

# STRONG

## Digital HD Cable Receiver

### SRT 3002



Picture similar

User Manual

Bedienungsanleitung

Uživatelská příručka

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Használati útmutató

Ръководство за употреба



USB  
playback



Programme  
guide



Favourite  
lists



Subtitles  
support



Teletext  
function



Parental  
control



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Fig. 1

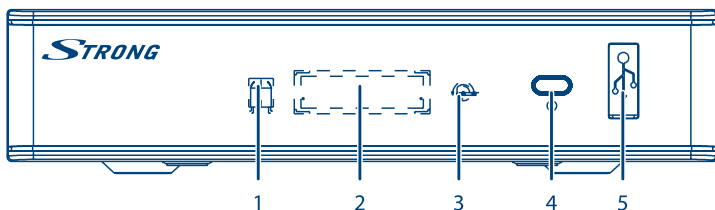


Fig. 2

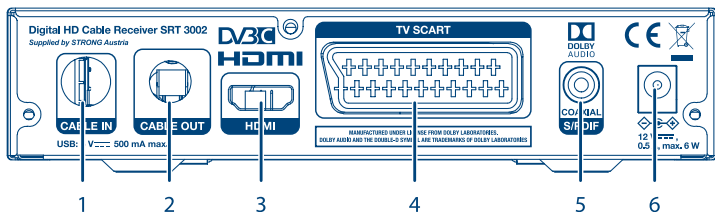


Fig. 3

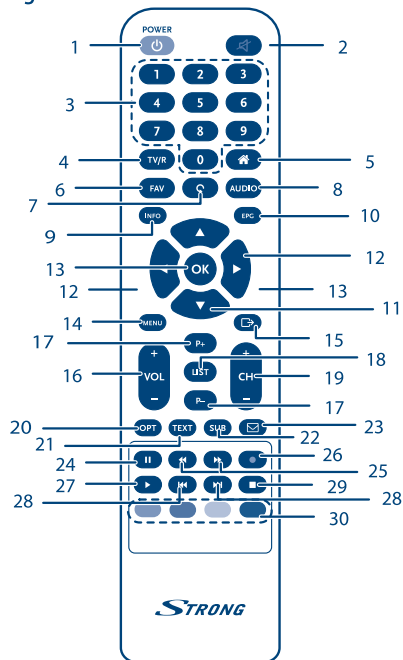


Fig. 4

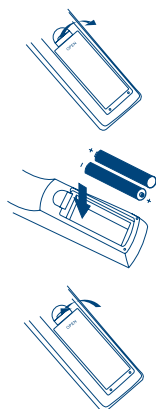
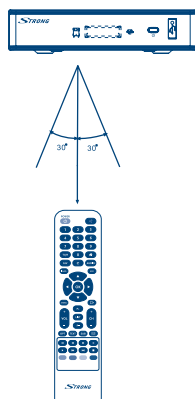
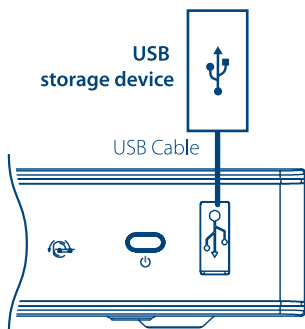
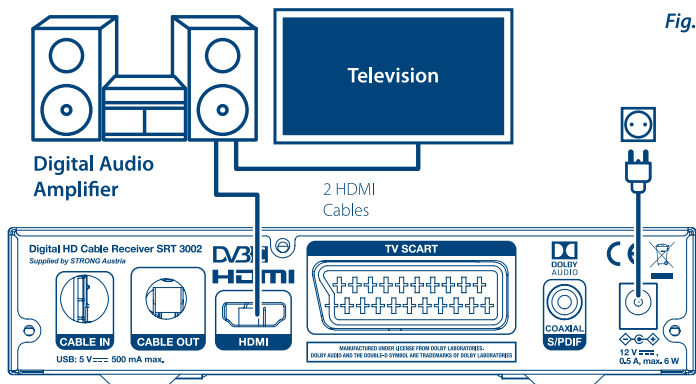
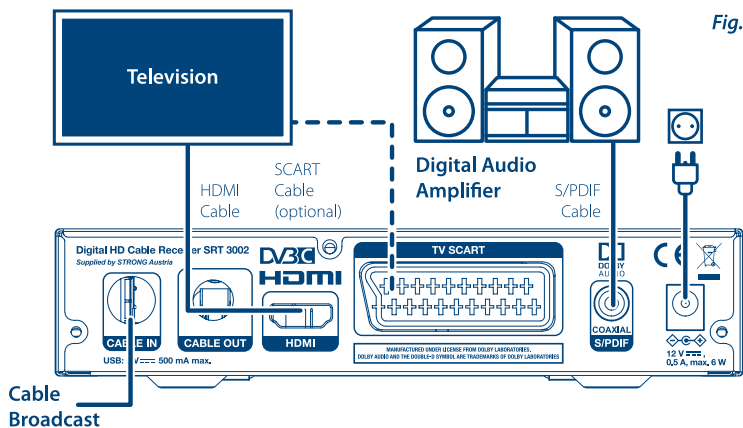


Fig. 5





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Your receiver is delivered with USB multimedia support. After downloading the optional software for recording via USB from our webshop at [www.strong.tv](http://www.strong.tv), the receiver can be upgraded to support the recording function via USB. This user manual describes the full functionality including the recording function and may not be applicable if the software for recording via USB has not yet been installed.

