



User manual

Digital Terrestrial Receiver HD DVB-T2
SET-TOP BOX dongle

Mod. JL43703

Cod. JL43703



Please, read carefully this manual to guarantee the proper use of this appliance and keep the manual for future reference. The data contained in this manual may change for technical or commercial reasons, without notice.

Important safety warnings

Read carefully the user manual before connecting the appliance to the mains. This manual must be kept for all the life of the decoder for future consultations.

The appliance is not a toy, prevent children from playing on it.

Before any connection verify the integrity of the product; in case of damage DON'T supply it and contact an authorized repairer. For any repair, contact the service center.

The connection to the power supply must be made only after having made all the other necessary connections.

Place the cable in such way that it cannot be mashed and to avoid that persons can stumble on it.

Do not force the entry of the connections, damage may occur and consequently dangers for the user. Do not pull the cable or the device to disconnect.

It is recommended to disconnect the receiver in case of prolonged non-use and thunderstorms.

Disconnect the appliance from the power supply before cleaning. Use a dry cloth. Do not use liquid cleaners, aerosols, or cleaning products.

The openings on the enclosure must be let uncovered to permit a free airflow inside the appliance. Be sure to have enough distance around the device to allow adequate ventilation. Make sure that ventilation is not obstructed by objects such as newspapers, tablecloths, curtains, etc.

Keep the appliance away from liquids and heat sources. Do not place containers containing liquids, such as flowerpots, on top.

Do not open the appliance, baring live parts that can be dangerous for the user. It does not contain any useful parts for the user. For assistance, refer to qualified personnel.

Do not throw batteries into fire, short-circuit them, open them, or subject them to excessive temperature.

The batteries included in the package are not rechargeable, do not try to recharge them.

Replace the batteries with others of the same type. Do not use a new and an old battery or batteries of a different type, replace both with new identical ones. Do not disperse batteries in the environment. The batteries must be disposed of separately from the device in the appropriate containers.

Warranty repair:

If warranty repair is required, as per the terms of the law in force, the user has the possibility to send the product directly to the shopkeeper where he purchased it; the shopkeeper is required to check the reported defect and evaluate the most appropriate solution for the satisfaction of his customer. It will be his responsibility to arrange for possible repair to the authorized national CAT or to propose an alternative. The user must deliver the product with a copy of the validly valid receipt/purchase receipt, possibly in the original packaging and complete with all accessories.

Main characteristics of the appliance

- ✓ DVB-T / T2 compatibility in HEVC main 10bit H.265 and H.264 standards
- ✓ Universal remote control with auto-learning to control both decoder and TV
- ✓ Dolby Digital audio quality for excellent sound quality
- ✓ Video resolution: 576i / p; 720p; 1080i, 1080p.
- ✓ 4-digit display with time (when in stand-by) and channel being viewed
- ✓ Electronic Guide to TV programs
- ✓ LCN function for automatic channel numbering based on the importance of the national standard
- ✓ Multi-language menu
- ✓ Automatic and manual channel search
- ✓ Switching on on the last channel selected
- ✓ Supports Parental Control activation
- ✓ USB 2.0 port (Media Player for Music / Photo / Video / SW update. Supports MP3 audio formats; JPG, JPEG images, AVI, MP4, MKV videos)

Connections

- ✓ Antenna input: IEC female connection
- ✓ Outputs: integrated HDMI cable (up to 1080p)
- ✓ Ports: USB 2.0
- ✓ Mini USB for the display
- ✓ Input for power supply 5Vdc, via USB cable (included)

Technical features

DVB-T2 Tuner	Frequency range	(VHF) 177.5MHz - 226.5MHz (UHF) 474MHz - 858MHz.
	Band	7/8 MHz
	Input impedance	75Ω
Channel decoding	Standard	MPEG-2 (ISO/IEC 13818-2) MPEG-4 (ISO/IEC14496-2) H.264 (ISO/IEC14496-10) HEVC main profile @ level 4.1
Video decoding	Standard	MPEG-2 (ISO/IEC 13818-2) MPEG-4 (ISO/IEC14496-2) H.264 (ISO/IEC14496-10) HEVC main profile @ level 4.1 Xvid VC-1
	Aspect ratio	4:3, 16:9
	Video format	MKV, MP3, MP4, H.264, JPEG etc
	Video resolution	1920*1080i; 1280*720p; 720*576i
Audio decoding	Decoding	MPEG-1 Layer I/II, MPEG-2 layer I/II, AAC, AAC+/HE-AAC/AC3, Dolby plus
	Output mode	LPCM Out, BS Out
	Sampling frequency	32, 44.1 & 48 MHz
Supply data	Input voltage	5Vdc via USB
	Power	4W
	Standby consumption	0.3W
Operative condition	Working temperature	0 – 70°C

Installing remote control batteries

Remote control works with 2 AAA batteries, 1.5V (included). On the rear of the remote control there is the batteries compartment. To open it, push slightly the upper part of the window (identified by a knurling) and slide the lid.

Place the batteries following the right polarity, indicated on the bottom of the compartment. Close the lid, sliding until the end. Use only batteries of the specified size and voltage.

If the remote control is not used for a long time, remove the batteries. Do not leave dead batteries in the remote control.

If liquid is produced from the batteries, wipe it off with a cloth and replace the batteries.

Do not throw batteries into fire, do not short-circuit them, do not open them or subject them to excessive temperature.

Batteries included are not rechargeable, do not attempt to recharge them.

Replace the batteries with others of the same type. Do not use a new and an old battery or batteries of a different type, replace both with new identical ones.

Do not disperse batteries in the environment.

Using the remote control

The remote control must be directed towards the display, where the IR sensor is. Remove any object that may influence the trajectory from the remote control to the sensor. Exposure to strong sunlight could affect the sensitivity of the remote control.

Appliance installation

The device is powered by the supplied USB cable, this must be connected to a USB socket on the TV in use.

The decoder is equipped with a velcro to allow installation on the back of the TV: apply the adhesive side of the velcro on a free surface, away from ventilation grids.

It is not recommended to place it so that the cables are taut.

Installation display

The device is equipped with a separate display connected via an USB cable. Once the decoder has been connected to the television, insert the USB connector of the display and unrolling the cable, place it so that it is visible and without obstacles in front of it.

The display must be connected before the decoder is supplied.

IMPORTANT: the display contains the IR sensor and therefore must be clearly visible, so that the remote control can correctly control the decoder.

