

tivùsat

LA TV

SATELLITARE

4K ULTRA HD

GRATUITA

Ricevitore satellitare
tivùsat UHD SRT 7840



HbbTV®



STRONG

Fig. 1

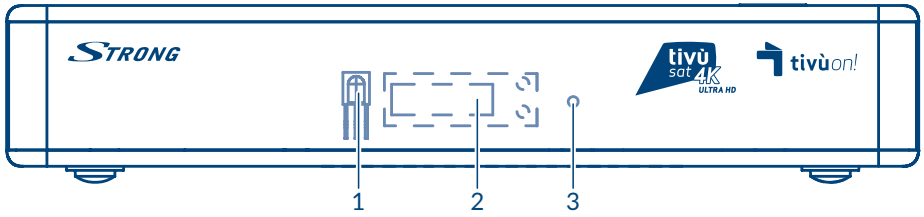


Fig. 2



Fig. 3

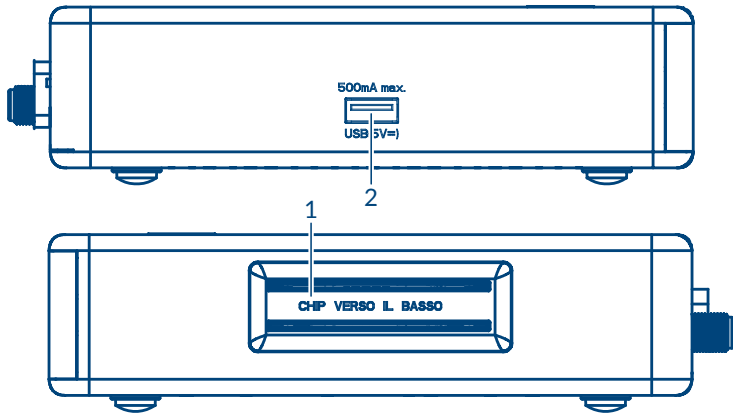


Fig. 4

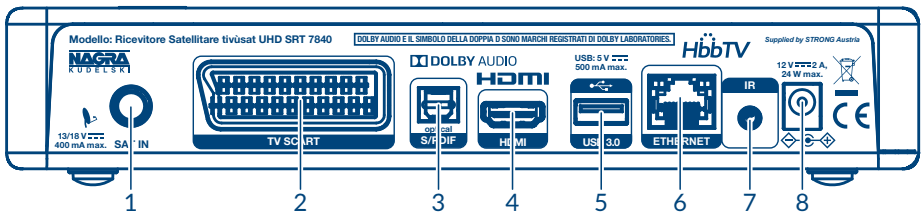


Fig. 5

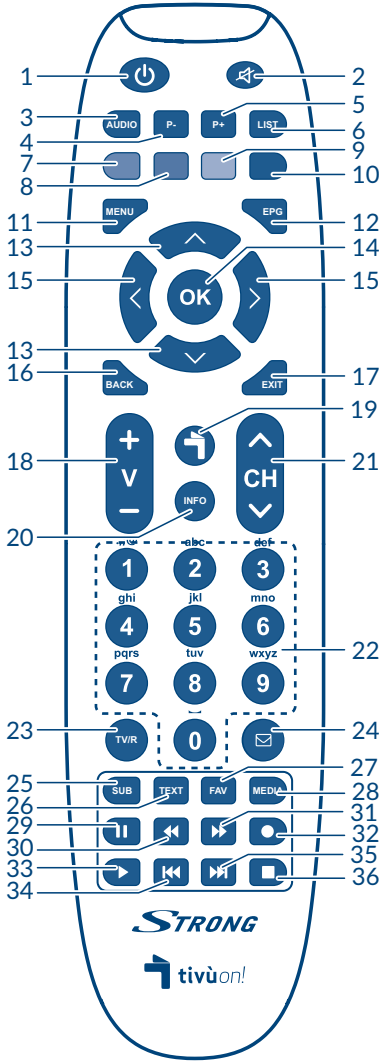


Fig. 6

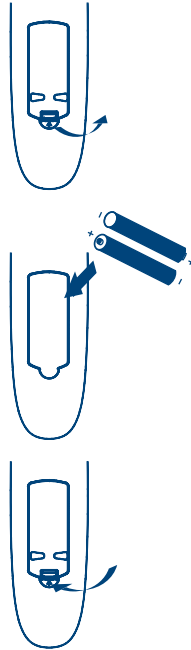


Fig. 7

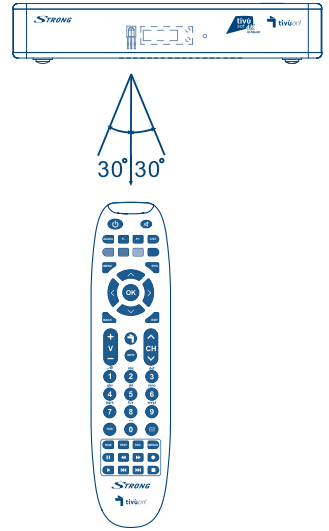


Fig. 8

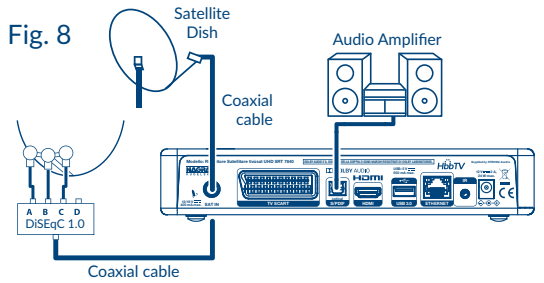


Fig. 9

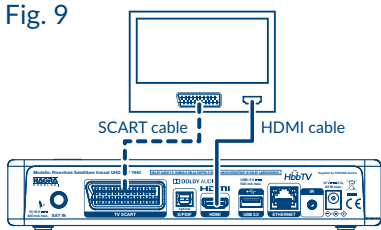
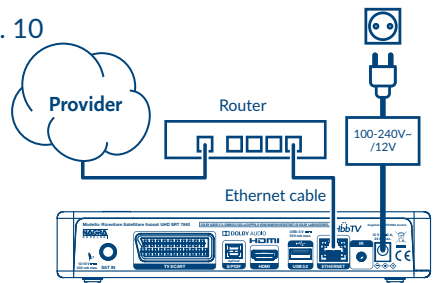


Fig. 10



SERVICE CENTER

IT



support_it@strong.tv

199 404 032

Da rete fissa 24,8 cent. al min.

12,5 cent. scatto alla risposta

Da rete mobile max 49 cent. al min.

15,6 cent. scatto alla risposta



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Hereby, STRONG declares that the radio equipment type DVB-S2 receiver is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: <https://www.strong.tv/en/doc>

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1.0 INTRODUCTION

1.1 Safety Instructions

Read all of the instructions before operating the device. Keep these instructions well for later use.

