

TELECO

19,6" Wide Screen LED DIGI TV

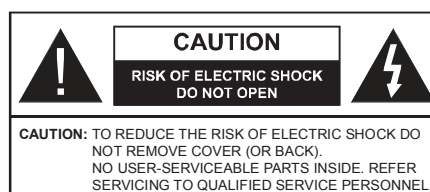
MODE D'EMPLOI ISTRUZIONI PER L' USO OPERATING INSTRUCTIONS

**TELEVISEUR COULEUR A TELECOMMANDE
TELEVISORE A COLORI CON TELECOMANDO
COLOUR TELEVISION WITH REMOTE CONTROL**



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Safety Information



In extreme weather (storms, lightning) and long inactivity periods (going on holiday) disconnect the TV set from the mains.

The mains plug is used to disconnect TV set from the mains and therefore it must remain readily operable. If the TV set is not disconnected electrically from the mains, the device will still draw power for all situations even if the TV is in standby mode or switched off.

Note: Follow the on screen instructions for operating the related features.

IMPORTANT - Please read these instructions fully before installing or operating

WARNING: Never let people (including children) with reduced physical, sensory or mental capabilities or lack of experience and / or knowledge use electrical devices unsupervised.

- 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.
- The TV set is intended for household and similar general use but may also be used in public places.
- For ventilation purposes, leave at least 5cm of free space around the TV.
- The ventilation should not be impeded by covering or blocking the ventilation openings with items, such as newspapers, table-cloths, curtains, etc.
- The power cord plug should be easily accessible. **Do not** place the TV, furniture, etc. on the power cord. A damaged power cord/plug can cause fire or give you an electric shock. Handle the power cord by the plug, **do not** unplug the TV by pulling the power cord. Never touch the power cord/plug with wet hands as this could cause a short circuit or electric shock. Never make a knot in the power cord or tie it with other cords. When damaged it must be replaced, this should only be done by qualified personnel.
- Do not expose the TV to dripping or splashing of liquids and do not place objects filled with liquids, such as vases, cups, etc. on or over the TV (e.g., on shelves above the unit).
- Do not expose the TV to direct sunlight or do not place open flames such as lit candles on the top of or near the TV.
- Do not place any heat sources such as electric heaters, radiators, etc. near the TV set.
- Do not place the TV on the floor and inclined surfaces.
- 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.
- Do not dispose of the batteries in fire or with hazardous or flammable materials.

Warning: Batteries must not be exposed to excessive heat such as sunshine, fire or the like.

 Caution	Serious injury or death risk
 Risk of electric shock	Dangerous voltage risk
 Maintenance	Important maintenance component

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.



Class II Equipment With Functional Earthing: This appliance is designed in such a way that it does not require a safety connection to electrical earth, the earth connection is used for functional purposes.



Protective Earth Connection: The marked terminal is intended for connection of the protective earthing conductor associated with the supply wiring.



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.

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, see EN 60728-11)

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.
- Ensuring the television set is not overhanging the edge of the supporting furniture.
- Not placing the television set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television set to a suitable support.
- Not standing the television set on cloth or other materials placed between the television and supporting furniture.
- 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.

Environmental Information

This television is designed to be environment friendly. To reduce energy consumption, you can follow these steps:

If you set the **Energy Saving** to **Minimum**, **Medium**, **Maximum** or **Auto** the TV will reduce the energy consumption accordingly. If you like to set the **Backlight** to a fixed value set as **Custom** and adjust the **Backlight** (located under the **Energy Saving** setting) manually using Left or Right buttons on the remote. Set as **Off** to turn this setting off.

Note: Available **Energy Saving** options may differ depending on the selected **Mode** in the **System>Picture** menu.

The **Energy Saving** settings can be found in the **System>Picture** menu. Note that some picture settings will be unavailable to be changed.

If pressed Right button while **Auto** option is selected or Left button while **Custom** option is selected, **Screen will be off in 15 seconds** 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**.

When the TV is not in use, please switch off or disconnect the TV from the mains plug. This will also reduce energy consumption.

Features

- Remote controlled colour TV
- Fully integrated digital terrestrial/cable/satellite TV (DVB-T-T2/C/S-S2)
- Fransat Installation Option
- HDMI inputs to connect other devices with HDMI sockets
- USB input
- OSD menu system
- Scart socket for external devices (such as DVD Players, PVR, video games, etc.)
- Stereo sound system
- Teletext
- Headphone connection
- Automatic programming system
- Manual tuning
- Automatic power down after up to eight hours.
- Sleep timer
- Child lock
- Automatic sound mute when no transmission.
- NTSC playback

- AVL (Automatic Volume Limiting)
- PLL (Frequency Search)
- PC input
- Game Mode (Optional)
- Picture off function
- Programme recording
- Programme timeshifting
- 802.11 a/b/g/n WIFI Support via USB dongle
- Audio Video Sharing
- HbbTV

Accessories Included

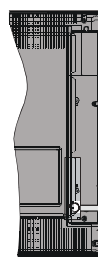
- Remote Control
- Batteries 2 x AAA
- Instruction Book
- DC 12 V Input Power Adaptor
- Car Plug

Standby Notifications

If the TV does not receive any input signal (e.g. from an aerial or HDMI source) for 3 minutes, it will go into standby. When you next switch-on, the following message will be displayed: **"TV switched to stand-by mode automatically because there was no signal for a long time."** Press **OK** to continue.

If the TV is on and it isn't being operated for a while it 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.

TV Control Switch & Operation



1. Up direction
 2. Down direction
 3. Volume / Info / Sources List selection and Standby-On switch
- The Control button allows you to control the Volume / Programme / Source and Standby-On functions of the TV.

To change volume:

Increase the volume by pushing the button up. Decrease the volume by pushing the button down.

To change channel: Press the middle of the button, the information banner will appear on the screen. Scroll through the stored channels by pushing the button up or down.

To change source: Press the middle of the button twice (for the second time in total), the source list will

appear on the screen. Scroll through the available sources by pushing the button up or down.

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

Notes:

- If you turn the TV off, this circle starts again beginning with the volume setting.
- Main menu OSD cannot be displayed via control button.

Operation with the Remote Control

Press the **Menu** button on your remote control to display main menu screen. Use the directional buttons to select a menu tab and press **OK** to enter. Use the directional buttons again to select or set an item. Press **Return/Back** or **Menu** button to quit a menu screen.

Input Selection

Once you have connected external systems to your TV, you can switch to different input sources. Press the **Source** button on your remote control consecutively to select the different sources.

Changing Channels and Volume

You can change the channel and adjust the volume by using the **Volume +/-** and **Programme +/-** buttons on the remote.

Inserting the Batteries into the Remote

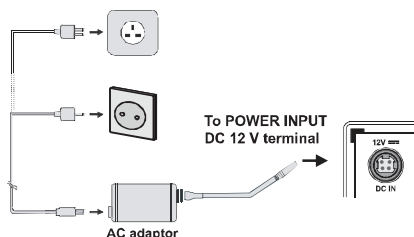


Remove the screw that secure the battery compartment cover on the back side of the remote control first. Remove the cover gently. Insert two AAA

batteries. Make sure the (+) and (-) signs match (observe correct polarity). Do not mix old and new batteries. Replace only with same or equivalent type. Place the cover back on. Then screw the cover back on again.

Connect Power

IMPORTANT: The TV set is designed to operate on **12 V DC**. For this, an adaptor is used which gives **12 V** voltage. Connect this adaptor to a system that supplies **110-240V AC, 50/60Hz**.



Important safety information

Be sure to ground the connection properly

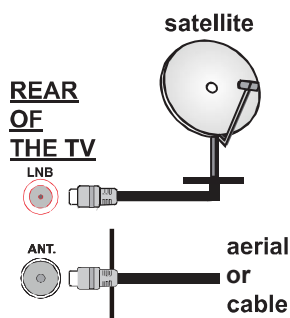
Connect the ground terminal of the AC adaptor with the ground terminal provided at the power outlet using the enclosed power cord. If the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.



Surely connect the ground wire.

Antenna Connection

Connect the aerial or cable TV plug to the AERIAL INPUT (ANT) socket or satellite plug to the SATELLITE INPUT (LNB) socket located on the back of the TV.



Notification

TRADEMARK ACKNOWLEDGMENT

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This product contains technology subject to certain intellectual property rights of Microsoft. Use or distribution of this technology outside of this product is prohibited without the appropriate license(s) from Microsoft.

Content owners use Microsoft PlayReady content access technology to protect their intellectual property, including copyrighted content. This device uses PlayReady technology to access PlayReady-protected content and/or WMDRM-protected content. If the device fails to properly enforce restrictions on content

usage, content owners may require Microsoft to revoke the device's ability to consume PlayReady-protected content. Revocation should not affect unprotected content or content protected by other content access technologies. Content owners may require you to upgrade PlayReady to access their content. If you decline an upgrade, you will not be able to access content that requires the upgrade.

Information for Users on Disposal of Old Equipment and Batteries

[European Union only]



Products

Battery

Equipment bearing these symbols should not be disposed as general household waste.

You should look for appropriate recycling facilities and systems for the disposal of these products.

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

Specification	
TV Broadcasting	PAL BG/DK/II' 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	10 000
Channel Indicator	On Screen Display
RF Aerial Input	75 Ohm (unbalanced)
Operating Voltage	100-240V AC, 50Hz.
Audio	German+Nicam Stereo
Audio Output Power (WRMS.) (10% THD)	2 x 2,5
Power Consumption (W)	40
Weight (Kg)	3,30
TV Dimensions DxLxH (with foot) (mm)	134 x 473 x 328
TV Dimensions DxLxH (without foot) (mm)	34 x 473 x 294
Display	19,6"
Operation temperature and operation humidity	0°C up to 40°C, 85% humidity max

Wireless LAN Transmitter Specifications

Frequency Ranges	Max Output Power
2400 - 2483,5 MHz (CH1-CH13)	< 100 mW
5150 - 5250 MHz (CH36 - CH48)	< 200 mW
5250 - 5350 MHz (CH52 - CH64)	< 200 mW
5470 - 5725 MHz (CH100 - CH140)	< 200 mW

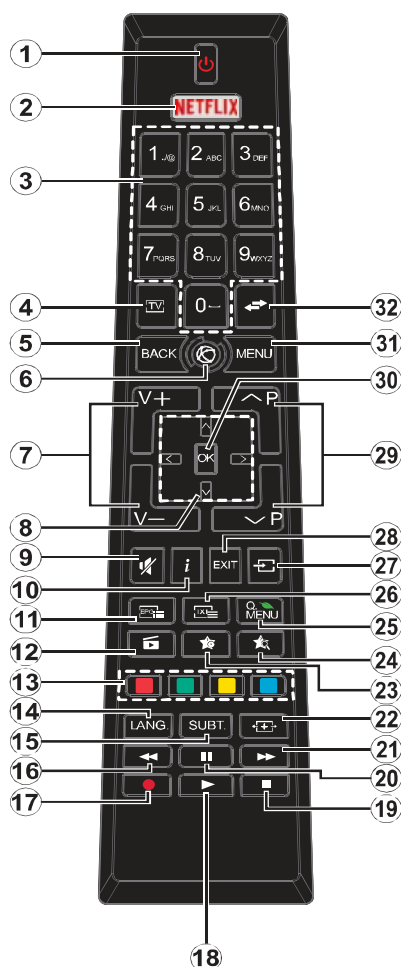
Country Restrictions

This device is intended for home and office use in all EU countries (and other countries following the relevant EU directive) without any limitation except for the countries mentioned below.

