STRONG

DIGITAL TERRESTRIAL 4K ULTRA HD RECEIVER

SRT 8250

Subject to modifications

Installation Instructions

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SIMPLIFIED EU DECLARATION OF CONFORMITY

Hereby, STRONG declares that the equipment type SRT 8250 are 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-eu.com/downloads/
Frequency band: 114-862MHz
Antenna power: 5V=, 50mA.
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1.INTRODUCTION

Thank you for choosing the Digital Terrestrial 4K Ultra HD Receiver supplied by STRONG. It has been produced with the latest new technology and offers extensive entertainment and great versatility. We wish you many hours of new great experiences exploring the entertainment world!

1.1 Safety Instructions

DO NOT INSTALL YOUR RECEIVER:

■ In a closed or poorly ventilated cabinet; directly on top of or under any other equipment; on a surface which might obstruct the ventilation slots.

DO NOT EXPOSE THE RECEIVER OR ITS ACCESSORIES:

■ To direct sunlight or any other equipment that generates heat; to rain or intense moisture; to intense vibration and to any shock which may cause permanent damage to your receiver or to any magnetic objects, such as loudspeakers, transformers, etc.
■ Do not use a damaged power cord. It may cause a fire or an electric shock. Do not touch a power cord with wet hands. It may cause an electric shock.
■ When the receiver is not used for a long period of time, you should unplug the power cord from the wall socket.
■ Do not use alcohol or ammonia-based liquids to clean the receiver. If you wish, you may clean your receiver with a soft lint-free cloth slightly made damp with a mild soap solution, and only after disconnecting from the mains voltage supply. Make sure no foreign objects fall through the ventilation slots because this could cause fire or an electric shock.
■ Do not place any objects on top of the receiver because this might prevent proper cooling of the components inside.

SAFETY PRECAUTIONS

■ Never try to open the receiver. It is dangerous to touch the inside of the receiver due to high voltages and possible electrical hazards. Opening the receiver 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 receiver is disconnected from the mains supply voltage. Wait a few seconds after switching off the receiver before you move the receiver 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 receiver.

If the receiver does not operate normally even after strictly following the instructions in this user manual, it is recommended to consult your dealer.

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 receiver and its accessories are stored and delivered in a packaging designed to protect against mechanical shocks and moisture. When unpacking it, make sure that all the parts are included and keep the packaging away from children. When transporting the receiver from one place to another or if you are returning it under warranty conditions, make sure to repack the receiver in its original packaging with its accessories. Failing to comply with such packaging procedures could damage the product and void your warranty.

Equipment Set-up

Please follow the instructions below:

This user manual provides complete instructions for installing and using this product. The symbols will 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 product.
Move to Represents a menu item within a window.

1.3 Package content

1x Receiver SRT8250
1x 2 in 1 Remote control Unit
2x AAA Batteries
1x User Manual
1x Safety and Warranty Instructions

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 (e.g. NiMH), we recommend using types with low self-discharge to ensure long time operation of your Remote control.

1.4 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, multimedia, functions of the receiver might not work properly.
- If you are going to use an external USB HDD (Hard Disk Drive), please consider that the power specifications may 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.
- STRONG cannot guarantee the playback of all files although extensions are listed, as it depends on file size, codec, bit rate and resolution.
- Please ensure that either the USB device is already formatted to FAT/FAT32, or format the USB device via your receiver, refer to chapter 7 for details.

2. TV BOX PANELS

2.1 Front Panel

Fig. 1

1. Status Led   Red: Standby-mode, Running-mode not lit.
2. Reception indicator   Present when locked to signal.
3. 4-digid Led display   Program number in Running-mode, Time in Standby-mode
4. CH-/CH+:   To change channels without using the Remote control.
5. Power button: Switch the receiver to Standby or On.
6. USB port: For Media playback, Recording and Time shift.
7. IR sensor (hidden)   To receive commands from the Remote control

2.2 Rear Panel

Fig. 2

1.	ANT IN	To connect to your antenna for the reception of broadcast signal.
2.	S/PDIF (coaxial)	To connect to a digital or home cinema audio amplifier.
3.	HDMI	To connect your receiver with your TV set or Dolby Digital amplifier using a HDMI cable.

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4. TV SCART   To connect to TV using a SCART cable.
5. DC IN   Connect the supplied Power supply unit to the input.

2.3 Remote control

Fig. 3
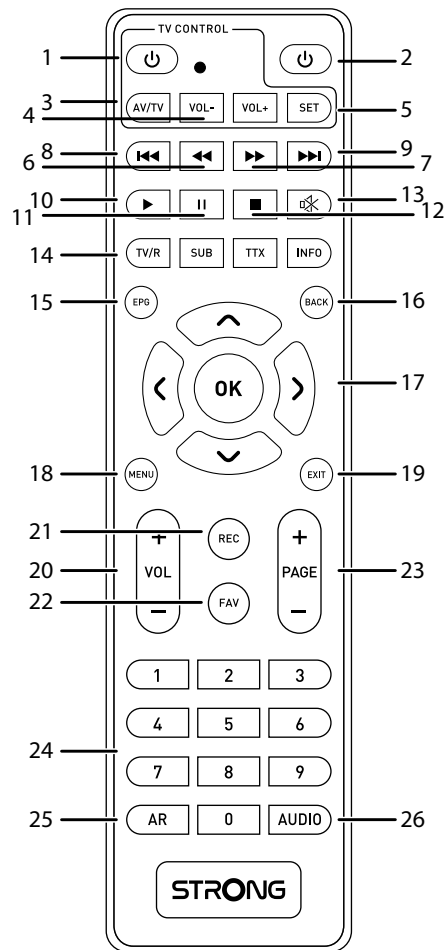
1. ⏻   Programmable button: Press to turn the TV to On/Standby.
2. ⏻   Press to turn the receiver to On/Standby.
3. **AV/TV**   Programmable button: To program specific TV commands onto our box RCU for easier access control of input sources or other functions.
4. **VOL +/-**   Programmable buttons: Adjust the volume up or down of the TV.
5. **SET**   Used to program the programable buttons.
6. ◀◀   Searches backwards during playback in Multimedia. Each pressing increases the speed (x2 – x24).
7. ▶▶   Searches forwards during playback in Multimedia. Each pressing increases the speed (x2 – x24).
8. ◀◀◀   For Media Player: Jumps backward during playback.
9. ▶▶▶   For Media Player: Jumps forward during playback.
10. ▶   Play/Starts/Resumes the playback. Media Player resumes/paused Time shift.
11. ‖   Pause/Frame Steps the playback. Media Player starts and frame steps Time shift.
12. ■   Stops playback of multimedia files.
13. 🔇   Press to mute or restore the volume of the receiver.
14. **TV (RED)** Toggles between TV and Radio mode.
14. **SUB**   Subtitles selection (if available on the current channel)
14. **TTX**   To open Teletext (if available on the current channel)
14. **INFO**   Display information about the current channel.
15. **EPG**   Shortcut to the Electronic Programme Guide. (If available on the current channel)
16. **BACK**   To switch between the last viewed channels.
17. ▲ ▼ ◀▶ **OK** Navigate the menu. Confirm the selection.
18. **MENU**   To open the main menu in viewing mode or to go one step back in the menu. Close menu.
19. **EXIT**   Cancellation of current process/one step back in menu/exit from main menu to viewing mode.
20. **VOL** +/- Adjust the volume up or down.