- Only use attachments/accessories specified or provided by the manufacturer (such as the exclusive supply adapter, battery etc.).
- Please refer to the information on the product enclosure for electrical and safety information before installing or operating the apparatus.
- To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- The ventilation should not be impeded by covering the ventilation openings with items, such as newspaper, table-cloths, curtains, etc.
- The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
-  This mark indicates a risk of electric shock.
- To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.
- Danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent types.
- The battery (battery or batteries or battery pack) shall not be exposed to excessive heat such as sunshine, fire or the like.
- Excessive sound pressure from earphones and headphones can cause hearing loss. Listening to music at high volume levels and for extended durations can damage one's hearing.
- In order to reduce the risk of damage to hearing, one should lower the volume to a safe, comfortable level, and reduce the amount of time listening at high levels.
- The mains plug or appliance coupler is used as disconnect device, it shall remain readily operable. When not in use and during movement, please take care of the power cord set, e.g. tie up the power cord set with cable tie or something like that. It shall be free from sharp edges or similar which can cause abrasion of the power cord set. When put into use again, please make sure the power cord is not damaged. The absence of a light indication on the apparatus does not mean that it is fully disconnected from the mains. To disconnect the apparatus completely, the mains plug must be pulled out.
- Attention should be drawn to environmental aspects of battery disposal.
- No naked flame sources, such as lighted candles, should be placed on the apparatus.
-  To prevent the spread of fire, keep candles or other open flames away from this product at all times.
-  Equipment with this symbol is a Class II or double insulated electrical appliance. It has been designed in such a way that it does not require a safety connection to electrical earth.

Precautions

- Never try to open the device. It is dangerous to touch the inside of the device due to high voltages and possible electrical hazards. Opening the device will void the warranty of the product. Refer all maintenance or servicing to suitably qualified personnel.
- When you are connecting cables, be sure that the device is disconnected from the mains supply voltage. Wait a few seconds after switching off the device before you move the device or disconnect any equipment.
- It is a necessity that you only use an approved extension and compatible wiring that is suitable for the electrical power consumption of the installed equipment. Please ensure that the electrical power supply corresponds with the voltage on the electrical identification plate at the back of the device.

Operating Environment

- Do not install this equipment in a confined space such as a bookcase or similar unit.
- Do not use the set near damp, and cold areas, protect the set from overheating.
- Keep away from direct sunlight.
- Do not use the set near dust place.
- Do not place candles near the opening area, to avoid flammable foreign material from entering the device.,

WEEE Directive

Correct Disposal of this product. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

1.2 Storage

Your device has been carefully checked and packed before shipping. When unpacking it, make sure that all the parts are included and keep the packaging away from children. We recommend that you keep the carton during the warranty period, to keep your device perfectly protected in the event of repair or warranty.

1.3 Equipment Set-up

We recommend you to consult a professional installer to set up your equipment. Otherwise, please follow the instructions below:

- Refer to the user manual of your TV and your antenna.
- Make sure that the HDMI cable and outdoor components are in a good condition and the HDMI connections are well shielded and from good quality.

This user manual provides complete instructions for installing and using this receiver. The symbols serve as follows.

WARNING:	Indicates warning information.
NOTE:	Indicates any other additional important or helpful information.
MENU	Represents a button on the remote control or the receiver. (BOLD CHARACTERS)
<i>Move to</i>	Represents a menu item within a screen. (<i>Italic characters</i>)

1.4 Accessories

- 1x user manual
- 1x remote control
- 2x 1.5 V batteries
- 1x power adapter 12 V, 2 A
- 1x tivùsat smartcard

WARNING: The batteries should not be recharged, disassembled, electrically short-circuited, be mixed or used with other types of batteries. If rechargeable accumulators instead of batteries are going to be used, we recommend using (e.g. NiMH) types with low self-discharge to ensure long time operation of remote control.

NOTE: For the appropriate usage with this device, use only power adapters as listed below (in case of a necessary exchange):
Model: CH-GSCV2000S012V24V;
Manufacturer: HUNAN GIANTSUN POWER ELECTRONICS CO.,LTD
The usage of other power adapters may cause damage to the device. Such damage is not covered under warranty.

1.5 Usage of external USB devices

- It is recommended to use USB 2.0 storage devices. If your device is not compatible to USB 2.0 specifications, the playback with your receiver might not work properly.
- If you are going to use external USB HDD (Hard Disk Drive) please consider that the power specifications might exceed the supported output of your receiver (5 V/800 mA). If so, please connect your USB HDD to an according external power adapter.
- STRONG cannot guarantee compatibility with all types of USB storage devices.
- It is advised not to store important information on USB storage devices used with the receiver. Always make backups of data on your USB storage device before using it with this receiver. STRONG will not take responsibility for any loss of information or circumstances caused by loss of information.
- Please ensure that either the USB device is already formatted to NTFS or FAT32 or format the USB device via your receiver. Formatting requires entering the PIN code (default 0000)
- STRONG cannot guarantee the playback of all files although extensions are listed, as it depends on file size, codec, bit rate and resolution.

2.0 YOUR RECEIVER

2.1 PIN CODE

The PIN code is set by the user during the installation wizard. To modify the code, go to the *Setting* menu, *Parental Control > PIN-Code Change*.

2.2 Front Panel

Fig.1

- | | |
|-----------------------|--|
| 1. IR Sensor | Receives the commands of the remote control |
| 2. LED Display | Displays channel number, time, videotext page or recording modes |
| 3. Wi-Fi LED: | Shows the status of your Wi-Fi connection. GREEN: connection OK. GREEN BLINKING: data transmit. NO LIGHT: no Internet connections. |

2.3 Top cover

Fig.2

1. **Standby indicator:**
Shows power state of the receiver. White LED: the receiver is on. Less white LED: the receiver is in standby mode.

2.4 Side Panel

Fig.3

1. **Smart card slot**
To insert your tivùsat smart card with the golden chip facing down.
2. **USB**
To connect your USB storage device

2.5 Rear Panel





Fig. 4

1. **SAT IN**
To connect to the LNB of your satellite antenna for reception of satellite broadcast signal
2. **TV SCART**
To connect to TV using a SCART cable
3. **S/PDIF (optical)**
To connect to a digital amplifier or home theatre using a optical cable
4. **HDMI**
To connect to the HDMI input of your TV set using a good quality HDMI cable
5. **USB**
To connect your USB (3.0) storage device
6. **ETHERNET**
To connect to a network switch, router or modem
7. **IR**
To connect an infrared sensor (not included in the packaging)

8. **DC POWER** To connect to the original included main power adapter (Input ~230 V 50~60 Hz/ Output 12 V, 2 A DC )

