



Picture similar

User Manual



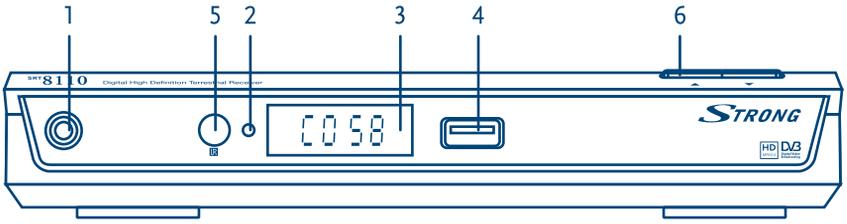


Figure 1

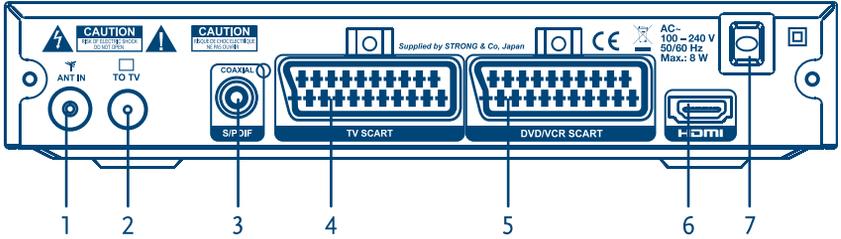


Figure 2

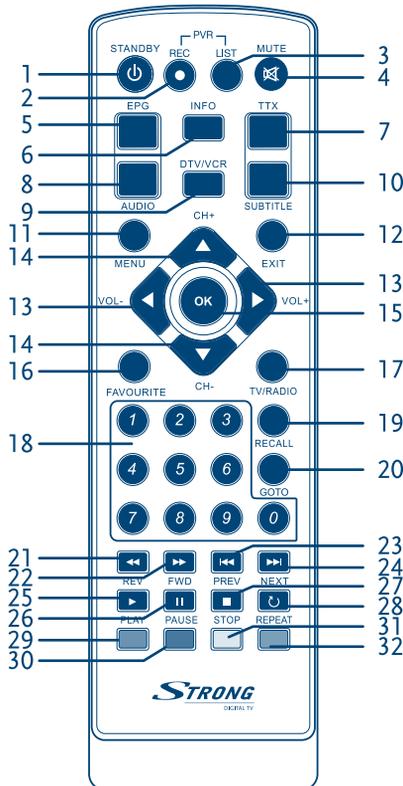


Figure 3

1. Open the cover

2. Install batteries

3. Close the cover

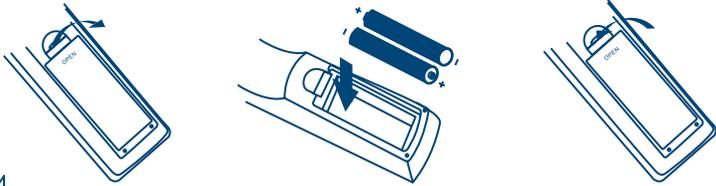


Figure 4

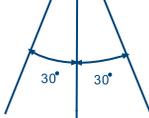


Figure 5

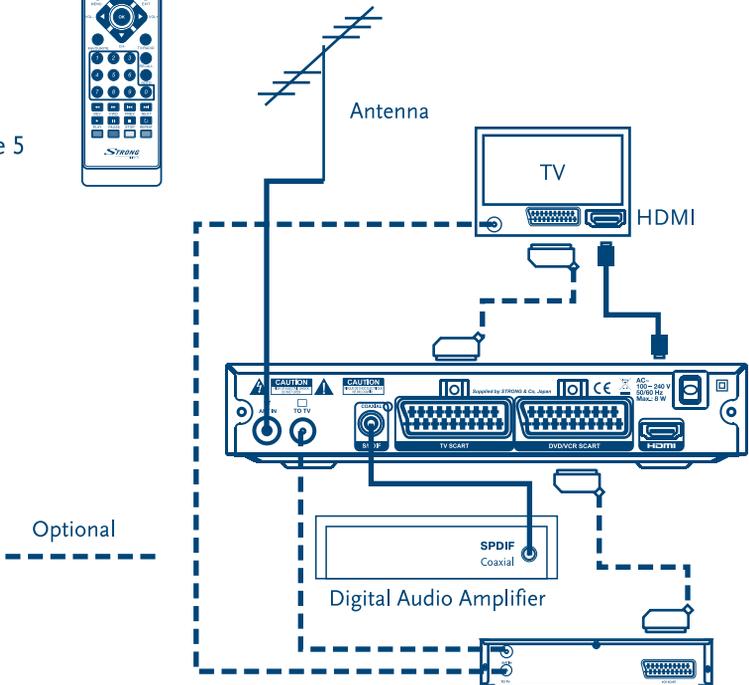


Figure 6

DVD/Video Recorder

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STRONG declares that this item complies with the basic requirements and other relevant regulations of directives CE 2004/108/EEC and 73/23EEC; RoHS 2002/95EEC

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HOTLINE  **0180 5-01 49 91****
* €0,14/Min. from German wired line
 ** €0,42/Min. max. from mobile network

 **0820 400 150****
* €0,12/Min. from Austrian wired line

 **0826 029 928****
* €0,14/Min. from French wired line

1.0 INSTRUCTION

1.1 Safety Instructions

This receiver has been manufactured to satisfy international safety standards. Please read the following recommended safety precautions carefully.

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of not isolated dangerous voltage with the inside of the product that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and servicing instructions in the literature accompanying the appliance.

Read All Instructions - Before you use the product, read all operation instructions. For more information on accessories such as the lithium ion battery, refer to the manuals provided with those products.

Save These Instructions- Save all safety and operating instructions for future reference.

Heat Warnings- Read carefully and follow all warning labels on the product and those described in the instructions.

Follow Instructions- Follow all instructions provided with this product.

Cleaning-Always unplug this product from the wall outlet before cleaning. Use only a damp cloth for cleaning. Never use any type of liquid or aerosol cleaner, or any type of organic solvent to clean this product.

Attachments-For your safety, and to avoid damaging the product, use only accessories recommended by STRONG.

Water and Moisture- Never use this product around water (near a bathtub, kitchen sink, laundry tub, wet basement, swimming pool or in the rain)