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21. **REC**	Records the TV programme to the connected storage device.
22. **FAV**	To access your favourite channels.
23. **PAGE** +/-	Jumps per page in lists.
24. **0 TO 9**	Choose channel number directly (more than 1 digit possible).
25. **AR**	Pressing repeatedly toggles through the possible Aspect Ratios (Auto, 16:9 and 4:3).
26. **AUDIO**	Shows list of Audio tracks, for the current channel.

2.4 Installing the batteries

Fig. 4
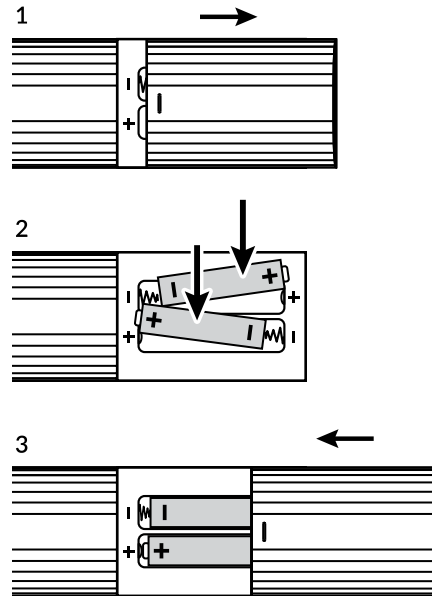
Open the cover on the Remote control and insert 2x AAA batteries into the compartment. The correct position of batteries polar diagram is shown inside the batteries compartment.
1. Open the cover.   2. Insert the batteries.   3. Close the lid.

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

2.5 Programming the programmable buttons to use with your TV.

There are 4 programmable buttons at the top of the Remote control, marked with a white box, named TV control. The **Set** button is used to program the other four.
1. Have the unit's Remote control and the one from the TV lined opposite of each other, e.g. on a table. The IR sensors should be pointing at each other, at about 3 - 5 cm distance.
2. Press **Set** on the unit's Remote control, a Red LED lights up faintly, hold **Set** until LED lights up brightly. Release **Set**. The Remote control is now in programming mode.
3.   Press the programmable button on the unit's Remote control which you want to program shortly. (Example **On/Off**, Blue). The LED will start flashing slowly.
4. Now press on the TV's Remote control the corresponding **On/Off** button until the LED flashes quickly to confirm command has been taken.
5. To program the other programmable buttons, repeat steps 3 and 4.
6. To exit the procedure at the end of programming, or at any moment, press **Set** shortly. The Red LED switches off.
7. Test the programmed buttons on your TV, if a button fails, try the program procedure again (for that button).

NOTE: It cannot be guaranteed that it works with every TV remote or/and every button.

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3. CONNECTION GUIDE

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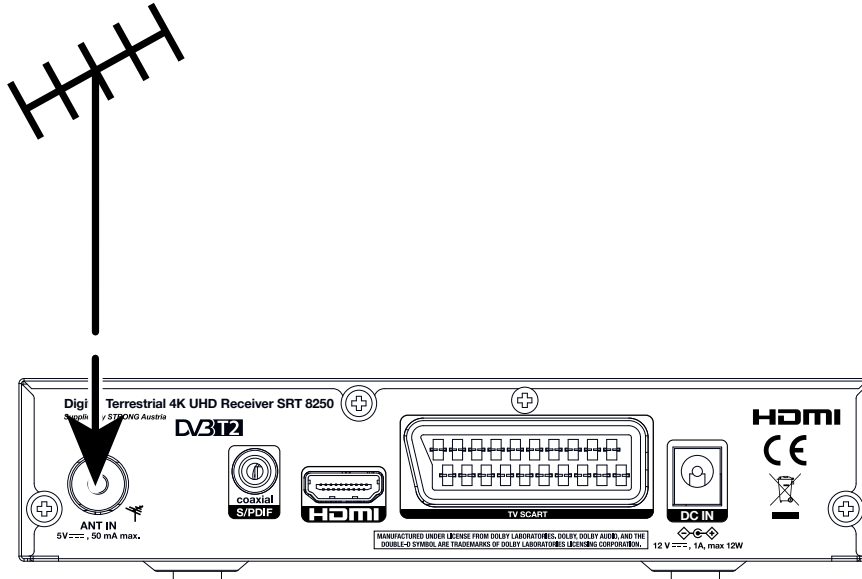
To receive broadcast signal, your terrestrial indoor or outdoor antenna must be connected to the ANT IN connector on the back of the receiver. Use a properly shielded antenna cable and suitable IEC connectors.

3.2 Connecting to TV with HDMI cable

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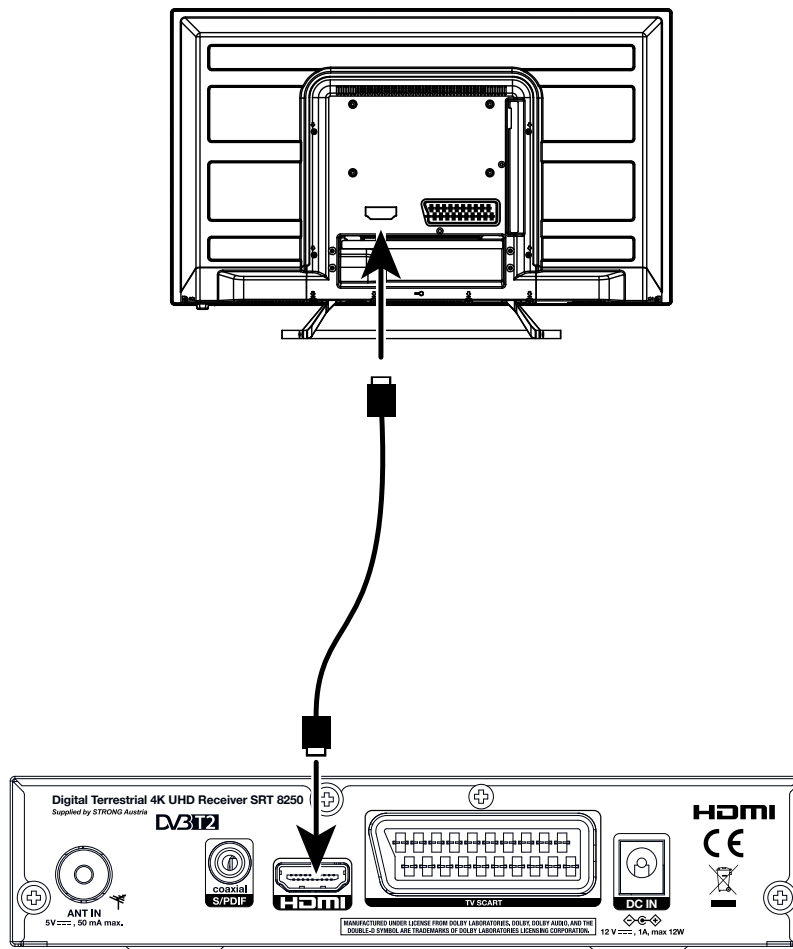
- Connect the SRT 8250 digital receiver to your television via the HDMI Cable.
- Connect the TV Receiver to power using the power adapter provided. You can then power on your device and begin.