2.6 Remote Control

Fig. 5

1.  Turns the receiver ON/Standby
2.  To turn the sound on or off
3. **AUDIO** Displays the audio selection menu with selections for available languages and audio modes
4. **P-** to display the previous page
5. **P+** to display the next page
6. **LIST** Displays the channel list.
7. **RED** Flexible functions in OSD menu and Teletext.
8. **GREEN** Flexible functions in OSD menu and Teletext.Changes the picture resolution in viewing mode.
9. **YELLOW** Flexible functions in OSD menu and Teletext.Changes the picture Aspect Ratio in viewing mode.
10. **BLUE** In viewing mode: displays the schedule menu for easy setup timers; Flexible functions in OSD menu and Teletext.
11. **MENU** To open the main menu in viewing mode or to go one step back in the menu
12. **EPG** Viewing mode: Displays the EPG (Electronic Programme Guide)
13. **▲ ▼** Switches to the next/previous channel in viewing mode, switches to the next/previous page in channel list or moving the highlight up/down in the menu
14. **OK** Viewing mode: Displays the channel list. Menu: activation of the highlighted item
15. **◀ ▶** Decreasing/increasing the volume level in viewing mode/navigating through the menus/changing values of settings in a menu
16. **BACK** To back to the previous programme
17. **EXIT** Cancellation of current process/exit from main menu to viewing mode
18. **V+/-** Increases/decreases the volume level in TV mode
19.  To access the tivùon! services
20. **INFO** Press to display channel number/name and current/coming information. Press twice to display detailed event information.
21. **CH ▲/CH ▼** Channel up/down
22. **0~9** Channel number and numeric value input
23. **TV/R** Toggles between TV and radio mode
24.  Mail list
25. **SUB** To select subtitles language out of available ones on the current channel
26. **TEXT** To open Teletext if available on the current channel.
27. **FAV** To access your favourite channels. Toggles between available favourite groups
28. **MEDIA** Direct access to Multimedia menu
29. **II** Starts the Timeshift function, holds play during playback
30. **◀◀** Searches backwards during playback/Timeshift. Each pressing increases the speed (x2 – x32)
31. **▶▶** Searches forwards during playback/Timeshift. Each pressing increases the speed (x2 – x32)
32. **▶** Starts/resumes the playback
33. **◀◀** Jumps to the previous file during playback.
34. **▶▶** Jumps to the next file during playback.
35. **■** Stops playback of multimedia files

NOTE Some functions and commands related to the tivùon! service may undergo some changes after software updates.
If the receiver has not been yet updated, the tivùon! services will be accessed by pressing the **GREEN** button on the remote control.

2.7 Installing the batteries

Fig. 6

Remove the battery cover from the remote control and put 2x AAA size batteries inside the compartment. The diagram inside the battery compartment shows the correct way to install the batteries.

1. Open the cover
2. Install batteries
3. Close the cover

NOTE: The batteries should not be recharged, disassembled, electrically short-circuited, be mixed or used with other types of batteries.

2.8 Using the remote control

Fig. 7

To use the remote control, point it towards the front of the digital receiver. The remote control has a range of up to 7 metres from the receiver, if properly aligned towards the IR eye on the front panel. The remote control will not operate if its path is blocked.

NOTE: Sunlight or very bright light might decrease the sensitivity of the remote control.

3.0 CONNECTIONS

This section explains the most important functions to ensure that you can directly watch television with your new receiver. Please note additional adjustments may be required.

NOTE: Do not connect the receiver to the main power yet.

3.1 Connecting the antenna and LNB (Low Noise Block) to the receiver

Fig. 8

Connect the LNB of your satellite antenna to the SAT IN connector of your receiver using a good quality coaxial cable and suitable 'F-connector' plugs.

3.1.1 Connection of multiple fixed antennas via DiSEqC 1.0

Fig. 8

1. Connect the LNBs of your fixed antenna to the inputs of a DiSEqC 1.0 switch using a good quality coaxial cable and suitable 'F-connectors'.
2. Connect the output or "to receiver" of the DiSEqC 1.0 switch to the SAT IN connector on your receiver. Use good quality coaxial cable and suitable "F-connectors".
3. Plug the power adapter jack to the receiver and the other end to a suitable wall outlet.

3.2 Connecting to a digital audio amplifier

Fig. 8

Connect one end of a good quality optical audio cable to the S/PDIF output of your receiver and the other end to the optical audio input of your home theatre, amplifier or any other device supporting digital audio.

3.3 Basic connection using an HDMI cable

Fig. 9

1. Connect the LNB of your satellite antenna to the SAT IN connector of your receiver using a good quality coaxial cable and suitable 'F-connector' plugs.
2. Connect one end of a good quality HDMI cable to the HDMI output on your receiver and the other end to the HDMI input of your TV.
3. Plug the power adapter to a suitable wall outlet.

3.4 Basic connection using a SCART cable

Fig. 9

1. Connect the LNB of your satellite antenna to the SAT IN connector of your receiver using a good quality coax cable and suitable 'F-connector' plugs.
2. Connect one end of a good quality Scart cable to the TV SCART connector on your receiver and the other end to the SCART input of your TV.
3. Plug the power adapter to a suitable wall outlet.

3.5 Connecting to the Internet

The receiver connects to the Internet through the Internet router or DSL/cable modem in your home network. It connects to the home network over its Ethernet port or Wi-Fi.

Fig. 10

Connect one end of the Ethernet cable to the receiver and the other end to the LAN port at the router or DSL/cable modem. To connect the receiver through Wi-Fi, set it during the *First Time Installation* or select *Network* then *WiFi Network* in the main menu.

3.6 Connection to main power supply

Fig. 10

After all the connections are done you can connect your receiver to power using the supplied external AC/DC adapter. Now plug the adapter into the wall socket.

4.0 STARTING UP FOR THE FIRST TIME

Once you properly installed and connected all cables of the receiver, setup your receiver step by step by *First Time Installation* procedure.

It will guide you through the basic installation and channel searching process.

4.1 Language, audio and video

The receiver turns on displaying the Welcome message, press **OK** to go to the next step. In this page it is possible to set *Language*, *Resolution*, *Aspect Ratio* and *Audio Format*. Press **OK** to select the option you need to change then ▲ ▼ to change selection. To confirm and exit press **OK**.

4.2 PIN code creation

Create and confirm the PIN code, then select *AVANTI* and confirm with **OK** to continue.

4.3 Internet Connection

If the Ethernet cable has already been connected, the receiver will display *Connesso* on *Connessione Ethernet*, if not the receiver will display *Collega il cavo*. In this case connect the Ethernet cable to the Ethernet port and the receiver will detect the connection automatically.

If you intend to connect the receiver via Wi-Fi connection, select *Elenco reti* and the receiver will display a list of all available networks. Select your network by pressing **OK** and insert the password.

To go to the next step, select *Avanti* and confirm with **OK**.

4.4 Satellite System

In this page it is possible to set the *Antenna type, Satellite* and *LNB Power*. In case you want to change the default settings please check the *8.1.1 Antenna Setting* chapter.

To go to the next step select *Avanti* and confirm with **OK**.

4.5 Search Channel

On *Tipo di ricerca* please set the search type choosing between *tivùsat +free to air* and *tivùsat* to store only the tivùsat programmes.

To start the channel search, select *Avanti* and confirm with **OK**.

NOTE: If you see the messages *No list found* or *No channels found*, please check the antenna connections and signal levels of the satellite dish.

5.0 QUICK GUIDE FOR USING YOUR RECEIVER

We at STRONG understand that you can't wait to enjoy your new tivùsat receiver.

However, we advise you to read this manual to get the best performance from your STRONG tivùsat receiver. To turn your receiver **ON** or to go to Standby mode, press **⏻** on the remote control. Choose channels with **CH** **↗**/**↘** or **▲** **▼**. Alternatively, you can also enter the channel number with the **0~9** buttons on the remote control or press **OK** in viewing mode to display the channel list. The volume can be adjusted with **V+/-** or with **◀▶**.

