDMI source. To be able to watch 4K images from an HDMI source related source setting should be set as **Enhanced** if the connected device is HDMI 2.0 compatible. Set as **Regular** if the connected device is HDMI 1.4 compatible. Set accordingly or disable the related HDMI source by setting as **Disabled**. You can configure these settings using the **Settings>Sources** menu options. Highlight the desired HDMI source and set by using the directional buttons.

Supported Video File Formats for USB Mode

Video Codec	Resolution	Bit Rate	Container
MPEG1/2	1080Px2@30fps, 1080P@60fps	40Mbps	MPEG program stream (.DAT, .VOB, .MPG, .MPEG), MPEG transport stream (.ts, .trp, .tp), MP4 (.mp4, .mov), 3GPP (.3gpp, .3gp), AVI (.avi), MKV (.mkv), ASF (.asf)
MPEG4			MPEG program stream (.MPG, .MPEG), MP4 (.mp4, .mov), 3GPP (.3gpp, .3gp), AVI (.avi), MKV (.mkv), ASF (.asf)
Sorenson H.263			FLV (.flv), AVI (.avi), SWF(.swf)
H.263			MP4 (.mp4, .mov), 3GPP (.3gpp, .3gp), AVI (.avi), MKV (.mkv)
H.264	3840x2160@30fps, 1080P@60fps	135Mbps	FLV (.flv), MP4 (.mp4, .mov), 3GPP (.3gpp, .3gp), MPEG transport stream (.ts, .trp, .tp), ASF (.asf), AVI (.avi), MKV (.mkv)
Motion JPEG	720P@30fps	10Mbps	AVI (.avi), 3GPP (.3gpp, .3gp), MP4 (.mp4, .mov), MKV (.mkv), ASF (.asf)
VP8	1080P@30fps	20Mbps	MKV (.mkv), WebM (.webm)
HEVC/H.265	4K2K@60fps	100Mbps	MP4 (.mp4, .mov), MKV (.mkv), MPEG transport stream (.ts, .trp, .tp)
	1080P@60fps	50Mbps	MP4 (.mp4, .mov), MKV (.mkv), MPEG transport stream (.ts, .trp, .tp), 3GPP (.3gpp, .3gp)
VP9	4K2K@30fps	100Mbps	MKV (.mkv), WebM (.webm)

Supported Picture File Formats for USB Mode

Image	Photo	Resolution (width x height)	Remark
JPEG	Base-line	15360x8640	The limitation of max resolution depends on DRAM size
	Progressive	1024x768	
PNG	non-interlace	9600x6400	
	interlace	1200x800	
BMP		9600x6400	