3.3 Optional: connecting to TV using a TV SCART cable

Fig. 6b
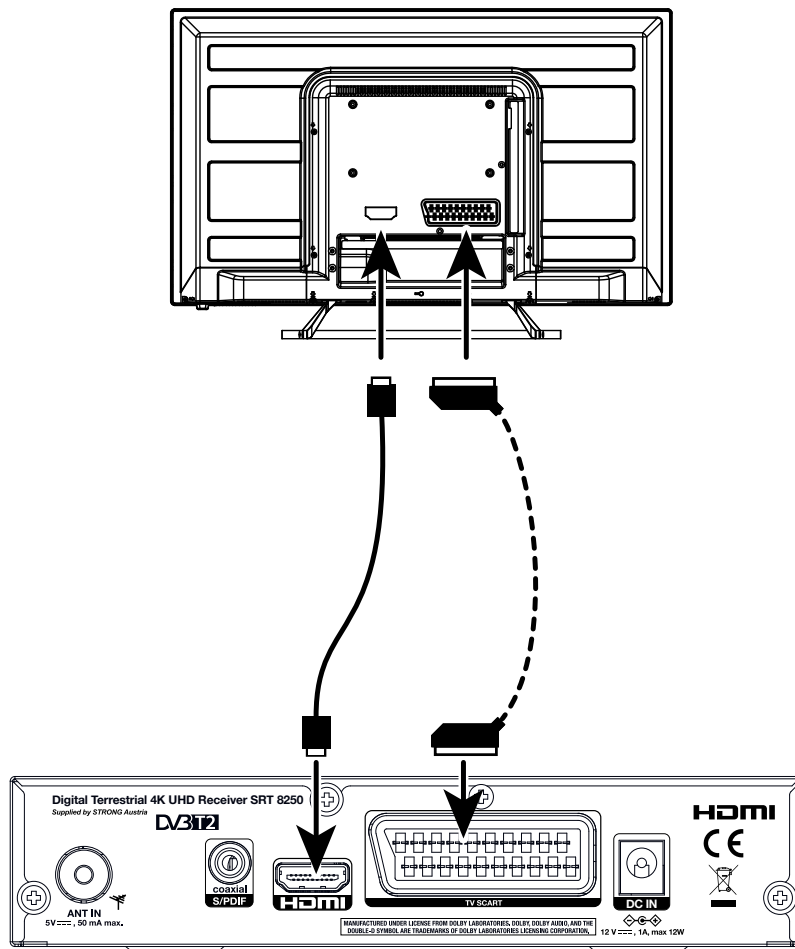
- Have the terrestrial antenna signal connected as described before.
- Connect one end of a good quality SCART cable to the TV SCART connector on your receiver and the other end to the SCART input of your TV.
- Connect the supplied power adapter to the receiver at the power supply input. Then plug the power adapter to a suitable wall outlet.

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3.4 Connecting to digital audio amplifier with S/PDIF

Fig. 7

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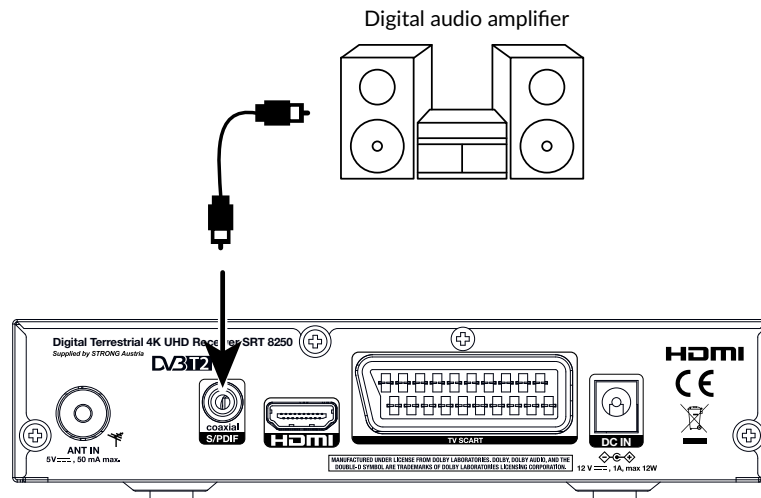
By connecting your receiver to a digital amplifier or home theatre system, you can enjoy the better sound quality and multi-channel audio (depending on broadcast) up to Dolby Digital Audio. Connect your Digital Audio Amplifier or home theatre system with a suitable cinch cable to the S/PDIF connector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

3.5 Connecting to a Digital Audio Amplifier and TV using HDMI

Fig. 8

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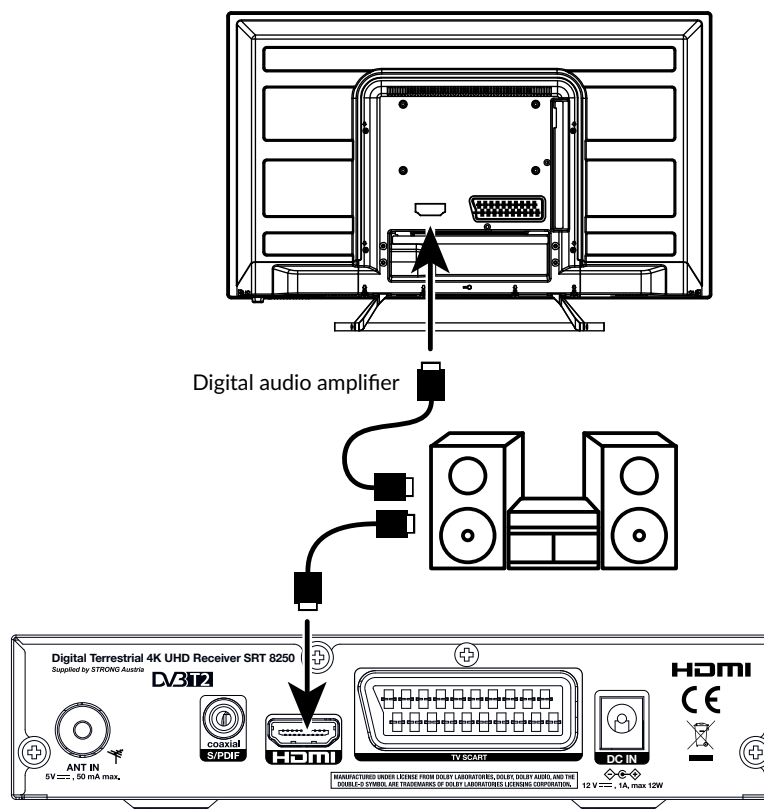
By connecting your receiver to the latest digital amplifiers or home theatre systems with HDMI connections, you will enjoy the best possible sound quality and multi-channel audio (depending on broadcast), up to Dolby Digital Plus. Connect the HDMI output of the receiver to an input of your amplifier,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

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3.6 Connecting a USB storage device