Location-To avoid damage to the product and prevent personal injury, never place this product on an unstable stand, tripod, bracket, Follow the instructions that describe how to safely mount the product, and use only the mounting devices recommended by the manufacturer.

Power Sources-Connect this product only to the power source described on the product label. If you are not sure about the type of power supply in your home, consult your local power company. Refer to instruction pages for information on using the product with a battery.

Grounding, Polarization- If this product is used with a specified AC adapter, the adapter may be equipped with a polarized alternating current line plug (a plug with one blade wider than the other). This safety feature allows the plug to fit into the power outlet only one way, If you cannot insert the plug into the wall outlet, pull it out, reverse it, and have the receptacle replaced.

Ventilation- Slots and openings- They are provided for ventilation to ensure reliable operation of the receiver and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the receiver on a bed, sofa, rug, or heat register. This receiver should not be placed in a built-in installation such as a book case or rack, unless proper ventilation is provided. Ensure that free airflow is maintained around the receiver.

Protecting the Power Cord - The power supply cord should be placed so it will not be walked on. Never put a heavy object on the power cord or wrap it around the leg of a table or chair. Keep the area around the power cord connection points, at the power outlet, and at the product connection, free of all AC adapter or accessory power cords.

GENERAL PRECAUTIONS - SAFETY PRECAUTIONS

Lightning- If a lightning storm occurs while using a specified AC adapter, remove it from the wall outlet immediately. To avoid damage from unexpected power surges, always unplug the AC adapter from the power outlet and disconnect it from the receiver when the receiver is not in use.

Overloading-Never overload wall outlets, extension cords, power strips, or other power connection points with too many plugs.

Foreign Objects, Liquid Spillage-To avoid personal injury caused by fire or electrical shock from contact with internal high voltage points, never insert a metal object into the product. Avoid using the product where there is a danger of spillage.

Heat-Never use or store this product near any heat source such as a radiator heat register, stove, or any type of equipment or appliance that generates heat, including stereo amplifiers.