Supported Audio File Formats for USB Mode

Audio Codec	Sample rate	Bit Rate	Container
MPEG1/2 Layer1	16KHz ~ 48KHz	32Kbps ~ 448Kbps	MP3 (.mp3), AVI (.avi), ASF (.asf), Matroska (.mkv, .mka), MPEG transport stream (.ts, .trp, .tp), MPEG program stream (.DAT, .VOB, .MPG, .MPEG), WAV (.wav)
MPEG1/2 Layer2	16KHz ~ 48KHz	8Kbps ~ 384Kbps	MP3 (.mp3), AVI (.avi), ASF (.asf), Matroska (.mkv, .mka), MPEG transport stream (.ts, .trp, .tp), MPEG program stream (.DAT, .VOB, .MPG, .MPEG), WAV (.wav)
MPEG1/2 Layer3	16KHz ~ 48KHz	8Kbps ~ 320Kbps	MP3 (.mp3), AVI (.avi), ASF (.asf), Matroska (.mkv, .mka), 3GPP (.3gpp, .3gp), MP4 (.mp4, .mov, m4a), MPEG transport stream (.ts, .trp, .tp), MPEG program stream (.DAT, .VOB, .MPG, .MPEG), FLV (.flv), WAV (.wav), SWF (.swf)
AC3	32KHz, 44.1KHz, 48KHz	32Kbps ~ 640Kbps	AC3 (.ac3), AVI (.avi), Matroska (.mkv, .mka), 3GPP (.3gpp, .3gp), MP4 (.mp4, .mov, m4a), MPEG transport stream (.ts, .trp, .tp), MPEG program stream (.DAT, .VOB, .MPG, .MPEG)
EAC3	32KHz, 44.1KHz, 48KHz	32Kbps ~ 6 Mbps	EAC3 (.ec3), 3GPP (.3gpp, .3gp), MP4 (.mp4, .mov, m4a), MPEG transport stream (.ts, .trp, .tp), MPEG program stream (.DAT, .VOB, .MPG, .MPEG)
AAC, HEAAC	8KHz ~ 48KHz		AAC (.aac), AVI (.avi), Matroska (.mkv, .mka), 3GPP (.3gpp, .3gp), MP4 (.mp4, .mov, m4a), MPEG transport stream (.ts, .trp, .tp), MPEG program stream (.DAT, .VOB, .MPG, .MPEG), FLV (.flv), RM (.ra)
WMA	8KHz ~ 48KHz	128bps ~ 320Kbps	
WMA 10 Pro M0	48KHz	< 192kbps	ASF (.wma, .asf), AVI (.avi), Matroska (.mkv, .mka)
WMA 10 Pro M1	48KHz	< 384kbps	
WMA 10 Pro M2	96KHz	< 768kbps	
G711 A/mu-law	8KHz	64Kbps ~ 128Kbps	WAV (.wav), AVI (.avi), Matroska (.mkv, .mka), 3GPP (.3gpp, .3gp), MP4 (.mp4, .mov, m4a)
LBR (cook)	8KHz, 11.025KHz, 22.05KHz, 44.1KHz	6Kbps ~ 128Kbps	RM (.ra)
FLAC	8KHz~96KHz	< 1.6Mbps	Matroska (.mkv, .mka)

Supported Subtitle File Formats for USB Mode

Internal Subtitles		
Extension	Container	Subtitle Code
dat, mpg, mpeg, vob	MPG, MPEG	DVD Subtitle
ts, trp, tp	TS	DVB Subtitle
mp4	MP4	DVD Subtitle UTF-8 Plain Text
mkv	MKV	ASS SSA UTF-8 Plain Text VobSub DVD Subtitle
avi	AVI (1.0, 2.0), DMF0,1, 2	XSUB XSUB+

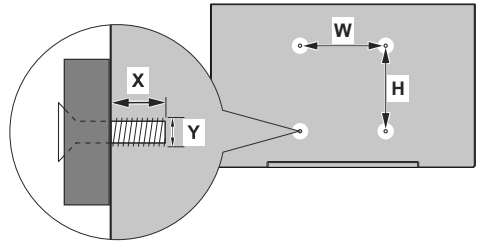
External Subtitles		
Extension	Subtitle Parser	Remark
.srt	Subrip	
.ssa/ .ass	SubStation Alpha	
.smi	SAMI	
.sub	SubViewer MicroDVD DVDSubtitleSystem SubIdx (VobSub)	SubViewer 1.0 & 2.0 Only
.txt	TMPlayer	

Specification

TV Broadcasting	PAL BG/I/DK/LL' SECAM BG/DK
Receiving Channels	VHF (BAND I/III) - UHF (BAND U) - HYPERBAND
Digital Reception	Fully integrated digital terrestrial-cable-satellite TV (DVB-T-C-S) (DVB-T2, DVB-S2 compliant)
Number of Preset Channels	8000
Channel Indicator	On Screen Display
RF Aerial Input	75 Ohm (unbalanced)
Operating Voltage	220-240V AC, 50Hz.
Audio	German+Nicam Stereo
Operation temperature and operation humidity	0°C up to 40°C, 85% humidity max

