STRONG

Digital Terrestrial HD Receiver

SRT 8109

User Manual
Bedienungsanleitung
Manuel utilisateur
Manuale utente
Manual do Utilizador
Инструкции за употреба
Руководство пользователя
Посібник користувача
Användar Manual
Uživatelská příručka
Navodila za uporabo
Korisnički priručnik
Uputsvo za rukovanje
Používateľská príručka
Használati útmutató
Käyttöohje
Brukermanual
Manual del Usuario
Gebruiksaanwijzing
Brugervejledning
Manual de Utilizare
Instrukcja obsługi

Fig. 1

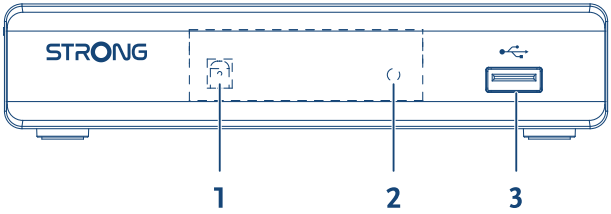


Fig. 2

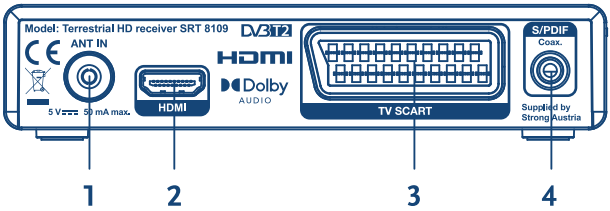


Fig. 3

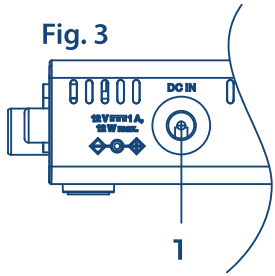


Fig. 4

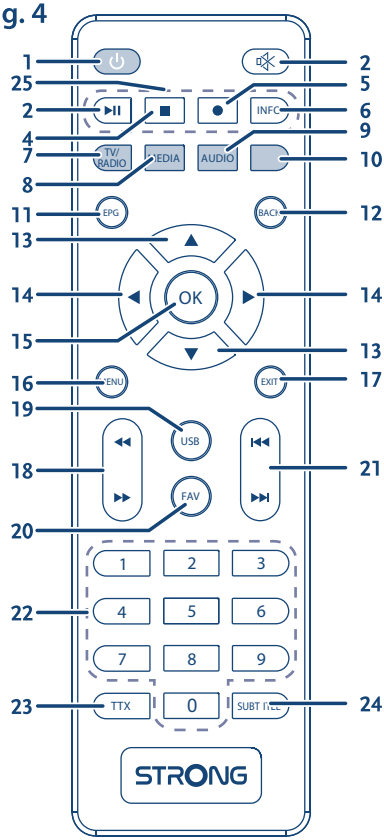


Fig. 5

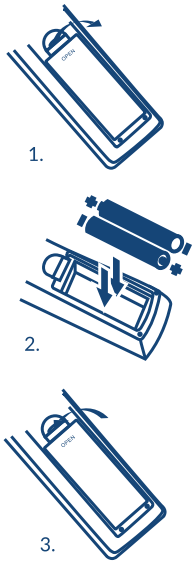


Fig. 6

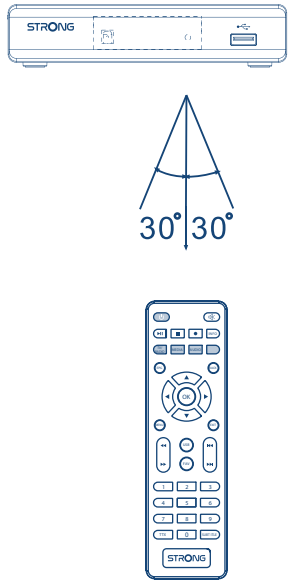


Fig. 7

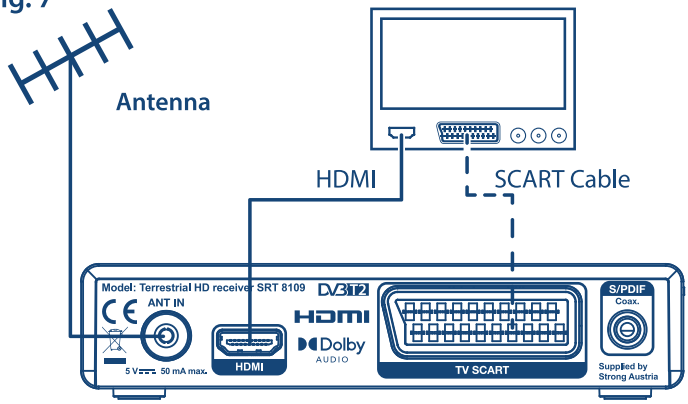


Fig. 8

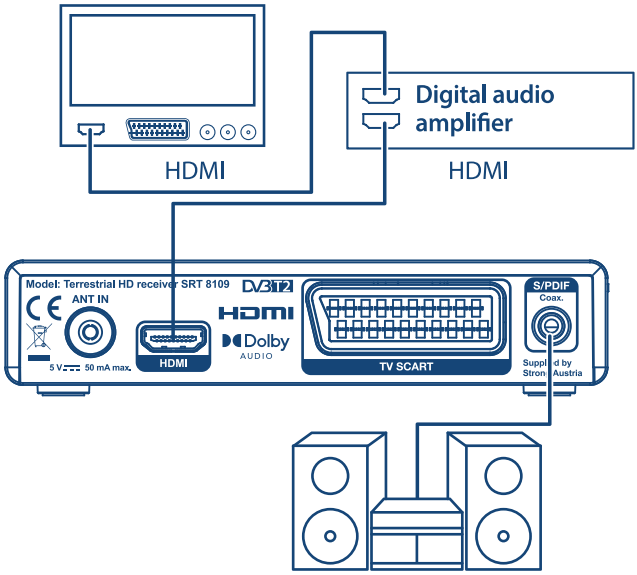
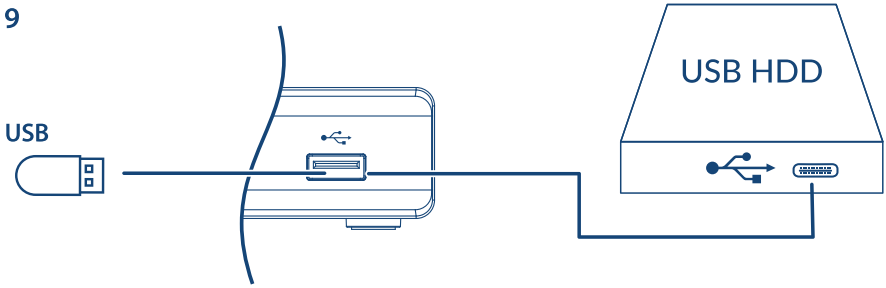


Fig. 9



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STRONG declares that this device SRT 8109 complies with the basic requirements and other relevant regulations of directives EMC 2014/30/EU, LVD 2014/35/EU and RoHS 2011/65/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 environmentally 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**)
Move to	Represents a menu item within a screen. (*Italic characters*)

1.4 Accessories

- 1x quick installation guide
- 1x remote control
- 2x AAA batteries
- 1x DC wall adapter 12V 1A 12W

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.

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/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 format the USB device via your receiver. Formatting requires entering the PIN code
- 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 Default PIN-CODE: 0000

You can change the PIN-Code in the main menu under *Channel List* then *Parental Lock*.

Make a note of your code.

2.2 Front Panel

Fig. 1

1. **LED Mode indicator:** RED indicates that the receiver is in STAND-BY mode. GREEN indicates that the receiver is in OPERATING mode.
2. **IR sensor:** Point your remote control towards this sensor. (Hidden)
3. **USB:** Connector for USB devices.

2.3 Rear Panel

Fig. 2