Servicing-Refer all servicing to qualified personnel. Attempting to remove the covers or disassemble the product, could expose you to dangerous high voltage points.

Damage Requiring Service- If you notice any of the conditions described below while using a specified AC adapter unplug it from the wall outlet and refer servicing to qualified service personnel:

1. Liquid has been spilled onto the product or some other object has fallen into the product.
2. The product has been exposed to water.

3. The product does not operate normally despite following operating instructions. Adjust only the controls described in the operating instructions as improper adjustment of other controls could damage the product and require extensive repair work by a qualified technician.
4. The product has been dropped or damaged in any way.
5. The product exhibits distinct change in performance.

Replacement Parts-When replacement parts are required, make sure that the authorized service centre uses only parts with the same characteristics as the originals, as recommended by the manufacturer. Unauthorized substitution of parts could result in fire, electrical shock, or create other hazards.

Safety Check-Upon completion of servicing or repairs, ask the service technician to perform safety checks to determine that the product is in good working order.

Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on or next to the apparatus.

Where the mains plug or all-pole mains switch is used as the disconnect device, the disconnect device shall remain readily operable.

Remote control transmits a directional infrared beam. Ensure to aim the remote control directly at the infrared sensor of the unit during operation. If the sensor has been covered or there is a large object between the RCU and sensor or it is exposed to direct sunlight or a strong artificial light (fluorescent or strobe light) the sensor may not be able to receive the remote signal. In this case, change the direction of the light or reposition the unit.

1.2 Storage

Your receiver and its accessories are stored and delivered in a packaging designed to protect against electric 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 make sure to repack the receiver in its original packaging with its accessories. Failing to comply with such packaging procedures could void your warranty.

1.3 Equipment Set-up

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

- Refer to the user manual of your TV and your antenna.
- Make sure that the Audio/Video connectors and outdoor components of the antenna are in a good condition and the Audio/Video connections are well shielded.

This manual provides complete instructions for installing and using this receiver.

The following symbols will serve as follow.

-  **WARNING** Indicates a warning information.
-  **Tips** Indicates any other additional important or helpful information.
- MENU** Represents a button on the remote control. (**Bold Character**)
- Move to* Represents a menu item within a window. (*Italic Character*)

1.4 Accessories

- 1 User Manual
- 1 Remote control unit
- 2x Batteries (AAA type)

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

2. YOUR RECEIVER

2.1 PIN code default: 8888

2.2 Front panel

- | | |
|--------------------------|---|
| 1 Power button: | To turn ON/OFF the main power supply |
| 2 Standby indicator: | Shows power state of the receiver
<i>green LED</i> - receiver is turned on
<i>red LED</i> - receiver is in standby mode |
| 3 LED display: | Shows channel number |
| 4 USB: | To connect external storage devices |
| 5 Remote control sensor: | Receives the signal from the remote control |
| 6 Channel up/down: | To change channels without using the remote control |

Fig. 1

2.3 Rear panel

- | | |
|-------------------|---|
| 1. ANT IN: | To connect an antenna for reception of broadcasting signal. |
| 2. TO TV: | To connect a TV set or to connect an extra receiver. |
| 3 S/PDIF COAXIAL: | To connect to digital audio amplifier. |
| 4 TV SCART: | To connect receiver with your TV set using a SCART cable. |
| 5. VCR SCART: | To connect to a Video or DVD recorder |
| 6 HDMI: | To connect receiver with your TV set using an HDMI cable. |
| 7 POWER CABLE: | To connect receiver to your main power supply. |