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## 1.0 INTRODUCTION

### 1.1 Safety Instructions

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

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

#### Precautions

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

#### Operating Environment

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

## WEEE Directive



Correct Disposal of this product. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources.

To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

## 1.2 Storage

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

## 1.3 Equipment Set-up

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

- Refer to the user manual of your TV.
- Make sure that the HDMI cable is in a good condition.
- If you use TV SCART connection, use then well shielded SCART cable.

This manual provides complete instructions for installing and using this receiver. The following symbols will serve as follow.

### Warning

Indicates warning information.

### Tips

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 window. (*Italic characters*)

## 1.4 Accessories

- Installation Instructions
- Safety instructions/warranty cards
- Troubleshooting
- 1 remote control unit
- 2x batteries (AAA type)

### 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.

## 1.5 Usage of external USB devices

- It is recommended to use USB 2.0 storage devices or higher. If your device is not compatible to USB 2.0 specifications, recording, playback and other multimedia functions of the receiver might not work properly. \*
- To ensure best performance of your USB storage device please format it via your receiver (through the menu "Media Player") to FAT32 system. Other file systems are not supported by the receiver. However, it is possible to use already NTFS formatted disks.
- STRONG cannot guarantee compatibility with all types of USB storage devices.
- If you are going to use external USB HDDs (Hard Disk Drives), please consider that power specifications may exceed the supported output of your receiver (max. 5 V/500 mA). If so, please connect your USB HDD to an according external power adapter.
- 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.



\*This user manual describes the full functionality including the recording function and may not be applicable if the software for recording via USB has not yet been installed.

## 2.0 YOUR RECEIVER

### 2.1 DEFAULT PIN: 1234

### 2.2 Front Panel

Fig. 1

- |                       |   |
|-----------------------|---|
| 1. IR Sensor          | Receives commands from the remote control           |
| 2. LED Display        | Shows channel number and time in standby            |
| 3. Mode Indicator LED | RED indicates that the receiver is in STANDBY mode. |
| 4. Standby/ON button  | Switches the receiver ON or into Standby            |
| 5. USB                | To connect your USB storage device.                 |

### 2.3 Rear Panel

Fig. 2

- |                    |   |
|--------------------|---|
| 1. CABLE IN        | Connect your receiver to the wall connector provided by the cable operator  |
| 2. CABLE OUT       | Connect your receiver to another digital receiver or to a TV to keep using its internal (analogue) tuner (loop through function)  |
| 3. HDMI            | Connect your receiver with your TV set using an HDMI cable.   |
| 4. TV SCART        | Connect your receiver with your TV set using a SCART cable.   |
| 5. S/PDIF (coax.)  | Connect your receiver to a digital home theatre, AV receiver or digital audio amplifier.  |
| 6. Power connector | The receiver requires a wall adapter, mains voltage input 100~240 V AC 50~60Hz 12 V, 0.5 A DC output. Please check the local power conditions before connecting the receiver to the mains supply. |

### 2.4 Remote Control

Fig. 3

- |               |  |
|---------------|--|
| 1.            | Switches the receiver On/Standby.  |
| 2.            | Mutes all audio outputs of the receiver  |
| 3. 0-9        | Enter channel number in TV mode or value input in menu   |
| 4. TV/R       | Toggles between TV or RADIO mode.  |
| 5.            | No function  |
| 6. FAV        | Opens the favourite group selection.   |
| 7.            | One step back in menu or back to previous channel.   |
| 8. AUDIO      | Opens the audio language selection*  |
| 9. INFO       | Opens the current channel information; 2x opens the technical information about the current channel. |
| 10. EPG       | Opens the EPG (Electronic Programme Guide) in TV mode*   |
| 11.           | Change channel to next/previous. Menu: Moves the cursor up/down.                                     |
| 12.           | Decreases/increases the volume level. Menu: Change settings for specific menus.                      |
| 13. OK        | Opens the current channel list in menu: for confirmation   |
| 14. MENU      | Opens the main menu, in a menu you will get one step back.   |
| 15.           | Exits from the menu or sub-menu.   |
| 16. VOL+/VOL- | Increases/decreases the volume level.  |
| 17. P+/P-     | Page up/down in all list modes.  |
| 18. LIST      | Call the current channel list.   |
| 19. CH+/CH-   | Channel up/down.   |
| 20. OPT       | No function.   |
| 21. TEXT      | Opens the Teletext if available*   |
| 22. SUB       | Shows a list of subtitle languages. *  |

- |                    |   |
|--------------------|---|
| 23. ☑              | No function   |
| 24. II             | Hold play during playback/starting Timeshift mode**   |
| 25. ⏮⏭             | Fast rewind/fast forward.                             |
| 26. ●              | Starts recording of the currently watched programme** |
| 27. ▶              | Opens the multimedia menu                             |
| 28. ⏮⏭             | Jump function in multimedia playback                  |
| 29. ■              | Stop playback.  |
| 30. COLOUR BUTTONS | In different menus for specific functions             |

\* Subtitles, Videotext, EPG (Electronic Programme Guide), and Audio languages are depending on availability in the specific broadcast

\*\*This user manual describes the full functionality including the recording function and may not be applicable if the software for recording via USB has not yet been installed.

## 2.5 Installing the batteries

Fig. 4

Open the cover on the remote control and insert 2x AAA batteries into the compartment. Correct position of the polar diagram shows the batteries inside the 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.

## 2.6 Using the remote control

Fig. 5

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

Fig. 6

### 3.1 Connecting to cable TV

Connect your receiver to the wall connector provided by your cable operator, using a high quality coaxial cable (75 Ohms). Normally, wall connections could be either F-type or IEC male type. Use a cable with suitable connectors. This receiver has an IEC female input.