6.0 HbbTV

This receiver supports HbbTV (Hybrid Broadcast and Broadband TV). This means that high-quality content is combined via satellite with the latest OTT applications, including the tivùon! OpApp coming up soon. To get the full benefit of HbbTV, your receiver must be connected to the Internet (via the Ethernet socket) or WiFi. Thanks to HbbTV, you have access to the tivùon! Improved Electronic TV Programme Guide (EPG), up-to-date information from leading TV channels, including video on demand (VOD) services, such as "tivùon!", "RaiPlay" and "Mediaset Play" applications, games and, of course, further program content such as digital teletext. The availability of HbbTV content is dependent on the TV channels and is also provided by them. As soon as a HbbTV channel from tivùsat bouquet has been selected, the receiver recognizes that HbbTV contents are available and starts the application. Once the HbbTV content has been loaded, some of the buttons on your remote control have special functions, just follow the instructions on the screen. Not all portals offer the same functions, so we recommend that you familiarize yourself with the peculiarities of various portals and possibly use available additional information. Press the **EXIT** key to exit the HbbTV application and return to TV mode.

7.0 OPERATION

In viewing mode, several features are available to make watching TV a true pleasure. This paragraph describes these features. Please also read chapter **8** to get familiar with the menu of your new tivùsat receiver.

7.1 Selecting channels

There are different ways to change channels with your receiver.

- Via direct access
- Via the channel list
- Via the **CH** **↗**/**↘** or **▲** **▼** buttons
- Via the **BACK** button

7.1.1 Direct access

To gain direct access to a certain channel simply enter its number with the 0~9 keys on the remote control. Channel numbers can be up to 4 digits long. Entering numbers and values with less than 4 digits is possible. Just wait a few seconds and your receiver will switch to the selected channel.

7.1.2 Channel list

Press **OK** or the **LIST** button in viewing mode to display the channel list.

Use **▲ ▼** to highlight your channel of choice and press **OK** to select the highlighted channel for preview. Use the **FAV** button to get access to a group of favourite lists. Press **OK** to select only channels from a particular list. Refer to chapter 8.2.2 *TV Channel Manager* to organize channels into favourite lists.

The channel list is equipped with a *Channel Filter* function to make it easier to find channels. Use **RED** button to get access to TV Program List filter. There are 4 options to help to find channel. Use **▲ ▼** to select option. Use **◀ ▶** to switch between *Order* option, *Clas* parameter and *Programme* list.

Use **OK** to confirm selection.

ALL	for sequential search through complete list of all channels, which are stored in your receiver from all satellites.
A-Z	to search for the channel from the list in alphabetical order. In <i>Group</i> parameter define first letter of channel name. At right side on screen you will see only channels, which name starting from selected letter.
FAV	to search for the channel within your favourite lists.
SAT	to search for the channel by satellites, which channels were stored to receiver.

NOTE: The bottom row on the screen provides technical information of the selected channel.

The channel list is also equipped with another option to facilitate the search for a channel. Use the **GREEN** button to display the search engine and insert the name of the channel you need to find. Use **▲ ▼** and **◀ ▶** to compose the channel name then press **RED** button to search or **EXIT** to select the channel list with the search results on the left.

7.1.3 Using the CH ▲/CH ▼ or ▲ ▼ buttons

CH ▲ or ▲ will switch to a higher channel.

CH ▼ or ▼ will switch a lower channel.

7.1.4 Using the BACK button

Use the **BACK** button to return to the last viewed channel. By pressing this button, the receiver displays the *TV recent list*. This list contains the last channels viewed. Use **▲ ▼** to select the channel you need then confirm with **OK**.

7.2 Volume Control

The volume control allows you to adjust the audio volume. Press **V+/-** or **◀ ▶** button to adjust the audio volume. Press the **⊘** button to temporarily mute audio. Press it again to come back to normal volume.

NOTE: The **⊘** function remains set while you switch channels.

7.3 Programme Information (Info banner)

Programme information is always displayed for a certain period of time whenever you switch channels.

You can also view the programme information by pressing the **INFO** button while watching a programme.

Press **EXIT** to hide the info banner.

Info banner:

- Indicates channel number and name
- Indicates current time and date
- Informs about current programme name
- Indicates name and schedule of the next programme
- Displays satellite signal strength and quality bars
- Provides programme encryption information
- Provides video and audio parameters for broadcasted programme
- Provides subtitle and teletext information (displayed if available with the programme broadcast).

Use the ▲ ▼ buttons of the remote control to switch channels.

7.3.1 Extended information panel

To access the extended information, press **INFO** button:

- once during presence of the information banner on screen
- twice in viewing mode.

The details of the current programme information (name and description of the current programme) will be provided in an additional window*. If the programme description does not fit in the display area, you can use ▲ ▼ to scroll through this information. To view information about the next programme, press **INFO** another time. Press **EXIT** to close extended information panel.

NOTE:

You can change the on-screen duration of the info banner in the *System Settings* menu. Please refer to section 8.3.2 for more details.

* Information will be displayed if available. Availability depends on the broadcaster.

7.4 Selecting audio language

Some channels support a choice of audio formats and/or languages.

Press **AUDIO** in viewing mode to display a list of available audio languages.

Use ▲ ▼ to highlight the language of choice and press **OK** to confirm.

With ◀ ▶ you can additionally select audio mode of *Stereo* (for stereo sound), *Mix* (both speakers will produce same mixed from both channels sound) and *Left* or *Right* (both speakers will produce sound respectively from left or right sound channel).

7.5 Selecting subtitle language

Press **SUB** in viewing mode to display a list of available subtitle languages. Use ▲ ▼ to select the subtitle language and press **OK** to confirm. Additionally you can adjust your preferred subtitle language as described in chapter 8.3.1.

NOTE:

Please consider that this function supports DVB and TXT subtitles and this selection only displays them temporarily. Subtitles may not be supported by every channel or broadcaster.

7.6 Viewing the teletext

To access the teletext, press the **TEXT** button in viewing mode. Use 0~9 or ▲ ▼ buttons to select the number of the page you wish to see. Press **EXIT** to go back to viewing mode.

7.7 Electronic Programme Guide (EPG)*

The Electronic Programme Guide is a very useful function that allows you to watch programme schedules and information on screen and not to miss any important event by setting Timer for it.

Press **EPG** button to activate this guide (you can also enter Electronic Programme Guide through the menu). Use **▲ ▼** to select a channel. Use **◀ ▶** to scroll through programmes on selected channel to display programme information on the screen or to book timer for it. Press **RED** or **GREEN** buttons to scroll through programmes to display programme information for the next/previous day. Press **INFO** button to display detailed information for selected programme. Press **OK** button to book or **●** button to set the Timer of the selected programme (timer will be set for this event). To view the booked events and timers check the *Timer* menu. Press **EXIT** to go back to viewing mode.

* The tivúsat Offline EPG will be available after a software update.

NOTE: Availability of EPG data depends on broadcaster.

7.7.1 Booking a programme from EPG

Select a programme as described above. Press **OK** button.

Selected programme will be booked. Next to the programme name the **▶** symbol will appear and the programme will be added in the *Timer* list. To cancel programme booking just press the **OK** button again. You can also make a correction of the booking event via *Timer* list. Please refer to section **Timer 8.2.4**, for more details.

7.7.2 Recording a programme from EPG

Select a programme as described above. Press **●** button.

Selected programme will be booked. Next to the programme name the **●** symbol will appear and the programme will be added in the *Timer* list. To cancel programme booking just press the **●** button again. You can also make a correction of the booking event via *Timer* list. Please refer to section **Timer 8.2.4**, for more details.