1. **ANT IN** To connect to your antenna for the reception of broadcast signal.
2. **HDMI** To connect your receiver with your TV set using an HDMI cable.
3. **TV SCART** To connect your receiver with your TV set using a SCART cable.
4. **S/PDIF Coaxial** To connect your receiver to a digital audio amplifier.

2.4 Side Panel (Left)

Fig. 3

1. **DC IN** Your receiver requires a DC wall adapter 12V 1A 12W output (supplied). The adapter voltage input is 100~240 V AC (Auto-selectable), 50/60 Hz +/-5%. Check the local power specification before connecting your receiver to the wall outlet.

2.5 Remote Control

Fig. 4

1. ⏻ Turns the receiver On/Standby.
2. Mutes audio output of the receiver.
3. **II/TIMESHIFT** Activates the Timeshift function, Pause/Play in Multimedia and Time Shift.
4. ■ Stop play, time shift, recording and multimedia.
5. ● Records the TV programme to the connected storage device.
6. **INFO** Press once to shows the actual channel information, press twice to check technical information.
7. **TV/R** Toggles between TV or RADIO mode.
8. **MEDIA** Shortcut to Multimedia menu.
9. **AUDIO** Shows list of Audiotracks, for the current channel.
10. **BLUE** Shortcut to the Timer List.
11. **EPG** Shows the EPG (Electronic Programme Guide) in TV mode.
12. **BACK** Back to previous shown channel.
13. ▲▼ Menu Off: Change channel to previous/next. Menu On: Navigation in Menu.
14. ◀ ▶ Menu Off: Increases/decreases the volume level. Menu On: Navigation in Menu.
15. **OK** Menu Off: Displays the current channel list. Menu On: Confirm actions in Menu.
16. **MENU** Opens the main menu. In menu you will get one step back.
17. **EXIT** Exits from the menu or sub-menu. Exits any action initiated.
18. ◀◀ ▶▶ Fast rewind/Fast forward in Multimedia.
19. **USB** Shortcut to Recordings overview.
20. **FAV** Favourite group selection. Make Favourites in Menu.
21. ⏮ ⏭ Jump per page in EPG and Channel List. Previous/Next item in Multimedia.
22. **0~9** Channel selection or value input in Menu.
23. **TEXT** Shows Teletext on OSD (On Screen Display).
24. **SUB** Shows list of subtitled languages, for the current channel.
25. **COLOURED BUTTONS** For Editing in menu, Multimedia and Teletext functions. Follow on screen suggestions.