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Overview of the appliance

Package contents

- ✓ Digital decoder/dongle
- ✓ Remote control
- ✓ External display / IR receiver via mini USB
- ✓ USB power cord
- ✓ 2xAAA 1.5Vdc batteries
- ✓ A Velcro to fix the appliance
- ✓ A double-sided tape to fix the display
- ✓ Multilanguage quick guide to the installation
- ✓ Complete user manual

Side A



Figure 1

- 1 Antenna socket
- 2 Supply input
- 3 Display input
- 4 USB port
- 5 HDMI output



- 1 *Power TV key*: turn on/off the television
- 2 *Power key*: turn on/off the appliance
- 3 *TV/AV key*: configure the source of the television
- 4 *VOL +*: allow to adjust the intensity of the output audio of the linked TV
- 5 *VOL -*: allow to adjust the intensity of the output audio of the linked TV
- 6 *SET key*: configure the remote control
- 7 *Skip back key*: goes to the previous content
- 8 *Fast backward key*: fast-reverses a movie
- 9 *Fast forward key*: fast-forwards a movie
- 10 *Skip forward key*: goes to the next content
- 11 *Play key*: play a content
- 12 *Pause key*: pause a content
- 13 *STOP key*: stops the display of multimedia content
- 14 *REC key*: function not available
- 15 *USB key (RED)*: open the USB key
- 16 *Subtitle key (GREEN)*: shows the subtitles (if available)
- 17 *TTX key (YELLOW)*: activates the Teletext (if available)
- 18 *AUDIO key (BLUE)*: selects the language of the program, if a different language is available.
- 19 *EG key (GUIDE)*: opens the electronic guide to the programs (if available)
- 20 *INFO key*: shows the information about the channel
- 21 *Arrow keys*: allow you to navigate inside the menus
- 22 *OK key*: confirms a selection or shows the TV List
- 23 *MENU key*: opens the main menu
- 24 *EXIT key*: exits from a menu
- 25 *VOL+ & VOL- keys*: adjust the audio volume of the decoder.
- 26 *FAV key*: creates and shows the list of the favorite channels
- 27 *Mute key*: turn on/off the volume; to turn on press it gain or use the volume keys.
- 28 *CH+ & CH- keys*: change channels in succession.
- 29 *Numeric keys 0,1...9*: allow to dial the desired channel number
- 30 *TV/Radio key*: switches from TV channels to Radio channels and vice versa.
- 31 *Recall key*: skips to the previous channel

Figure 2

Connection

WARNING: connect the appliance to the mains only after making all the necessary connections.

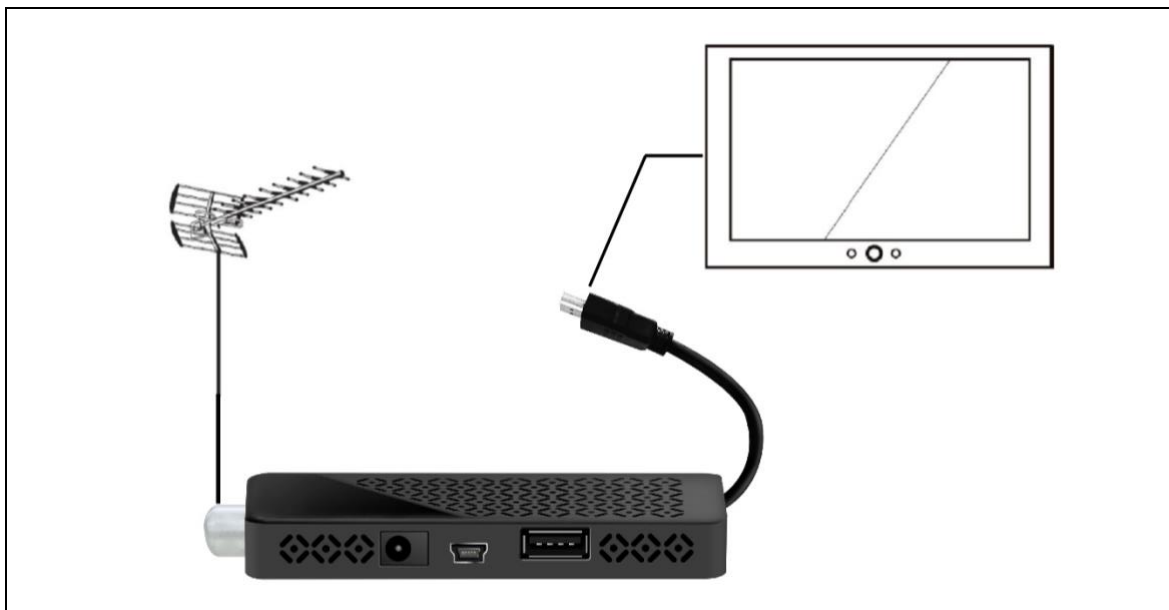
Make sure to have inserted the batteries in the remote control, adjustments may only be necessary with the remote control. Refer to the previous diagrams and images for the identification of the correct position of the sockets on the decoder.

Antenna connection

Connect the coaxial cable of the antenna connected to the wall socket with the antenna socket (see Figure 1) on the side of the device.

Connection to the television

To connect the device to the TV, use the HDMI cable built into the decoder, connecting it to an available HDMI socket. Note which socket of the TV was used (usually they are indicated with HDMI 1, HDMI 2, HDMI 3....). The TV will not automatically display the initial screen of the decoder, it will be necessary to select the source using the TV remote control (see its manual, usually on the TV remote controls it is indicated as SOURCE, INPUT ...; then choose the HDMI 1 icon .. or HDMI 2 or HDMI 3 depending on the HDMI input the HDMI cable is connected to).



To power the device, use the supplied USB cable to be connected to the DC IN jack and to a USB port available on the TV.

If you need to connect the decoder to the TV's SCART socket, you can purchase an HDMI / SCART converter by consulting the manufacturer's website <https://www.gbconline.it/> or from your dealer.

ATTENTION: The converter supplies video signals in standard definition, therefore it is recommended to use it only if the TV does not have an HDMI socket.

Boot

Select the signal input on the TV (as described above). Turn on the device with the POWER button on the remote control. “ _ _ _ _ ” will appear on the decoder display.



The home screen **INSTALLATION GUIDE** allows the choice of the language (“Lingua OSD”) and the country (“Paese”), the possibility to search only the not encrypted (FTA: Free To Air) or also those the pay-per-view ones (ALL). Moreover, it’s possible to choose if supply the antenna or not (for further info see page 13). The factory settings for language and country are “*Italiano*” (Italian) and “*Italia*” (Italy). Both the parameters can be changed via the **arrows** keys, after selecting what is wanted to modify, using the **arrows** keys on the remote control skip to the next menu.



Once the choice is made select **CHANNEL SEARCH** using the arrows key, then press **OK** to start the automatic search of the channels. Pressing **EXIT** the main menu is open.



The operation may take a few minutes. At the end of the search, the decoder may require the choice between two channels that would occupy the same position, to make the choice use the **arrow** keys and finally the **OK** key. If no choice is made the first channel will be selected.