7.8 Favourite channels

Use the **FAV** button to access your favourite channel groups. Using **▲ ▼** select created earlier one of available favourite groups and press **OK** or **◀** to switch to channel list within selected group. Use **▲ ▼** to select channel and press **OK** to start viewing it. Now you will navigate (switch channels with **CH ▲/CH ▼** or **▲ ▼** buttons) only within this group. To get access to channel outside this group you could use direct access (enter channel number with **0~9** keys) or switch to another favourite group with **FAV** or **OK** button. Select **TV** in list of favourite channel groups to return to full channel list. Please refer to section **8.2.2** for details on how to manage favourite lists.

8.0 MAIN MENU

The main menu gives you access to *Installation, Channel, Settings, Multimedia, Network* and *Conditional Access* functions. To access the main menu, press **MENU** in viewing mode. Throughout the main menu, use **MENU** and **BACK** to get back to the previous screen and **EXIT** to quit. Throughout the Menu, use **◀ ▶** to select the main menu item and **▲ ▼** to highlight the submenu of choice and press **OK** to select.

8.1 Installation

This section contains information of how to add or modify your antenna parameters, to search for channels and programmes list. A factory reset can be performed as well.

8.1.1 Antenna Setting

All settings and changes will be saved at exiting the menu. Confirm the pop-up.

The *Signal Strength* and *Signal Quality* of the signal are displayed for your convenience while setting up, at the bottom at the screen. If settings are correct, and satellite dish is aligned, some level should appear.

Antenna Type:

For a fixed dish, with a single LNB, select *Fixed-LNBOnly* (Default)

For a fixed dish set up, with more than 1 LNB, but max. 4 LNBs, including a DiSEqC 1.0 switch, select *Fixed-DiSEqC 1.0*. If selected here, then select the corresponding ports at *DiSEqC 1.0* below.

For the use of a SCR system (SatCR, Satellite Single Cable distribution) select *SCR* and then select the corresponding User Band in the *User Band* and *User Frequency* options below.

For a Motor-driver dish set-up, using a DiSEqC 1.2 motor, select *DiSEqC 1.2*.

With DiSEqC 1.2 it is necessary to search and store every satellite position manually. This is very cumbersome (and old fashion) to do so. Select a position (1 to 63) with *Go To* for a satellite and then with *Move* drive the antenna until the satellite is found and optimise reception. Then store the position and satellite with *Save Position*. Proceed for the next satellite.

GoToX is the unofficial successor to DiSEqC 1.2, sometimes called DiSEqC 1.3 Modern Motor-drives are all DiSEqC 1.3 type. It involves a predefined satellite list and corresponding positions to those satellites, in the receiver and a algorithm to determine where the satellite is, given its geographical location. Only need is to enter the geographical location where the dish is installed. All satellites can now be found automatically. If *GoToX* is selected, set the location in the options below. At *Satellite* chose the satellite of your choice.

Satellite: Select a satellite to be configured.

LNB Power: Set the LNB power *On* or *Off*.

LNB Type: Select the LNB type. The *Universal* LNB (09750/10600 MHz) is supported and is the most common on the market for European Ku-band use. *Standard* refers to C-Band LNBs, *Wide C* refers to wide band C-band LNBs.

LNB Freq: Set the frequency of the selected LNB type. Default is 9750/10600. The *Universal* LNB (09750/10600 MHz) is the most common on the market for European Ku-band use. It is also possible to select alternative frequencies for Universal LNB types.

Transponder: Select one of the available transponders of the chosen satellites in order to check your reception or to align the antenna.

Move: To drive the antenna until the satellite is found and optimise reception

Sat Degree: Satellite position.

Ant Position: To enter the geographical position of the dish.

Go To: To make the dish move to the set position.

The following 2 options will only show when at *Antenna Type* the *Fixed DiSEqC 1.0* option is selected.

22KHz Tone: Switch the 22 KHz oscillator signal to *ON* (22K) or *OFF* (0). Only for C-Band LNB use. Refer to manual of LNB.

DiSEqC 1.0: Select the correct port of the corresponding LNB.
Available options: *Off, Port A, ..., Port D*.

The following 2 options will only show when at *Antenna Type* the *SCR* option is selected.

User Band Select the User Band you are assigned to in the SCR system. Max. 8 users.

User Frequency Displays the corresponding Frequency for the User Bands. If the User Frequency does not correspondent with any of the default User Bands for you particular SCR LNB, press **OK** and select *User Define* and enter the correct User Frequency for the correct User Band. Then press **OK** again.

NOTE: If an SCR LNB is used, please refer to the manual of the respective LNB to obtain technical data on user bands numbers and corresponding frequencies. SCR cannot be combined with any other DiSEqC function. SCR can only work in combination with an optional multi-output (max. 8) satellite splitter and an SCR LNB. SCR systems are mainly installed by professional experts, who then assign the User Band and Frequencies. If such a system is readily installed in your apartment block, refer to the original installer or the maintenance department of the housing block.

The *Signal Strength* and *Signal Quality* of signal are displayed for convenientness while setting up, at the bottom at the screen.

The following 3 options will only show when at *Antenna Type* the *DiSEqC 1.2* option is selected.

- Go To* The receiver can save up to 64 different positions. First select one Position by pressing **OK** button, then use *Move* by pressing the ◀▶ buttons to reach the correct satellite position. Once the signal is strong enough select *Save Position* to save this position.
- Move* Press ◀▶ to adjust the dish position according with the strength signal on the signal bars.
- Save Position* Press **OK** to save the Dish position.

8.1.2 Channel Search

Satellite: Select a satellite to be configured

Channel Type: Choose the kind of channel type you want to install. Available options: *TV, Radio* and *TV&Radio*

Search Type: Set the search type. Available options: One transponder to store the programme of only one transponder, *tivùsat* to store *tivùsat* programmes only, *Free-To-Air* to store *Free-To-Air* programmes only, *tivùsat +Free to air* to store *tivùsat* and *free to air* programmes, *All to store* all kind of programmes.

Transponder: Select the transponder belonging to the satellite selected. In case it has been selected the option *One transponder* on *Search Type* the receiver will scan only the transponder selected.

Search: Press **OK** button to start the search.

8.1.3 Update tivùsat List

It useful to periodically check if a new programme list is available, provided by *tivùsat* on satellite.

8.1.4 Factory Reset

This option allows you to reset the receiver back to the factory settings, which also clears all stored channels. You are asked to enter your PIN code. Enter the correct PIN code using the 0~9 buttons. A confirmation window is displayed. Select **OK** to load factory settings. Select *Cancel* to cancel. Press **EXIT** to leave.

WARNING: By resetting your receiver to factory default, all your settings and stored channels will be permanently deleted. Please use this option with caution.

8.1.5 Delete Browsing Data

Use this item to delete browsing data. At the end of the deletion process the receiver will restart automatically.

8.2 Channel

8.2.1 Electronic Programme Guide

This menu item opens the Electronic Programme Guide (EPG).

Use the navigational buttons and the buttons as indicated on screen to select a programme for recording. The EPG information is maintained by the provider.

8.2.2 TV Channel Manager

This menu allows you to create favourite lists, lock channels with PIN protection, delete channels from the TV list or move channels in position, and delete channels from the TV list. While in Lock, Delete and Move, it is also possible to rename the programme name.