2.6 Installing the batteries

Fig. 5

Open the cover on the remote control and insert 2x AAA type batteries into the compartment. Observe correct polarity of the batteries when inserting. A terminal diagram is shown inside the compartment.

1. Remove the cover.
2. Insert the batteries.
3. Place the cover.

2.7 Using the remote control

Fig. 6

To use the remote control, point it towards the front of your receiver. The remote control supports a range of up to 5 meters distance to the receiver at an angle of up to approx. 30 degrees.

NOTE:	Managing the receiver will be limited or not possible if there are obstacles between the remote control sensor (at the front panel of the receiver) and the remote control. Direct sunlight or very bright light can reduce or disturb the reception of the remote control signals.

3.0 CONNECTION

3.1 Connecting to a terrestrial antenna

Fig. 7

To receive broadcast signal, your terrestrial indoor or outdoor antenna must be connected to the ANT IN connector on the back of the receiver. Use a properly shielded antenna cable and suitable connectors.

3.2 Connecting to TV with HDMI cable

Fig. 7

The TV set shall be connected with the receiver using a good quality HDMI 1.3 or higher cable. This connection gives the highest possible quality.

3.3 Connecting to TV with SCART cable

Fig. 7

The unit is also equipped with a SCART connector; alternatively, the TV set can be connected to the receiver using a good quality SCART cable.

3.4 Connecting to a Digital Audio Amplifier with S/PDIF

Fig. 8

By connecting your receiver to a digital amplifier or home theatre system, you can enjoy the best possible sound quality and multi-channel audio (depending on broadcast) up to Dolby Digital. Connect your Digital Audio Amplifier or home theatre system with a suitable cinch cable to the S/PDIF connector on the back of the receiver.

3.5 Connecting to a Digital Audio Amplifier and TV using HDMI

Fig. 8

By connecting your receiver to the latest digital amplifiers or home theatre systems with HDMI connections, you will enjoy the best possible sound quality and multi-channel audio (depending on broadcast), up to Dolby Digital Plus. Connect the HDMI output of the receiver to an input of your amplifier, and then connect the HDMI output of the amplifier to your TV set. Select the correct input on your amplifier to watch and listen to programmes.

3.6 Connecting a USB storage device

Fig. 9

NOTE:	We recommend the use of a hard disk drive USB 2.0 for recording and play back of TV events.

For proper functioning of Timeshift and recording functions, a fast USB device (such as a hard disk drive) is needed. Interrupted playback or a distorted picture during playback or Timeshift are indications for a low device speed. STRONG cannot guarantee proper functioning of recording and or Timeshift functions with all USB devices.

4.0 STARTING UP FOR THE FIRST TIME

If you use your receiver for the first time, the *Installation Guide* menu appears. Use ▲▼ to move the highlight to the setting you wish to change and use ◀ ▶ to change values. Start by selecting your On-Screen Language (OSD) using ◀ ▶. Once you have selected your language, press ▼ to move the highlight to *Country*. Select your country using ◀ ▶. Press **OK** to proceed.

Next options are:

Resolution	Connected by HDMI: The highest possible resolution is already negotiated automatically. But you could change it anyway. Connected by SCART: 576i is the correct value.
Aspect Mode	Connected by HDMI: 16:9 in Fullscreen is already negotiated automatically. Connected by SCART: Select the Aspect Ratio you wish to use for 16:9 transmissions on a 4:3 screen. See chapter 7.4 for explanation. Settings can be changed later on in the Menu.

Press **OK** to proceed.

Antenna Power:	Set to *On* if you use an active antenna. When set to *On*, a 5 Volt voltage will be present on the ANT IN connector of the receiver. Select *Off* for passive antennas
FTA	Select *No* to store scrambled and free to air channels or *Yes* select to store only Free-To-Air channels. Note: Scrambled channels you cannot watch with this receiver.

Once all settings are made, Press **OK** to proceed to start scanning.

The receiver will now search for all available channels. Once scanning is finished, the receiver switches to viewing mode.

NOTE:	Selecting the wrong country may result in a disorderly channel list, and missing of channels.

5.0 QUICK GUIDE TO USING YOUR RECEIVER

We at STRONG understand that you can't wait to enjoy your new high definition digital terrestrial receiver. The following quick guide will make you familiar with the basic operation of this device. We do, however, advice you to read the full manual to get the best performance from your receiver.

To turn your receiver ON or to Standby, use the ⏻ button on the remote control.

Choose the desired channel with the ▲▼ buttons. Alternatively, you can digit 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 the ◀ ▶ buttons.

6.0 OPERATION

Your new receiver is equipped with several features to make watching TV a true pleasure. This paragraph describes these features. Please also read chapter **7.0** to get familiar with the menu of your receiver.

6.1 Changing channels

Your new receiver is equipped with three ways to change channels.

- Via direct access using the **0~9** buttons.
- Via the channel list trough **OK** button.
- Via the ▲▼ keys.
- Via ⏮ ⏭ Jump per page in Channel List.