### 3.2 Connecting to TV with HDMI cable

Fig. 6

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

### 3.3 Connecting to TV with SCART cable

Fig. 6

Your receiver 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. 6

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 the broadcast). 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. 7

By connecting your receiver to the latest digital amplifiers or Home Cinema systems you will enjoy the best possible sound quality and multi-channel audio (depending on the broadcast). 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. 8

Connecting a USB device to the unit allows you to record TV programmes\*, playback movies, music and picture files. See chapter 7.5.1.

**NOTE** It is recommended to use USB 2.0 storage devices or higher for playback of TV programmes or HD movies.

**NOTE** Timeshift/recording and playback only works properly when a fast USB storage device such as a USB 2.0 HDD is connected to the receiver. Timeshift/recording and playback of HD content requires a sufficient continuous read/write speed of the used USB storage device. \*

\*This user manual describes the full functionality including the recording function and may not be applicable if the software for recording via USB has not yet been installed.

## 4.0 STARTING UP FOR THE FIRST TIME

When you use your receiver for the first time, the *Welcome* menu appears. Use ▲/▼ to move the highlight to the setting you wish to alter and use ◀▶ to change values. Start by selecting your language using ◀▶. Once you have selected your language, press ▼ to move the highlight to the next item and use ◀▶ to change.

**Region:** Select your region where this receiver is used.

**Language:** Here you can choose your language.

**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), *4:3PS* (Panscan) (Displays 16:9 widescreen broadcasts full screen on your 4:3 TV), *4:3LB* (letterbox) (black bars on top and under the picture on a 4:3 TV) and *16:9* (use this setting for 16:9 TV sets).

**Subtitle Display:** Select *On* to display subtitles per default. Select *Hard of Hearing* or *Normal* to show Hard of Hearing or Normal subtitles per default. Select *Off* to hide subtitles per default.

**Scan mode:** Select *All* to store scrambled and free to air channels or select *Free* to store only free to air channels. Note: Scrambled channels cannot be viewed with this receiver.

**Provider:** Select the Provider on your local cable system. If unknown, select other. From the main menu *Installation*, more options are available to do different scan types.

When all settings have been made, move the highlight to *Search* and press **OK** to continue. A search will be executed, this may take some time. A message will be show when finished.

## NOTE

Wrong region or provider selection can lead to missing channels or channels being stored at wrong positions in the channel list. The search can be stopped anytime by pressing **⏏**. From the main menu *Installation*, more options are available to do different scan types. See chapter 4.1 DVB-C Installation. Press **⏏** again to show the main menu.

## TIP

If the *Welcome* menu does not appear after switching on the receiver the first time, reset the receiver to factory settings by pressing the **MENU** button and selecting *Load Factory Setting* in the submenu *Tools*. (DEFAULT PIN: 1234).

## 4.1 DVB-C Installation

Select *Installation* and press **OK** to enter the installation menu. Press **▲/▼ ◀▶** to select *Channel Scan* or *Auto Scan*. Strength and Quality bars are available in each submenu, to provide information about signal presence. Network ID (NID) and other technical data can usually be found on a provider's website.

### 4.1.1 Channel Scan

Select *Channel Scan* and press **OK** to enter the *Channel Scan* menu. Press **▲/▼ ◀▶** to set *Scan mode*, *Channel No.*, *Frequency*, *Symbol Rate*, *Scan QAM* and *Network Search*. Highlight *Search* and press **OK** to start the channel scan. Obtain technical data about your cable operator's base channel from your operator and start a Network search from there to find all channels belonging to the network.

### 4.1.2 Auto Scan

Select *Auto Scan* and press **OK** to enter the *Auto Scan* menu. Press **▲/▼ ◀▶** to set *Country* and *Network* and then highlight *Search*. Press **OK** to start the auto search. Some operators in Germany are pre-installed.

### 4.1.3 Network ID scan

Select *Network ID scan* and press **OK** to enter the *Network ID scan* menu. Press **▲/▼ ◀▶** to set *Frequency*, *Symbol Rate*, *Scan QAM* and *Network ID*. Obtain technical data about your cable provider's base channel and Network ID from your provider and start a Network ID scan from there to find all channels belonging to the network corresponding to the Network ID. Highlight *Search* and press **OK** to start the search.

### 4.1.4 LCN

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

### 4.1.5 Free/All channels

If *Free/All channels* is set to *Free*, only channels will be stored that are signalled as Free-to-Air. Set to *All* to store all channels found. This function only applies when a new channel search is performed and only to Channel Scan and Auto Scan options. Note: Scrambled channels cannot be viewed with this receiver.

## 5.0 QUICK GUIDE TO USING YOUR RECEIVER

We at STRONG understand that you can't wait to enjoy your digital HD cable 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 a 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

### 6.1 Changing channels

Following ways are possible for changing channels with your new receiver:

- Via direct access using the 0~9 buttons.
- Via the channel list using **OK** and the **PG+/PG-** buttons.
- Via the ▲/▼ buttons.

#### 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 buttons 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. Press **OK** again to leave the channel list mode. Inside the channel list it is possible to use the **PG+/PG-** buttons as well in order to scroll page-wise through the list.

#### TIP

Use ◀▶ to toggle between the *All Channel* list and favourite list(s) or press **FAV** in viewing mode for a list of the available favourite lists.

#### 6.1.3 Using the ▲/▼ buttons

▲ switches to the next channel.