Adding channels to favourite lists

Channels from the *TV list* can be added to up to 4 different favourite groups. Select *Favourites* and press **OK**, select the wanted favourite group and press **OK**. Use **▶** to jump to the Programme list and select a channel you wish to add to the favourite group. When the highlight is on the channel of your choice, press **OK**. In the middle section, you will see your new created favourite list. In the Programme list the channel will disappear. Press **EXIT** when finished and confirm saving with **OK**. Press **EXIT** to leave the menu completely. If you like to remove a channel from a favourite list, simply press **◀** and select that channel and press **OK** to delete.

To use the newly created Favourite list, press **OK** in normal viewing mode and select with *Switch Group* **◀▶** the preferred list.

NOTE:

Later sorting of favourite lists is not possible. Always start by selecting the channel you'd like to have at position 1 in the favourite list, then proceed to the next one. A channel can be added to more than one favourite list.

Lock channels

Protect channels with a PIN code before you can watch them. Select the option *Lock* and press **▶**. When the highlight is on the channel of your choice, press **OK**. In the middle section you will see your protected channel list. You may select more than one channel at a time to be protected. Leave the menu with **EXIT**. The protected channels appear in the programme list with a Lock sign. When selecting a locked channel, you will be prompted to enter the correct PIN.

NOTE:

After selecting channels to be locked or deleted, the TV Channel Manager menu will also be protected with the PIN.

Delete channels

To remove channels from the programme list (semi-) permanently.

Select the option *Delete* and press **▶**. When the highlight is on the channel of your choice, press **OK**. In the middle section you will see your channels to be removed. Leave the menu with **EXIT**. The programmes will not appear in the programme list anymore. To Un-delete the channels, select them again in the middle section of the TV Channel Manager at *Delete*.

Move channels in channel list

Sort the channel order from the main channel list. Select the option *Move* and press **▶** to jump to the Programme list and select a channel you wish to change its position. Use **▲▼** to select the channel you would like to move to another position. Then press **OK**. In the middle section, you will see the selected channel to be moved. If you like to remove a channel from the move-selected list, simply press **◀** and select that channel again and press **OK** to remove it. After selecting a channel to be moved, select with **▲▼** a position where below the channel should be stored. Then press the **RED** button and the channel is now on the new position. The process can be done with more than one channel at a time, they then will stay together as a group on the new position.

NOTE:

To put a channel on position 1 or 2, you need to select *Up* or *Down* in the pop-up screen, to select position 1 or 2.

Rename

While in Lock, Delete and Move, it is also possible to rename the programme name with the **GREEN** button. Use the options in the pop-up keyboard to do so. Confirm the name change with **RED Enter**. The name of a Favourite list can also be changed the same way, while in Favourites.

NOTE: After selecting channels to be locked or deleted, the TV Channel Manager menu will also become protected with the PIN.

8.2.3 Radio Channel Manager

Creating favourite lists, move channels in position, lock channels with PIN protection and delete channels from the radio list is also possible. The handling is the same as in the *TV Channel Manager* as described above. The only difference is that in the *Radio manager* there is no video information, so it will always display the radio background in the preview screen.

8.2.4 Timer

The menu allows you to set up to 16 timed events for waking up the receiver. and recording programmes.

The receiver will display a list with 16 timers, followed by their respective status. Select the timer you wish to set or edit with **▲ ▼** and press **OK** to proceed.

The Book/Record setup menu will now be displayed.

The following settings are available:

Timer Mode: Choose between *Once*, *Daily*, *Weekly* and *Weekdays*, or select *Off*.

Timer Service: Select *Booking* to wake-up the receiver and switch to the selected channel. Select *Recorded* to start record from the selected event to an externally connected USB device.

Wakeup Channel: Press **OK** to open the channel list and use **▲ ▼** to select the channel where the timer should wake up with.

Start Date: Use the 0~9 and/or **◀ ▶** buttons to enter the date for the timed event.

Operation Time: Use the 0~9 and/or **◀ ▶** buttons to enter the recordings start time.

Duration: Use the 0~9 and/or **◀ ▶** buttons to enter the timer duration.

When all settings are according to your wishes, use **▲ ▼** to move the highlight to *Save* and press **OK** to confirm. To quit the timer without saving your settings press **BACK**.

NOTE: Use the Timer menu to see an overview of all timers set.

8.3 Setting

8.3.1 Language

This menu allows you to set up your language preferences.

Language: Use **◀ ▶** to select the language to be used on screen.

First Audio language: Use **◀ ▶** to select the audio language you like to have as first priority, if available.

Second Audio language: Use **◀ ▶** to select a language that will be played when the language selected at *First Audio language* isn't available.

Subtitle Switch: Select the preferred subtitle type to be displayed automatically. Select *On* or *Off**

First Subtitle Language: Use **◀ ▶** to select the first preferred subtitle language.

Second Subtitle Language:

Use ◀▶ to select the second preferred subtitle language, to be shown if the *First Subtitle Language* isn't available.

8.3.2 System Settings

This item allows you to set the output parameters of the receiver according to a connected TV set and to a digital audio amplifier (if applicable). Other system setting can be set as well.

- Resolution:** Select the screen resolution according to the characteristics and supported modes of your TV set. Available options: *Auto, 576i, 576p, 720p, 1080i, 1080p, 4K (3840x2160)* and *4K (4096x2160)*. *576i* and *576p* are for 4:3 TV sets in SD quality.
- Scart mode** Select the Scart output type your TV set can handle. Available options: *CVBS* or *RGB*.
- Aspect Ratio** Select an aspect ratio depending on your TV set screen format. Available options: *4:3* or *16:9*.
- Aspect Conversion:** Change the aspect conversion. Available options: *Pan&Scan, LetterBox, Combined* and *Ignore*.
- HDMI Output:** Adjust this setting in accordance to the connected audio equipment. Set the *PCM* option to convert complex digital audio formats supported by the receiver, such as Dolby Digital Audio, to STEREO audio and pass it to the HDMI output.
Set the *BitStream* option to bypass original audio bitstream through HDMI to a connected audio equipment which can decode complex digital audio formats, such as Dolby Digital Audio.
- SPDIF Output:** Adjust this setting in accordance to the connected audio equipment.
Set the *PCM* option to convert complex digital audio formats supported by the receiver, such as Dolby Digital Audio, to STEREO audio and pass it to the S/PDIF output. Set the *BitStream* option to bypass original audio bitstream through S/PDIF to a connected audio equipment that can decode complex digital audio formats, such as Dolby Digital Audio.
Note: On the S/PDIF output it is not possible to sent Dolby Digital Plus format, it will be down converted to Dolby Digital.
- OSD Transparency:** Define the transparency of menus and other system information windows. Available options: *10, 20, 30, 40, 50*.
- Banner Timeout:** Define the duration of the info banner display in the viewing mode. Available options: *3 Seconds, 5 Seconds, 7 Seconds* and *10 Seconds*.
- Auto Standby:** Define the period of time of the receiver automatically switching to Standby mode if no commands have been received from the remote control. Available options: *Off, 1 Hour, 2 Hours, 3 Hours, 4 Hours, 5 Hours, 6 Hours*. The default setting is *3 Hours*.
- HDMI-CEC:** Options are *On, Off*. Consumer Electronics Control (CEC) is a feature of HDMI designed to allow users to command and control devices connected through HDMI by using only one remote control. **Note:** Not all manufacturers have the same implementation of the CEC standard, it may not always work (fully) with any odd brand of TV. If CEC is causing problems, switch it *Off*.
- Audio Description Switch:**
AD. Options are *On, Off*. Set this option to *On* if you like to have support of an audio track that describes the content on screen. Useful for the visual impaired. If available from the broadcaster.
- Audio Description Volume:**
Select the volume of the accompanying AD audio track. It will mix with the original Audio. Range: *0 to 32*.
- HbbTV** Hybrid Broadcast Broadband TV. Options are *On, Off*. View content, not delivered via Satellite, but by IP (Internet) connection.