IMPORTANT NOTES

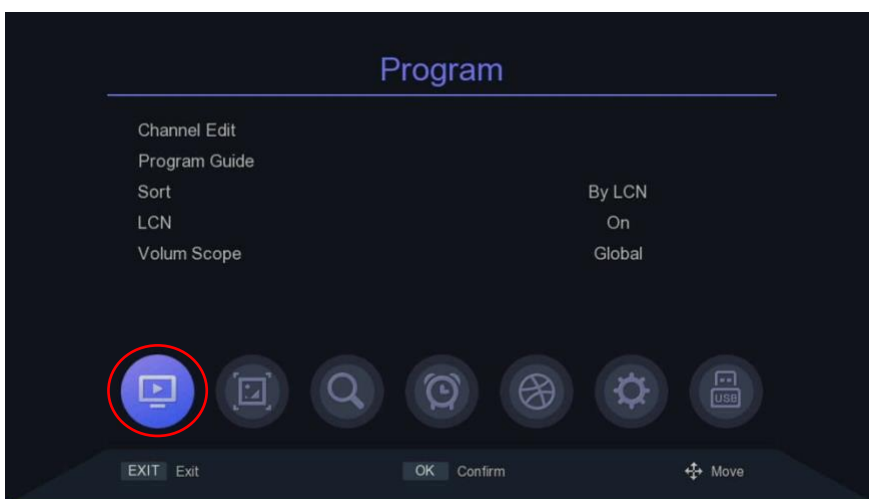
In the event that the channels stored in the search are not arranged according to the national standard which provides for their ordering according to their importance (RAI 1 on channel 1; RAI 2 on channel 2; RAI 3 on channel 3, RETE 4 on Channel 4 ; CANALE 5 on channel 5; ITALIA 1 on channel 6; LA7 on channel 7 ...), means that the LCN function is not active. To activate the LCN order, please follow the instructions in the following chapter (**PROGRAM**).

Overview of the menus

The main menu is divided in 7 submenus: **PROGRAM**, **PICTURE**, **SEARCH**, **TIME**, **OPTION**, **SYSTEM** and **USB**. Access to the main menu is by pressing the **MENU** button on the remote control. Using the **arrows keys**, you can open the various submenus.

Program

This menu allows you to sort, modify and delete the stored channels. To open the menu **PROGRAM**, select the first icon bottom from the left.



In this menu it is possible to activate the "LCN" function: select with the arrow keys **Sort** and select between the different options **By LCN**, then activate the LCN, selecting **LCN** and **ON**, as in the picture above; so, the channels will be arranged according to national importance. The factory setting provides that the channels are automatically arranged according to LCN, and the LCN sorting is active, just like in the image above.

IMPORTANT: to activate sorting by LCN both the sorting by LCN (**Sort: By LCN**) and LCN activation (**LCN: ON**) must be selected.

Picture

This menu allows you to change the image display format. The format is set automatically according to the TV to which the decoder is connected. If not, select 1080i / p if you are using a TV with a HDMI socket (1080p gives the maximum video resolution, but not all TVs support it).

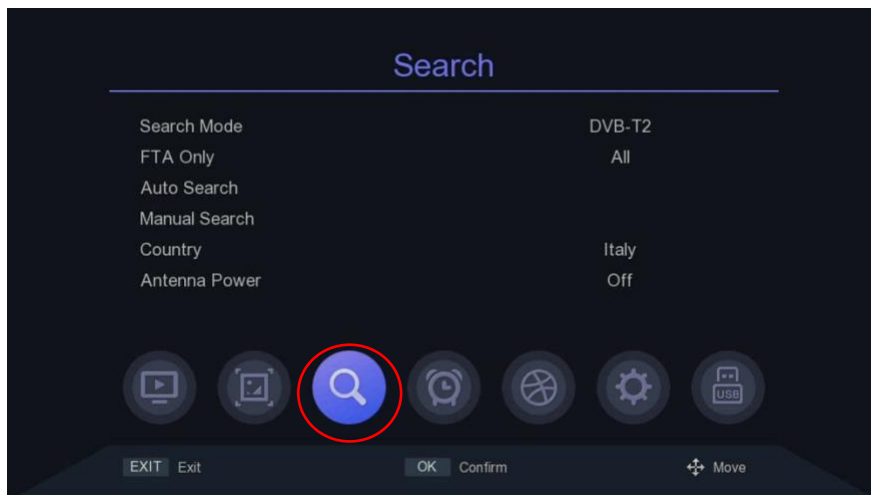
This menu also allows you to change the display parameters of the OSD (On-Screen Display), **OSD SETTING**, such as display time and transparency or those of the decoder display, **PANEL SETTING** (whether to display the channel number or the current time during transmission)

To open the menu **PICTURE**, select the second icon bottom from the left.



Search

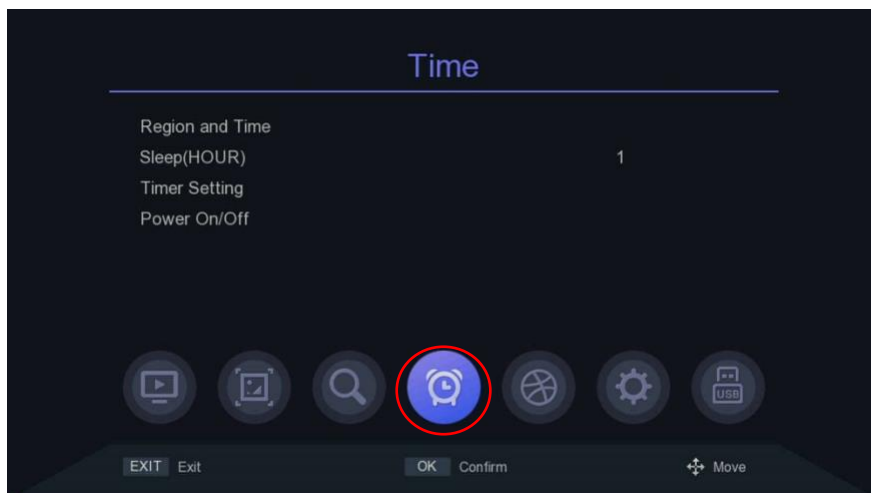
This menu allows you to search the channels, both automatically and manual. To open the menu **SEARCH**, select the third icon bottom from the left.



IMPORTANT NOTE: the **ANTENNA POWER** parameter should normally be left **OFF**, unless a portable indoor antenna that requires an external 5Vdc power supply is connected. These indoor antennas are **special antennas and are designed to operate at 5Vdc**, taking their power from the "RF IN" socket on the decoder. By enabling the **ANTENNA POWER** function and connecting an antenna cable from the decoder to the indoor antenna, we will supply, through the same antenna cable, the voltage necessary to power the internal amplifier of the antenna. **So, if the decoder is connected the antenna to the home TV system or an indoor antenna that does not require a voltage of 5Vdc, the antenna power supply must be left off.**