▼ switches to the previous channel.

### 6.2 Info Banner

While watching TV you can press the **INFO** button at any time to access current information about the channel and event\*. Press **INFO** twice for technical details about the current channel.

\*Event information is displayed when available. Availability depends on the 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 a stream and confirm with **OK**. The audio channel as stereo, mono, left and right can be selected with the ◀▶ buttons.

### 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 directly, as indicated on the bottom of the Teletext screen. Use the ▲/▼ buttons to select one page up or down, use the ◀▶ buttons to select subpages. Press **EXIT** or **TEXT** to get back to viewing mode.

### 6.5 Subtitles

Some channels support a choice of subtitle languages. Press **SUB** 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.\*

\*Availability of DVB/HoH subtitles depends on the broadcast. If subtitles are not supported, they can be activated via Teletext if available.

## 6.6 Timeshift\*

Timeshift allows you to pause live broadcasts and resume playback later. To activate this function set the Timeshift mode in the *DVR Set* menu in *HDD Information* to Timeshift. For details, see 7.5.3. Press **II** in viewing mode to activate Timeshift. The progress information banner appears on screen. Live TV keeps playing for moment and will then pause. Press **▶** to resume Timeshifted playback. Press **■** to return to live TV.

### NOTE

Timeshift and its playback only work properly when a fast USB storage device such as a USB 2.0 HDD is connected to the receiver. Timeshift and playback of HD content requires sufficient read/write speed of the used USB storage device.

\*This user manual describes the full functionality including the recording function and may not be applicable if the software for recording via USB has not yet been installed.

## 6.7 EPG (Electronic Programme Guide)

The Electronic Programme Guide is a very useful function that allows you to view event schedules and programme information and to mark events/movies for recording. To access the EPG, press the **EPG** button in viewing mode. Use **▲/▼** to select a channel and **◀▶** to select an event. Press **OK** to display detailed information of the selected event. Use **↵** to quit the detailed information screen. Press **RED** to access further step functions. Use **◀▶** to select a step and **OK** to execute it. Press **↵** to quit the step function. Press **GREEN** to set a timer for a selected event. Refer to section 7.3.4 for details of the timer function.

### NOTE

Availability of EPG data depends on the broadcast.

## 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. To enter the duration for the recording, press **●** again. Use the **0~9** buttons to enter the recording time and press **OK** to confirm.

At the beginning of the recording a recording sign will be shown for a short while on the upper left corner of your TV screen. To stop the recording, press **■**. Select **Yes** and press **OK** again to stop the recording. It is possible to make 2 recordings at the same time if they are broadcasted on same frequency.

You can access the Record Manager via the **FILE** button and select *Record* by pressing the button 1.

\*This user manual describes the full functionality including the recording function and may not be applicable if the software for recording via USB has not yet been installed.

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

## 7.0 MAIN MENU

The main menu gives you access to settings, multimedia functions and games. To access the main menu, press **MENU** in viewing mode. The main menu consists of the following sub menus: *Edit Channel*, *Installation*, *System Setup*, *Tools* and *Media Player*.

Throughout the main menu, **MENU** or **↵** can be used to get back to the previous screen.

### 7.1 Edit Channel

Use **▲/▼** to select *Edit Channel* and press **OK** or **▶** to enter.

Use **▲/▼** to highlight the submenu of choice and press **OK** to select.

Press **↵** or **◀** to get back to the main menu.

#### 7.1.1 TV Channel List

In the *Edit Channel* menu select *TV Channel List* with **▲/▼** and press **OK** to enter.

Use **◀▶** to change the channel group (if you have already set up favourite groups).  
Select the channel of choice with **▲/▼**. Press **OK** to view the selected channel in the preview box.

## 7.1.1.1 Adding channels to favourite lists

Channels from the *TV Channel List* can be added to up to 8 different favourite groups. Press **FAV** in *TV Channel List* to access this function. The **FAV** sign on the top of the screen will move up to indicate that the favourite function is selected. Use **▲/▼** to select a channel you wish to add to a favourite group. When the highlight is on the channel of your choice, press **OK**. A list with all available favourite lists will now pop up. Use **▲/▼** to select the favourite list you wish to add the channel to and press **OK**, press **↵** to finalize the process. Favourite channels will be marked with a **♥** symbol. When all changes have been made, press **↵** twice. A confirmation banner will pop up. Select **Yes** to save the changes or **No** to discard.

## 7.1.1.2 Locking channels

Locked channels can only be watched after entering the PIN code. (DEFAULT PIN: 1234)

To lock or unlock a channel, press **RED** while in *TV Channel List*. Press **▲/▼** to select a channel and press **OK** to lock or unlock it. You are asked to input the PIN code. (DEFAULT PIN: 1234) Locked channels will be marked with the **🔒** symbol. Locking/unlocking multiple channels in one session is possible. When all changes have been made, press **↵** twice. A confirmation banner will pop up. Select **Yes** to save the changes or **No** to discard.

## 7.1.1.3 Skipping channels

Channels marked with **Skip** will be skipped when zapping channels with the **▲/▼** buttons. The channels will still be available from the channel list.

To mark channels for skipping, press **GREEN** while in *TV Channel List*. Use **▲/▼** to select a channel and press **OK** to mark or unmark it for skipping. Channels set for skipping will be marked with the **⏭** symbol. When all changes have been made, press **↵** twice. A confirmation banner will pop up. Select **Yes** to save the changes or **No** to discard.