HbbTV DNT Do Not Track. Feedback. Options are: *Off, Not tracking, Tracking*. With *Tracking* the content provider may use the information to give you a more personalised viewing experience.

Private Browsing If set to *On*, your viewing and internet behaviour will not be shared (no feedback) with your provider.

8.3.3 Update Settings

This item allows you to control the automated channel list update and software update to a certain extend. Select the settings that are most convenient for you. Or just keep the general default settings.

Auto Channel Numbering (LCN)

Options are: *On, Off*. If set to *On*, the channel list will be loaded in a provider defined order.

Auto Channel Update in Standby mode

Options are: *On, Off*.

Auto Channel Update in Operate mode

Options are: *On, Off*.

Auto Channel Update Repetition

Options are: *Daily, Weekly*

Auto Channel Update Time

Select a time, to do the channel update automatically, like at night.

Time Settings

Set up your time zone for clock/time in your menu and system.

GMT Usage: Set to *Auto* for broadcaster defined time depending of country selection you've made in the *First Installation Wizard*. Normally, the clock/time will be correct and also follow up the summer time changes automatically. In this case select the option *User Define* to set up time manually in the next step below. In an unlikely case the timekeeping is not correctly sent by the broadcaster, select *Off* to enter Date and Time freely.

GMT Offset: Allows you to adjust the time zone you live in. This option is only available when *GMT Usage* is set to *User Define*. The *GMT Offset* range is "-12:00 ~ +12:00".

Summer Time: Daylight Saving Time. Select *Off* or *On* to add one hour extra for summer time.

Date Use the 0~9 and/or ◀▶ buttons to enter the date.

Time Use the 0~9 and/or ◀▶ buttons to enter the time.

8.3.4 Parental Control

The menu allows you to protect the installation menu and/or channels with a PIN code. You can also create a new PIN code. You will be asked to enter your PIN code.

Channel Lock: You can select the lock separately for every channel which you like to protect it with a PIN code in the TV or Radio Manager menu. If the lock is set in the TV or Radio Manager menu, the channel lock item changes to *On*. You can override the all locks with *Off*. You can select the lock separately for every channel which you like to protect it with a PIN code.

Age Limit: Choose between: *View All, Lock All, 4 years Old* and up to *18 years Old*. Channels with a parental rating above the chosen age will be protected with a PIN code (if available in your local broadcast.)

PIN Code Change: Press **OK** to enter the sub menu.

New PIN Code: Enter your new PIN code (4 digits) you'd like to use.

Confirm: Re-enter your new PIN code to confirm. Press **OK** to end and save the change

HINT: Make note of it.

8.3.5 Help Information

This item shows all receiver related information e.g. hardware and software version. It also displays technical information from the currently selected channel, signal strength and signal quality.

Please refer to the information given on screen when you call a hotline support. The support centre employee might ask for the information given on screen.

9.0 MULTIMEDIA

In this menu you can playback video and music files and view pictures. This menu is also accessible via the **MEDIA** button on the remote control.

This menu includes the following submenus: *Movie, Music, Pictures, Record Playback, Record Settings and Storage device Setup*. Use **▶||■◀▶▶** to control the playback of multimedia files. Use the **BACK** button to return to the previous step. Press **EXIT** to exit the menu and to go back to the viewing mode.

NOTE: Before you use the multimedia functions of your receiver, please make sure that your USB storage device is properly connected to the receiver and that it is formatted in the required file system.

Usage of external USB devices

- It is recommended to use USB 2.0 or 3.0 storage devices. If your device is not compatible to USB 2.0 or 3.0 specifications the playback with your receiver might not work properly.
- If you are going to use external USB HDD (Hard Disk Drive) please consider that the power specifications might exceed the supported output of your receiver (5 V/500 mA). If so, please connect your USB HDD to an according external power adapter.
- STRONG cannot guarantee compatibility with all types of USB storage devices.
- It is advised not to store important information on USB storage devices used with the receiver. Always make backups of data on your USB storage device before using it with this receiver. STRONG will not take responsibility for any loss of information or circumstances caused by loss of information.
- Please ensure that either the USB device is already formatted to NTFS or FAT32. Or use the *Storage Device Setup* in the Multimedia menu.
- STRONG cannot guarantee the playback of all files although extensions are listed, as it depends on file size, codec, bit rate and resolution.

9.1 Movie

Supported media formats are: MKV, MP4, TS, MPG.

Buttons to use in playback preview mode:

OK Select to play, Switch from window preview to full screen viewing.

RED GREEN YELLOW

Coloured buttons. Use to select/de-select file(s) for deletion.

Buttons to use in Full Screen mode:

- ||** To pause current playback
- ▶** Resumes paused playback
- Stops playback and return to preview mode
- ◀◀▶▶** Fast rewind/fast forward. Each pressing increases the speed 2x times in range of x2 – x32
- ◀◀▶▶** Change playback to previous/next file
- INFO** Hide/Unhide the info banner.
- BLUE** Change the playback options regarding the jump step, audio track, subtitles.

NOTE: Subtitle files in SRT format are supported. Put the subtitle file in the same folder as the movie. Both files must have exactly the same prefix name. Select the subtitle file at startup of the movie in the *Select Subtitle* popup.

9.2 Music

Supported media formats are: MP3, FLAC.

- OK, ►** Playback the selected file.
- II** To pause current playback
- Resumes paused playback
- Stops playback
- ◀◀** Jump 10% of duration forward/backward in playback
- ▶▶** Change playback to previous/next file
- BLUE** Change the playback options regarding the playback sequence. (All Play, Random, etc.)
- RED GREEN YELLOW**
Coloured buttons. Use to select/de-select file(s) for deletion.

9.3 Picture

Supported media formats are: JPG, BMP.

Buttons to use in playback preview mode:

- OK** Open selected photo in full screen. Slideshow starts.
- BACK** Go to upper folder.
- RED GREEN YELLOW**
Coloured buttons. Use to select/de-select file(s) for deletion.

Buttons to use in Full Screen mode:

- CH ▲ / CH ▼** Change to previous/next photo
- ◀▶** Rotate photo clock/clockwise
- BACK** Stop the slideshow and return to preview mode.

9.4 Record Playback

Buttons to use in playback preview mode:

- OK** Select to play, Switch from window preview to full screen viewing.
- RED GREEN YELLOW**
Coloured buttons. Use to select/de-select file(s) for deletion.

Buttons to use in Full Screen mode:

- II** To pause current playback
- Resumes paused playback
- Stops playback and return to preview mode
- ◀◀** Fast rewind/fast forward. Each pressing increases the speed 2x times in range of x2 – x32
- ▶▶** Jump step in the file
- INFO** Hide/Unhide the info banner.
- BLUE** Change the playback options regarding the jump step, audio track, subtitles.