Country	Restriction
Bulgaria	General authorization required for outdoor use and public service
France	In-door use only for 2454-2483.5 MHz
Italy	If used outside of own premises, general authorization is required
Greece	In-door use only for 5470 MHz to 5725 MHz band
Luxembourg	General authorization required for network and service supply(not for spectrum)
Norway	Radio transmission is prohibited for the geographical area within a radius of 20 km from the centre of Ny-Ålesund
Russian Federation	In-door use only

The requirements for any country may change at any time. It's recommended that user checks with local authorities for the current status of their national regulations for both 2.4 GHz and 5 GHz wireless LAN's.

Remote Control



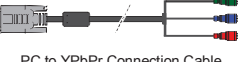
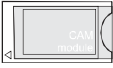
(*) MY BUTTON 1 & MY BUTTON 2:

These buttons may have default functions depending on the model. However you can set a special function to these buttons by pressing on them for five seconds when on a desired source or channel. A confirmation message will be displayed on the screen. Now the selected MY BUTTON is associated with the selected function.

Note that if you perform **First Time Installation**, MY BUTTON 1&2 will return to their default function.

1. **Standby:** Switches On / Off the TV
2. **Netflix:** Launches the Netflix application
3. **Numeric buttons:** Switches the channel, enters a number or a letter in the text box on the screen.
4. **TV:** Displays channel list / Switches to TV Source
5. **Back/Return:** Returns to previous screen, opens index page (in TXT mode)
6. **Internet:** Opens the portal page, where you can reach many web based applications
7. **Volume +/-**
8. **Directional buttons:** Helps navigate menus, content etc. and displays the subpages in TXT mode when pressed Right or Left
9. **Mute:** Completely turns off the volume of the TV
10. **Info:** Displays information about on-screen content, shows hidden information (reveal - in TXT mode)
11. **EPG (Electronic programme guide):** Displays the electronic programme guide
12. **Media browser:** Opens the media browsing screen
13. **Coloured Buttons:** Follow the on-screen instructions for coloured button functions
14. **Language:** Switches among sound modes (analogue TV), displays and changes audio/subtitle language (digital TV, where available)
15. **Subtitles:** Turns subtitles on and off (where available)
16. **Rapid reverse:** Moves frames backwards in media such as movies
17. **Record:** Records programmes
18. **Play:** Starts to play selected media
19. **Stop:** Stops the media being played
20. **Pause:** Pauses the media being played, starts timeshift recording
21. **Rapid advance:** Moves frames forward in media such as movies
22. **Screen:** Changes the aspect ratio of the screen
23. **My button 1 (*)**
24. **My button 2 (*)**
25. **Quick Menu:** Displays a list of menus for quick access
26. **Text:** Displays teletext (where available), press again to superimpose the teletext over a normal broadcast picture (mix)
27. **Source:** Shows all available broadcast and content sources
28. **Exit:** Closes and exits from displayed menus or returns to previous screen
29. **Programme +/-**
30. **OK:** Confirms user selections, holds the page (in TXT mode), views channel list (DTV mode)
31. **Menu:** Displays TV menu
32. **Swap:** Quickly cycles between previous and current channels or sources

Connections

Connector	Type	Cables	Device
	Scart Connection (back)		
	VGA Connection (back)		
	PC/YPbPr Audio Connection (side)	 YPbPr/PC Audio Cable	
	HDMI Connection (back)		
	SPDIF (Coaxial Out) Connection (back)		
	Side AV (Audio/Video) Connection (side)	 AV Cable	
	Headphone Connection (side)		
	YPbPr Video Connection (back)	 PC to YPbPr Connection Cable	
	USB Connection (side)		
	CI Connection (side)		

NOTE: When connecting a device via the YPbPr or Side AV input, you must use the connection cables to enable connection. See the illustrations on the left side. | You can use YPbPr to VGA cable to enable YPbPr signal via VGA input. | You cannot use VGA and YPbPr at the same time. | To enable PC/YPbPr audio, you will need to use the side audio inputs with a YPbPr/PC audio cable for audio connection. | If an external device is connected via the SCART socket, the TV will automatically switch to AV mode. | When receiving DTV channels (Mpeg4 H.264) or while in Media Browser mode, output will not be available via the scart socket. | When using the wall mounting kit (available from third party in the market, if not supplied), we recommend that you plug all your cables into the back of the TV before mounting on the wall. | Insert or remove the CI module only when the TV is SWITCHED OFF. You should refer to the module instruction manual for details of the settings. | The/Each USB input of your TV supports devices up to 500mA. Connecting devices that have current value above 500mA may damage your TV. | By connecting an HDMI cable to your TV, you have to use only a shielded HDMI cable to guarantee a sufficient immunity against parasitic frequency radiation.



if you want to connect a device to the TV, make sure that both the TV and the device are turned off before making any connection. After the connection is done, you can turn on the units and use them.

Switching On/Off

To Switch the TV On

Connect the power cord to a power source such as a wall socket (110-240V AC, 50/60 Hz).

To switch on the TV from standby mode either

- Press the **Standby** button, **Programme +/-** or a numeric button on the remote control.
- Press the side function switch on the TV until the TV comes on from standby.

To Switch the TV Off

Press the **Standby** button on the remote control or press the side function switch on the TV until the TV switches into standby mode.

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

Note: When the TV is switched into standby mode, the standby LED can blink to indicate that features such as Standby Search, Over Air Download or Timer is active. The LED can also blink when you switch on the TV from standby mode.

First Time Installation

Note: If you are going to perform FRANSAT installation, insert the FRANSAT card (optional) into the Conditional Access terminal of your TV before switching on your TV.

When turned on for the first time, the language selection screen is displayed. Select the desired language and press **OK**.

On the next screen, set your preferences using the directional buttons.

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.

About Selecting Broadcast Type

Digital Aerial: 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: 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. Select **YES** and press **OK** to proceed. To cancel operation, select **NO** and press **OK**. You can select **Network** or set values such as **Frequency**, **Network ID** and **Search Step**. When finished, press **OK** button.

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

Satellite: 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. Before the satellite search starts, a menu will be displayed where you can select to start a **Fransat** installation. Set the **Install Type** as **Operator** and then set the **Satellite Operator** as the related Fransat operator. Then press the **OK** button to start **Fransat** installation. You can select to start an automatic or manual installation.

Press **OK** to proceed. Fransat installation will be performed and broadcasts will be stored (if available).

If you set the **Install Type** as **Standard**, you can continue with regular satellite installation and watch satellite channels.

You can start a Fransat installation at any time later from the **Installation>Automatic channel scan>Satellite** menu.

There are three types of antenna selection. **Antenna Type** menu will be displayed first. You can select **Antenna Type** as **Direct**, **Single Satellite Cable** or **DiSEqC switch** by using **Left** or **Right** 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. Press **OK** to continue. You can set four **DiSEqC** options (if available) on the next screen. Press **OK** button to scan the first satellite in the list.

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

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.

A dialogue screen asking to activate parental control will be displayed. If you select **Yes**, parental restriction options will be displayed. Configure as desired and press **OK** when finished. Select **No** and press **OK** to advance, if you don't want to activate parental restrictions.

You can activate **Store Mode** option at this point. This option will configure your TV's settings for store environment and depending on the TV model being used, the supported features of it may be displayed on the top of the screen as an info banner. This option is intended only for store use. It is recommended to select **Home Mode** for home use. This option will be

available in **System>Settings>More** menu and can be turned off/on later.

Press **OK** button on the remote control to continue and the **Network/Internet Settings** menu will be displayed, if you confirm the previously displayed message asking whether you want to do the network settings. Please refer to **Connectivity** section to configure a wired or a wireless connection. After the settings are completed press **OK** button to continue. To skip to the next step without doing anything select **No** and press the **OK** button when the message is displayed asking whether you want to do the network settings.

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

After all the available stations are stored, scan results will be displayed. Press **OK** to continue. The **Edit Channel List** menu will be displayed next. You can edit the channel list according to your preferences or press the **Menu** button to quit and watch TV.

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).*

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.

Using SatcoDX Feature

You can perform SatcoD operations using the **Installation>Satellite Settings** menu. In the **SatcoDX** menu, there are two options regarding to the SatcoDx. You can download or upload SatcoD data. In order to perform these functions a USB device must be connected to the TV.

You can upload current services and related satellites transponders in TV, to a USB device.

Additionally you can download one of the SatcoDx files stored in USB device, to the TV.

When you select one of these files, all services and related satellites and transponders in the selected file will be stored in the TV. If there are any installed terrestrial, cable and/or analog services, they will be kept and only satellite services will be removed.

Afterwards, check your antenna settings and make changes if necessary. An error message stating **No Signal** may be displayed if the antenna settings are not configured properly.

Media Playback via USB Input

You can connect 2.5" and 3.5" inch (hdd with external power supply) external hard disk drives or USB memory stick to your TV by using the USB inputs of the TV.

IMPORTANT! Back up the files on your storage devices before connecting them to the TV. Manufacturer will not be responsible for any file damage or data loss. Certain types of USB devices (e.g. MP3 Players) or USB hard disk drives/memory sticks may not be compatible with this TV. The TV supports FAT32 and NTFS disk formatting but recording will not be available with NTFS formatted disks.

While formatting USB hard drives which have more than 1TB (Tera Byte) storage space you may experience some problems in the formatting process.

Wait a little while before each plugging and unplugging as the player may still be reading files. Failure to do so may cause physical damage to the USB player and the USB device itself. Do not pull out your drive while playing a file.

You can use USB hubs with your TV's USB inputs. External power supplied USB hubs are recommended in such a case.

It is recommended to use the TV's USB input(s) directly, if you are going to connect a USB hard disk.

Note: When viewing image files the **Media Browser** menu can only display 1000 image files stored on the connected USB device.

Recording a Programme

IMPORTANT: When using a new USB hard disk drive, it is recommended that you first format the disk using your TV's **Format Disk** option in the **Media Browser>Settings>Recording Settings** menu.

To record a programme, you should first connect a USB disk to your TV while the TV is switched off. You should then switch on the TV to enable the recording feature.

To use recording your USB drive should have 2 GB free space and be USB 2.0 compatible. If the USB drive is not compatible an error message will be displayed.

To record long duration programmes such as movies, it is recommended to use USB Hard disk drives (HDD's).