## 7.1.1.4 Moving channels

To enable the Move function, press **YELLOW** while in *TV Channel List*. Use **▲/▼** to select a channel and press **OK** to select it. Now you can move the selected channel up or down inside the channel list by using **▲/▼**. When the channel is on the position of your choice, press **OK** again. The channel is now fixed on its new position. When all changes have been made, press **↵** twice. A confirmation banner will pop up. Select **Yes** to save the changes or **No** to discard.

## 7.1.1.5 Editing channels

The Edit function allows you to *Sort*, *Rename* or *Delete* channels. To enter the Edit menu, press **BLUE** while in *TV Channel List*. The *Edit Channel* menu will appear.

If you made changes in the previous menu, but haven't saved them yet, you will be asked to do so now.

### Sort

Press **RED** to enter the *Sort* menu.

Use **▲/▼** to select sorting method and press **OK** to confirm.

Possible methods are:

<i>Name (A-Z):</i>	Sorting in alphabetical order from A to Z.
<i>Name (Z-A):</i>	Sorting in alphabetical order from Z to A.
<i>Free/Scramble:</i>	First in the list will be Free-To-Air channels.
<i>Lock:</i>	All unlocked channels will placed first in the list.
<i>Default:</i>	Sorting by searched Order (from lowest to highest frequency or by LCN numbering).

### Rename

Press **GREEN** in *Edit Channel* to enable the *Rename* function. The *Rename* sign will move up to indicate that *Rename* is selected. Use **▲/▼** to highlight a channel and press **OK** to select it. A text field will now pop up at the right of the screen. Use **◀▶** **▲/▼** to select characters and enter them with **OK**. When you have finished editing, press **YELLOW** to enter the changes. When all changes have been made, press **↵** twice. Select **Yes** to save the changes or **No** to discard.

## Delete

Press **BLUE** in *Edit Channel* to enable the *Delete* function. The *Delete* sign will move up to indicate that *Delete* is selected. Use **▲/▼** to highlight a channel and press **OK** to mark it for deletion. When you have marked all channels you wish to delete, press **↵** twice. A confirmation banner will be displayed. Select *Yes* to delete the marked channels or *No* to cancel.

## 7.1.2 Radio Channel List

Basically, the operation of the *Radio Channel List* is the same as in the *TV Channel List*. The only difference is that in *Radio Channel List* there is no video information, so it will always display the background on the preview screen.

## 7.1.3 Delete all

Use this menu to delete all stored channels. Select *Delete All* with **▲/▼** and press **OK**. The receiver asks you to enter the pin code. (DEFAULT PIN: 1234). Inside the confirmation window select *Yes* with **◀▶** and press **OK** to delete or select *No* to cancel.

### Warning!

The Delete all function will permanently delete all current channels and all favourite lists from your receiver, and you are not able to leave the menu until you search for channels again.

## 7.1.4 Rename Favourite list

This menu allows you to personalize the names of the 8 available favourite lists.

Use **▲/▼** to select *Rename Favourite List* from the *Edit Channel* Menu and press **OK** to proceed. The names of all groups are now displayed. Select a favourite group with **▲/▼** and press **OK** to edit its name. A text field will now pop up at the right of the screen. Use **◀▶** **▲/▼** to select characters and enter them with **OK**. When you have finished editing, press **BLUE** to save the changes. When all changes have been made, press **↵** twice to leave this menu.

## 7.2 Installation

### 7.2.1 Channel Scan

Use **▲/▼** to select *Installation*, press **OK** or **▶** to advance.

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 **▲/▼◀▶** to select *Channel No Symbol Rate* and *Scan QAM*. If *Network Search* is set to On, all channel belonging to the network of your operator will be found, according to NIT information provided in the signal of the operator.

If *By Frequency* is selected, use **▲/▼◀▶** and 0 ~ 9 to select *Frequency*, *Symbol Rate* and select the correct Scan QAM parameter. Highlight *Search* and press **OK** to start scanning. Newly found channels will be added to the channel list. If *Network Search* is set to On, all channel belonging to the network of your operator will be found, according to NIT information provided in the signal of the operator.

### NOTE:

Obtain technical data about your cable-operator base channel from your operator and start a network search from there to find all channels belonging to the network.

### 7.2.2 Auto Scan

Use **▲/▼** to select *Installation* and press **OK** or **▶** to advance.

Select *Auto Scan* with **▲/▼** and press **OK** to enter.

Select your country and network.

Use **▲/▼** to highlight *Search*. Now press **OK** to start auto scan.

The receiver will store all found channels in the channel list.



**NOTE:**

Obtain technical data about your cable-operator base channel from your operator and start a network search from there to find all channels belonging to the network.

## 7.2.3 Network ID scan

Select *Network ID scan* and press **OK** to enter the *Network ID scan* menu. Press **▲/▼** **◀▶** to set *Frequency*, *Symbol Rate*, *Scan QAM* and *Network ID*. Obtain technical data about your cable provider's base channel and Network ID from your provider and start a Network ID scan from there to find all channels belonging to the network corresponding to the Network ID. Highlight *Search* and press **OK** to start the search. Network ID (NID) and other technical data can usually be found on a provider's website.

## 7.2.4 LCN (Logical Channel Numbering)

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

## 7.2.5 Free/All channels.

If *Free* is selected, only channels are stored that are "Free-to-watch".

If *All* is selected, coded channels will also be stored.

**NOTE:**

Only *Free* channels can be watched with this unit.

## 7.3 System Setup

This menu allows you to manage the system settings of your receiver. It consists of the following sub-menus: *Language*, *TV System*, *Local Time Setting*, *Timer Setting*, *Parental Lock*, *OSD Setting*, *Audio Description Setting* and *Auto Standby*.