NOTE:	We recommend the use of a hard disk drive USB 2.0 or higher for recording and play back of TV events.
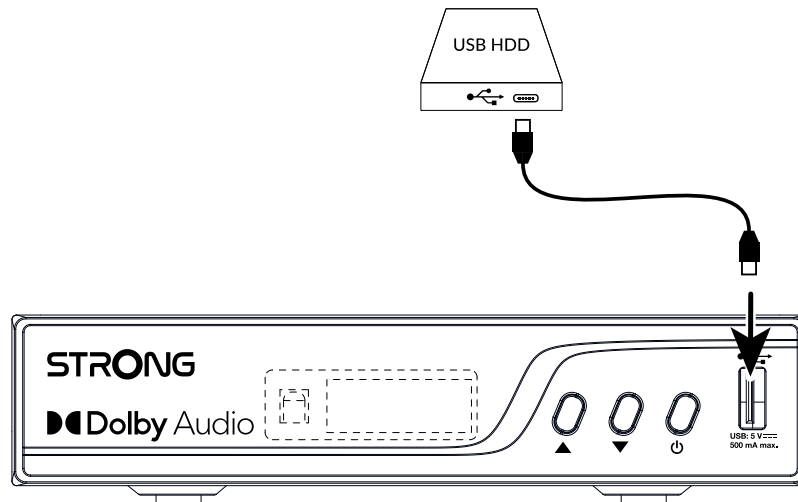
For proper functioning of Time shift and recording functions, a fast USB device (such as a hard disk drive) is needed. Interrupted playback or a distorted picture during playback or Time shift are indications for a low device speed. STRONG cannot guarantee proper functioning of recording and or Time shift functions with all USB devices.
Connect a suitable HDD device to the USB-A connector on the front panel of the receiver.

3.7 Connect the power supply to the unit.
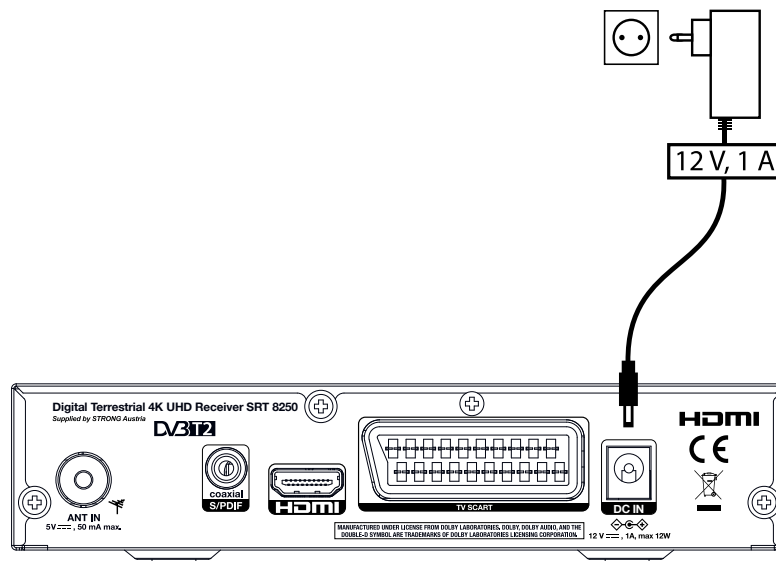
Make all other connection needed first, then connect the included power supply to the 12V power socket on the back panel and subsequently to a wall power outlet in your room.

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4. FIRST TIME INSTALLATION

After all connections have been made properly, switch on your TV and make sure the receiver is connected to the main power. If you are using the receiver for the first time or restored to factory default, the *Welcome page* will appear on your TV screen. Use ◄► to select your *Region* or Country. With ▲▼ select *Language*, then ◄► to select the *Language* of your preference. Set the other options as are appropriate for your situation. This receiver can only decode FTA channels. Selecting *Channel Search* and press **OK** will start off the search for programmes. After the automatic search is finished the receiver will show the first channel in the list.

Display Mode	Video Resolution, This should correspond to the highest value your TV can display. If you change to a resolution your TV can not handle, you may end up with a black screen. Press **OK** to fall back to the last mode.
Aspect Mode	Auto, 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.
Antenna Power:	Set to *On* if you use an active antenna with built-in amplifier. When set to *On*, a 5 Volt voltage will be present on the ANT IN connector of the receiver. Select *Off* for passive antennas. When in doubt, refer to the user manual of your antenna.
OK	After all settings are done, select *OK* and press **OK** on the remote. A full scan will be made and found channels will be stored in the channel list. Wait until the first programme is shown. Default, only FTA (Free to Air) channels will be stored.

NOTE:	Installers or advanced users may press **MENU** while in the *Welcome page* and perform (search) options from the main menu immediately.

NOTE:	If no channels were found during the automatic channel scan, the receiver will return to *Welcome page* menu. Check your cabling and connection to the antenna. If confirmed use the advanced search options from the main menu by pressing **MENU** while in *Welcome page*.

5. QUICK GUIDE FOR USING YOUR 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 UHD receiver.

To turn your receiver ON or to Standby, press ⏻ on the Remote control. Choose channels with ▲▼. 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 ◄►.

6. OPERATION

In viewing mode, several features are available to make watching TV a true pleasure. This paragraph describes these features in short. Please also read chapter **7** to get more familiar with the menu of your new receiver with an in-depth explanation of each menu item.

6.1 Changing channels

There are different ways to change channels with your new receiver.
- Via direct access
- Via the channel list
- Via the ▲▼ buttons
- Via the **BACK** button
- Via the **CH+/CH-** buttons on the front panel.

While the channel list is on screen:
- **PAGE UP** switches to the next 10 channels
- **PAGE DOWN** switches to the previous 10 channels.

6.1.1 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 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, after entering the number, press **OK** to speed up.

6.1.2 Channel list

Press **OK** in viewing mode to display the *Channel List*. Use ▲ ▼ to highlight your channel of choice and press **OK** once to select the highlighted channel. The channel list is equipped with a *Find* function to make it easier to find channels. While in the channel list, press **BLUE** and an alphabet banner will be displayed. Use ▲ ▼ ◄► to select the first letter (or letters) of your channel of choice and select **OK** to confirm and press **EXIT**. All channels beginning with the chosen letter(s) will now be displayed. Select the channel in the filtered list.

6.1.3 Using the ▲ ▼ buttons

▲ will switch to a higher channel.
▼ will switch a lower channel.

6.1.4 Using the BACK button

Use the **BACK** button for switching between the previously viewed channel.

6.2 Info Banner

At any time during viewing mode you can press the **INFO** button to get information about the current channel as well as the current and following programme*. Press info again to view more information about the current programme. Press **INFO** for a third time to view technical details about reception of the current channel. Press **INFO** again or **EXIT** to close the information. You can change the on-screen duration of the info banner in the **OSD Setting** menu.

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

6.3 Selection of audio language

Some channels support a choice of different 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 a stream and confirm with **OK**. With the ◄ ► buttons you can choose between *Mono, Left, Right* or *Stereo*. Default is *Stereo*.

6.4 Teletext

Your receiver includes a fully featured Teletext. To access Teletext, press the **TTX** button in viewing mode and use the **0~9** or ▲ ▼ buttons to select the number of the page you wish to see. Subpages (if loaded and available) can be selected with the ◄► buttons. Keeping subpages *Auto* will let the subpages rotate automatically. The coloured buttons of the Remote control allows you to jump to suggested pages directly, as indicated on the bottom of the teletext screen. Press **EXIT** to go back to viewing mode.