Recorded programmes are saved into the connected USB disk. If desired, you can store/copy recordings onto a computer however, these files will not be available to be played on a computer. You can play the recordings only via your TV.

Lip Sync delay may occur during the timeshifting. Radio record is supported. The TV can record programmes up to ten hours.

Recorded programmes are split into 4GB partitions. If the writing speed of the connected USB disk is not sufficient, the recording may fail and the timeshifting feature may not be available.

It is recommended to use USB hard disk drives for recording HD programmes.

Do not pull out the USB/HDD during a recording. This may harm the connected USB/HDD.

If the AC cord is unplugged while there is an active USB-recording timer setting, it will be cancelled.

Multipartition support is available. A maximum of two different partitions are supported. The first partition of the USB disk is used for PVR ready features. It also must be formatted as the primary partition to be used for the PVR ready features.

Some stream packets may not be recorded because of signal problems, as a result sometimes videos may freeze during playback.

Record, Play, Pause, Display (for PlayListDialog) keys can not be used when teletext is on. If a recording starts from timer when teletext is on, teletext is automatically turned off. Also teletext usage is disabled when there is an ongoing recording or playback.

Timeshift Recording

Press **Pause** button while watching a broadcast to activate timeshifting mode. In timeshifting mode, the programme is paused and simultaneously recorded to the connected USB disk.

Press **Play** button again to resume the paused programme from where you stopped. Press the **Stop** button to stop timeshift recording and return to the live broadcast.

Timeshift cannot be used while in radio mode.

You cannot use the timeshift fast reverse feature before advancing the playback with the fast forward option.

Instant Recording

Press **Record** button to start recording an event instantly while watching a programme. You can press **Record** button on the remote control again to record the next event after selecting the next programme from within the EPG. Press **Stop** button to cancel instant recording.

You can not switch broadcasts or view the media browser during the recording mode. While recording a programme or during the timeshifting, a warning message appears on the screen if your USB device speed is not sufficient.

Watching Recorded Programmes

Select **Recordings** from the **Media Browser** menu. Select a recorded item from the list (if previously recorded). Press the **OK** button to view the **Play Options**. Select an option then press **OK** button.

Note: Viewing main menu and menu items will not be available during the playback.

Press the **Stop** button to stop a playback and return to the **Recordings**.

Slow Forward

If you press **Pause** button while watching recorded programmes, the slow forward feature will be available. You can use **Rapid advance** button to slow forward. Pressing **Rapid advance** button consecutively will change slow forwarding speed.

Recording Configuration

Select the **Recording Settings** item in the **Media Browser>Settings** menu to configure the recording settings.

Format Disk: You can use the **Format Disk** feature for formatting the connected USB disk. Your PIN is required to use the **Format Disk** feature.

Note: Default PIN can 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.

IMPORTANT: Formatting your USB drive will erase ALL the data on it and it's file system will be converted to FAT32. In most cases operation errors will be fixed after a format but you will lose ALL your data.

If "**USB disk writing speed too slow to record**" message is displayed on the screen while starting a recording, try restarting the recording. If you still get the same error, it is possible that your USB disk does not meet the speed requirements. Try connecting another USB disk.

Media Browser Menu

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 side of the TV. Pressing the **Menu** button while in the **Media Browser** mode 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.

Loop/Shuffle Mode Operation

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.

FollowMe TV (if available)

With your mobile device you can stream the current broadcast from your smart TV using the **FollowMe TV** feature. Install the appropriate Smart Center application to your mobile device. Start the application. For further information on using this feature refer to the instructions of the application you use.

Note: This application may not be compatible with all mobile devices. HD channels are not supported and both of the devices must be connected to the same network.

CEC and CEC RC Passthrough

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 **System>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 **Quick Menu** button on the remote, highlight the **CEC RC Passthrough** and set as **Off** by pressing Left or Right button. This feature can also be enabled or disabled under the **System>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 HDMI1 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 **System>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**.

E-Manual

You can find instructions for your TV's features in the E-Manual.

To use E-Manual, press to the **Info** button while main menu is displayed on the screen or press **Quick Menu** button, select **Information Booklet** and press **OK**.

By using the directional buttons select a desired category. Every category includes different topics. Select a topic and press **OK** to read instructions.

To close the E-Manual screen press the **Exit** or **Menu** button.

Note: The contents of the E-Manual may vary according to the model.

TV Menu Contents

System - Picture Menu Contents	
Mode	You can change the picture mode to suit your preference or requirements. Picture mode can be set to one of these options Cinema , Game (optional), Sports , Dynamic and Natural .
Contrast	Adjusts the light and dark values on the screen.
Brightness	Adjusts the brightness values on the screen.
Sharpness	Sets the sharpness value for the objects displayed on the screen.
Colour	Sets the colour value, adjusting the colours.
Energy Saving	For setting the Energy Saving to Custom , Minimum , Medium , Maximum , Auto , Screen Off or Off . <i>Note: Available options may differ depending on the selected Mode.</i>
Backlight	This setting controls the backlight level. The backlight function will be inactive if the Energy Saving is set to an option other than Custom .
Advanced Settings	
Dynamic Contrast	You can change the dynamic contrast ratio to desired value.
Noise Reduction	If the signal is weak and the picture is noisy, use the Noise Reduction setting to reduce the amount of noise.
Colour Temp	Sets the desired colour temperature value. Cool , Normal , Warm and Custom options are available.
White Point	If the Colour Temp option is set as Custom , this setting will be available. Increase the warmth' or coolness' of the picture by pressing Left or Right buttons.
Picture Zoom	Sets the desired image size format.
Film Mode	Films are recorded at a different number of frames per second to normal television programmes. Turn this feature on when you are watching films to see the fast motion scenes clearly.
Skin Tone	Skin tone can be changed between -5 and 5.
Colour Shift	Adjust the desired colour tone.
HDMI Full Range	While watching from a DMI source, this feature will be visible. You can use this feature to enhance blackness in the picture.
PC Position	
Autoposition	Automatically optimizes the display. Press to optimize.
H Position	This item shifts the image horizontally to the right hand side or left hand side of the screen.
V Position	This item shifts the image vertically towards the top or bottom of the screen.
Dot Clock	Dot Clock adjustments correct the interference that appear as vertical banding in dot intensive presentations like spreadsheets or paragraphs or text in smaller fonts.
Phase	Depending on the input source(computer etc.) you may see a hazy or noisy picture on the screen. You can use phase to get a clearer picture by trial and error.
Reset	Resets the picture settings to factory default settings (except Game mode).
<i>While in VGA (PC) mode, some items in Picture menu will be unavailable. Instead, VGA mode settings will be added to the Picture Settings while in PC mode.</i>	

System - Sound Menu Contents	
Volume	Adjusts the volume level.
Equalizer	Selects the equalizer mode. Custom settings can be made only when in User mode.
Balance	Adjusts whether the sound comes from the left or right speaker.
Headphone	Sets headphone volume. Please ensure before using headphones that the headphone volume is set to a low level, to prevent damage to your hearing.
Sound Mode	You can select a sound mode (If the viewed channel supports).
AVL (Automatic Volume Limiting)	Sets the sound to obtain fixed output level between programmes.
Headphone/Lineout	When you connect an external amplifier to your TV using the headphone jack, you can select this option as Lineout . If you have connected headphones to the TV, set this option as Headphone . Please ensure before using headphones that this menu item is set to Headphone . If it is set to Lineout , the output from the headphone socket will be set to maximum which could damage your hearing.
Dynamic Bass	Enables or disables the Dynamic Bass.
Surround sound	Surround sound mode can be changed as On or Off .
Digital Out	Sets digital out audio type.
System - Settings Menu Contents	
Conditional Access	Controls conditional access modules when available.
Language	You may set a different language depending on the broadcaster and the country.
Parental	Enter correct password to change parental settings. You can easily adjust Menu Lock , Maturity Lock , Child Lock or Guidance in this menu. You can also set a new PIN or change the Default CICAM PIN using the related options. <i>Note: Some menu options may not be available depending on the country selection in the First Time Installation. Default PIN can be set to 0000 or 1234. If you have defined the PIN (as requested depending on the country selection) during the First Time Installation use the PIN that you have defined.</i>
Timers	Sets sleep timer to turn off the TV after a certain time. Sets timers for selected programmes.
Date/Time	Sets date and time.
Sources	Enables or disables selected source options.
Network/Internet Settings	Displays network/internet settings.
Accessibility	Displays accessibility options of the TV.
Hard of Hearing	Enables any special feature sent from the broadcaster.
Audio Description	A narration track will be played for the blind or visually impaired audience. Press OK to see all available Audio Description menu options. This feature is available only if the broadcaster supports it. <i>Note: Audio description sound feature is not available in recording or time shifting mode.</i>
Netflix	You can view your ESN() number and deactivate it. <i>(*) ESN number is a unique ID number for Netflix, created especially to identify your TV.</i>
More	Displays other setting options of the TV.

Menu Timeout	Changes timeout duration for menu screens.
HBBTV	You can enable or disable this feature by setting it as On or Off .
Software Upgrade	Ensures that your TV has the latest firmware. Press OK to see the menu options.
Application Version	Displays current software version.
Subtitle Mode	This option is used to select which subtitle mode will be on the screen (DVB subtitle Teletext subtitle) if both is available. Default value is DVB subtitle. This feature is available only for the country option of Norway.
Auto TV OFF	Sets the desired time for the TV to automatically go into standby mode when not being operated.
Biss Key	Biss is a satellite signal scrambling system that is used for some broadcasts. If you need to enter Biss key on a broadcast, you can use this setting. ighlight Biss Key and press OK to enter keys on the desired broadcast.
Store Mode	Select this mode for store display purposes. Whilst Store Mode is enabled, some items in the TV menu may not be available.
Audio Video Sharing	Audio Video Sharing feature allows you to share files stored on your smartphone or tablet pc. If you have a compatible smartphone or tablet pc and the appropriate software is installed, you can shareplay photos on your TV. See instructions of your sharing software for more information. Audio Video Sharing mode will not be available with internet portal feature.
Power Up Mode	This setting configures the power up mode preference. Last State and Standby options are available.
Virtual Remote	Enable or disable the virtual remote feature.
CEC	With this setting you can enable and disable CEC functionality completely. Press Left or Right button to enable or disable the feature.
CEC Auto Power On	This function allows the connected DMI-CEC compatible device to turn on the TV and switch to its input source automatically. Press Left or Right button to enable or disable the feature.
Speakers	To hear the TV audio from the connected compatible audio device set as Amplifier . You can use the remote control of the TV to control the volume of the audio device.
OSS	Displays pen Source Software license information.