6.1.1 Direct access via 0~9 buttons

To gain direct access to a certain channel, simply input its number with the **0~9** keys on the remote control. Channel numbers can be up to four digits long. Entering a number with less than four digits is possible. Just wait a few seconds and your receiver will switch to the selected channel or press **OK** immediately after selecting the channel number.

6.1.2 Channel list

Press **OK** in viewing mode to display the Channel List. Use ▲▼ in the Channel List to highlight your channel of choice and press **OK** once to select the highlighted channel.

TIP:	Use *TV/R* to toggle between the *TV List* and *Radio List* without the channel list on screen.

Use the **COLOURED BUTTONS** for several options like finding a channels more quickly, if the list is very long, either by popup keyboard **GREEN**, by first digit **BLUE**, by type **RED** or change the order of the channel list use the **YELLOW** button. Sorting can be done Alphabetical, (A to Z, Z to A), Free to Air channels or scrambled channels first, Locked or unlocked channels first. Select Default to revert to the original list, before making changes in the channel order. Press **OK** to confirm.

6.1.3 Using the ▲▼ or ⏮ ⏭ keys

▲ switches to the next channel.

▼ switches to the previous channel.

If the channel list is on screen:

⏭ switches to the next 10 channels

⏮ switches to the previous 10 channels.

6.2 Info Banner

While watching TV you can press the **INFO** button any time to get information about the current channel and event*. Press **INFO** twice for programme information and again for some technical details about the current channel.

* Event information is displayed when available. Availability depends on broadcast.

6.3 Selection of audio language

Some channels support a choice of audio formats and/or languages. To select another audio stream, press **AUDIO** in viewing mode. A list with available audio streams will now be displayed. Use ▲▼ to select the desired stream Press **EXIT** when finished.

6.4 Teletext

Your receiver includes a fully featured Teletext. To access Teletext, press the **TEXT** button in viewing mode and use the **0~9** buttons to input the number of the page you wish to see. The coloured buttons of the remote control allow you to jump to selected pages immediately, as indicated on the bottom of the teletext screen. Use the ▲▼ buttons to select one page up or down, use ◀ ▶ buttons to select subpages, if indicated at the bottom of the screen. Press **EXIT** or **TEXT** to get back to viewing mode.

6.5 Subtitles

Some channels support a choice of subtitle languages. Press **SUBTITLE** in viewing mode to display a list of available subtitle languages. Select your subtitle of choice with ▲▼ and press **OK** to confirm. Press **EXIT** to leave without making changes.

NOTE:	Availability of Audio tracks, Teletext data and Subtitles depends on broadcast.

6.6 Timeshift

Timeshift allows you to pause live broadcasts and resume playback later. Press ❚❚/**TIMESHIFT** in viewing mode to activate this mode. The Program banner will appear and picture will pause. Press ❚❚/**TIMESHIFT** to resume time-shifted playback. A time banner will show, to indicate the time offset from live TV. Use ◀◀ ▶▶ for Fast rewind/Fast forwards. Press ■ to return to live TV.

NOTE:	Timeshift needs a connected USB storage device with sufficient free space and sufficient speed in order to work properly.

6.7 EPG (Electronic Programme Guide)

The Electronic Programme Guide is a very useful function that allows you to view event schedules and information and to mark programmes for recording. To access the EPG, press the **EPG** button in viewing mode. Use ▲▼ to select the desired channel and ◀ ▶ and then ▲▼ to select the desired event. Use the ⏮ ⏭ keys to jump quickly through the list of channels or events, to reach the next day easier. Press **GREEN** to book a desired event for viewing reminder. Press **RED** to book a desired event for recording. It is possible to change the options manually. Make sure to have an HDD device connected, to record. Use

EXIT to quit the screen EPG screen. When in normal viewing mode, use the **BLUE** button to go to the manual edit screen *Timer List* to make changes to the schedule. There, use the **BLUE** and **RED** and **OK** buttons to add, delete and edit an entry manually.

NOTE:	Availability of EPG data depends on broadcast.

NOTE:	An event can only be recorded if a suitable USB device is connected.

6.8 Instant Recording

Your new receiver allows you to make an instant recording of the programme you are watching. Simply press ● to start the recording.

During the recording a recording sign will be shown on the upper right corner of your TV screen. To stop the recording, press ■. Select *Yes* to confirm and press **OK** again to stop the recording.

* Please connect a USB storage device with sufficient free space before you start a recording.

Recordings can be quickly accessed by pressing **USB** in normal viewing mode.

7.0 MAIN MENU

The main menu gives you access to settings and multimedia functions. To access the main menu, press **MENU** in viewing mode. The main menu consists of the following sub menus: *Channel List*, *Installation*, *Language*, *AV Setting*, *Local Time Setting*, *System* and *Multimedia*. Throughout the main menu, **MENU** can be used to get back to the previous screen. Use ▲▼ ◀ ▶ to select or to change settings. Use the button suggestions at the bottom of the screen available for certain functions. For some menu items a valid Password it is necessary to access the item if a *Parental Lock* for Menu is set in the *Channel List* menu.