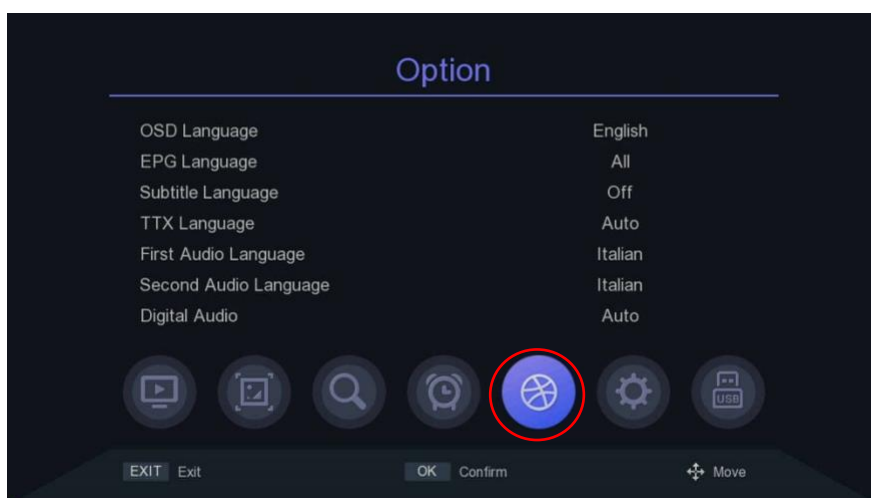
Time

This menu allows the time zone to be adjusted and the decoder to be turned off automatically using the **SLEEP (HOUR)** function (it is possible to set from 1 to 12 hours), as per European regulations it is set to 3 hours¹. By entering **POWER ON/OFF** you can set the automatic switching on and off of the decoder. To open the **TIME** menu, select the fourth icon at the bottom from the left.



Option

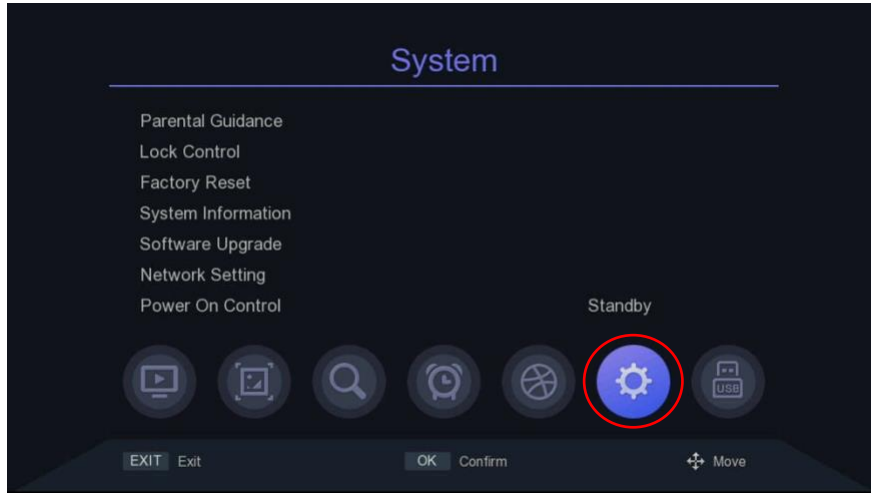
This menu allows you to change the language of the on-screen menu (OSD), subtitles or audio. To open the **OPTIONS** menu, select the fifth icon at the bottom from the left.



¹ This function contributes to energy saving by ensuring that the device turns off after the time set after the last command sent via the remote control. Before switching off, a message is displayed, see the chapter *Energy saving*.

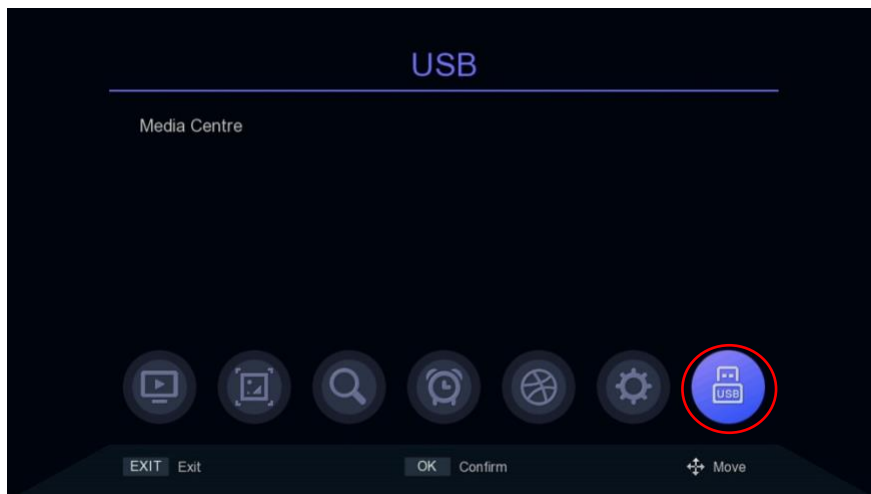
System

This menu allows you to change the system settings. To open the **SYSTEM** menu, select the sixth icon from the bottom left.



USB

This menu allows you to manage the multimedia options. To open the **USB** menu, select the seventh icon at the top from the left.



Operations

Channel selection

To select the channel, simply enter its number using the channel numeric keypad, or use the **CH +** and **CH-** keys which allow you to move forward or backward by one unit.



It's possible to visualize also the list of the channels using the **OK** key on the remote control. Sliding the list via **arrows** keys and confirming with **OK**, it's possible to visualize the desired channel. Or by pressing the GREEN key a virtual keyboard appears, through which you can find the desired channel by entering its name.

Or by pressing the **EG (GUIDE)** key on the remote control you access the **Program Guide** (if supported by the television broadcaster), using the **arrows** keys you can change the channel, keeping the guide open; once you have reached the desired channel, close the window with the **EXIT** key.

Volume adjustment

Using the **VOL +** or **VOL-** keys, it is possible to adjust the volume of the audio. To completely reset the volume, use the **MUTE** button on the remote control, once you retype the volume it will reset to the previous value.

Channel information

Pressing the **INFO** key on remote control information about the channel being viewed will be displayed: if the channel is HD (**HD**), if the teletext (**TTX**) and subtitles (**SUB**) are available, if the channel is locked (**🔒**) or if it is encrypted (**🔒**) the correspond symbols will be highlighted.



By pressing the **INFO** button again further information, such as the quality and strength of the video signal can be got.

The banner will be visible for some seconds, to make it disappear press **EXIT**.

Switching TV/RADIO

By pressing **TV/RADIO** key on the remote control you can switch between TV and radio channels (audio only) and vice versa.

Subtitle activation

Subtitles show what the characters say in the television programs, this is very useful for those with hearing problems. The subtitles are available if the symbol (SUB) is highlighted in the info banner related to the channel by pressing **INFO** key.



To activate (or deactivate) the subtitle, press the **SUBTITLE** key on remote control, a window shows the available options. Via arrow keys highlight the desired option and select with **OK**, the windows will be closed, and the subtitles will be available. In the factory settings the subtitles are disabled (OFF).




Channel organization

The channels are by default organized according to LCN (Logical Channel Numbering), which allows to automatically assign to each television service received a predefined position within the list.

You can change the numbering to your liking by accessing the **PROGRAM** menu, pressing the **MENU** button on the remote control and the arrow keys, and then to the submenu **Channel Edit**, using the arrow keys and the **OK** key. Or opening the channel list with the **OK** key and the pressing the **YELLOW** key on the remote control.





The **CHANNEL EDIT** menu allows you to delete one or more channels, move them, lock them, add them to the favorites list skip one or change their name.