Press **▲/▼** to highlight the menu 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 **⏏** to leave.

### 7.3.1 Language

This menu allows you to set up your language preferences.

*Language:* Use **◀▶** to select the language for the On Screen Display.

*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.

*Subtitle Display:* Use **◀▶** to select the use of subtitle *Normal*, *Hard of Hearing* or *Off*.

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

*2nd Subtitle Language:* Use **◀▶** to select the preferred 2nd subtitle language if the 1st preference is not available.

*Teletext:* Use **◀▶** to select the preferred Teletext language (when available).

\*Availability of DVB/Hard of Hearing subtitles depends on the broadcast. If subtitles are not supported, they can be activated via Teletext if available.

### 7.3.2 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. The options are: *By Source* (automatic detection of video resolution offered to the receiver), *By Native TV* (automatic detection of maximal resolution of TV screen), and manual selections *480i*, *576i* up to *1080p*. Please use a setting that matches the specifications of your TV. After a selection is made, you will be asked to confirm. Selection above *576i* is only applicable on HDMI output.

- 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), *4:3PS* (Panscan) (Displays 16:9 widescreen broadcasts full screen on your 4:3 TV), *4:3LB* (letterbox) (black bars on top and under the picture on a 4:3 TV) and *16:9* (use this setting for 16:9 TV sets).
- Digital Audio Output:** Toggles between *PCM* and *Bitstream* output. When *PCM* is selected, all digital audio will be converted to stereo audio. *Bitstream* enables you to listen or transfer Dolby® Digital/Dolby® Digital Plus\* audio to the TV via HDMI or to a Home entertainment system (for example) through coaxial S/PDIF.

**NOTE:** Dolby® Digital Plus\* is only available on the HDMI output.

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

## 7.3.3 Local Time Setting

Here you can set up your region and time zone.

- 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 your time zone. 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. The cities matching the set *GMT Offset* are displayed at the bottom of the screen.
- Summer time:** Select *On* to add one hour for summer time.
- Date:** *Date* and *Time* settings are available only when *GMT Usage* is set to *Off*. Use the 0~9 buttons to enter the date. Press ⏏ to proceed.
- Time:** *Date* and *Time* settings are available only when *GMT Usage* is set to *Off*. Use the 0~9 buttons to enter the time. Press ⏏ to proceed.

## 7.3.4 Timer Setting

This menu allows you to set up to 8 timed events for recording or waking up the receiver.

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* the timer is inactive, *Once*, *Daily* (the timer will be executed every day, same time) or *Weekly* (the timer will be executed every week, same day, same time) and *Monthly* (the timer will be executed every month, same day, same time).
- Timer Service:** Choose between *Channel* (the timer will wake up the receiver) or *Record* (Timer will start recording the scheduled event).
- Wakeup Channel:** Use ◀▶ to select the channel the timer will wake up with.
- 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 starting time.
- Duration:** Use the 0~9 buttons to enter the duration of the timer.
- When all settings have been made, 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*.

## 7.3.5 Parental Lock

This menu allows you to protect the installation menu and/or channels with a PIN code. You can also enter a new PIN 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 PIN: 1234)

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

<b>Parental Rating:</b>	Choose between: <i>Off</i> , <i>10 years</i> and up to <i>18 years</i> . Channels with a parental rating above the chosen age will be protected with a PIN code (if rating is available in your local broadcast).
<b>New Password:</b>	Enter your new PIN code (4 digits) here.
<b>Confirm Password:</b>	Re-enter your PIN code here to confirm.

## 7.3.6 OSD Setting

This menu allows you to change settings for: *OSD Timeout* and *OSD Transparency*.

**OSD Timeout:** Sets the duration time of on screen banners and messages remove. The range is *1~10 seconds* or *Always On*.

**OSD Transparency:** To set the OSD transparency from *Off ~ 40%* with 10% steps.

## 7.3.7 Audio Description

Audio Description is a service by the broadcaster in which the content on screen is being described for the visually impaired. Select *AD Service On* and *Use AD as default* also *On* to activate the service. With *AD Volume Offset* the level of the AD text can be adjusted.

### NOTE

Availability of Audio Description depends on the broadcast.

## 7.3.8 Auto Standby

Auto Standby is a new feature that helps you reducing power consumption. When set to *3, 4 or 5 hours*, the receiver will switch to standby if it doesn't receive any commands during this time. Set *Auto Standby* to *Off* to deactivate the automatic standby function.

Default is 3 hours.

## 7.4 Tools

Press **MENU** in viewing mode to enter the *Main Menu*.

Select the *Tools* submenu with **▲/▼** and press **OK** or **▶** to enter.

Use **▲/▼** to highlight the submenu of choice and press **OK** proceed.

Press **⏮** to leave.

### 7.4.1 Information

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

### 7.4.2 Load Factory Settings

This option allows you to reset the receiver to factory settings, which clear all stored channels.

#### Warning!

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

Use **▲/▼** to select *Load Factory Settings* in the *Tools* menu and press **OK**. You are asked to input your PIN code.

Input the correct PIN code using the **0~9** (**DEFAULT PIN: 1234**). A confirmation window is displayed.

Select *Yes* to return to factory settings.

The receiver will return to its initial state and show the *Welcome* page.

Select *No* to cancel.

Press **⏮** to leave.

## 7.4.3 Upgrade by USB

This feature allows you to upgrade receiver software via the USB port. When new software is available for your receiver, it can be downloaded from our website [www.strong.tv](http://www.strong.tv).