Installation Menu Contents	
Automatic channel scan (Retune)	Displays automatic tuning options. Digital Aerial : Searches and stores aerial DVB stations. Digital Cable : Searches and stores cable DVB stations. Analogue : Searches and stores analogue stations. Satellite : Searches and stores satellite stations.
Manual channel scan	This feature can be used for direct broadcast entry.
Network channel scan	Searches for the linked channels in the broadcast system. Digital Aerial : Searches for aerial network channels. Digital Cable : Searches for cable network channels.
Analogue fine tune	You can use this setting for fine tuning analogue channels. This feature is not available if no analogue channels are stored.
Satellite Settings	Displays satellite settings. Satellite list : Displays available satellites. You can Add , Delete satellites or Edit satellite settings on the list. Antenna installation : You can change satellite anntenna settings andor start a satellite scan. SatcoDX : You can upload or download SatcoD data using the related options.
Installation Settings (Optional)	Displays installation settings menu. Standby Search : Your TV will search for new or missing channels while in standby. Any new found broadcasts will be shown.
Clear Service List	Use this setting to clear channels stored. This setting is visible only when the Country option is set to Denmark, Sweden, Norway or Finland.

Select Active Network	This setting allows you to select only the broadcasts within the selected network to be listed in the channel list. This feature is available only for the country option of Norway.
First time installation	Deletes all stored channels and settings, resets TV to factory settings.
Fransat Options	Displays Fransat options.
Parental Control	Displays parental control options. Enter the PIN number you have defined in the initial installation to view current settings.
System Information	Displays system information.
Reception Information	Displays current satellite reception information.
CAS-Module	Displays current CAS module information.
Upgrade	Displays software upgrade options.

General TV Operation

Using the Channel List

The TV sorts all stored stations in the **Channel List**. You can edit this channel list, set favourites or set active stations to be listed by using the **Channel List** options. Press the **OK/TV** button to open the **Channel List**. You can filter the listed channels by pressing the **Blue** button or open the **Edit Channel List** menu by pressing the **Green** button in order to make advanced changes in the current list.

Managing the Favourite Lists

You can create four different lists of your favourite channels. Enter the **Channel List** in the main menu or press the **Green** button while the **Channel List** is displayed on the screen in order to open the **Edit Channel List** menu. Select the desired channel on the list. You can make multiple choices by pressing the **Yellow** button. Then press the **OK** button to open the **Channel Edit Options** menu and select **Add/Remove Favourites** option. Press the **OK** button again. Set the desired list option to **On**. The selected channel/s will be added to the list. In order to remove a channel or channels from a favourite list follow the same steps and set the desired list option to **Off**.

You can use the **Filter** function in the **Edit Channel List** menu to filter the channels in the **Channel list** permanently according to your preferences. Using this **Filter** option, you can set one of your four favourite lists to be displayed everytime the **Channel list** is opened. The filtering function in the **Channel list** menu will only filter the currently displayed **Channel list** in order to find a channel and tune in to it. These changes will not remain the next time the **Channel list** is opened if you don't save them. To save the changes on the list press the **Red** button after filtering while the **Channel list** is displayed on the screen.

Configuring Parental Settings

The **Parental Settings** menu options can be used to prohibit users from viewing of certain programmes, channels and using of menus. These settings are located in the **System>Settings>Parental** menu.

To display parental lock menu options, a PIN number should be entered. After coding the correct PIN number, **Parental Settings** menu will be displayed.

Menu Lock: This setting enables or disables access to all menus or installation menus of the TV.

Maturity Lock: 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.

*Note: If the country option in the **First Time Installation** is set as France, Italy or Austria, **Maturity Lock's** value will be set to 18 as default.*

Child Lock: If this option is set to **ON**, the TV can only be controlled by the remote control. In this case the control buttons on the TV will not work.

Internet Lock: If this option is set to **ON**, the open browser application in the portal will be disabled. Set to **OFF** to release the application again.

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.

*Note: Default PIN can 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 model and/or on the country selection in the **First Time Installation**.*

Electronic Programme Guide (EPG)

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

Select Genre (Subtitles button): Displays **Select Genre** menu. Using this feature, you can search the programme guide database in accordance with the genre. Info available in the programme 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 (Programme +/- 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.

Rec./Stop (Record button): The TV will start to record the selected event. You can press again to stop the recording.

IMPORTANT: Connect a USB disk to your TV while the TV is switched off. You should then switch on the TV to enable the recording feature.

Note: Switching to a different broadcast or source is not available during a recording.

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 (Programme +/- 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.

Rec./Stop (Record button): The TV will start to record the selected event. You can press again to stop the recording.

IMPORTANT: Connect a USB disk to your TV while the TV is switched off. You should then switch on the TV to enable the recording feature.

Note: Switching to a different broadcast or source is not available during a recording.

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.

Rec./Stop (Record button): The TV will start to record the selected events. You can press again to stop the recording.

IMPORTANT: Connect a USB disk to your TV while the TV is switched off. You should then switch on the TV to enable the recording feature.

Note: Switching to a different broadcast or source is not available during a recording.

Event Options

Use the directional buttons to highlight an event and press **OK** button to display **Event Options** menu. The following options are available.

Select Channel: Using this option, you can switch to the selected channel.

Record / Delete Rec. Timer: Select the **Record** option and press the **OK** button. If the event is going to be broadcasted at a future time, it will be added to **Timers** list to be recorded. If the selected event is being broadcasted at the moment, recording will start immediately.

To cancel an already set recording, highlight that event and press the **OK** button and select the option **Delete Rec. Timer**. The recording will be cancelled.

Set Timer on Event / Delete Timer on Event: After you have selected an event in the EPG menu, press the **OK** button. Select **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.

Notes: You cannot switch to any other channel or source while there is an active recording or timer on the current channel.

It is not possible to set timer or record timer for two or more individual events at the same time interval.

Teletext Services

Press the **Text** button to enter. 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 in the teletext pages will become colour-coded and can be selected by pressing the coloured buttons. Follow the instructions displayed on the screen.

Digital Teletext

Press the **Text** button to view digital teletext information. Operate it with the coloured buttons, cursor buttons and the **OK** button. The operation method may differ depending on the contents of the digital teletext. Follow the instructions displayed on the digital teletext screen. When the **Text** button is pressed again, the TV returns to television broadcast.

Software Upgrade

Your TV is capable of finding and updating the firmware automatically via the broadcast signal or via Internet.

Software upgrade search via user interface

In the main menu select **System>Settings** and then **More**. Navigate to **Software upgrade** and press the **OK** button. In **Upgrade options** menu select **Scan for upgrade** and press **OK** button to check for a new software upgrade.

If a new upgrade is found, it starts to download the upgrade. After the download is completed confirm the question asking about rebooting the TV by pressing the **OK** to continue with the reboot operation.

3 AM search and upgrade mode

Your TV will search for new upgrades at 00 o'clock if **Automatic scanning** option in the **Upgrade options** menu is set to **Enabled** and if the TV is connected to an aerial signal or to Internet. If a new software is found and downloaded successfully, it will be installed at the next power on.

***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, wait for two minutes then plug it back in.*

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.

Recording unavailable

To record a programme, you should first connect a USB disk to your TV while the TV is switched off. You should then switch on the TV to enable recording feature. If you cannot record, try switching off the TV and then re-inserting the USB device.

USB is too slow

If a **USB disk writing speed too slow to record** message is displayed on the screen while starting a recording, try restarting the recording. If you still get the same error, it is possible that your USB disk does not meet the speed requirements. Try connecting another USB disk.

PC Input Typical Display Modes

The following table is an illustration of some of the typical video display modes. Your TV may not support all resolutions.

Index	Resolution	Frequency
1	x3	
2	x	
3	x	
4	x	
5	x	
6	x	
7	x	
8	x	
9	x	
10	x	
11	x	
12	x	
13	x	
14	3x	
15	1x	
16	1x	
17	1x	
18	1x	
19	1x	
20	1x	
21	11x	
22	11x	
23	11x	
24	11x	
25	11x	
26	1x	
27	13x	
28	1x	
29	1x	
30	1x9	
31	1x9	
32	1x9	
33	1x1	
34	1x1	
35	1x1	
36	1x1	
37	1x1	
38	1x1	
39	1x9	
40	1x9	
41	1x1	
42	1x1	
43	19x1	
44	19x1	

AV and HDMI Signal Compatibility

Source	Supported Signals	Available
EXT (SCART)	PAO	
	SEAM	O
	TS.3	O
	TS3.O	
Side AV	G O	
	PAO	
	SEAM	O
	TS.3	O
YPbPr	TS3.O	
	i, p O	
	i, p O	
	p ,O	
HDMI	1i ,O	
	i, p O	
	i, p O	
	p ,O	
	1i ,O	
	1p , , 3, ,	O

(X: Not Available, O: Available)

In some cases a signal on the TV may not be displayed properly. The problem may be an inconsistency with standards from the source equipment DVD, Set-top box, etc. . If you do experience such a problem please contact your dealer and also the manufacturer of the source equipment.

Supported Video File Formats for USB Mode		
Extension	Video Codec	SPEC (Resolution) & Bit Rate
.dat, vob	MPE/	00P0fps - 0 Mbps
.mpg, .mpeg	MPE/, MPE	
.ts, .trp, .tp	MPE/, AVS, MVC	H.264: 00Px0fps - . Mbps, 00P0fps - . Mbps 00P0fps - . Mbps Other: 00P0fps - 0Mbps MVC:
.mp, .mov, .gpp, .gp	MPE/, MPE, ., . Motion PE	H.264: 00Px0fps - . Mbps, 00P0fps - . Mbps 0x00fps - 0 Mbps Other: 00P0fps - 0 Mbps Motion JPEG:
.avi	MPE/, MPE, Sorenson ., .., MV, Motion PE	
.mkv	MPE/, MPE, ., . MV, Motion PE	
.asf	Sorenson ., . MV, Motion PE	
.flv	MV00P0fps - 0 Mbps	
.swf	V0/V0	00P0fps - 0 Mbps
.wmv	., MV, VC	H.264: 00Px0fps - . Mbps, 00P0fps - . Mbps 00P0fps - 0 Mbps Other:
.mp, .mov, .gpp, .gp, MPE transport stream, .ts, .trp, .tp, .mkv	EVC/.00P0fps - 0Mbps	

Supported Picture File Formats for USB Mode			
Image	Photo	Resolution (width x height)	Remark
PE	ase-line	0x0	The limitation of max resolution depends on DAM sie
	Progressive	0x	
PN	non-interlace	900x00	
	interlace	00x00	
MP		900x00	