7.1 Channel List

TV Channel List and **Radio Channel List**

The procedures are equal for *TV Channel List* and *Radio Channel List*

Sorting channels

To change the order of the channel list use the **BLUE** button. Sorting can be done Alphabetical, (A to Z, Z to A), Free to Air channels or scrambled channels first, Locked or unlocked channels first. Select Default to revert to the original list, before making changes in the channel order.

Moving channels

Use ▲▼ to select a channel and press **OK** *LCN Modify* to select it to be moved. Enter the new position you want the channel to be on with the **0-9** buttons. After confirming with **OK** and exiting the menu, the channel is fixed on its new position.

Locking channels

To lock a channel you need the password to enter the lock function.

Locked channels can only be watched after entering the password.

Press ▲▼ to select a channel and press **GREEN** to lock or unlock it. You are asked to enter the PIN code. Locked channels will be marked with the 🔒 symbol. Locking/unlocking multiple channels in one session is possible. When all changes have been made, press **EXIT**. A Saving banner will pop up.

Delete

Use ▲▼ to highlight a channel and press **1** to mark it for deletion. More than one channel can be selected. When you have marked the channel(s) you wish to delete, press **EXIT**, a confirmation banner will be displayed. Select *Yes* to delete the marked channel or *No* to cancel.

NOTE:	Deleted channels can only be retrieved if you perform a new *Channel Search* from the *Installation* menu.

Adding channels to favourite lists

Channels from the can be added to up to 8 different favourite groups. Use ▲▼ to select a channel you wish to add to a favourite group. When the highlight is on the channel of your choice, press **FAV**. A Favourite List can be selected from the pop-up list. Use ▲▼ to select the favourite list you wish to add the channel to and press **OK**, press **EXIT** twice and confirm to finalize the process. Favourite channels will be marked with a heart symbol.

To de-select a channel from a Favourite list, repeat the above procedure, and select it again with **OK** in the Fav List pop-up list where it was stored.

Rename

Use ▲▼ to select a channel you wish to rename. Then press **2**. A pop-up keyboard will show on screen. Use ◀▶▲▼ to select characters/functions and enter them with **OK**. When you have finished editing, select **OK** to enter the changes. When all changes have been made, press **EXIT** and confirm.

Delete All

All channels can be selected for deletion with **YELLOW** button. The channels will be marked with an **X** symbol before confirming with **EXIT**. Deleted channels can only be retrieved if you perform a new channel scan in the *Channel Search* menu.

NOTE:	Deleted channels can only be retrieved if you perform a new *Channel Search* from *Installation* menu.

7.2 Options

Parental Lock	Programmes with a Parental Guidance Rating can be blocked from viewing and opened only with a Password. To setup this feature, enter your password first. Then select an age, above which the channel must be protected. Options are: *Off, Age 7 to 18*. Default is *Age 18*.
Menu Lock	If Menu Lock is set to *On*, crucial menu items are locked behind the password.
Channel Lock	If Channel Lock is set to *Off*, the lock function set in the *TV or Radio Channel List* is overruled.
New PIN-code	To set another password (PIN) than the previous one, enter a new 4-digit password first and confirm it, by entering it again at *Confirm PIN-Code*. Make a note of it.

LCN	Logical Channel Numbering. This setting, *On* or *Off*, is according to the Country or Region you have selected. The broadcaster can send a signal to fix a program on a certain channel number.

7.3 Installation

Auto Search	This menu allows you to search for channels from all available frequencies for your selected region automatically. Be aware that all previous installed channels and favourite list(s) will be deleted. The new-found channels will be installed in the channel list and afterwards you can create a new favourite list if you like. Press **OK** to start the scan.
Manual Search	Select a particular channel to do a search on just one (known) frequency. Select *Start Search* and press **OK** to start the scan. The signal quality bar might be useful to check if the frequency is indeed in use or for pointing an antenna.
Antenna Power	Set to *On* if you use an active antenna. When set to *On*, 5 V will be present at the *ANT IN* connector of the receiver. Select *Off* for passive antennas.
FTA	FTA Free to Air, Select between *Yes* which will only install Free-to-Air channels or *No* which will install all found channels, even if they are scrambled. Then select *Auto Search* or *Manual Search* to start scanning.

7.4 Language

This menu allows you to set up your language preferences.

Language:	Use ◀ ▶ to select the language for the On Screen Display (OSD).
First Audio:	Use ◀ ▶ to select the audio language you like to hear as first priority, if available.
Second Audio:	Use ◀ ▶ to select a language that will be played when the language selected at *First Audio* isn't available.
Subtitle Language:	Use ◀ ▶ to select the preferred subtitle language.
Teletext Language	Changes the character set according to the country selected.
Subtitle Type	Select the type of Subtitle, which you would prefer to see on each channel automatically. Options are: *Off, {Hard of Hearing* and *Normal*.

NOTE:	Availability of Audio tracks, Teletext data and Subtitles depends on broadcast.

7.5 AV Setting

Use this menu to match your receiver to your TV set.

The following settings are available:

Resolution	If the video quality does not appear correctly, change the setting. These settings match the most common settings for HDMI.
576i:	For analogue TVs (on Scart connection).
576p:	For digital SD TVs (some digital TVs do not support this mode).
720p:	For digital HD TVs (on HDMI connection).
1080i:	For digital HD TVs (on HDMI connection).