Fig. 2

2.4 Remote Control

- | | |
|-------------------------|--|
| 1. STANDBY | To switch to on or standby |
| 2. REC | Records the TV program to the connected storage device |
| 3. LIST | Displays a list of records available on the connected storage device |
| 4. MUTE | To turn the sound on or off. |
| 5. EPG | To display information about the programme being viewed and what's on next. |
| 6. INFO | To display information about the programme |
| 7. TTX | To open teletext if available on current channel. |
| 8. AUDIO | To select audio track and output mode. |
| 9. DTV/VCR | Switches to VCR input if it is in DTV state.
Switches to DTV if it is in VCR state |
| 10. SUBTITLE | To select subtitles language out of available ones on current channel |
| 11 MENU | To open the main menu. |
| 12. EXIT | To return to the previous screen or menu. |
| 13. ◀▶ | Navigates through the menus.
Increases or decreases volume in live view mode |
| 14. ▲▼ | Navigates through the menus.
Selects the next or previous channel in live view mode |
| 15. OK | To confirm a selection within a menu. |
| 16. FAVOURITE | To access your favourite channels. |
| 17. TV/RADIO | Toggles between TV/radio modes. |
| 18. 0-9 NUMERIC BUTTONS | To select channel numbers or input numbers in menus. |
| 19. RECALL | To switch between the last two viewed channels. |
| 20. GOTO | Selects play time of media |
| 21. ◀◀/REV | Searches backwards during playback |
| 22. ▶▶/FWD | Searches forwards during playback |
| 23. ◀◀/PREV | Skips to previous track during playback |
| 24. ▶▶/NEXT | Skips to next track during playback |
| 25. ▶/PLAY | Starts or resumes playback. |
| 26. /PAUSE | Pauses playback. |

Fig. 3

- | | |
|---------------------|---|
| 27. ■/STOP | Stops playback. |
| 28. C/REPEAT | Repeats playback/stops repeat |
| 29. RED | Flexible functions in OSD MENU and Teletext |
| 30. GREEN | In no menu state changes resolution of HDMI output between 1080i, 720p and 576i; flexible functions in OSD MENU and Teletext. |
| 31. YELLOW | In no menu state changes aspect ratio and aspect conversion of Video outputs; flexible functions in OSD MENU and Teletext. |
| 32. BLUE | In no menu state displays Schedule menu for easy setup timers; flexible functions in OSD MENU and Teletext. |

2.5 Installing the Batteries

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

Fig. 4

 **Note:** 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

To use the remote control, point it towards the front of the digital receiver. The remote control has a range of up to 7 metres from the receiver at an angle of up to 60 degrees.

Fig. 5

The remote control will not operate if its path is blocked.

 **Note:** Sunlight or very bright light will decrease the sensitivity of the remote control.

3.0 CONNECTIONS

3.1 Connecting to TV Set

Fig. 6

3.2 Connecting to Digital Audio Amplifier, DVD/Video recorder

Fig. 6

4.0 FIRST TIME INSTALLATION

After all connections have been made properly, switch on TV and make sure the receiver is connected to the main power. Then switch on the receiver. If you are using the receiver for the first time or restored to factory default, the Installation Guide menu will appear on your TV screen. Use **▲▼** buttons to choose menu item.

1. *OSD Language.* Use **◀▶** buttons to select the language of your preference.
2. *Country.* Use **◀▶** buttons to select your country of residence
3. *Antenna Power.* Use **◀▶** buttons to set ON/OFF. Set to ON only if you use active indoor or outdoor antenna. If it is set to ON the receiver will supply 5V power to the antenna. Please refer to the user manual of your antenna.
4. *Channel Type.* Use **◀▶** buttons to select FTA/ALL. If you set FTA, the receiver will install only Free-To-Air channels. If you set ALL, the receiver will install all available channels available in broadcast.
5. Select *Search Channel* and press **▶** or **OK** to start Auto Scan.

The receiver will indicate progress of tuning. Once channel tuning is completed, the receiver will tune to the first channel in the list. You are ready to watch TV.

5.0 BASIC OPERATIONS

5.1 Program

Press **MENU** and select *Program* using ◀▶ buttons. Press **OK** or ▼ button to edit program settings. Press **EXIT** to exit the menu.

5.1.1 Program Edit

To edit your programme preferences (lock, skip, favourite, move or delete), please go to *Programme Edit*. This Menu requires a password to access. Enter your password or use the default password '8888' if you did not change it.

Set favourite programme

You can create a shortlist of favourite programmes that you can easily access.

1. Select the preferred programme then press the **FAVOURITE** button.
A heart-shaped symbol will appear and the programme is marked as a favourite.
2. Repeat the previous step to select more favourite programmes.
3. To confirm and exit the menu, press **EXIT**

Disable favourite TV or radio programme

Press **FAVOURITE** button on the remote control on the programme with the heart-shaped symbol.