Supported Audio File Formats for USB Mode

Extension	Audio Codec	Bit Rate	Sample rate
.mp3,	MPEG1/2 Layer1	32Kbps ~ 448Kbps	16KHz ~ 48KHz
	MPEG1/2 Layer2	8Kbps ~ 384Kbps	
	MPEG1/2 Layer3	8Kbps ~ 320Kbps	
.avi	MPEG1/2 Layer1	32Kbps ~ 448Kbps	16KHz ~ 48KHz
	MPEG1/2 Layer2	8Kbps ~ 384Kbps	
	MPEG1/2 Layer3	8Kbps ~ 320Kbps	
	AC3	32Kbps ~ 640Kbps	32KHz, 44.1KHz, 48KHz
	AAC, HEAAC		8KHz ~ 48KHz
	WMA	128bps ~ 320Kbps	8KHz ~ 48KHz
	WMA 10 Pro M0	< 192kbps	48KHz
	WMA 10 Pro M1	< 384kbps	48KHz
	WMA 10 Pro M2	< 768kbps	96KHz
	LPCM	64Kbps ~ 1.5Mbps	8KHz ~ 48KHz
	IMA-ADPCM, MS-ADPCM	384Kbps	8KHz ~ 48KHz
.asf	G711 A/mu-law	64Kbps ~ 128Kbps	8KHz
	MPEG1/2 Layer1	32Kbps ~ 448Kbps	16KHz ~ 48KHz
	MPEG1/2 Layer2	8Kbps ~ 384Kbps	
	MPEG1/2 Layer3	8Kbps ~ 320Kbps	
	WMA	128bps ~ 320Kbps	8KHz ~ 48KHz
	WMA 10 Pro M0	< 192kbps	48KHz
	WMA 10 Pro M1	< 384kbps	48KHz
.mkv, .mka	WMA 10 Pro M2	< 768kbps	96KHz
	MPEG1/2 Layer1	32Kbps ~ 448Kbps	16KHz ~ 48KHz
	MPEG1/2 Layer2	8Kbps ~ 384Kbps	
	MPEG1/2 Layer3	8Kbps ~ 320Kbps	
	AC3	32Kbps ~ 640Kbps	32KHz, 44.1KHz, 48KHz
	AAC, HEAAC		8KHz ~ 48KHz
	WMA	128bps ~ 320Kbps	8KHz ~ 48KHz
	WMA 10 Pro M0	< 192kbps	48KHz
	WMA 10 Pro M1	< 384kbps	48KHz
	WMA 10 Pro M2	< 768kbps	96KHz
	VORBIS		Up to 48KHz
	LPCM	64Kbps ~ 1.5Mbps	8KHz ~ 48KHz
	IMA-ADPCM, MS-ADPCM	384Kbps	8KHz ~ 48KHz
	G711 A/mu-law	64Kbps ~ 128Kbps	8KHz
	FLAC	< 1.6Mbps	8KHz ~ 96KHz
.ts, .trp, .tp, .dat, .vob, .mpg, .mpeg	MPEG1/2 Layer1	32Kbps ~ 448Kbps	16KHz ~ 48KHz
	MPEG1/2 Layer2	8Kbps ~ 384Kbps	
	MPEG1/2 Layer3	8Kbps ~ 320Kbps	
	AC3	32Kbps ~ 640Kbps	32KHz, 44.1KHz, 48KHz
	EAC3	32Kbps ~ 6Mbps	32KHz, 44.1KHz, 48KHz
	AAC, HEAAC		8KHz ~ 48KHz
	LPCM	64Kbps ~ 1.5Mbps	8KHz ~ 48KHz

Extension	Audio Codec	Bit Rate	Sample rate
.wav	MPEG1/2 Layer1	32Kbps ~ 448Kbps	16KHz ~ 48KHz
	MPEG1/2 Layer2	8Kbps ~ 384Kbps	
	MPEG1/2 Layer3	8Kbps ~ 320Kbps	
	LPCM	64Kbps ~ 1.5Mbps	8KHz ~ 48KHz
	IMA-ADPCM, MS-ADPCM	384Kbps	8KHz ~ 48KHz
	G711 A/mu-law	64Kbps ~ 128Kbps	8KHz
.3gpp, .3gp, .mp4, .mov, .m4a	MPEG1/2 Layer3	8Kbps ~ 320Kbps	16KHz ~ 48KHz
	AC3	32Kbps ~ 640Kbps	32KHz, 44.1KHz, 48KHz
	EAC3	32Kbps ~ 6Mbps	32KHz, 44.1KHz, 48KHz
	AAC, HEAAC		8KHz ~ 48KHz
	VORBIS		Up to 48KHz
	LPCM	64Kbps ~ 1.5Mbps	8KHz ~ 48KHz
	IMA-ADPCM, MS-ADPCM	384Kbps	8KHz ~ 48KHz
	G711 A/mu-law	64Kbps ~ 128Kbps	8KHz
.flv	MPEG1/2 Layer3	8Kbps ~ 320Kbps	16KHz ~ 48KHz
	AAC, HEAAC		8KHz ~ 48KHz
.ac3	AC3	32Kbps ~ 640Kbps	32KHz, 44.1KHz, 48KHz
	AAC, HEAAC		8KHz ~ 48KHz
.swf	MPEG1/2 Layer3	8Kbps ~ 320Kbps	16KHz ~ 48KHz
.ec3	EAC3	32Kbps ~ 6Mbps	32KHz, 44.1KHz, 48KHz
.rm, .rmvb, .ra	AAC, HEAAC		8KHz ~ 48KHz
	LBR (cook)	6Kbps ~ 128Kbps	8KHz, 11.025KHz, 22.05KHz, 44.1KHz
.wma, .wmv	WMA	128bps ~ 320Kbps	8KHz ~ 48KHz
	WMA 10 Pro M0	< 192kbps	48KHz
	WMA 10 Pro M1	< 384kbps	48KHz
	WMA 10 Pro M2	< 768kbps	96KHz
.webm	VORBIS		Up to 48KHz

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

Supported DVI Resolutions

We offer devices to your Vs others by using DVI over the ableDVI to HDMI cable - of supplied, you can refer to the following resolution information.

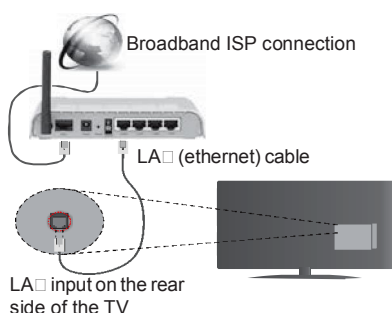
	56Hz	60Hz	66Hz	70Hz	72Hz	75Hz
640x400				☑		
640x480		☑	☑		☑	☑
800x600	☑	☑		☑	☑	☑
832x624						☑
1024x768		☑	☑	☑	☑	☑
1152x864		☑		☑		☑
1152x870						☑
1280x768		☑				☑
1360x768		☑				
1280x960		☑				☑
1280x1024		☑				☑
1400x1050		☑				☑
1440x900		☑				☑
1600x1200		☑				
1680x1050		☑				
1920x1080		☑				

Connectivity

Wired Connectivity

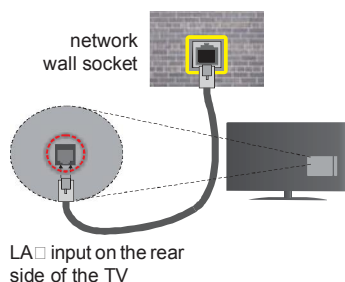
To Connect to a Wired Network

- You must have a modem/router connected to an active broadband connection.
- Connect your PC to your modem/router. This can be a wired or wireless connection.
- Connect your TV to your modem/router via an ethernet cable. There is a LAN port at the rear (back) of your TV.



To configure wired settings please refer to the **Network/Internet Settings** section in the **System>Settings Menu**.

- You might be able to connect your TV to your LAN depending on your network's configuration. In such a case, use an ethernet cable to connect your TV directly to the network wall outlet.



Configuring Wired Device Settings

Network Type

The **Network Type** can be selected as **Wired Device**, **Wireless Device** or **Disabled**, in accordance with the active connection to the TV set. Select this as **Wired Device** if you are connecting via an ethernet.

Internet Speed Test

Highlight **Internet Speed Test** and press the **OK** button. TV will check the internet connection bandwidth and display the result when complete.

Advanced Settings

Highlight **Advanced Settings** and press the **OK** button. On the next screen you can change the IP and DNS settings of the TV. Highlight the desired one and press **Left** or **Right** button to change the setting from **Automatic** to **Manual**. Now you can enter the **Manual IP** and / or **Manual DNS** values. Select the related item in the drop down menu and enter the new values using the numeric buttons of the remote. Press the **OK** button to save settings when complete.

Wireless Connectivity

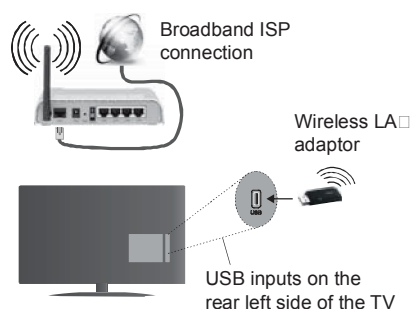
To Connect to a Wireless Network

IMPORTANT: A Veezy 200 USB dongle is required to use wireless network features.

The TV cannot connect to the networks with a hidden SSID. To make your modem's SSID visible, you should change your SSID settings via the modem's software.

To Connect to a wireless LAN, you should perform the following steps:

1. Then connect the wireless adaptor to one of the USB inputs of the TV.
2. To configure your wireless settings please refer to the **Network/Internet Settings** section in the **System>Settings Menu**.



A Wireless-N router (IEEE 802.11a/b/g/n) with simultaneous 2.4 and 5 GHz bands is designed to increase bandwidth. These are optimized for smoother and faster HD video streaming, file transfers and wireless gaming.

- The frequency and channel differ depending on the area.
- The transmission speed differs depending on the distance and number of obstructions between the transmission products, the configuration of these products, the radio wave conditions, the line traffic and the products that you use. The transmission may also be cut off or may get disconnected depending on the radio wave conditions, DECT phones or any other WiFi 11b appliances. The standard values of the transmission speed are the theoretical maximum

values for the wireless standards. They are not the actual speeds of data transmission.

- The latency of the transmission is most effective if it differs depending on the usage environment.
- The Wireless LAN adaptor should be connected directly to the V's USB port. USB hubs are not supported. Once you plug your wireless dongle into the supplied dock, if the network quality is poor and the wireless dongle tends to be placed to a location with better signal quality.
- The Wireless LAN adaptor supports 802.11 a,b,g type modems. It is highly recommended that you should use the IEEE 802.11 communication protocol in order to avoid any possible problems while watching videos.
- Use the other USB input, if you experience problems with audio/video performance.
- You must assign your modems SSID when there are any other modems around with the same SSID. Once you assign other problems otherwise. Use a wired connection if you experience problems with a wireless connection.

Configuring Wireless Device Settings

Once enable Wi-Fi features, plug in the Wi-Fi dongle to one of the USB ports. Open the **Network/Internet Settings** menu and select **Network Type** as **Wireless Device** to start connection process.

The V will save the wireless networks automatically. A list of available networks will be displayed. Please select your desired network from the list.

Note: If the modem supports N mode, you should set N mode settings.

If the selected network is protected with a password, please enter the correct key by using the virtual keyboard. Once you use this keyboard via the directional buttons and the **OK** button on the remote control.

Wait until the IP address is shown on the screen.

It is measured that the connection is now established. Once disconnected from a wireless network, highlight **Network Type** and press Left or Right buttons to set as **Disabled**.