1080p:	For digital HD TVs (on HDMI connection).
Aspect Mode:	Select the aspect ratio that matches your TV. This is either a 4:3 or a 16:9 possibility. Select in combination the preferred conversion method how to show a 16:9 programme on a 4:3 TV, or a 4:3 programme on a 16:9 TV. The options are:
Auto	A 16:9 or a 4:3 program will be show according to the content data included in the broadcast.
4:3 Letterbox	The full 16:9 programme will be displayed on your 4:3 TV set with black bars above and below the picture
4:3 Pan Scan	A centre cut-out of the 16:9 programme will be displayed full-screen on your 4:3 TV, missing content to the left and right.
16:9 Letterbox	A 4:3 programme will be shown normally on a 16:9 screen, but with black bars to the left and right.
16:9 Pan Scan	A 4:3 programme will be shown as a centre blow up to fill the whole 16:9 screen, missing content to the left, right, top and bottom of the programme.
Video Effects	Options are: *Default*, *Vivid*, and *Standard*. Colours and Luminance can be adapted to your taste or screen
Audio Output	Audio available on the S/PDIF connector. Options are: *PCM Output*, *Force SPDIF Out*. *Bitstream Output*
PCM Output	will only forward PCM 2.0 audio format to the output. *Bitstream Output* will also forward compressed Dolby Digital 5.1 to the S/PDIF, if available. *Force SPDIF Out* will only forward audio to the S/PDIF connector, not on HDMI or SCART.
Audio Description	Audio Description can be offered by a broadcaster as a service to Visual Impaired people. The video content will be described by a narrator. When set to *On*, if the AD track is available, will be mixed automatically with the original sound.
AD Volume Offset	The volume of the AD track can be adapted to make a better mix with the original sound.
HDMI CEC	Implementation of CEC is not equally by TV manufacturers. Usually, it works good between equipment from one manufacturer. If it causes problems, select *Off*.
Video HDR Mode	Options are: *Auto* and *SDR*. If your TV screen cannot process an HDR signal, then select *SDR*. Otherwise use *Auto*.

NOTE:	Audio Description depends on the broadcaster inserting such an accompanying audio track.

7.6 Local Time Setting

Region	Select the region or country you live in. This will determine about eg. time zone, character sets and the use of LCN.
GMT Usage	The current time obtained from the broadcast will be shown here, if set to *By Region* (Default). If set to *Off* you may adapt the time and date to whatever you like. If, in rare cases, a broadcaster should omit to send a signal for Daylight saving time *Summer Time*, you can adapt the time by +1 hour, if *GMT Usage* is set to *User Define*.

7.7 System

Setup some system own features for maintenance, network and protection.

System Information — This submenu shows receiver specific information such as hardware and software version. Please have the *System Information* screen on hand when you call our hotline. The person who answers your call might ask for the information given in this screen.

Factory Setting — Reset your receiver to the default factory settings. Sometimes useful if the unit suddenly behaves in an unexpected manner, e.g. after a power failure.

Select *System* then *Factory Setting*. Enter your password. Confirm by selecting *Yes*. Note: This option will delete all your channels, Favourite lists and settings. The receiver will reboot and start with the initial *Installation* menu.

Timer List — See the booked timers list and edit if needed, use the **BLUE** and **RED** and **OK** buttons to add, delete and edit an entry manually.

Timer List can be quickly accessed (shortcut) by pressing **BLUE** in normal viewing mode.

OSD Setting — Adapt the On Screen Display (OSD) to your liking.

OSD Timeout — Sets the time in seconds for how long the program banner will be shown.

OSD Transparency — Sets the level of transparency compared to the running video content.

Switch Mode — Options are: *Black Screen* and *Video Freeze*. Sets the image when zapping between channels. Have a black screen or keep the last video frame until the next channel opens.

USB Update App All — This feature allows you to update the receiver software via the USB port. When a new software is available for your receiver, it can be downloaded from our website. Place the software file (unzipped) in the root directory of your USB storage device (HDD, memory stick etc.) and connect the device to the USB port of the receiver. First a message box will appear that a USB device is found. Then go to the *System* menu and select the *USB Update* option. At *Upgrade Mode* select *App All* and then select the correct file in the list. Select *Start* and press **OK** to start update. When ready, the unit will reboot automatically.

NOTE: Never interrupt a software upgrade. Do not unplug the USB device. Do not pull the power cord or switch the receiver off.

User DB — Load a Database previously made by the User in the *USB Backup* menu. A backup of all settings and channels can be re-loaded here if the channels or settings inadvertently got messed up. Also, to update a DB made on another receiver of same brand/type, so a setting or channel edit only needs to be performed once.

NOTE: Never interrupt a software upgrade. Do not unplug the USB device. Do not pull the power cord or switch the receiver off.

Maincode, *All Code* and *Keydata* — Only for use by the factory.

USB Backup	Only option is User DB (User Database). Connect a USB device and select *Start*, press OK to write DB to the USB device.

NOTE:	Never interrupt a Database writing. Do not unplug the USB device. Do not pull the power cord or switch the receiver off.