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.

Select *Upgrade by USB* from the *Tools* menu and press **OK** to proceed.

The upgrade menu will now be displayed.

Use **▲/▼** to select *Upgrade Mode* and choose option *Allcode*.

Use **▲/▼** to select *Upgrade File* and choose the file containing the latest and correct software.

When all settings have been made, move the highlight to *Start* and press **OK** to start the upgrade process. The receiver will show a warning message.

Select **Yes** to finalize the upgrade or **No** to quit without upgrading.

**NOTE:** If, after a software upgrade, the receiver should behave in an unexpected way, please perform a factory reset as well. See chapter 7.4.2.

**Warning!** Be sure to have the correct software update for your brand and model available. Trying to update to any other software may damage the unit and will void the warranty. After an update the receiver restarts automatically. During the upgrade process NEVER disconnect the receiver from the mains or switch off the power! Doing so might damage your receiver and will void warranty!

### Channel Dump and Load function

This feature allows you to load a channels list quickly and use a channel list that previously was created on this (backup) or another receiver from the same model via the USB port.

This is useful when more receivers have to be installed on the same network, thus omitting a full scan and (optional) sorting of channels. It is also useful as a backup for your own unit.

#### Channel Dump function (backup to USB)

Have a storage device connected to the USB port of the receiver. Select *Upgrade by USB* from the *Tools* menu and press **OK** to proceed. The upgrade menu will now be displayed.

Use **▲▼** to select *Upgrade Mode* and choose the option *Dump channel list*.

A DataBase file name containing date and time will be presented, format DBMMHHDDMMYYYY (DatebaseMinuteHourDayMonthYear.udf).

Use **▲▼** to select *Start* and press **OK** to proceed. The channel list and favourites will be saved.

#### Update Channel list function (read from USB)

Have the storage device connected to the USB port of the receiver, containing a previously made channel list on this unit or another of the same model. Select *Upgrade by USB* from the *Tools* menu and press **OK** to proceed. The upgrade menu will now be displayed.

Use **▲▼** to select *Upgrade Mode* and choose the option *Update Channel list*.

Use **▲▼** to select *Upgrade File*. Select the correct database file name, format DBMMHHDDMMYYYY (DatebaseMinuteHourDayMonthYear.udf).

Use **▲▼** to select *Start* and press **OK** to proceed. Confirm the upgrade with **OK** to proceed.

**WARNING:** Old channel list and favourites will be overwritten.

After completion, the unit will reboot and come back with the first channel in the new channel list.

## 7.5 Media Player\*

The *Media Player* menu consists of the following submenus: *Media Player*, *HDD Information* and *Remove USB device safely*.

Use ▲/▼ to highlight the menu of choice and press **OK** to enter. Press ⏮ to quit.

### 7.5.1 Media Player

This function allows playback of different kind of files from the connected USB storage device. In the *Media Player* menu, select *Media Player* and press **OK** to enter this menu.

When entering the media player, the highlight is on the USB storage device. Press ▼ and **OK** to open the directory respectively its folders/subfolders.

First select which files you like to play back. Press **1** to switch between Video/Record/Music or Image. Press ▲/▼ to select a file or folder and then press **OK** to open the folder/subfolder (if applicable) or start playback of the file. Press the ⏮ button to exit.

Use the buttons like described below in order to choose functions during the different playback modes (like described in the help banner below):

#### Video:

**INFO:** Press the **INFO** button to set repeat mode. The options are repeat folder *folder icon*/repeat once 1 or no repetition (no icon shown).

**1:** During the playback of a movie with external subtitles, press **1** to enter the subtitle menu. In this menu you can select size and colours of your preference.

**2:** Press **2** to open the Sort menu. You can sort by Name/Time or Size.

**7:** Press **7** to open the Edit menu. This menu allows access of the following functions by entering the number: rename **4**, copy **5**, delete **6**, create folder **7**.

⏮: One step back or leave the folder and quit the function.

#### Record\*:

**2:** Press **2** to enter a new name for the selected recording.

**3:** Highlight the recording that you want to lock. After pressing **3** you will be asked to input your PIN code. **DEFAULT PIN: "1234"**. After entering your PIN code, the recording is locked. If you want to unlock the recording again, press **3** again.

**4:** Press **4** to mark the recording you want to delete. By selecting the same recording and pressing **4** again you can remove the delete marker again. Press ⏮ to delete.

⏮: One step back or leave the folder and quit the function.

#### Music:

**4:** Press **4** to open a previously created play list. With the coloured buttons you can make changes to the list.

**5:** Press **5** to add a file to the playlist. A favourite icon will be shown next to the file. (A single file will be added to the play list) or **6** (all files of this directory/folder will be added to the play list).

**6:** Press **6** to add all files of this directory/folder to the play list. Press **6** again to delete all files from the play list.

**7:** Press **7** to open the Edit menu. This menu allows access of the following functions by entering the number: rename **4**, copy **5**, delete **6**, create folder **7**.

**2:** Press **2** to open the sort window. You can sort by Name/Time/Size and Favourite.

**INFO:** Press the **INFO** button to set repeat mode. The option is Repeat Folder/Random Folder/Repeat One.

⏮: One step back or leave the folder and quit the function.