Highlight **Internet Speed Test** and press the **OK** button to check your internet connection speed. Highlight **Advanced Settings** and press the **OK** button to open the advanced settings menu. Use directional and numeric buttons to set. Press the **OK** button to save settings when complete.

Other Information

The status of the connection will be displayed as **Connected** or **Not Connected** and the current IP address, if a connection is established.

Connecting to your mobile device via WiFi

- If your mobile device has a WiFi feature, you can connect it to your V via a router, in order to access the internet

in your device. For this, your mobile device must have appropriate sharing software.

- Connect to your router following the steps stated above in the **Wireless Connectivity** section.
- Afterwards, engage your mobile device with the router and activate the sharing software on your mobile device. Then, select files that you want to share with your V.
- If the connection is established correctly, you will be able to access the shared files from your mobile device via the **Media Browser** of your V.
- Enter the **Media Browser** menu and the playback device selection OSD will be displayed. Select your mobile device and press the **OK** button to continue.
- If available, you can download a virtual remote controller application from the server of your mobile device application provider.

 **Note:** This feature may not be supported on all mobile devices.

Connectivity Troubleshooting

Wireless Network Not Available

- Ensure that any firewalls of your network allow the V wireless connection.
- Ensure the Veezy 200 USB WiFi dongle is plugged in fully.
- Try searching for wireless networks again, using the **Network/Internet Settings** menu screen.

If the wireless network does not function properly, try using the wired network in your home. Refer to the **Wired Connectivity** section for more information on the process.

If the V does not function using the wired connection, check the modem/router. If the router does not have a problem, check the internet connection of your modem.

Connection is Slow

See the instruction book of your wireless modem to get information on the optimal service area, connection speed, signal quality and other settings. Once you need to have a high speed connection for your modem.

Distruption during playback or slow reactions

You could try the following in such a case:

Keep at least three meters distance from microwave ovens, mobile telephones, Bluetooth devices or any other Wi-Fi compatible devices. Try again to activate and on the WLA router.

Internet Connection Not Available / Audio Video Sharing Not Working

If the MAC address is unique identifier number of your PC or modem has been permanently registered, it is possible that your V might not connect to the internet.

In such a case, the MAC address is authenticated each time when you connect to the internet. This is a precaution against unauthorized access. Since your TV has its own MAC address, your internet service provider cannot validate the MAC address of your TV. For this reason, your TV cannot connect to the internet. Contact your internet service provider and request information on how to connect a different device, such as your TV, to the internet.

It is also possible that the connection may not be available due to a firewall problem. If you think this causes your problem, contact your internet service provider. A firewall might be the reason of a connectivity and discovery problem while using the TV in Audio Video Sharing mode or while browsing via Audio Video Sharing feature.

Invalid Domain

Ensure that you have already logged on to your PC with an authorized username/password and also ensure that your domain is active, prior to sharing any files in your media server program on your PC. If the domain is invalid, this might cause problems while browsing files in Audio Video Sharing mode.

Using Audio Video Sharing Network Service

Audio Video Sharing feature uses a standard that eases the viewing process of digital electronics and makes them more convenient to use on a home network.

This standard allows you to view and play photos, music and videos stored in the media server connected to your home network.

1. Server Software Installation

The Audio Video Sharing feature cannot be used if the server programme is not installed onto your PC or if the required media server software is not installed onto the companion device. Please prepare your PC with a proper server programme.

2. Connect to a Wired or Wireless Network

See the **Wired/Wireless Connectivity** chapters for detailed configuration information.

3. Play Shared Files via Media Browser

Select **Media Browser** by using the **directional** buttons from the main menu and press **OK**. The media browser will then be displayed.

Audio Video Sharing

Select the desired media type on the main media browser menu and press **OK**. If sharing configurations are set properly, **Device Selection** screen will be displayed after selecting the desired media type. If available networks are found, they will be listed on this screen. Select media server or network that you want to connect to using the Up or Down buttons and press **OK**. If you want to refresh the device list, press the **Green** button. You can press **Menu** to exit.

If you select the media type as **Videos** and choose a device from the selection menu. Then select the folder with video files in it on the next screen and all the available video files will be listed.

To play other media types from this screen, you can go back to main **Media Browser** screen and select the media type as desired and then perform the network selection again. Or press the **Blue** button to switch to next media type quickly without changing the network. Refer to the **Media Browser** menu section for further information on file playback.

If a problem occurs with the network, please switch your television off at the wall socket and back on again. Trick mode and jump are not supported with the Audio Video Sharing feature.

PC/HDD/Media Player or any other devices that are compatible should be used with a wired connection for higher playback quality.

Use a LAN connection for quicker file sharing between other devices like computers.

Note: There may be some PC's which may not be able to utilize the Audio Video Sharing feature due to administrator and security settings (such as business PC's).

Internet Portal

HINT: A broadband internet connection is required for high quality viewing. You must set the country option accordingly in the **First Time Installation** for proper operation of the internet portal.

Portal feature adds your TV a feature that allows you to connect a server on the Internet and view the content provided by this server over your Internet connection. Portal feature allows you to view the music, video, clip or web content with defined short-cuts. Whether you can view this content without interruption depends on the connection speed provided by your internet service provider.

Press the **Internet** button on your remote control to open internet portal page. You will see icons of the available applications and services on the portal screen. Use the directional buttons on your remote to select the desired one. You may view the desired content by pressing **OK** after selecting. Press **Back/Return** button to return back to the previous screen.

Moreover, you can access some features using the short-cut feature defined for the coloured or numeric buttons of your remote.

Press the **Exit** button to quit the Internet portal mode.

PIP Window (depending on portal service)

Current source content will be displayed in the PIP window, if you switch to portal mode while on any active source.

If you switch to portal mode while watching TV channels, current programme will be displayed in the PIP window.

Notes:

- 100 -

Possible application dependent problems may be caused by the content service provider.

Portal service content and the interface may be changed at any time without prior notice.

Third party internet services may change, be discontinued or restricted at any time.

Internet Browser

To use the internet browser, enter the portal first. Then launch the **Internet** application on the portal.

(*) The appearance of the internet browser logo may change

In the initial screen of the browser, the thumbnails of the predefined (if any) links to web sites available will be displayed as **Speed Dial** options along with the **Edit Speed Dial** and the **Add to Speed Dial** options.

To navigate the web browser, use the directional buttons on the remote or a connected mouse. To see the browser options bar, move the cursor to the top of the page or press the **Back/Return** button. **History**, **Tags** and **Bookmarks** options and the browser bar which contains previous/next buttons, the refresh button, the address/search bar, the **Speed Dial** and the **Opera** buttons are available.

To add a desired website to the **Speed Dial** list for quick access, move the cursor to the top of the page or press the **Back/Return** button. The browser bar will appear. Highlight the **Speed Dial** -  button and press the **OK** button. Then select **Add to Speed Dial** option and press the **OK** button. Fill in the blanks for **Name** and **Address**, highlight **OK** and press the **OK** button to add. Whilst you are on the site you wish to add to the **Speed Dial** list, highlight the **Opera** -  button and press the **OK** button. Then highlight **Add to Speed Dial** option in the submenu and press the **OK** button again. **Name** and **Address** will be filled automatically according to the site you are visiting. Highlight **OK** and press the **OK** button to add.

You can also use the **Opera** menu options to manage the browser. Highlight the **Opera** -  button and press the **OK** button to see available page specific and general options.

There are various ways to search or visit websites using the web browser.

Enter the address of a website(URL) into the search/address bar and highlight the **Submit** button on the virtual keyboard and press the **OK** button to visit the site.

Enter keyword/s into the search/address bar and highlight the **Submit** button on the virtual keyboard and press the **OK** button to start a search for the related websites.

Highlight a Speed Dial thumbnail and press the **OK** button to visit the related website.

Your TV is compatible with USB mice. Plug your mouse or wireless mouse adaptor into the USB input of your TV for easier and quicker navigation.

Some web pages include flash content. These are not supported by the browser.

Your TV does not support any download processes from the internet via the browser.

All sites on the internet might not be supported. According to the site; content problems may occur. In some circumstances video contents might not be able to be played.

HBBTV System

HbbTV (Hybrid Broadcast Broadband TV) is a new industry standard that seamlessly combines TV services delivered via broadcast with services delivered via broadband and also enables access to Internet only services for consumers using connected TVs and set-top boxes. Services delivered through HbbTV include traditional broadcast TV channels, catch-up services, video-on-demand, EPG, interactive advertising, personalisation, voting, games, social networking and other multimedia applications.

HbbTV applications are available on channels where they are signalled by the broadcaster (currently various channels on Astra broadcast HbbTV applications). The broadcaster marks one application as "autostart" and this one is started by the platform automatically. The autostart applications are generally launched with a small red button icon to notify the user that there is an HbbTV application on that channel. Press the red button to open the application page. After the page is displayed you can go back to the initial red button icon state by pressing the red button again. You can toggle between the red button icon mode and full UI mode of the application via pressing red button. It should be noted that the red button switching capability is provided by the application and some application may behave differently. If you switch to another channel while an HbbTV application is active (either in red button icon mode or full UI mode), the following scenarios can occur.

- The application can continue running.
- The application can be terminated.
- The application can be terminated and another autostart red button application can be launched.

HbbTV allows the applications to be retrieved both from broadband or broadcast. The broadcaster may enable both ways or one of them. If the platform does not have an operational broadband connection, the platform can still launch applications transmitted on broadcast.

The autostart red button applications generally provide links to other applications. An example of this is shown below. The user then can switch to other applications by using the links provided. The applications should provide a way to terminate themselves, usually **Exit** button is used for this.



Figure a: Start bar application



Figure b: EP application, broadcast video is shown on the left bottom, can be terminated by pressing 0.

HbbTV applications use keys on the remote control to interact with the user. When an HbbTV application is launched, the control of some keys are owned by the application. For example, numeric channel selection may not work on a teletext application where the numbers indicate teletext pages.

HbbTV requires AV streaming capability for the platform. There are numerous applications providing VOD video on demand and catch-up TV services. The user can use play, pause, stop, forward, and rewind keys on the remote control to interact with the AV content.

Note: You can enable or disable this feature from the **More** menu in **System>Settings** menu.

Smart Center

Smart Center is a mobile application running on iOS and Android platforms. With your tablet or phone, you can easily stream your favourite live shows and programmes from your smart TV. Also you can launch your portal applications, use your tablet as a remote control for your TV and share media files.

Note: Being able to use all functions of this application depends on the features of your TV.

Getting Started

To use Smart Center features, connections have to be done properly. To get connected to your network wirelessly, plug in the Wi-Fi dongle to one of the USB ports if your TV doesn't have internal wifi feature. To be able to use internet based features, your modem/router must be connected to the internet.

IMPORTANT: Make sure the TV and mobile device are connected to the same network.

For media sharing feature **Audio Video Sharing** option should be enabled if available. Press the **Menu** button on the remote, select **System>Settings>More** menu and press **OK**. Highlight **Audio Video Sharing** and change as **Enabled**. Your TV is ready to connect to your mobile device now.