Auto Standby Setting

Auto Standby	As a power saving feature, the unit will switch to Standby automatically, if no command from the remote control is received for the set time. Default is 3 hours. Toggle between *Off*, *1 hour*, *2 hours* and *3 hours*
After Record	What the receiver should do after a recording. Options are: *Go to Standby* or continue *Watch TV*.

7.8 Multimedia

Multimedia

This item allows playback of different kind of files from the connected USB storage device.

Select *Music* and press **OK** to playback MP3 files from your folders. Select *Pictures* and press **OK** to view your favourite pictures in JPG format. Select *Movies* and press **OK** to enter to play several video formats. Select *Record Manager* and press **OK**, to see a list of records you have made. The unit supports USB HDD devices with FAT32 format. However, it is possible to use already on a PC formatted NTFS HDD device. Make sure your USB device is formatted correctly. Use the On-Screen button suggestions and the multimedia buttons like ▶▶, ◀◀, ■ and ❚❚ on the remote control to work inside the multimedia player. Use the **COLOURED BUTTONS** with their shown function to manage the media player. The **MEDIA** button on the remote is a shortcut to Multimedia menu.

Setup	Setup your preferences for Photo viewing. Press **BLUE** to see the options.
Slide Show Time	Time between advancing to the next photo.
Slide Show Repetition	Select *On* and photos will be shown in an automatic slide mode.
Slide Show Effect	Overflow effect to the next picture.
Movie Text Encode	For Subtitle use in the movie player, setup the feature here. Subtitles with downloaded movies can use several formats.
Record Manager	Select *Record Manager* and press **OK**, to see a list of records you have made.

Recordings can be quickly accessed by pressing **USB** in normal viewing mode.

Device Information	Some technical information is shown about the connected USB Device.
Storage Format	Some technical information is shown about the current partition or device. The use of a USB Hard Disk Drive, already formatted in a PC with FAT32 or NTFS is recommended. In the receiver you can format a USB device with FAT32 only. Select *Format* to start format. All data on a USB device will be overwritten and lost if you format the device.

WARNING:	The format function will delete all data and information from your USB device or selected partition. Manufacturer will not take any responsibility for damaged or lost data on the USB device.

If you have multiple partitions on your storage device, select the partition you would like to format and select *Format* then press **OK** to continue. A confirmation banner will now be displayed. Select **OK** to start formatting (or **EXIT** to cancel it). The format procedure will take some time, depending on the size of the used storage device. At the end of the process, the "Formatting is complete" message will appear.

Record Setting	Enter this menu item to edit following options:
Time Shift	Select *On* to use time shift. Storage space will be reserved for Time Shift, lowering the space left for recordings.
Recording Folder	If your USB device should have more than 1 partition, select the one to use for recording.
After Record	What should the receiver do after a recording. Options are: *Go to Standby* or *Watch TV*.

8.0 TROUBLESHOOTING

There may be various reasons for abnormal operation of the receiver. Check the receiver according to the procedures shown below. If the receiver does not work properly after checking it, please contact your dealer or the local Service Hotline or send email to our Support via www.strong.tv. Do NOT try to open or disassemble the receiver. It may cause a dangerous situation and warranty will be void.

Problem	Possible cause	What to do
The LED/standby indicator and LED display (if available on your receiver) are not switching on.	The power cable or power adapter is unplugged.	Check that the power cable or power adapter is plugged to the wall outlet.
	If your receiver has a main power switch: The main power switch on the rear panel is set to **OFF**	Switch the main power on.
	The electrical outlet may be damaged.	Check with another device if the electrical outlet is supplied.
No signal.	The receiver is not connected to the signal source (DVB-C) or to the antenna (terrestrial or satellite antenna).	Check the lead of the antenna or cable.
		Check that the coaxial cable is correctly fitted to the antenna input on the receiver.
	Damaged or defective connectors (IEC-connectors (DVB-T2).	Check connectors for visible damage.
	The antenna (terrestrial or satellite) is damaged.	Check the antenna for visible damage.
	Out of digital signal area.	Check with your dealer or contact your local Service.
	An active antenna requires that the antenna power/external power is switched ON.	Switch the antenna power of the receiver ON/connect an external power source.
	Wrong direction of the antenna.	Check the signal strength and quality and adjust your antenna correctly or contact your local Service.
	Multiswitch is defective or power cable or power adapter of Multiswitch is unplugged.	Check that the power cable or power adapter of Multiswitch is plugged to the wall outlet. Contact your local Service.