#### Image:

**4:** Press **4** to open a previously created play list. With the coloured buttons you can make changes to the list.

- 5: Press **5** to add a file to the playlist. A favourite icon will be shown next to the file. (a single file will be added to the play list) or **6** (all files of this directory/folder will be added to the play list).
- 6: Press **6** to add all files of this directory/folder to the play list. Press **6** again to delete all files from the play list.
- 7: Press **7** to open the Edit menu. This menu allows access of the following functions: rename **4**, copy **5**, delete **6**, create folder **7**.
- 2: Press **2** to open the sort window. You can sort by Name/Time/Size and Favourite.
- INFO: Press **INFO** to access slideshow settings. You can change the slide time and slideshow repetition.
- 3: Press **3** to show the files in a preview of 3x3 pictures.
- ⏮: One step back or leave the folder and quit the function.

\*This user manual describes the full functionality including the recording function and may not be applicable if the software for recording via USB has not yet been installed.

## 7.5.2 HDD Information

This option shows relevant information about the connected USB device. In this menu you can also format your USB storage device and setup the recording type.

Select **HDD Information** in the *Media Player* menu and press **OK** to enter.

Now you will see all details as Free and the used Recording Sizes and the used file system.

Press the **YELLOW** button *Format* to format the connected USB device.

Please, enter your PIN code to access this menu and press **OK** to start formatting.

**Warning!** Formatting will permanently delete ALL data stored on the connected device. Please make a backup copy of all data you wish to keep before entering the *HDD Format* menu. STRONG cannot be held responsible for loss of data from USB devices used with this receiver.

**NOTE** It is possible to use USB storage devices already formatted in NTFS.

Press **⏮** to leave this menu.

## 7.5.3 DVR Set and Format\*

From the HDD Information menu, you can access the *Format* and the *DVR Set* menu.

**Format: YELLOW** It is only possible to format your USB HDD device with FAT32 *FAT*. However, an already formatted USB HDD device in a PC with NTFS can also be used in this receiver.

**DVR Set BLUE** This menu allows you to configure settings for Timeshift, recording and playback.

Use **▲/▼** to move the highlight and **◀▶** to change settings.

**DVR Set** Select between *REC&TMS*, *Record* or *Timeshift*. When *REC&TMS* is selected, both Record and Timeshift is possible. Timeshift it will automatically restart every time after changing a channel. When the **II** button on the remote control is pressed, the picture will freeze, and it is possible to return to the point of the last changing of the channel. When set to *Timeshift* only Timeshift is possible, when set to *Record*, only record is possible.

Press **⏮** to leave this menu.

\*This user manual describes the full functionality including the recording function and may not be applicable if the software for recording via USB has not yet been installed.

## 7.5.4 Remove USB device safely

Select *Remove USB device safely* from the tools menu and press **OK**. The receiver will display a message indicating that you can safely remove your storage device from the receiver.

**NOTE**

After performing this function, the USB device is no longer accessible from your receiver. To gain access to your storage device again, re-insert it or switch the receiver to standby and on again.

## 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. 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
LED indicator not lit	Mains lead unplugged	Check mains plug
No signal found	Cable 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. Check if S/PDIF connection is used.
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 plug Aim remote at front panel Check for obstructions Replace remote batteries
Forgotten PIN code Forgotten channel lock code		Default PIN is 1234 Contact local Service Hotline or send email to our Support via <a href="http://www.strong.tv">www.strong.tv</a>
Signals are interrupted or blocking is visible on screen	Cable signals are too weak or have reflections/interference.	Press the <b>INFO</b> button on remote 2x 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. When in doubt, check with your dealer.
The receiver switches off automatically.	Auto Standby function enabled.	Disable auto standby. See section 7.3.8 for details.
Playback of video (or Timeshift) is causing picture freeze/macro blocks or similar distortion, especially on 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.

## 9.0 TECHNICAL SPECIFICATIONS

### Tuner

Tuner:	NXP8250B
Input Impedance:	75 Ohm
Minimum Input Level:	≤ 40 dBuV (64 QAM) ≤ 44 dBuV (256 QAM)
Receiving Channel Range:	47 MHz ~ 862 MHz
Modulation:	16, 32, 64, 128, 256 QAM
Symbol rate:	3.6 M ~ 6.952 MS/s

### Video Decoder

Video resolution:	480i, 480p, 576i, 576p, 720p, 1080p
Decoding & Video Out:	PAL
Aspect ratio:	4:3, 16:9

### Audio Decoder

Audio decoder:	MPEG-1 LAYER 1&2, Dolby Digital, Dolby Digital Plus
Audio support:	AC3+/PCM/Dolby® Digital Plus*

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

### Multimedia

Video playback:	MPEG encoded (mpg), VOB, TS, M2T, M2TS, MPEG-4 and MOV*
Audio playback:	MP3 and OGG*
Picture view:	BMP and JPEG*

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

### System

Transponder:	DVB-C
Main Processor:	Ali M3711B
Demodulator:	NXP8250B
Memory:	DDR2 64 MB
FLASH size:	4 MB

### Connectors

Cable IN - IEC Female
Cable OUT - IEC Male (Loop through)
HDMI
TV SCART
S/PDIF (coaxial)
USB 2.0 port : DC 5 V, 500 mA (max.) supported
Net adapter (12 V/0.5 A)

### General Data

Supply voltage:	100 - 240 V AC (SMPS), 50/60 Hz
Power consumption:	4 W (typ.) 6 W (max.)
Power consumption in standby:	max. 1.0 W
Operating temperature:	0 ~ +40 °C
Storage temperature:	-10 ~ +70 °C
Operating humidity range:	10 ~ 95%, RH, Non-condensing
Size (WxDxH) in mm:	168 x 97.5 x 39
Weight in kg:	0.28