Install the **Smart Center** application onto your mobile device.

Start the smart center application. If all connections are configured properly, you will see your TV's name on your mobile device. If your TV's name doesn't appear on the list, wait a while and tap on the **Refresh** widget. Select your TV from the list.

Mobile Device screen

On the main screen you can find tabs to access various features.

The application retrieves actual channel list from TV first when it starts.

MY CHANNELS: The programmes of first four channels from the channel list retrieved from the TV are shown. You can change the listed channels. Press on the channel thumbnail and hold. A list of channels will be displayed and you can choose your desired channel to be replaced.

TV: You can watch content through the TV tab. In this mode you can navigate through the channel list retrieved from your TV and click on thumbnails to view the detail pages.

RECORDINGS: You can view your active recordings if available and reminders through this tab. To delete any item, simply press on the delete icon found on each row.

EPG: You can view the broadcast schedules of selected channel lists through this tab. You can also navigate through channels by pressing on the selected channel on the EP grid. Please note that updating / refreshing the EP information may take a while depending on your network and web service quality.

Note: Internet connection is required for WEB based EPG informations.

PORTAL: This tab displays the Portal applications in scrollable view. Unless **FollowMeTV** if available is active, the selected application will be displayed on your TV screen.

Note: Internet connection is required. This tab is enabled if a portal page is in use.

SETTINGS: Configure the application to your liking. You can change.

Auto-lock (Only in IOS): The screen of the device automatically turns off after a certain amount of time. Default is off, which means the screen will always stay on.

Auto-enable FollowMeTV: FollowMeTV function (if available) will start automatically when this setting is enabled. Default is disabled.

Auto-connection to TV: When enabled, your mobile device will automatically connect to last connected TV and skips the TV search screen.

Change TV (Only in IOS): Shows the currently connected TV. You can press on this setting to go to the "TV search" screen and change to a different TV.

Edit custom channel list: You can edit your custom channel list using this setting.

Choose channel list source: You can choose the channel list source to be used in the application. The options are "TV List" and "Custom List". Additionally you can activate "Remember my choice" option to set the selected channel list source as a constant choice. In this case if the selected source is available it will be used in the application.

Version No: Displays the current version of the application.

Detail Page

To open detail page tap on a programme. On the detail page screen you can get detailed information of the programmes you select. There are "Details", "Cast&Crew" and "Videos" tabs to find on this page.

DETAILS: This tab provides summary and information about the selected programme. Also there are links to facebook and twitter pages of the programme selected.

CAST&CREW: Shows all the people contributed to the current programme.

VIDEOS: Provides videos on Youtube related to the selected programme.

Note: For some functions an internet connection may be required.

FollowMe TV Feature (if available)

Tap on the **FOLLOW ME TV** widget located at the bottom left of the screen of your mobile device to change the layout for **FollowMe TV** feature.

Tap the play icon to start streaming of the content from the TV to your mobile device. Available if your device is in your routers operation range.

Notes:

Note that only digital(DVB-T/C/S) SD channels are supported.

Multilanguage audio support and subtitle on/off features are not functional.

The streaming performance may change depending on the quality of your connection.

Media Share Page

To access the **Media Share** widget tap on the **Up-arrow** on the bottom left side of the screen.

If the Media Share widget is pressed, a screen is displayed where you can select the media file type to share with your TV.

Note: Not all image file formats are supported. This function will not work if Audio Video Sharing feature is not supported.

Portal Launcher

To access the **Portal Launcher** widget tap on the **Up-arrow** on the bottom left side of the screen.

You can access the portal page by tapping on the **Portal Launcher** widget.

Note: Internet connection is required. This function will not work if a portal page is not in use.

Smart Remote Feature

You can use your mobile device as a remote control for your TV once it has connected to the TV. To use smart remote's full features tap on the **Up-arrow** on the bottom left side of the screen.

Voice Recognition

You can tap on the **Microphone** widget and manage your application, giving voice commands such as "Portal", "Volume Up/Down", "Programme Up/Down".

Note: This feature is only for android based devices available.

Keyboard Page

The keyboard page can be opened in two ways; by pressing the **Keyboard** widget on the application screen or automatically by receiving a command from the TV.

Requirements

1. Smart TV
2. Network connection
3. Mobile Device based on Android or iOS platform (Android 4.0 or higher; iOS 7 or higher version)
4. Smart Center app.(to be found on online application stores based on Android and iOS platforms)
5. Router modem
6. USB storage device in FAT32 format (required for PVR feature, if available)

Notes:

For Android devices, Normal(mdpi), Large(hdpi) and Extra Large(xhdpi) screen sizes are supported. Devices with 3" or smaller screen sizes are not supported.

For iOS devices, all screen sizes are supported.

User interface of the Smart Center application is subject to change according to version installed on your device.

DVD Mode

Safety Information

CAUTION

DVD Player is a class 1 laser product. However this product uses a visible laser beam which could cause hazardous radiation exposure. Be sure to operate the player correctly as instructed.

**CLASS 1
LASER PRODUCT**

RISK OF ELECTRIC SHOCK

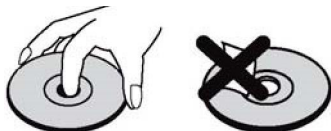
The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock of persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Notes on Discs

On handling discs

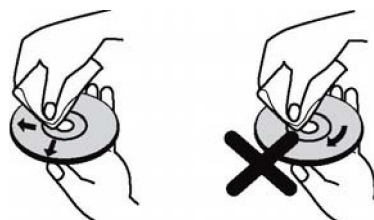
- To keep the disc clean, handle the disc by its edge. Do not touch the surface.
- Do not stick paper or tape on the disc.
- If the disc is contaminated with any substance like glue remove before using it.



- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as the temperature can rise quickly and damage the disc.
- After playing, store the disc in its case.

On cleaning

- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.



- Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.

Licence Notification

- This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Rovi Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Rovi Corporation. Reverse engineering and disassembly are prohibited.

How to Watch a DVD

When placing a disc into the loader, labeled side of the disc should be on the front.

When TV set is turned on, first switch to DVD source by using the **Source** button on the remote control. Press play on the remote control, or directly press play button at the front panel. If there is no disc inside the loader, place a DVD first and press play.

Note: If you switch to another source by pressing **Source**, **Swap** or **Programme +/-** buttons on the remote control, DVD playback will be paused automatically. You should press **Play** button and resume the playback manually when you switch to DVD mode.

DVD Control Panel Buttons

▶ / || (Play / Pause)

Plays/pauses the disc. When DVD menu /root menu is active, this button functions as button select selects the highlighted item in menu if this is not prohibited by the disc.

■ / ▲ (Stop / Eject)

Stop playing disc / Eject or Load the disc.

Note

- You cannot eject the disc via the remote control.
- While playing a file, you should press **STOP** button three times to eject.

General Playback

Basic Play

1. Press on the power button
2. Please insert a disc into the loader.

The disc will be automatically loaded and play will commence if the disc does not have any menus recorded on it.

A menu may appear on the TV screen after a few moments or the film may start immediately. This behaviour depends on the disc content and may change.

Note: Step 3 and 4 is available only when a menu is recorded on the disc.

3. Press **Down / Up / Left / Right** or the numeric button (s) to select the preferred title.
4. Press **OK**.

To confirm the selected items. The played item may be a motion picture, a still picture or another submenu depending on the disc.

For your reference:

If an action corresponding to a button is prohibited the "⊘" symbol appears.

Notes on Playback:

1. No sound will be heard during Rapid advance or Rapid reverse.
2. No sound will be heard during Slow motion play.
3. Reverse slow motion play may not be available depending on the dvd content.
4. In some cases, the subtitle language is not changed immediately to the selected one.
5. When the preferred language is not selected even after pressing the button several times, it means that the language is not available on the disc.
6. When the player is restarted or the disc is changed, the subtitle selection is automatically changed back to the initial settings.
7. If a language is selected, not supported by the disc, the subtitle language will automatically be set to the disc's priority language.
8. Usually a circulation will happen while switching to another language, that is you can cancel the subtitle by pressing this button a number of times until "Subtitles Off" appears on the screen.
9. When the power is turned on or the disc is removed, the language heard is the one selected at the initial settings. If this language is not recorded on the disc, only the available language on the disc will be heard.
10. Some DVDs may not contain root and/or title menus.
11. Reverse stepping is not available.
12. For your convenience:
If you attempt to enter a number greater than the total time of the current title, the time search box disappears and "⊘ Input Invalid" message appears on up-left corner of screen.
13. Slide Show is disabled when the ZOOM mode is on.

DVD Troubleshooting

Poor picture quality (DVD)

- Make sure the DVD disc surface is not damaged. (Scratch, fingerprint etc.)
- Clean the DVD disc and try again.

See instructions described in "Notes on Discs" to clean your disc properly.

- Ensure that the DVD disc is in the tray with the label facing upward.
- A damp DVD disc or condensation may effect the equipment. Wait for 1 to 2 hours in Stand-by to dry the equipment.

Disc does not play

- No disc in the machine. Place a disc into the loader.
- Disc incorrectly loaded.

Ensure that the DVD disc is in the tray with the label facing upward.

- Wrong type of disc. The machine cannot play CD-ROMS etc. The region code of the DVD must match the player.

Wrong OSD language

- Select the language in the set-up menu.
- The language for the sound or subtitles on a DVD cannot be changed.
- Multilingual sound and/or subtitles not recorded on the DVD.
- Try to change the sound or subtitles using DVD's title menu. Some DVD's do not allow the user to change these settings without using the disc's menu
- These functions are not available on the DVD.

No picture

- Make sure you have pressed the correct buttons on the remote control. Try once more.

No sound

- Check if volume is set to an audible level.
- Make sure the sound isn't turned off by mistake.

Distorted sound

- Check that the appropriate listening mode setting is correct.

If nothing works

If you have tried the above solutions and none seem to work, try switching your TV-DVD off and on again. If this does not work, contact your supplier or TV-DVD repair technician. Never attempt to repair a defective TV-DVD yourself.