Display	55"	65"	75"
Audio Output Power (WRMS.) (10% THD)	2x10W	2x12W	2x12W
Power Consumption (W)	140W	200W	260W
Weight (Kg)	15,50 kg	23,30 kg	36,60 kg
TV Dimensions DxLxH (with foot) (mm)	219,9x1247,8x768,2 mm	345,3x1459,4x901,6 mm	370 x 1684 x 1026 mm
TV Dimensions DxLxH (without foot) (mm)	26,3(min)95,8(max)x1247,8x729,6 mm	31,6(min)/73,5(max)x1459,4.4x841,2 mm	32/73(min)x1684(max)x967 mm

VESA WALL MOUNT MEASUREMENTS (55")			
B	Hole Pattern Sizes (mm)	W	H
		400	200
C	Screw Sizes		
D	Length (X)	min. (mm)	10
		max. (mm)	13
E	Thread (Y)	M6	



VESA WALL MOUNT MEASUREMENTS (65")			
B	Hole Pattern Sizes (mm)	W	H
		400	400
C	Screw Sizes		
D	Length (X)	min. (mm)	10
		max. (mm)	13
E	Thread (Y)	M6	

VESA WALL MOUNT MEASUREMENTS (75")			
B	Hole Pattern Sizes (mm)	W	H
		600	400
C	Screw Sizes		
D	Length (X)	min. (mm)	15
		max. (mm)	20
E	Thread (Y)	M8	