Problem	Possible cause	What to do
The picture and sound remain frozen, or macro blocks or similar distortion are visible on the screen.	The transmission signals are too weak or have reflections/ interference. The antenna is not properly adjusted.	Press the INFO key on the remote control 3x to call up signal bars to visually assess signal strength and signal quality (both parameters should be visible in the last third of the info bars). Contact your local Service.
No sound on TV or amplifier.	The volume of the TV is set too low. The volume of the receiver is set too low.	Increase the volume of the TV with its remote control. Increase the volume of the receiver with its remote control.
	The correct input is not selected on your TV or amplifier, or the unit is set to a higher resolution than supported by the TV.	Switch to the correct TV/amplifier input. Select lower resolution on the receiver.
	The TV, digital receiver or amplifier is not switched on.	Switch the TV/digital receiver/amplifier on.
	The TV or digital receiver is not connected to the mains.	Check the mains lead.
	Bad cable connection.	Make sure that any existing digital or analogue A/V cable connections between the used equipment (TV, digital receiver, or A/V amplifier) are properly connected.
	Audio is muted.	Press the ! button on your remote control.
	The TV power is off.	Turn the TV on.
No access to scrambled services.	The channel is scrambled. Your receiver does not support scrambled channels.	Select an alternative channel.
No response to the remote control.	The receiver is off.	Plug in and turn on the receiver.
	The remote control is not aimed correctly.	Aim the remote control at the IR sensor on the front panel of the receiver.
	The IR sensor on the front panel of the receiver is obstructed.	Avoid or remove obstructions.
	The batteries of the remote control are not inserted, wrongly inserted or exhausted.	Check whether the batteries are inserted correctly or exhausted. If exhausted, replace the batteries in the remote control. Some models have Front Panel buttons for CH+, CH- and a Power On/Off button for simple operation.

Problem	Possible cause	What to do
After moving the DVB-T2 Receiver to another room/area you are no longer able to receive digital reception.	The antenna signals are too weak.	Press INFO on the remote control to keep the signal bars on screen and adjust the Indoor antenna for maximum reception. Alternatively, do a rescan of the channels.
	The signal strength/quality might be less than before, if using an indoor antenna.	When using an active antenna, check if the antenna power setting is On.
		Try using an outdoor antenna.
The receiver switches off or to standby automatically.	The Auto Standby function is enabled and has reached the set time.	Disable Auto Standby. Refer to the user manual of your receiver for details.
Forgotten PIN code/ password.	Always make a note of the Password you have set.	Contact your local Service Hotline or send an email to our Support via www.strong.tv
Forgotten channel lock code.		Contact your local Service Hotline or send an email to our Support via www.strong.tv
Playback of video (or Timeshift) is causing picture freeze/macro blocks or similar distortion, especially on HD content.	The read/write speed of your USB device could be too low.	Make sure to use a USB storage device with sufficient speed and space. Pen drives ('USB sticks') may not support sufficient speed.
The USB storage device is not working properly.	The power consumption is too high.	Connect an extra power supply adapter to your USB HDD device.
	The USB device is formatted incorrectly.	Format the USB device on a PC to FAT32.
Recording is no longer possible.	The selected storage medium is full.	Delete existing recording(s). Attach and use another storage medium.
The receiver automatically switches off after a certain time.	The Auto Standby function is enabled.	Check the Auto Standby setting and disable if necessary.

9.0 TECHNICAL SPECIFICATIONS

Memory and System:

CPU	MT2205
Flash memory:	4 MB
SDRAM:	64 MB

Tuner

Input connector:	IEC Female
Input frequency range:	VHF: 174 ~ 230 MHz UHF: 470 ~ 862 MHz
Input signal level:	DVB-T2: -70 dBm ~ -15 dBm
Antenna power:	5 V DC, max. 50 mA, short cut protected

Demodulator

Demodulator:	Embedded in MT2205
Transmission mode:	COFDM
Guard intervals:	DVB-T2 = 1/128, 1/32, 1/16, 19/256, 1/8, 19/128, 1/4

Video Decoder

Profile level:	HEVC Main Profile@level4.1 and Main10 Profile@L4.1, MPEG-2 MP@ML/HL H.264 BP, MPEG-4 ASP Profile
Decoding to SCART:	PAL
Video resolution:	576i, 576p, 720p, 1080i, 1080p
Aspect ratio:	Auto, 4:3 Letterbox, 4:3 Pan & Scan, 16:9 Pan & Scan

Audio Decoder

Audio support:	MPEG-1/2 Layer I/II/III, DOLBY AC3/AC3+(optional 1), DRA 2 CH/5.1 CH (optional 1)
Sampling rate:	32, 44.1, 48 KHz
Audio mode:	Stereo, Mono L/R

* Dolby, Dolby Audio and the double-D symbol are trademarks of Dolby Laboratories.

Multimedia

Video playback:	AVI, MKV, MP4, M2TS, F4V, 3GP, MOV, FLV*
Audio playback:	MP3, WAV
Picture view:	JPG, PNG, GIF, BMP*

* STRONG cannot guarantee the playback of all files although extensions are listed, as it depends on codec, data bit rate and resolution used (all MPEG codec formats are supported).

Connectors

ANT IN - IEC Female
HDMI
TV SCART (CVBS, Audio L/R)
S/PDIF (Coaxial)
Power adapter
USB 2.0 port: 5 V/500 mA (max.) supported

General Data

Input voltage:	100 - 240 V ~ 50/60 Hz
Power consumption:	12 W (max)
Power consumption in standby:	<0.5 W
Operating temperature:	0 °C ~ +40 °C
Storage temperature:	-10 °C ~ +50 °C
Operating humidity range:	10~85%, RH, non-condensing
Size (WxDxH) in mm:	150 x 90 x 30
Weight:	0.22 kg