6.5 Subtitles

Some programmes support a choice of different types of subtitles. Press the **SUBTITLE** button in viewing mode to display a list of available subtitles. Use ▲ ▼ to select a subtitle type and confirm with **OK.**

6.6 EPG (Electronic Programme Guide)

In the Main Menu, select EPG or, in normal viewing mode, press the **EPG** button to enter to the EPG screen. Please refer to chapter **7** for details.

NOTE:	To see all EPG information, be sure you are in the *All* channels list.

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

6.7 Favourite channels

Use the **FAV** button to access your favourite channels and use ▲ ▼ to change between available favourite groups. Please refer to chapter **7** for details on how to create favourite lists first.

6.8 Time shift

Time shift allows you to pause live broadcasts and resume playback later. Press ıı in viewing mode to activate this mode. The Programme banner will appear and picture will pause. Press ► to resume time-shifted playback. A time banner will show shortly, to indicate the time offset from live TV. Press ıı repeatedly to initiate frame steps, ◄◄ and ►►ı for Fast rewind/Fast forwards. Press ■ to return to live TV.

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

6.9 PVR, Instant recording*

To directly record a program, press the **REC** button to start the recording, a **REC** icon will show in the top-right corner of the screen. Press ■ and confirm to quit. During a recording it is possible to press the ▲ ▾ buttons or the **OK** and ▲ ▾ buttons to change to another channel on the same transponder only. It is not possible to use the **0-9** buttons. When you press **OK**, you can see a list with the channels in one transponder, which can also be watched, while recording. The channel being recorded is identified by a **REC** icon in its programme banner. Only one program at a time can be recorded. Recordings are stored in the *Media Player PVR* section.

NOTE:	Please connect a USB storage device with sufficient free space and speed before you start a recording.

6.10 TV/R button.

Use **TV/R** to toggle between the *All TV* and *All Radio* lists.

6.11 AR button

With the button **AR** on the remote you can change the *Aspect Ratio*. Default is *Auto*.

7. MAIN MENU

The main menu gives you access to settings and multimedia functions. To access the main menu, press **MENU** in viewing mode. Press **MENU** or **EXIT** to leave the main menu page. The main menu consists of the following 6-tile menus: *Edit Channels, Installation, System Setup, Tools, EPG and Media Player*. Use ▲ ▾ ◄► **OK** throughout the menu to make selections and changes.

7.1 Edit Channel Menu

TV Channel List and *Radio Channel List*
The procedure in the *Edit Channel* menus is equal for both the TV and Radio Channel List.
The description below assumes you're in the *TV Channel List*.
To edit your TV programme preferences (move, skip, lock, delete, sort, favourite or rename), please go to the *TV Channel List* menu. Use ▲ ▾ to highlight a channel in the *All TV* list, or ◄► to select a *Favourite* list to edit. Press **EXIT** repeatedly to leave the menu.

Set favourite programme

Your receiver allows you to store channels in up to 8 favourite lists. Due to sometimes large number of channels available nowadays, this can be a very useful function.
1. Highlight the preferred programme, then press the **FAV** button, then **OK.** A *Favourite* list will pop up on screen with 8 possibilities. Please select one and press **OK,** repeat for adding the channel to more than one *Favourite* list. A heart shaped symbol will appear and the programme is marked as a favourite. Press **EXIT** to return to the channel list for further selection.
2. Repeat the previous steps to select more favourite programmes.
3. To confirm and exit the menu, press **EXIT** twice.

Disable favourite TV

Repeat step 1 described above and deselect the channel in its Favourite List. Save upon Exit.

View favourite programme

1. In normal viewing mode (no menu mode) press the **FAV** button to display a list of favourite programmes. In the favourite list, use ◄► to switch between available favourite lists.
2. Select your favourite programme by ▲ ▾ and press **OK** to switch to it.
3. Now in viewing mode you can select channels from the chosen favourite group only by pressing ▲ ▾ . If you want to change to the main channel list, press **OK** in viewing mode and then press ◄► and select *All TV.*

Delete a TV or radio programme

1. To delete a programme in the *TV Channel List* menu press the **BLUE** button. A new window opens with options: *Sort, Edit, Delete.*
2. Select the programme you want to delete and press the **BLUE** button. Press **OK**. A Cross sign will appear behind the channel selected for deletion. Press **EXIT** twice to and select *Yes* to confirm or select *No* to cancel.
3. More than one channel can be deleted in one go.

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Skip TV programme

1. Select the programme you want to skip and press the **GREEN** button.
2. Press **OK** to mark the programme to skip. The receiver will skip this programme while zapping between programmes in normal viewing mode (in channel list mode the skipped channels remain selectable).
3. Repeat the previous step to skip more programmes.
4. To confirm and exit the menu, press **EXIT** several times.

Disable skipping a TV programme

Press the **GREEN** button and select the programme marked with the skip symbol, then use **OK** to unmark it. Confirm upon exit.

Move a TV programme

1. Select the programme you want to move, then press the **YELLOW** button and press **OK** to mark the selected programme. A move symbol will appear.
2. Press ▲ ▼ to move the programme to another position in the list.
3. Press **OK** again to confirm the new position.
4. Repeat the above steps to move more channels.
5. Confirm upon exit.

Locking programmes

You can lock selected programmes for restricted view.
1. Select the programme you want to lock, then press the **RED** button and press **OK.** Enter your password. (Default 1234). The programme is now marked as locked.
2. Select more programmes and press **OK** to lock more than one in one go.
3. To confirm and exit the menu, press **EXIT** several times.
To view the locked programme, in normal viewing mode, you need to enter either the default password 1234 or your last set password.

Disable a locked TV programme

Select the programme to unlock. Press the **RED** button and **OK.** Enter your password again to remove the lock symbol. To store the changes and exit the menu, press **EXIT** several times. Confirm on exit.

Sort a TV programme list

1. Press the **BLUE** *Edit* button and select the list you want to sort with the ◄► buttons.
2. Press **RED** *Sort* and select the option in which order the list should be sorted.
Options are:
Name A-Z   Sort on alphabetical order, beginning with A.
Name Z-A   Sort on alphabetical order, beginning with Z.
Free/Scrambled   Sort on type of channel, Free to Air first in list or scrambled channels first.
Lock   Put the locked channels first in the list.
Default   Restore to the original list from before using one of the other options.

Rename a TV programme

1. Select the programme you want to rename and press **BLUE** to enter the Edit section. Then use **GREEN** and then select the programme you want rename. A pop-up appears.
2. In the pop-up select a character by using the ◄► buttons. Use the *numeric* buttons to enter numbers. When you have entered the new name press **BLUE** (OK) on the Remote control to confirm the new name. Delete characters with **RED** (DEL).
3. To confirm the changes and exit the menu, press **EXIT** several times.

Delete All channels

To delete all stored channels, select the *Delete All* function. Press **OK** and enter your password. (default 1234). Then confirm.

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7.2 Installation menu

Use ▲▼◄► to select the Installation menu and press **OK** to advance.