	A	B	C	D	E
English	VESA WALL MOUNT MEASUREMENTS	Hole Pattern Sizes (mm)	Screw Sizes	Length (X)	Thread (Y)
Deutsch	MASSANGABEN FÜR VESA-WANDMONTAGE	Lochmustergrößen (mm)	Schraubengrößen	Länge (X)	Gewinde (Y)
Français	DIMENSIONS DU SUPPORT DE FIXATION MURALE VESA	Dimensions des modèles de trous de montage (mm)	Dimensions des vis	Longueur (X)	Filetage (Y)
Italiano	Misurazioni installazione a parete VESA	Dimensioni schema foro (mm)	Dimensioni vite	Lunghezza (X)	Filettatura (Y)
Português	MEDIÇÕES DE MONTAGEM MURAL VESA	Dimensões do molde de furação (mm)	Tamanhos do parafuso	Comprimento (X)	Rosca (Y)
Español	MEDIDAS DEL MONTAJE DE PARED VESA	Tamaños de patrón para agujero (mm)	Tamaños de tornillo	Longitud (X)	Rosca (Y)
Türkçe	VESA DUVARA MONTAJ APARATI ÖLÇÜLERİ	Açılacak Delik Ölçüleri (mm)	Vida Ölçüleri	Uzunluk (X)	Yüzey (Y)
Ελληνικ	ΔΙΑΣΤΑΣΕΙΣ ΒΑΣΗΣ ΤΟΙΧΟΥ VESA	Μεγέθη σχήματος οπών (mm)	Μεγέθη βιδών	Μήκος (X)	Σπειρωμα (Y)
Polski	WYMIARY DO MONTAŻU NAŚCIENNEGO VESA	Rozmiary szablonu otworów (mm)	Rozmiary wkrętów	Długość (X)	Gwint (Y)
Čeština	ROZMĚRY DRŽÁKA NA ZĚD VESA	Rozměry velikosti děr (mm)	Rozměry šroubů	Délka (X)	Závit (Y)
Magyar	VESA FALI TARTÓ MÉRTEK	Lyukak méretének nagyságát (mm)	Csavar méret	Hossz (X)	Menet (Y)
Română	MĂSURĂTORI SUPTOR PERETE VESA	Dimensiuni țipar gaură (mm)	Dimensiuni șuruburi	lungime (X)	Filet (Y)
Svenska	VESA VÄGGMONTERINGSMÅTT	Hålmonsterstorlekar (mm)	Skruvstorlekar	Längd (X)	Tråd (Y)
Nederlands	VESA WANDMONTAGE METINGEN	Grootte booropening (mm)	Schroefgrootte	Lengte (X)	Draad (Y)
Suomi	VESA-SEINÄASENNUKSEN MITAT	Reikäkuivion koot (mm)	Ruuvinkoot	Pituus (x)	Kierre (Y)
Norsk	VESA VEGGMONTERINGSMÅL	Hullmønster størrelser (mm)	Skruestørrelser	Lengde (x)	Tråd (Y)
Dansk	VESA VÆGMONTERINGS-MÅL	Hulmønster-størrelser (mm)	Skruestørrelser	Længde(X)	Tråd (Y)
Русский	РАЗМЕРЫ НАСТЕННОГО КРЕПЛЕНИЯ VESA	Размеры системы отверстий	Размеры винтов	Длина(X)	Резьба (Y)
Беларуская	ПАМЯРЫ НАСЦЕННАГА МАЦАВАННЯ VESA	Памеры сістэмы адтулін	Памеры вiнтоў	Даўжыня (X)	Разьба (Y)
македонски	МЕРКИ ЗА МОНТИРАЊЕ НА СИД ЗА „VESA“	Шема на големина на дупката (mm)	Големина на шрафот	Должина (X)	Навој (Y)
українська	РОЗМІРИ НАСТІННОГО КРІПЛЕННЯ VESA	Відстань між кріпильними отворами, мм	Розміри гвинтів	Довжина (X)	Діаметр різьби (Y)
Srpski	DIMENZJE VESA ZIDNOG NOSAČA	Dimenzije šablona za bušenje	Dimenzije zavrtneja	Dužina (X)	Navoj (Y)
Slovenčina	ROZMERY DRŽIAKA NA STENU VESA	Velikosti vzorca dier (mm)	Rozmery skrutek	Dĺžka (X)	Závit (Y)
Slovensčina	MERE STENSKÉGA NOSIČA VESA	Velikosti vzorca lukaj (mm)	Velikosti vijakov	Dožina (X)	Navoj (Y)
Hrvatski	VESA MJERE ZIDNOG DRŽAČA	Veličine uzorka otvora (mm)	Veličine vijaka	Dužina (X)	Navoj (Y)
Bosanski	DIMENZJE VESA ZIDNOG NOSAČA	Dimenzije šablona za bušenje	Dimenzije vijaka	Dužina (X)	Navoj (Y)
Български	РАЗМЕРИ ЗА КОМПЛЕКТ ЗА МОНТАЖ НА СТЕНА VESA	Размери на отвора (mm)	Размер на болта	Дължината (X)	Резба (Y)
Lietuvių	VESA TVIRTINIMO PRIE SIENOS MATAVIMAI	Angos šablono dydis (mm)	Varžtų dydis	Ilgis (X)	Sriegis (Y)
Latviešu	VESA SIENAS STIPRINĀJUMA IZMĒRI	Caurumu šablona izmērs (mm)	Skrūvju izmēri	Garums (X)	Vītne (Y)
Eesti	VESA SEINALE KINNITAMISE MÕÕDUD	Kruvi suuruse mõõt (mm)	Kruvi suurus	Kõrgus (X)	Keere (Y)
Shqip	PËRMASAT E NJËSISË SË MONTIMIT NË MUR VESA	Madhësitë modele te vrimave (mm)	Madhësitë e vidhave	Gjatësia (X)	Filetimi (Y)
عربي	مقاييس التثبيت على الجدار	أحجام الثقوب (مم)	أحجام المسمار	الطول (X)	النس (Y)
עברית	מידות מתקן תלייה על הקיר מסוג VESA	גודל הבקעים (מ"מ)	גודל הברגים	אורך (X)	הברג (Y)
فارسی	اندازه گیری اتصال دیواری VESA	اندازه های الگوی سوراخ (میلی متر)	اندازه های پیچ	طول (X)	رشته (Y)



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