To **delete** a channel, press **1** on the numeric keypad of the remote control, the first icon on the top left (bin, ) is highlighted, use the arrow keys to position the channel to be deleted and press the **OK** key. Next to this  appears, the channel has not yet been deleted, you can cancel the selection by typing **OK** (the red  disappears). When you have finished selecting the channels to delete, press the **EXIT** button, the system asks you to confirm the action (saving the deletion will be effective).

NOTE: The selected channel is deleted, and the list is repositioned to cover the hole. You can select the entire list by pressing the RED button on the remote control.



IMPORTANT: The deleted channel can only be recovered through a new channel search.

To **move** a channel, type **2** on the numeric keypad of the remote control, the second icon on the top left (arrows, ) is highlighted, use the arrow keys to position the channel to be moved, press **OK**, two red arrows () will appear next to them, with the **arrow keys** move it to the desired location. At the end, press the **EXIT** button, the system asks you to confirm the action (saving the move will be effective).

NOTE: The channel is moved within the list and the numbering is recalculated.


To **skip** a channel, type **3** on the numeric keypad of the remote control, the third icon at the top left (arrow, ) is highlighted, use the **arrow keys** to position the channel to skip, press **OK**, a red arrow () will appear next to it. At the end, press the **EXIT** button, the system asks you to confirm the action (saving the jump will be effective).

NOTE: The selected channel is not shown in the channel list and the list is repositioned to fill the gap. You can restore it by following the same procedure above, the symbol will disappear, and the channel will be visible again.




To **lock** a channel, type **4** on the numeric keypad of the remote control, the password is requested (the default is **000000**, six zeros, to change it see the chapter *Change password*), then the fourth icon at the top left (padlock, ) is highlighted, use the **arrow keys** to go to the channel to be blocked, press **OK**, a red padlock () will appear next to it. At the end, press the **EXIT** button, the system asks you to confirm the action (saving the block will be effective).

NOTE: The viewing of the channel is locked, to unlock it you need to enter the password.

To unlock it, repeat the above operations, the symbol  will disappear.


The padlock  at the bottom right will be highlighted among the channel information.

You can block the entire list by pressing the **RED** button on the remote control, while the channels to lock are chosen.

To add a channel to the **favorite**, type **5** on the numeric keypad of the remote, then the fourth icon at the top left (heart, ) is highlighted, use the **arrow keys** to go to the channel to be blocked, press **OK**, a list of favorite categories to choose from with the **arrow keys**, by confirming with **OK** the symbol  will appear (it is possible to select more than one category for the same channel). To confirm the selections type **EXIT**,  will appear next to the added channel.

At the end, press the **EXIT** button, the system asks you to confirm the action (saving the block will be effective).

NOTE: To view your favorite channels press **FAV** on the remote control, the categories containing the favorites will appear, selecting the category with **OK**, the list of favorite channels for that category will appear. To access it, press **OK**.

To delete a channel from a list, repeat the above steps, the symbol  will disappear.

To **rename** a channel, use the **arrow keys** to move to it and press the **GREEN** key, using a virtual keyboard it is possible to change the name of the channel, at the end of typing select **OK**. Pressing the **EXIT** key saves the changes and exits the menu.

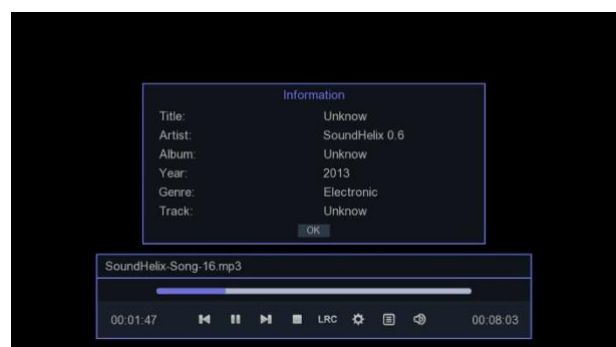
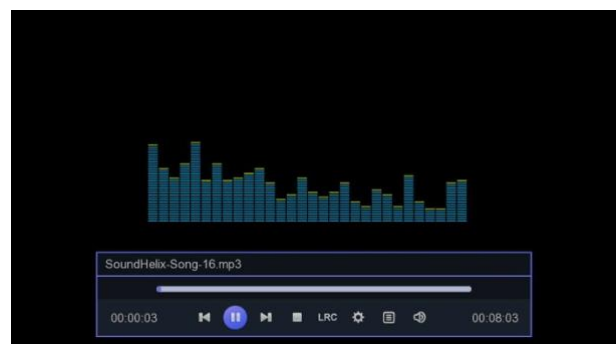
USB








The decoder allows you to open multimedia files of audio, video or image type, present on a USB memory suitably inserted in the slot of the side of the appliance. Although the device can read a significant number of different formats, some may not be supported. Furthermore, it is possible that due to the unsupported CODECs, some video files may be illegible, despite the format being readable.

To access the contents of the USB memory, insert the key with the contents to be displayed and press the **MENU** button on the remote control and reach the **USB** menu and from there the **MEDIA CENTRE** submenu.

WARNING: not all storage devices are compatible with the device, the manufacturer is in no way responsible for any damage or loss of data. Do not use self-powered portable HDs.

To open **audio files**, access the **MEDIA CENTRE** menu, select the **MUSIC** icon with the arrow keys and the **OK** button on the remote control. The decoder allows you to navigate within the folders contained in the USB key: use the **arrow keys** to move through the list of folders or files, press **OK** to open the folder or file chosen; to return to the upper folder use the **EXIT** button.