Auto Scan (Full Scan)

Use ▲▼ to select *Auto Scan* and press **OK** to enter.
On *Search* press **OK**. Confirm deleting all previously stored channels if you want to proceed with the scan. The *Auto Scan* may take a few minutes to complete. You may interrupt it by pressing **EXIT.**

Channel Scan

Use ▲▼ to select *Channel Scan* and press **OK** to enter.
Use ◄► to toggle between available scan modes: *By Channel and By Frequency*.
If *By Channel* is selected, use the cursor buttons to select *Scan Band and Channel No*. If *By Frequency* is selected, use the numeric buttons to enter *Frequency* (6 digits) and Bandwidth. Highlight *Search* and press **OK** to start scanning. New found channels will be added to the channel list.
The *Signal Intensity* and *Signal Quality* bars can be used to confirm locking on to a frequency, and to align the antenna for best possible signal level.

LCN (Logical Channel Numbering)

If *LCN* (Logical Channel Numbering) is activated and an LCN signal is provided by the operator, channels will be stored in an operator defined order. Set *LCN to On* to activate operator defined channel numbering or *Off* to store channels in found order. This function only applies when a new channel search is performed.

Antenna Power

This setting is important when an indoor or outdoor antenna is used with a built-in signal amplifier. When in doubt, refer to user manual of the antenna.
Use ▲▼ to select Antenna Power and press **OK** to enter.
Set to *On* if you use an active antenna.
Select *Off* for passive antennas.
When set to *On*, a 5V voltage will be present on the ANT IN connector of the receiver to feed the antenna amplifier through the coaxial cable.

FTA Only (Free-to-Air channels)

This setting is default set to *On*, because only Free-to-Air channels can be opened by this receiver.
However, you can scan for subscription channels and store them in the list, but not watch them, when *Off* is selected.

7.3 System Setup menu.

Use ▲▼◄► to select the *System Setup* menu and press **OK** to advance.
This menu allows you to manage the system settings of your receiver. It consists of the following sub-menus: *Language, TV System, Display Setting, Local Time Setting, Timer Setting, Parental Lock, OSD Setting, Audio Description Setting, PVR Storage Information, PVR Setting, Auto Standby* and *Play Setting*.
Press ▲▼ to highlight the menu item of choice and press **OK** advance to the next screen. Use ▲▼ to move the highlight to the setting of choice. Values can be changed with ◄► . Press **EXIT** to leave.

Language

This menu allows you to set up your language preferences.
Language: Use ◄► to select the language used for the Main Menu
First Audio: Use ◄► to select Audio language.
Second Audio: Use ◄► to select a language that will be played when the language selected at *First Audio* isn't available.
Teletext: Use ◄► to select the preferred Teletext language (when available).
Press **EXIT** to leave.

NOTE:	First *Audio* and *Teletext* will follow the Main Menu language selected, but can separately been changed too.

TV System

Use this menu to match your receiver to your TV set. The following settings are available:
Video Resolution: Use this option to select the video resolution of your TV screen. Options are: *By Source* (automatic detection of video resolution offered to the receiver and manual selections *480i/p, 576i/p up to 4K2K_60* Please use the setting that matches your TV's specifications. After a selection is made, you will be asked to confirm. Selection above 576i is only applicable on HDMI output. The SCART connector will always put 576i out.

NOTE:	A too high resolution set may result in a black screen. If after a few seconds, no normal picture should appear, press EXIT to restore the previous setting. When in doubt, refer to the user manual of your TV.

Aspect Mode : Use this option to select the aspect ratio of your TV and the preferred conversion method. The options are: *Auto* (automatic detection of aspect ratio), *4:3 PS* (Displays 16:9 widescreen broadcasts full screen on your 4:3 TV), *4:3LB* (black bars on top and under the picture on a 4:3 TV) and *16:9* (use this setting or keep *Auto* for 16:9 TV sets). With the button **AR** on the remote you can change the *Aspect Ratio* directly. Default is *Auto.*

Digital Audio
Output: Toggles between *LPCM* and *BS* (Bitstream) output. When *LPCM* is selected, all digital audio will be converted to digital stereo audio. *Bitstream* enables you to transfer Dolby Digital/Dolby Digital Plus audio to the TV via HDMI or to a Home entertainment system. S/PDIF can only provide up to Dolby Digital audio.

HDMI deep color If the broadcast contains deep colour information it will be used when set to *Auto*. When set so *Normal* the information is ignored. Best kept to default *Auto*.

HDR If the broadcast contains HDR information it will be used when set to *Auto*. When set so *None* the information is ignored. Best kept to default *Auto*.

Display Setting If needed, these settings can be altered if needed: *Brightness, Contrast, Saturation, Hue* and *Sharpness.* It would be the same as changing these settings on your TV. Default is 50%.

Local Time Setting

Here you can set up your region and time zone. Correct Time and Date are usually kept by your broadcaster. Therefore, best kept on *By Region.*

Region: Use ◄► to select the region you live in.

GMT Usage: Set to *By Region* for broadcaster defined time, *User Define* to select manual a GMT zone or to *Off* to input time and date manually.

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 "-11:30 ~ +12:00", increasing by half hours progressively. Cities matching the set *GMT Offset* are displayed at the bottom of the screen.

Date and *Time* *Date* and *Time* settings are available only when *GMT Usage* is set to *Off.* Use the **0~9** buttons to enter the date and time. Press **EXIT** to proceed.

Time Display Select *On* to display time on screen, *Off* to remove.

Timer Setting

This menu allows you to manually set up to 8 timed events for recording or waking up the receiver. Timers set through the EPG will already be in the list and can be edited here. Use ▲▼ to select *Timer Setting* from the *System Setup* menu and press **OK** to enter. The receiver will display a list with 8 timers, followed by their respective status. Select the timer you wish to set or change with ▲▼ and press **OK** to proceed.
The timer setup menu will now be displayed. The following settings are available:

Timer Mode: Choose between *Off* (Timer inactive), *Once, Daily* (Timer will be executed every day, same time) or *Weekly* (Timer will be executed every week, same day, same time).

Timer Service: Choose between *Channel* (Timer will only wake up the receiver) or *Record* (Timer will start to record the scheduled event).

Wakeup Channel: Use ◄► to select the channel the timer will wake up with or to make the recording.

Wakeup Date: Use the **0~9** buttons to enter the date for the timed event.

On Time: Use the **0~9** buttons to enter the start time.

Duration: Use the **0~9** 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, move the highlight to *Cancel* and press **OK.**

Parental Lock

This menu allows you to protect the installation menu and/or channels with a Password code. You can also enter a new Password code in the *Parental Lock* menu.
Use ▲▼ to select *Parental Lock* from the *System Setup* menu and press **OK** to proceed. You will be asked to enter your PIN code. (Default Password: 1234)

Menu Lock: Locks the installation menu. You can set *Menu Lock* to *On* or *Off.*

Parental Rating: Choose between: *Off, Age 10* and up to *Age 18*. Channels with a parental rating above the chosen age will be protected with a Password code (if available in your local broadcast).

New Password: Enter your new Password code (4 digits) here.

Confirm Password: Re-enter your Password here to confirm. Press **OK** to leave. Make a note of it.

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OSD Setting

This menu allows you to change settings for: *OSD Timeout and OSD Transparency.*
OSD Timeout: Sets the time after which on screen banners and messages disappear. The range is *1~10* seconds or *Always On.*
OSD Transparency: To set the OSD transparency from *Off ~ 40%* with 10% steps.
Load Default
OSD Setting: Press **OK** to clear the OSD settings and reset to default values.