9.5 Storage Device Setup

This item allows you to setup your Storage Device if not done so on a PC previously. Use **BLUE** to format the USB device in FAT (for FAT 32)

NOTE: The unit cannot format in NTFS, but you can use a previously in a PC formatted NTFS disk.

After format, use **RED** to safely remove the HDD.

Data transfer will stop, before you pull out the device.

NOTE: It is recommended after use, to always remove the USB device safely, to avoid data corruption.

WARNING: Formatting a USB device will remove all previous data on it!

10.0 NETWORK

This item allows you to setup your network connection.

10.1 IP Setting

Connection Select between *Local connection* and *WiFi connection*

DHCP Select between *On* and *Off*

Your router can automatically provide the correct setting for the internet use. Be sure that your router is set to DHCP. If *DHCP* is set to *Off*, you can manually setup your connection below. Some expertise is required.

IP: Set the IP address manually.

MASK: Set the MASK address manually.

GATEWAY: Set the GATEWAY address manually.

DNS1: Set the main DNS address manually.

DNS2: Set an optional alternate DNS address manually.

SET: Press **OK** to Store the parameters and start to connect to Internet.

NOTE: A pop up message is shown to indicate whether the connection is successful or not.

10.2 Wi-Fi Network

If you have selected *Wireless* in the *IP setting Connection* menu, then select the network you want to use. A list of available wireless network names is shown. If selected and the network needs a Password, then enter it in the on-screen keyboard.

NOTE: A pop up message is shown to indicate whether the connection is successful or not. In the list, a confirmation sign is shown at the connected network.

10.3 Weather

Check the Weather in your area!

Use the **COLOUR** buttons to setup this simple app.

Select with **YELLOW** a major City near you from the list, or search with **GREEN** any major city in the world.



11.0 CONDITIONAL ACCESS

This item allows you to check your Conditional Access Subscription status, download new software via Internet, or via USB device.

11.1 CA Menu

CA Info See technical information about the CA System, useful for servicing.

Smart card info Check the status of your Smart card. If all OK, it will show CA_SMARTCARD_STATE_OK.

Mail List This submenu allows you to read messages from operator. If an operator wants to send messages, it will be displayed on the TV screen, showing the  icon. Press  on the remote control or open the submenu to read the message. Press **RED** button to delete all messages from the list. Press **BLUE** to delete the selected message. Press **BACK** button to return to previous step. Press **EXIT** to exit the menu and go back to viewing mode.

NOTE: Not all providers support this function.

11.2 Software Update

Manually upgrading. Selecting this submenu will perform a search on Satellite for a newer version of the firmware and, if found, select Yes to upgrade or No to skip upgrade. After upgrade is finished, the unit will reboot itself.

NOTE: A software upgrade via satellite may take some time, even up to an hour, to complete. The unit will automatically check for, and install newer software if available, according to the default setting in the Update Setting menu.

11.3 USB Update

Software Update via USB device, follow the instructions on screen, after you have downloaded the software from the manufacturers or providers website.

NOTE: Not all providers support this function.

12.0 TROUBLESHOOTING

There may be various reasons for faulty operation of the receiver. Please check the receiver according to the procedures shown below. If the receiver does not work properly after checking it, please contact your local service line or STRONG dealer. Alternatively, you can send a support e-mail via our website: www.strong.tv.

NEVER open or disassemble your receiver. This may cause a dangerous situation and will void the warranty.

Symptom	Cause	Remedy
The standby indicator does not light up	The mains lead is unplugged/ the multipoint connector is switched off.	Check the mains lead/switch the multipoint connector on.
There is no image, no sound, no display	There is no power supply	Check the connection cables
	There is a short circuit in coaxial cable	Disconnect device from mains power supply, eliminate the short circuit in the coaxial cable or connections, reconnect, and activate device
	Cables are missing or defective.	Check your connecting cables
	A wrong video format was selected in the OSD settings	Check the settings to make sure your TV supports the selected format
There are small blocks in the video, occasionally no sound, occasionally no signal	The signal is too weak	Check for defective cables or connectors. Alternatively, reduce the coaxial cable length
Scrambled channel message	The channel is scrambled.	Select an alternative channel.
No response to remote control	The receiver is off.	Plug in and turn on the plug.
	The handset is not aimed correctly.	Aim the handset at the IR sensor.
	The IR sensor is obstructed.	Check for obstructions.
	The handset batteries are exhausted.	Replace the handset batteries.
Password forgotten	The default password is 0000	Contact the local Service Hotline or send an email to our support via www.strong.tv
The external USB HDD does not start.	The power consumption is too high.	Connect an extra power supply adapter to your USB HDD device.
The receiver switches to standby automatically.	The <i>Auto Standby</i> function is activated and has reached the set time (default 3 hours).	Set the power down time or disable it in the <i>Settings/Time Setting</i> menu, parameter <i>Auto Standby After</i> .

13.0 SPECIFICATIONS

Demodulator

Demodulation:	QPSK, 8PSK
Input symbol rate:	DVB-S2 8PSK/QPSK: 2 ~ 45 Ms/s
FEC decoder:	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 in DVB-S2 QPSK mode 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 in DVB-S2 8PSK mode

Video

Profile level:	H.264, H.265, VP9
Max. video resolution:	2160p
Aspect ratio:	4:3 and 16:9
Video resolution:	HDMI: 480i/480p, 576i/576p, 720p, 1080i, 1080p, 4Kx2K SCART: PAL

Audio

Audio decoding:	MPEG-1 LAYER 1&2, E-AC-3
Audio mode:	Stereo L/R, Dolby® Digital, Dolby® Digital Plus*

*Dolby Digital Plus and the double-D symbol are registered trademarks of Dolby Laboratories

Tuner

Type1 F Type, IEC169-24, Female

Input frequency range:	950 – 2150 MHz
RF impedance:	75 Ohm unbalanced
Signal level:	-65 to -25 dBm
LNB power:	13/18 V DC (+/- 1 V), max. 400 mA, overload protected
DiSEqC version:	1.0/1.2/1.3

System & memory

Main processor:	Hisi3796MV200 (Nagra)
Flash memory:	512 MB NAND Flash
System memory:	1 GB DDR3

Connectors

SAT IN
S/PDIF (optical)
2x smartcard readers
HDMI
TV SCART (RGB, CVBS, Audio L&R)
Ethernet (RJ45)
IR (infrared)
Power adapter (12 V/2 A)
2x USB 2.0/3.0 ports Type A: 5 V/500 mA (max.) supported

General Data

Wi-Fi:	2x2 MIMO 2.4 GHz/5 GHz Dual Band 802.11a/b/g/n/ac
Supply voltage:	AC 100 - 240 V 50/60 Hz
Input voltage:	DC 12 V, 2 A
Power consumption:	max. 24 W, typ.6 W
Power consumption in standby:	max 1 W
Operating temperature:	0 ~ +40 °C
Storage temperature:	-10 ~ +70 °C
Operating humidity range:	10 ~ 95% RH, non-condensing
Size (W x D x H) in mm:	227 x 170 x 44
Net weight in kg:	0.43
Gross weight in kg:	0.71