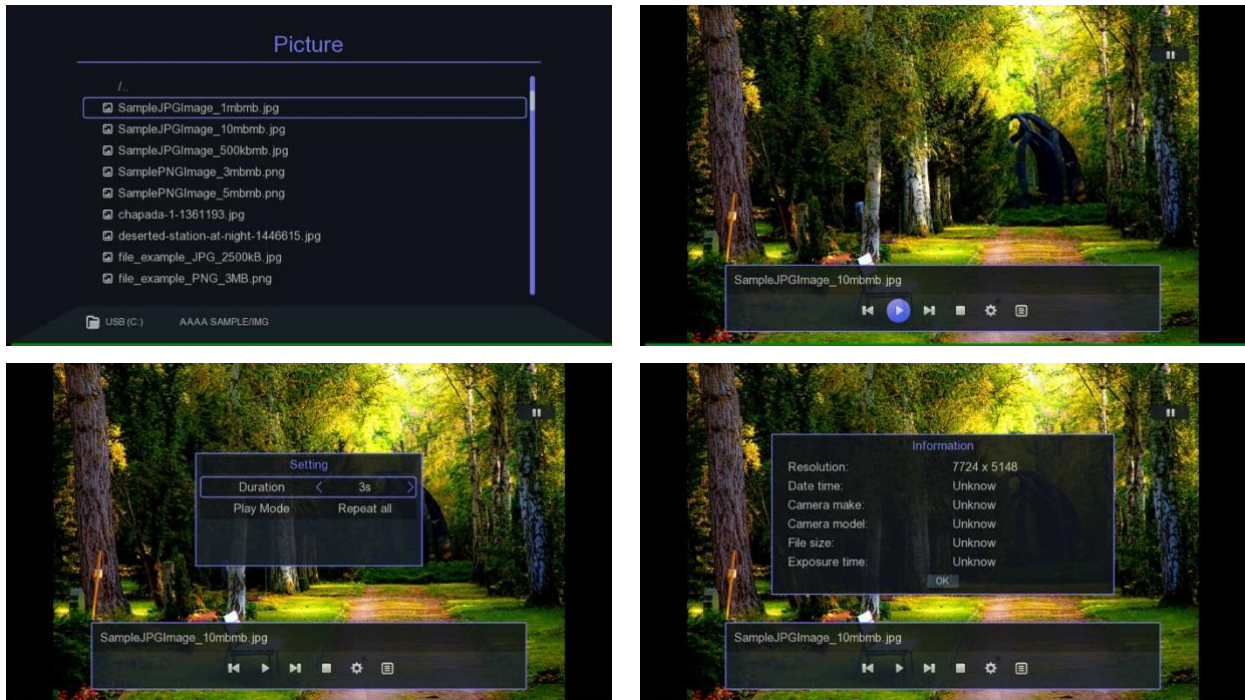


Using the options of the banner below, which can be accessed by pressing the **OK** key, you can skip to the next song , to the previous one , pause , show the lyrics of the song (if present) **LRC**, stop playback , choose playback , show information  about the file being played and adjust the volume .

For some of these options the corresponding buttons on the remote control can be used.

To view an **image**, access the **MEDIA CENTRE** menu, select the **PICTURE** icon with the **arrow keys** and the **OK** button on the remote control. The decoder allows you to navigate within the folders contained in the USB key: use the **arrow keys** to move through the list of folders or files, press **OK** to open the folder or file chosen; to return to the upper folder use the **EXIT** button. The images are displayed individually or

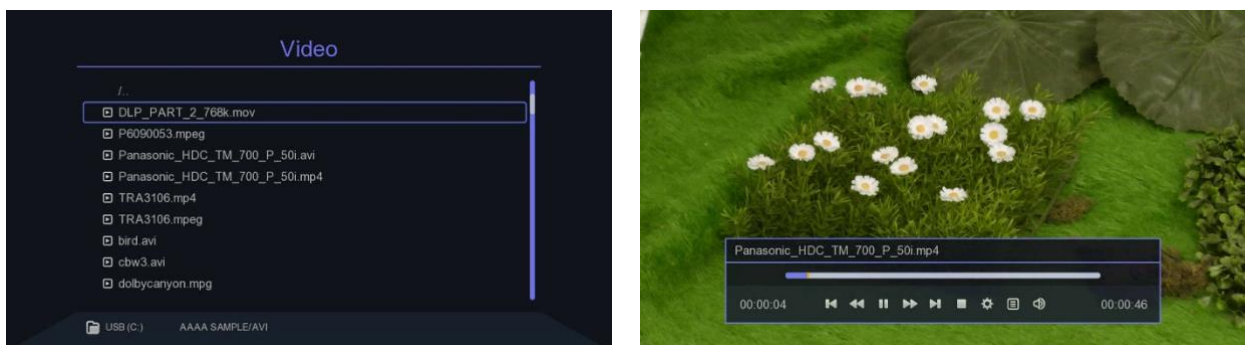
sequentially. To activate the sequence view mode select the icon ►, to stop and exit use ■. The symbol ⚙ allows you to select the display modes; while the symbol 📄 displays the information of the image file. The banner is activated using the **OK** button on the remote control. For some of these options the corresponding buttons on the remote control can be used.



To view a **movie**, access the **MEDIA CENTRE** menu, select the **VIDEO** icon with the **arrow keys** and the **OK** button on the remote control. The decoder allows you to navigate within the folders contained in the USB key: use the **arrow keys** to move through the list of folders or files, press **OK** to open the folder or file chosen; to return to the upper folder use the **EXIT** button.

Using the options of the banner below, which can be accessed by pressing the **OK** key, it is possible to skip to the next video ►, to the previous one ◀, pause ||, fast forward ►►, fast reverse ◀◀, stop playback ■, choose playback modes ⚙, show information about the file being played 📄 and adjust the volume 🔊.

For some of these options the corresponding buttons on the remote control can be used.





Alternatively, to access the contents of the memory, press **USB** on the remote control, this allows you to view the image, video and audio files.

Program guide

Some broadcasters make available information about their programs. To visualize them press the **EG (GUIDE)** key on remote control.



It is possible to view the programming of the selected network within 24 hours. From this menu it is also possible to access the *Guide* of the other channels, by using the **arrow keys** and selecting the new channel from the list on the left. The information that can be displayed depends on the selected channel.

To view the plot of a program, select it using the **arrow keys** from the list on the right and press **OK**, a window will appear with the description of the program made available by the television broadcaster. To close it press **EXIT**.

Teletext

Some channels also transmit a text information service (teletext) which can be activated by pressing the **TTX** key on the remote control (channels broadcasting teletext are marked with the symbol **TTX**). By following the indications of the index, you can select the required page. The functionality is not active for all channels.

Multilanguage transmission

If a channel is broadcast in multiple languages, you can select the language in which you want to listen to the program: press **AUDIO**, a menu opens in which you can select an alternative language, if any, with the arrow keys and the **OK** button.



TV and radio channel search

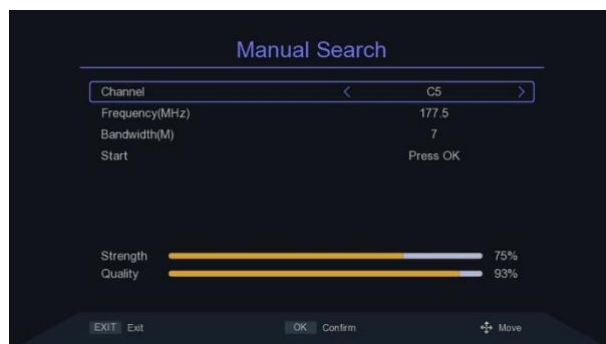
To search for television and radio channels there are two ways, automatic and manual.

Access the **SEARCH** menu and selecting **AUTO SEARCH** the decoder searches for all channels and saves data. While selecting **MANUAL SEARCH** it searches for a specific channel.

WARNING: the activation of **AUTO SEARCH** will delete all previously stored channels, overwriting a new list of channels sorted according to LCN.




The **manual search** is especially useful for finding a channel that has been deleted. It is necessary to enter the transmission channel of the reference MUX (since it can be found on the network), then press **OK** and if the channel has been found, it is added to the existing ones.

NOTE: it is also possible to search for free channels only (FTA, Free To Air) by selecting the appropriate option in the **SEARCH** menu.




Edit Favorite Channel Group Name

It is possible to rename the favorite channel groups.