Disc Types Compatible with This Unit

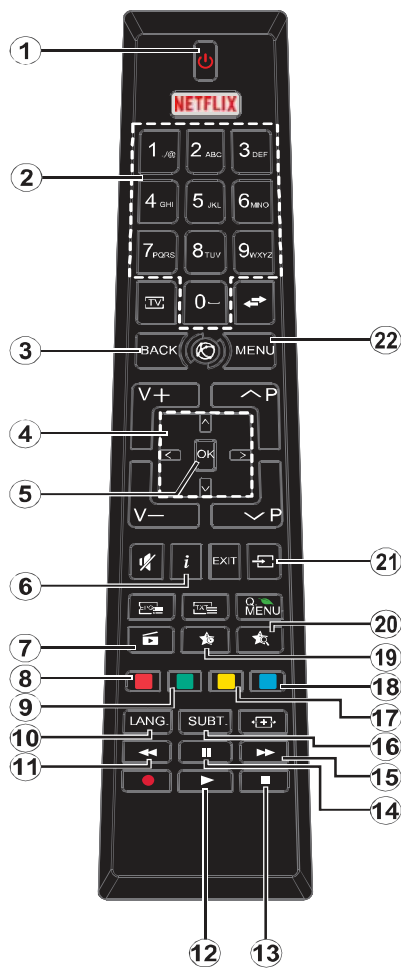
Disc Types (Logos)	Recording Types	Disc Size	Max. Playing Time	Characteristics
	Audio Video	12 cm	Single- sided 20 min. Double- sided 0 min.	- DVD contains excellent sound and video due to Dolby Digital and MPE-2 System. - Various screen and audio functions can be easily selected through the on screen menu.
	Audio	12 cm	min.	An P is recorded as an analog signal with more distortion. CD is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
	Audio (xxxx.mp)	12 cm	It depends on MP quality.	MP is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
	Video (still picture)	12 cm	It depends on PE quality.	PE is recorded as a Digital Signal with better picture quality over time.

For proper operation, only 12 cm discs must be used.

Specifications

Types of Discs Supported	DVD: SS/S .” (DVD-5) SS/D .” (DVD-) DS/S .” (DVD-10) DS/D .” (DVD-1)	CD-DA CD-R CD-RW MP-/PE
	MPE-2 Video Standard Decoding (MPE-1 supported) Full-Screen Video Display of 20 x 5 (PA) 20 x 0 (NTSC) pixels 50 and 0 frame refresh rates (PA NTSC) Digital bit-stream processing rate up to 10Mbits/sec ine resolution more than 500 lines	
Audio Type	MPE Multichannel Decoding PCM	
Audio Output	Analog Outputs: 2 bit /, .1k down-sampling DAC	

Remote Control



1. Standby
2. Numeric buttons
3. ack
4. Navigation buttons
5. O / Select
6. Info
7. Angel
8. Zoom
9. Repeat
10. Language selection
11. Rapid reverse
12. Play
13. Stop
14. Pause
15. Rapid advance
16. Subtitle
17. Root
18. Title
19. Display / DVD Menu
20. Search mode
21. Source
22. TV Menu

Note: Buttons not indicated with a number are not functional in DVD mode.

General DVD Operation (depending on model)

You can operate DVD, movie CD, music or picture CD's content by using the proper buttons on your remote control. Below are main functions of commonly used remote control buttons.

Buttons	DVD Playback	Movie Playback	Picture Playback	Music Playback
	Play	Play	Play	Play
	Pause	Pause	Pause	Pause
	Stop	Stop	Stop	Stop
	Skip backward/ forward	Skip backward/ forward	Previous / Next	Previous / Next
	Skip backward/ forward	Skip backward/ forward	Rotate	Skip backward/forward
	Highlights a menu item / Shifts the zoomed picture up or down (if available).			
	Rapid advance / Rapid reverse			
MEDIA BROWSER	Views the scene from different angles (if available)		Changes slide effect (depends on the content)	X
DISPLAY	Displays time / Views main setup menu			
INFO	Time counter mode selection (during playback). Press repeatedly to switch between modes.			
LANGUAGE	Auto language		X	X
MENU	Displays TV menu.			
OK	Enter / View / Play			
GREEN BUTTON	Displays repeat options.			
RETURN/BACK	Returns back to the previous menu (if available).			
YELLOW BUTTON	Goes back to the root folder (if available).			
SEARCH (*)	Direct selection of scenes or time.		Selects the desired file.	Selects the desired file.
SUBTITLES	Subtitle on-off. Press repeatedly to switch between subtitle options.		X	X
BLUE BUTTON	Displays disc menu (if available).	Displays disc menu (if available).	X	X
RED BUTTON	Zooms picture. Press repeatedly to switch between zoom options.			

Other Functions – Button Combinations (During playback)

	Slow forward
	Sets slow forward speed
	Sets rapid advance speed
	Sets rapid reverse speed
	Confirms stop command
	Press repeatedly to advance manually

(*) You can switch to title by pressing numeric keys directly. You need to press 0 and then digit key to switch one digit titles (example: to select 5, press 0 and 5).

MOBIL TV INSTRUCTIONS

Switching the TV On Using 12 Volt

1. Connect the cigarette lighter plug cable into the cigarette lighter socket of your car.
2. Plug the other side of 12 volt cable into DC 12 socket on the back side of the TV. Then the standby ED will light up.
3. Press the **Standby** button, **Programme +/-** buttons or a numeric button on the remote control or press the middle of the control switch on the TV in. The TV will then switch on.
4. Adjust the antenna position for better reception or reinstall TV channels if necessary.

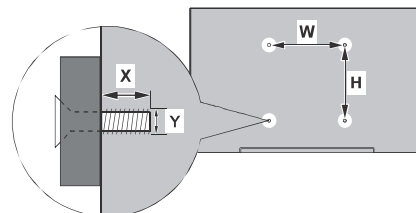
Switching the TV Off

1. Press the **Standby** button on the remote control or press the middle of the control switch on the TV in and hold it down for a few seconds, so the TV will switch into standby mode.
2. Unplug cable connectors and power plugs.

ATTENTION: 12 V Input :



A	VESA WALL MOUNT MEASUREMENTS		
B	Hole Pattern Sizes (mm)	W	H
		75	75
C	Screw Sizes		
D	Length (X)	min. (mm)	5
		max. (mm)	8
E	Thread (Y)	M4	



	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	Longhezza (X)	Filettatura (Y)
Português	MEDIDAS DE MONTAGEM MURAL VESA	Dimensões do molde de furação (mm)	Tamanhos do parafuso	Comprimento (X)	Rosca (Y)
Español	MEIDAS DEL MONTAJE DE PARED VESA	Tamaños de patrón para agujero (mm)	Tamaños de tornillo	Longitud (X)	Rosca (Y)
Türkçe	VESA DUVARA MONTAJ ARAÇI ÖLÇÜLERİ	Açılacak Delik Ölçüleri (mm)	Vida Ölçüleri	Uzunluk (X)	Yüzey (Y)
Ελληνικά	ΜΕΤΡΗΣΕΙΣ ΒΑΣΗΣ ΤΟΙΧΟΥ VESA	Μετρήσεις οπών (mm)	Μετρήσεις βιδών	Μήκος (X)	Σπείρα (Y)
Polski	WYMİARY DO MONTAŻU NAŚCIENNEGO VESA	Rozmiary szablonu otworów (mm)	Rozmiary wkrętów	Długość (mm)	Gwint (Y)
Čeština	ROZMĚRY DRŽÁKU NA ZĚD VESA	Rozměry velikosti děr (mm)	Rozměry šroubů	Délka (X)	Záviti (Y)
Magyar	VESA FALI TARTÓ MÉRETEK	Lyukak méretének nagysága (mm)	Csavar méret	Hossz (X)	Menet (Y)
Română	MĂSURĂTORI SUPT PERETE VESA	Dimensiuni tipar gaură (mm)	Dimensiuni şuruburi	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	Reikäkuviot (mm)	Ruuvinkoot	Pituus (X)	Kierre (Y)
Norsk	VESA VEGGMONTERINGSMÅL	Hullmønster størrelser (mm)	Skruestørrelser	Lengde (X)	Tråd (Y)
Dansk	VESA VÆGMONTERINGS-MÅL	Hullmønster-størrelser (mm)	Skruestørrelser	Længde (X)	Tråd (Y)
Русский	РАЗМЕРЫ НАСТЕННОГО КРЕПЛЕНИЯ VESA	Размеры системы отверстий	Размеры винтов	Длина (X)	Резьба (Y)
беларуская	ПАМЕРЫ НАСЦЕННАГА МАЦАВАННЯ VESA	Памеры сістэмы адтулін	Памеры вёнтаў	Даўжыня (X)	Рэзьба (Y)
македонски	МЕРКИ ЗА МОНТИРАЊЕ НА СИД ЗА „BESA“	Шема на големини на дупката (mm)	Големина на шрафот	Должина (X)	Навој (Y)
український	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 zavrtijeva	Dužina (X)	Navoj (Y)
Slovenčina	ROZMERY DRŽÁKA NA STENU VESA	Rozmery veľkosti dier (mm)	Rozmery skrutiek	Dĺžka (X)	Závit (Y)
Slovenščina	MERE STENSKEGA NOSILCA VESA	Velikosti vzorca luknji (mm)	Velikosti vijakov	Dolžina (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 МОНТИРАЖ НА МОНТАЖ НА СТЕНА VESA	Размери на отвора (mm)	Размер на болта	Дължина (X)	Резба (Y)
Lietuvių	VESA TVIRTINIMO PRIE SIENOS MATAVIMAI	Angos šablono dydis (mm)	Varžtų dydis	Ilgis (X)	Sriegis (Y)
Latviešu	VESA SIENAS STIPRINĀJUMA IZMĒRI	Cauruma 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 NJESISË SË MONTIMIT NË MUR VESA	Madhësitë e modele të vrimave (mm)	Madhësitë e vithave	Gjatësia (X)	Filetimi (Y)
عربي	مقاييس تثبيت على الجدار	أحجام الثقوب (مم)	أحجام المسمار	الطول (X)	الن (Y)
עברית	מידות מתקן התלייה על הקיר מסוג VESA	גודל תבנית החורים (מ"מ)	גודל הברבים	אורך (X)	הברב (Y)
فارسی	اندازه گیری نصب بر روی دیوار VESA	اندازه های گوی سوراخ (میلی متر)	اندازه های پیچ	طول (X)	رشته (Y)

FICHE PRODUIT		
MARQUE	TELECO	
REFERENCE	TSV20D	
CLASSE D'EFFICACITE ENERGETIQUE	A+	
DIAGONALE VISIBLE ECRAN	49,8 CM	19,6 POUCES
CONSOMMATION ELECTRIQUE EN MODE MARCHÉ	14 Watt	
CONSOMMATION D'ENERGIE ANNUELLE	20 kWh/an	
CONSOMMATION ELECTRIQUE EN MODE VEILLE	0,5 Watt	
CONSOMMATION ELECTRIQUE EN MODE ARRET	-	
RESOLUTION DE L'ECRAN	1366x768	



EU DECLARATION OF CONFORMITY

Teleco Spa

Via Ettore Majorana 49, 48022 Lugo (Ra)
declare under our sole responsibility that the product,

TSV20D

is in compliance with EMC norms,
EN 55020:2007+A11:2011, EN 55024:2010,
EN 55032:2012 (CLASS B), EN 61000-3-2:2014,
EN 61000-3-3:2013
and safety norms,
IEC60065:2014 / EN60065:2014

This product is so constructed that it does not endanger health and safety of
persons and domestic animals, or property, when properly installed and
maintained and used in applications for which it was made.

The object of the declaration described above is in conformity with relevant
Union harmonization Legislation: 2014/30/EU, 2014/35/EU, 2011/65/EU

Lugo 17-11-2016

Direttore Tecnico
Ing. Raul Fabbri



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