Audio Description setting

AD. For the visually impaired, a narrator can describe the actions happening on screen with a dedicated additional audio track, mixed with the original audio track. This service is provided by some broadcasters and is therefore subject to availability.
AD Service   Select *On* if you wish to use the service by default on all channels which may carry an AD track until you power down.
Use AD as default   Select On if you wish to use the service by default on all channels which may carry an AD track.
AD Volume Offset   Set the balance of volume the AD audio track will have, mixed with the original audio track.

PVR Storage Information

This menu item can only be accessed when a suitable USB device is connected.
Find technical details about your USB device, like *Total Size, Free Size, Record Size, Time Shift Size* and *File System*. Use **YELLOW** (Format) button to format your device in FAT (FAT32). Use **BLUE** (DVR Set) to set the options for recording (REC) and Time shift (TMS). Options are REC+TMS, Record only or Time shift only.
Format* A (new) USB device must have been formatted before the first use. The correct format for the receiver is FAT(32). If it is already formatted on a PC in FAT32, it may work also.

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

An attention 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 "Wait" pop-up will disappear. Press **EXIT** to exit the menu.

PVR Setting

This item can only be accessed when a suitable USB device is connected.Select the options for Time shift and recording.
Timeshift   Time shift can be disabled here also if needed.
Timeshift to Record If Time shift was activated, but you decide not to continue watching at this moment, then press **REC** to instant record the rest of the programme. If this option is set to *On*, the already time shifted part of the programme will be added upfront of the recording, to view later in one go.
                       If set to *Off,* the above will not happen, a record of a channel will only be saved from the moment you start the record manually.
After Recording   What should happen after a recording finishes? Select between *Go to Standby-mode* and continue to *Watch TV.*

Auto Standby
This feature is implemented for power saving. The receiver will turn to Standby automatically if no command from the remote or front panel buttons is received for the selected time period. Default is 3 hours. It can also be turned *Off*.

Note:	If there are timers set, the auto standby function will be disabled for the booked time.

Channel Play Type   While zapping in normal viewing mode:
All   All channels in the channel list, Free and Scrambled, will be accessible.
Free   Only the Free channels in the channel list will be accessible, scrambled channels will be ignored (skipped) when zapping.
Scrambled   Only the Scrambled channels in the channel list will be accessible, free channels will be ignored.

NOTE:	Scrambled channels cannot be watched with this receiver.

7.4 Tools menu.

Use ▲ ▼ ◄► to select the *Tools* menu and press **OK** to advance.
Information   Read the technical details of your receiver, like model number, Software/Hardware version, and Build Date. This information could be asked during a service call or repair request.

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Factory Setting

Reset your receiver to the default factory settings.
Enter your password (default password 1234), select *Yes* and press **OK** to confirm.
The receiver will reboot and start with the *Welcome* menu.

Warning:	A factory reset will permanently delete all your personal settings, timers and stored channels. Please consider this before you perform a factory reset.

Upgrade by USB

Download the required update file for your receiver model from the support page on our website www.strong-eu.com if available, or contact your local dealer.
Unzip the file on your computer, if necessary, and copy it to root folder of your USB storage device. The USB device must have been formatted in FAT32.
Connect the USB storage device to the USB port of the receiver. Press **MENU** and select *Tools*, then *Upgrade By USB* to update the software select at *Upgrade Mode* the option *Allcode*. At *Upgrade File* select the correct upgrade file, the file has the extension .abs Then select *Start*, and press **OK** to initiate the upgrade process. An attention banner will now be displayed. Press **OK** to confirm *Yes* the update (or *No* to cancel it). The update process will take a few seconds. After the update process has been completed the receiver will restart and then show the *Welcome* menu. You can now safely remove the USB device, and then remove update software from the device (at the PC), to prevent accidental updating again. Re-install your receiver.

Warning:	NEVER power off the receiver or remove the USB device during the software update process. Doing so might cause irreparable damage to your receiver and will void your warranty.

NOTE:	In certain instances it can be advised on the website to upgrade the unit with the Maincode option instead of Allcode.

NOTE:	The *HDCP key, bootlogo and Radiologo* options are for Strong internal use.

Dump Channel list, Update channel List

These options allows you to save and reload the channel Data Base and settings of your receiver from/to a USB-device. This very convenient feature enables you to save your personal settings like Channel list, Favourite lists, preferences in the menu, on an USB storage device and load them back to the receiver later. This method can also be used by professional installers to quickly install may receivers of this type.

Dump Channel list Write to USB

Select *Update Mode,* then *Dump channel list* and *Start* and press **OK** to make a backup of the data base, including channels and user set data. An .udf file with the current date and time (year month, day time), will be created on the USB device. When the database has been successfully stored a message will be displayed on screen. Press **EXIT** to leave the menu.

Update channel List Load from USB

Select *Update Mode|*, then *Update channel list*. Select the file at *Upgrade File* you want to restore to.
Use ◄► for displaying the available database files (if any stored before). The .udf files are shown with their built date and time, (year month, day, time). Select the file you want to load and then select Start to load the file. When the database has been successfully loaded the receiver will reboot and switch automatically to the first stored channel which was included in the file.

Remove USB device safely
Use this option to safely remove your USB device from the unit. It will prevent loss of data and prevent hardware damage to such a device. This procedure is comparable working with a personal computer.

7.5 EPG screen

Use ▲ ▼ ◄► to select the *EPG* screen and press **OK** to advance.

NOTE:	The EPG screen can also be selected directly from the Remote control by pressing the button **EPG.**

EPG (Electronic Programme Guide)

The Electronic Programme Guide is a very useful function that allows you to watch programme schedules and information on screen. The screen is divided in two halves.
Use ◄► to select the other half.

Use ▲ ▼ to select a channel in the channel list, or the list of programmes in the other half.
Press **RED** *Record* to book the selected programme for a timed record. A red dot will appear beside the programme name.
Press **GREEN** *Channel* to book a selected programme for only for waking up the receiver at that time. A green dot will appear beside the programme name.
Press **Yellow** *Prev Day* or **BLUE** *Next Day*, to change to the day of interest
Removing a timer can be done in the EPG screen itself by selecting the same programme again and pressing the corresponding colour button, **RED** or **GREEN**.
All bookings can be checked and/or altered or removed in the *System Setup Timer Setting* menu.
Press **EXIT** to return to the main menu window.

NOTE:	Availability of EPG data depends on broadcast.

7.6 Media Player

Press **MENU** and select *Media Player*. The menu provides the options for playback of Recordings in **PVR,** Play from *Video Music and Image*. The unit supports USB devices with FAT and FAT32 format. Make sure your USB device is formatted correctly.

NOTE:	STRONG cannot guarantee compatibility (operation and/or bus power) with all USB mass storage devices and assumes no responsibility for any loss of data that may occur when connected to this unit. With large amounts of data, it may take longer for the system to read the contents of a USB device. Some USB devices may not be properly recognized. Even when they are in a supported format, some files may not play or display depending on the content.