Reach the **PROGRAM** menu using the **MENU** button on the remote control and the **arrow keys**, select **CHANNEL EDIT**. Or by opening the channel list with the **OK** button and then typing the **YELLOW** button. Type **5** on the numeric keypad of the remote control, the fifth icon at the top left (heart, ) is highlighted, position with the **arrow keys** on the chosen channel, press **OK**, a list of favorite categories will appear to choose from with the arrow keys, confirming with **OK** the symbol will appear  (it is possible to select more than one category for the same channel). To confirm the selections type **EXIT**,  will appear next to the added channel.

At the end, press the **EXIT** button, the system asks you to confirm the action (saving the selections will be effective).

NOTE: To view your favorite channels press **FAV** on the remote control, the categories containing the favorites will appear, selecting the category with **OK**, the list of favorite channels for that category will appear. To access it, press **OK**.

To delete a channel from a list, repeat the above steps, the symbol  will disappear.

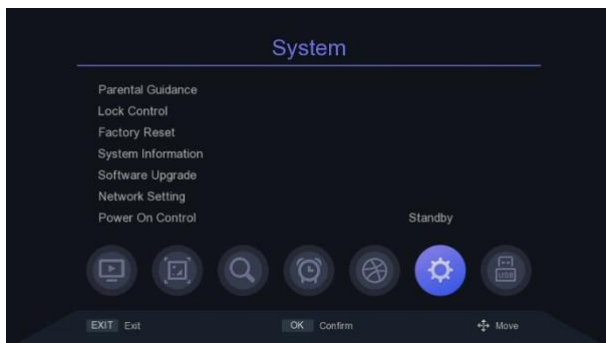


By opening the channel list (**OK** button) it is possible to view your favorite channels divided by category, using the **RIGHT / LEFT arrow keys**: the category name will appear at the top. Or typing **FAV**, a category list will appear where the favorites have been saved.

Parental control

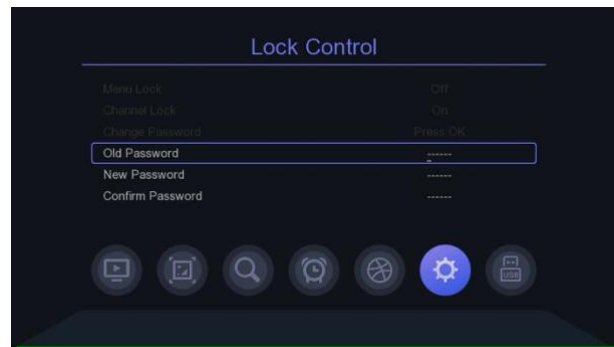
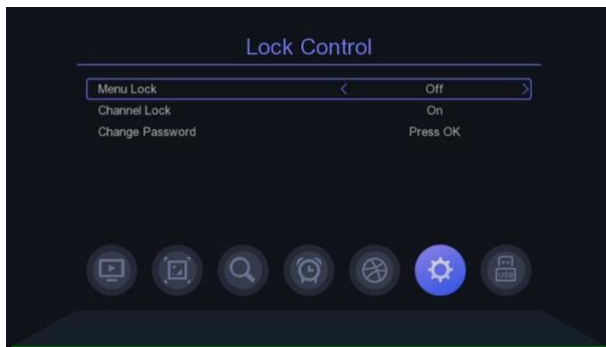
Parental Control prevents viewing of unsuitable programs for children, blocking them from viewing unless the correct password is entered.

To activate this function, press the **MENU** button on the remote control and use the **arrow keys** to reach the **SYSTEM** menu, go to **PARENTAL GUIDANCE** and press **OK**, the password is required (by default it is **000000**). The new screen requires the entry of the minimum age to view the programs using the **arrow keys**, then press **OK** to confirm. If a broadcaster reports that a program is forbidden to minors of the age set for viewing, a password is required.



Change password

To change some settings (for example **Parental control**) you need to enter a password, by default it is **000000**, but it may be necessary to change it. To do this, press the **MENU** key on the remote control, move with the arrow keys to access the **SYSTEM** menu, click on **LOCK CONTROL** (the password is required to enter), in the new screen select **CHANGE PASSWORD**. At this point, three new fields appear to be filled in with the password currently in use (**OLD PASSWORD**), with the one you want to use from now on (**NEW PASSWORD**) and with confirmation of the new password (**CONFIRM PASSWORD**). The password is a 6-digit number, which can be entered with the numeric keypad on the remote control. **Keep the password you have just changed carefully, the old password will no longer be usable.**



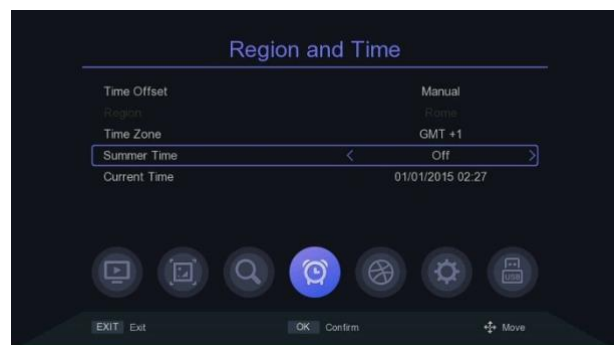
NOTE: if you have forgotten your password, you can use **873543**, it cannot be changed.

Time setting

To change the time or time zone, access the **TIME** menu and select **REGION AND TIME**. By default, the time zone is automatically set based on the choice of country made at the first installation, it is possible to change it by selecting **MANUAL** and then choosing the most correct one according to the position.

Furthermore, daylight saving time (**SUMMER TIME**) is disabled by default, when it comes into effect it can be activated by selecting **ON**.

The preview of the date and time is displayed next to **CURRENT TIME**.



Restore default settings

If you want to return to the factory settings of the device, press **MENU** on the remote control, using the **arrow keys** to access the **SYSTEM** menu, click on **FACTORY RESET**, confirming with **OK** a password is requested.

ATTENTION: In this way all the settings created by the user (password, favorite channel list, etc.) will be deleted and the decoder will return to the conditions of first use.

Software update

If an update of the device management software is available, it will be possible to install it using a USB key (minimum 2GB).

Once the software has been saved on a USB stick, insert it into the appropriate slot on the side of the appliance (*Figure 1*). Access the **SYSTEM** menu and with the **arrow keys** click on **SOFTWARE UPGRADE**, on the new screen press **OK** again. Select **FILE PATH** and locate the file to be installed on the key; once this is done, select **START** and the update will begin.

ATTENTION: do not turn off the device during the update which could take up to a few minutes. The installation of the new software will restore the device to its factory settings (first use condition), any settings made by the user will be deleted (new password, channel tuning ...).