If there is no USB device plugged in, the options in the menu will be greyed-out. Only when a USB device is detected you can select between *PVR, Video Music and Image*.
Select one of them, press **OK** to enter the file browser and select the file you want to play.
PVR S   hows a list of your recordings made by this unit.
Video   supported video files in various formats and containers (MPG, MPEG, TS, VOB, MP4, H264, H265) max 4k/2k)*
Music   supported file formats are MP3 and Flac*
Picture   supported file formats are JPG*
*STRONG cannot guarantee the playback of video, audio or picture files although extensions are listed here, as the correct playback depends on codec used, data bit rate and resolution as well.

PVR, Playback of own recordings

After a recording has been made you will find it in the PVR section of the *Media player* in a list created on your external USB storage device.
Select with ▲ ▼ the recording you want to playback.Inside the PVR section the following functions are supported:
OK   Starts playback in full screen.
■   Stop playback, and return to the recordings list.
ıı   Pause the current playback. Press repeatedly to go in to step-by-step motion.
▶   Start playback in the preview window, then **OK** to go full screen. Resume play from pause.
MENU or **EXIT**   Leave the PVR section.
YELLOW   Marks a recording for deletion. When all recordings you want to delete are marked, press **EXIT** to delete.
GREEN   A recording can be locked from viewing by the password. Enter the password to set the *lock*. To unlock, repeat the procedure with the **GREEN** button.   A locked recording is signaled with a *Lock* icon.
RED   Opens the keyboard for entering a new name for a selected recording. In the keyboard, press ▲ ▼ ◄ ► for navigation, to enter a character press **OK**. After finishing your changes, select *OK* and press the **OK** button to save the new name. If you want to discard your changes select *Cancel* and then press **OK**.
1 Use the 1 key to switch between the *PVR, Video Music* and *Image* screens.

Video

Your receiver allows you to watch videos in the chosen folder. Choose a folder with video files for playing them. Not all video files can be played.
During playback you can use the playback control buttons, such as ıı, ▶, ◄ ► (while progress banner on screen, then press **OK**), ■
, ◄◄, ►►, I◄◄ and ►►I. You can check the file details by pressing the **INFO** button in full screen mode. To close the banner, press **INFO** again or **EXIT**. Use the **YELLOW** button and select a chapter with ▲ ▼ you want to jump to, then press **OK** to confirm. With the ◄◄ ►► buttons you can rewind or forward playback in x2, x4, x8, x16 and x24 speed. With the I◄◄ ►►I buttons you can jump to the previous/ next video file.
This subtitle function with the **SUB** button only works for movies which have embedded subtitles
During playback, press (repeatedly) **SUB** to select a audio track. Press **EXIT** to remove the pop-up.
For external subtitle files in .srt format, select those with the **BLUE** button.

Use the **coloured buttons** and **numeric buttons** as indicated on screen to perform more actions.

Music

Select a music file (or file in a folder) and press **OK** to start playback. During playback, following functions are available:
◄►   Change the Audio volume.
OK   Start playback of the selected file.
❚❚   To pause/resume playback.
■   To stop playback.
◄◄ ►►   To rewind or forward playback.
❙◄◄ ►►❙   Start playback of the previous/next file. Press repeatedly to step through the list.
EXIT Press **EXIT** once if you want to leave the current folder. To get back to the *Media Player* menu, press **EXIT** repeatedly
MENU: To go back to the main menu.
Use the **coloured buttons** and **numeric buttons** as indicated on screen to perform more actions.

Image

Your receiver allows you to watch a slide show with all available images in the chosen folder. Choose a folder with photo files for the slide show In the *Image* mode following functions are available:
OK To start a slide show.
❚❚   To pause/resume slide show.
◄►   During the slideshow, the orientation of the image can be rotated. ◄ To turn the photo counter clockwise. ► To turn the photo clockwise.
►   To continue slideshow after ❚❚ or rotation of image.
EXIT   To stop the slide show and return to the folder view. To get back to the *Media Player* menu. Press **EXIT** again if you want to leave the *Media Player* menu.
MENU   To go back to the Media Player menu, to select another media type.
Use the **coloured buttons** and **numeric buttons** as indicated on screen to perform more actions.

8. SIMPLE TROUBLESHOOTING

Problem	Possible cause	What to do
LED indicator or LED display not lit.	Mains lead unplugged.	Check mains plug.
No signal found.	Cable or Antenna input is disconnected.	Check cable lead. Check with dealer.
No picture or sound on TV or amplifier .	HDMI or SCART is not selected on your TV or amplifier or the unit is set to higher resolution as the TV supports. TV/amplifier is not switched on.	Switch to correct TV/amplifier input. Select lower resolution on receiver. Switch TV/amplifier on.
Scrambled channel message.	Channel is scrambled.	Select alternative channel.
No response to Remote control.	Receiver off Remote not aimed correctly Front panel obstructed Remote batteries exhausted.	Plug in and turn on receiver. Aim remote at front panel. Check for obstructions. Replace remote batteries.
Forgotten password code Forgotten channel lock code.		Default password is 1234. Contact local Service Hotline or send email to our Support via www.strong-eu.com .
Signals are interrupted or blocking is visible on screen.	Antenna signals are too weak or have reflections/ interference.	Press the **INFO** button on remote 3x to call up signal bars and check your cable connections and leads. Using (many) splitters in the signal lead might cause reflections/interference in the digital signal and distort reception. If you use an active antenna with built-in amplifier, set antenna power to *On*. When in doubt, check user manual of the antenna with your dealer.
The receiver switches off automatically.	Auto Standby function enabled.	Disable auto standby. See chapter **7** for details.
Playback of video (or Time shift) is causing picture freeze/macro blocks or similar distortion, especially on UHD/HD content.	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.

9. TECHNICAL SPECIFICATIONS

Tuner

DVB-T2 Standard   ETSI EN302755 / V1.3.1
Tuner Type   R850 (Rafael)
Receiving Channel Range   VHF 174~230MHz, UHF 470~700MHz

Video decoder

Aspect ratio   4:3/16:9/Auto
Video decoder   MPEG-2 MP@ML/HLHEVC/H.265H.264/MPEG-4AVS/AVS+VC1 SP@ML,MP@HL, AP@L0~3
Video Resolution   4K Ultra-High Definition Display
HDR Feature   HDR (HDR10 and HLG) and WideColor
                        Gamut (BT.2020) processing
Copy protection   HDMI 2.0b/HDCP

Audio decoder

Audio decoding: MP2/AAC/Dolby Digital/Dolby Digital Plus/PCM*

* Manufactured under license from Dolby Laboratories. Dolby, Dolby Audio, and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

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System & Memory

Main Processor   Ali M2661
SDRAM   256MB
FLASH Size   8MB

Connectors

ANT IN   IEC Female
HDMI   Version 2.0b
TV (SCART)
USB Port   USB2.0 Type A, 5V, 500mA
S/PDIF coaxial   Coaxial
Power adapter input

General data

Power supply:
Input voltage power adapter: AC 100 - 240 V AC ~ 50/60 Hz
Output voltage power adapter: DC 12 V, 1 A
Power consumption working: <12 W
Power consumption in standby: <1W
Operating temperature range: 0 ~ +40 °C
Storage temperature: -10 ~ +50 °C
Dimensions (W x D x H) in mm: 168*118*38mm
Weight: 238g