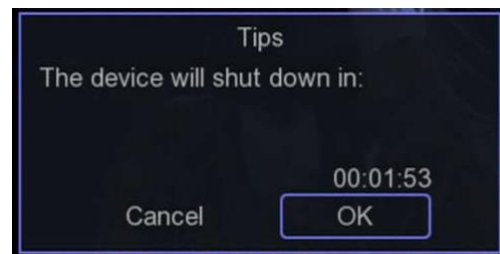
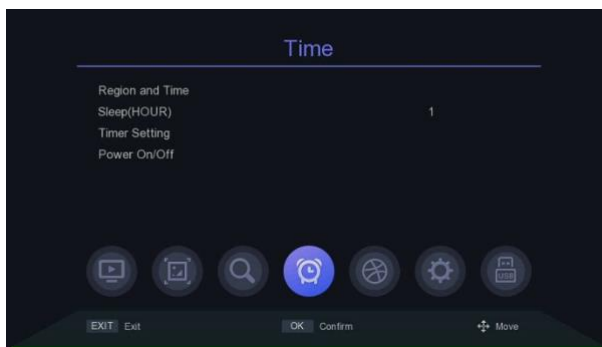
ATTENTION: with the installation of the new software some features may be different.

ATTENTION: at the end of the installation, it is recommended to proceed with a factory reset (see the chapter *Restore default settings*).

Energy saving

According to the European Directive the appliance is equipped with an energy saving function that turn off the device after 3 hours of inactivity, the shutdown is preceded by a warning message lasting 2 minutes and during which the function can be delayed for another 3 hours. *The function only turns off the decoder and not the TV.*

The period of inactivity can be changed by the user (default is 3 hours): press the **MENU** button on the remote control, open the **TIME** menu and select **SLEEP (HOUR)**, using the **arrow keys** it is possible to prevent the appliance from automatically switching to Standby (OFF) or extend the period of inactivity up to 12 hours (from 1 hour, in 60 minutes steps).



Remote control programming

The supplied remote control can also be used to control another device equipped with an infrared remote control (for example the television).

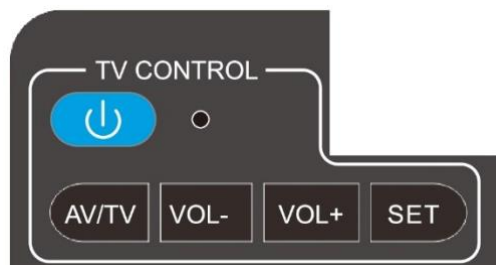
To make the remote control communicate with the TV you need to follow these steps:

1. Position the two remote controls of decoder and TV facing each other so that the two emitters look at each other without being obstructed
2. Press the **SET** button for 3 seconds on the remote control until the red LED lights up and from low light to brighter light.
3. Press the key to be associated on the decoder remote control within 3 seconds.
4. Press the button to be associated on the TV remote control within 3 seconds. If the signal is received by the remote control, the red LED will flash 3 times and then remain on.
5. Press **SET** to confirm.
6. Repeat these steps for each button on the remote you want to configure

Tips:

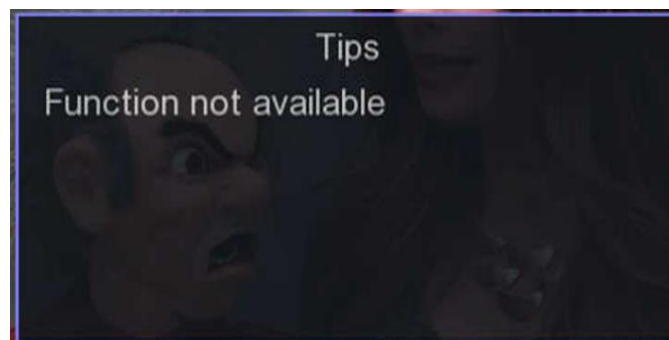
- at the end of the programming process, check whether the key has been associated before continuing with the next
- in order to avoid confusion, associate the keys with the same function, for example in point 3 press the **ON / OFF** key on the remote control of the receiver and in point 4 press the same key on the remote control of the TV,

Attention: it is possible to associate only the buttons of the remote control supplied inside the white rectangle (**ON / OFF**, **TV / AV**; **VOL +** and **VOL-**). **SET** function key and cannot be associated.



Functions not available

Some functions may not be available in this case a window like the one shown will appear.



Troubleshooting

There can be different causes for the abnormal operation of the appliance. The receiver may hang, in which case unplug it and wait 30 seconds before reinserting it.

If the appliance does not work properly, refer to the following tables for possible solutions.

Problem	Possible cause	Solutions
The display does not turn on	Lack of tension	Make sure you have plugged the power cable into a functioning USB port, if you need to use another one. Verify that the Power button has been turned on.
	Display not inserted correctly	Check that the connection of the external display is made correctly. The connection of the display must be made before powering the device, in case disconnect and reattach the power cable
No image or sound	The cables connecting the TV and the decoder are not connected correctly	Check that the output signal cable is well connected. Also check the antenna cable.
	TV mode is incorrect	Make sure you have selected the correct input signal on the TV (SOURCE or INPUT key on the TV remote control)
Intermittent picture and audio	Insufficient signal strength	Check that the antenna cable is well connected, and that the quality of the video signal is adequate.
	Electrical interference	Check that the antenna cable is completely shielded
No audio	The receiver or TV is in silent mode	Disable silent mode using the MUTE button
	Volume level too low	Check that the volume level of the set-top box and television are adequate
	Audio CODEC is not supported	While watching multimedia content, audio encoding may not be supported (while video encoding may be) and movies may appear without audio. The file is not completely readable.
Remote control not working	Batteries not inserted	Insert the batteries into the remote control
	Low battery	Replace the batteries
	Polarity reversal of batteries	Check that the batteries have been inserted according to their correct polarity, as indicated on the bottom of the battery compartment.
	The remote control is out of its operating range	Approach and point the remote control directly at the appliance.
	Display not inserted correctly	Check that the connection of the external display is made correctly. The connection of the display must be made before powering the device, in case disconnect and reattach the power cable
Media files on the USB stick are not played	The files are not of the supported format	Only some formats are supported
	The compression codec is not supported	Only some codecs are supported



INFORMATION FOR USERS

This product bears the selective sorting symbol for waste electrical and electronic equipment (WEEE). This means that this product must be handled to the local collecting points or given back to retailer when you buy a new product, in a ratio of one to one pursuant to European Directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment. Very small WEEE (no external dimension more than 25 cm) can be delivered to retailers free of charge to end-users and with no obligation to buy EEE of an equivalent type. For further information, please contact your local or regional authorities. Electronic products not included in the selective sorting process are potentially dangerous for the environment and human health due to the presence of hazardous substances. The unlawful disposal of the product carries a fine according to the legislation currently in force.



The batteries must not be put in the household waste. Please dispose of batteries properly by taking them to the local collecting points. Check with your Local Authority or retailer for recycling advice.



Hereby, KON.EL.CO. S.p.A declares that the radio equipment type DVB-T2 Digital Terrestrial Receiver, code JL43703 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.gbconline.it

This device complies with the requirements set by the directive 2002/21 / CE on the issue of television signals, implemented in Italy with Legislative Decree 2003/259 as modified by Legislative Decree no. 70 of 28/05/2012. In particular, the device complies with the requirements set by the joint technical committee (JTC) UER / ETSI / CENELEC standard "DVB" Digital Video Broadcasting.



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