View favourite programme

1. In normal viewing mode (no menu mode) press the **FAVOURITE** to display a list of favourite programmes.
2. Press ▲▼ to choose your favourite programme.
3. Press **OK** to select your favourite programme.

Delete a TV or radio programme

1. Select the programme and then press the **BLUE** button. A message will appear. Press **OK** to delete the programme or **Exit** to cancel
2. Repeat the previous step to delete more programmes.

Skip TV or radio programme

1. Select the programme you would like to skip and press the **GREEN** button.
The programme will be marked to skip. The receiver will skip this programme while zapping between programmes in normal viewing mode.
2. Repeat the previous step to skip more programs.
3. To confirm and exit the menu, press **EXIT**.

Disable a skipped TV or Radio programme

Press the **GREEN** button on the programme marked with the skip symbol.

Move a TV or radio programme

1. Select the preferred programme then press the **RED** button. A move symbol will appear.
2. Press ▲▼ to move the programme
3. Press **OK** to confirm
4. Repeat the above steps to move more channels

Lock programme

You can lock selected programmes for restricted view.

Lock a TV or Radio Programme:

1. Select the preferred programme then press the **YELLOW** button. The programme is now marked as locked.
2. Repeat the previous step to select more programmes
3. To confirm and exit the menu, press **EXIT**.

To view the locked programme, you need to enter either the default password '8888' or your last set password. We recommend changing of your password from default to any of your preference.

Disable a locked TV or Radio programme

Press the **YELLOW** button on the programme marked with the lock symbol.

5.1.2 EPG (Electronic Programme Guide)

The EPG is an on-screen TV guide that shows the program schedule for up to seven days in advance for every tuned channel. Press **EPG** to access the menu.

Use **▲▼** to select the preferred programme. If there is more than one page of information, use the **BLUE** button for page up and the **YELLOW** button for page down.

To view program schedule on other channels use **◀▶** buttons.

To book reminder for desired event press **OK** button.

To display a list of booked events press **INFO** button.

You will find more details about the booking of reminders in chapter 5.4.1 Schedule.

5.1.3 Sort

Sort your channels from the following options:

By <i>LCN</i>	Sort the channels in channel number order (ascending)
By <i>ONID</i>	Sort the channels in order of Network ID (Broadcaster ID)
By <i>Service Name</i>	Sort the channels in alphabetical order
By <i>Service ID</i>	Sort the channels according to the station

5.1.4 LCN (Logical Channel Numbering)

Set LCN ON or OFF.

5.2 Video Setting

Press **MENU** then select Picture. The menu provides options to adjust the video settings. Press **▲▼** to select an option and press **◀▶** to adjust the setting. Press **EXIT** to exit the menu.

Aspect Ratio

You can set the display format to either 4:3 PanScan, 4:3 Letter Box, 16:9 Full Screen or Auto to get the maximum display when watching TV.

 **Tip:** you can change the video output format directly from view mode by pressing the **YELLOW** button on the remote control.

Resolution

If the video does not appear correctly, change the setting. These settings match the most common settings for HDMI.

480i:	for NTSC system TV.
480P:	for NTSC system TV.
576i:	for PAL system TV.
576P:	for PAL system TV.
720P:	for NTSC or PAL system TV.
1080i:	for NTSC or PAL system TV.

 **Tip:** you can change the video resolution directly from view mode by pressing the **GREEN** button on the remote control.

TV format

If the video does not appear correctly, you need to change the settings. This should match the most common setting for TVs in your country.

NTSC:	for NTSC system TV.
PAL:	for PAL system TV.

Video output

CVBS:	CVBS output.
RGB:	RGB output.

5.3 Channel Search

Press **MENU** and select *Search Channel*. The menu provides options to adjust the search channel settings. Select an option and press **◀▶** to adjust the setting. Press **EXIT** to exit the menu.

Auto Search

Search and install all channels automatically. This option overwrites all previously installed channels.

1. Select *Auto Search* and press **OK** or **▶** to start channel search.
2. To cancel channel search, press **EXIT**.

Manual Search

Install new channels manually. This option adds new channels without changing the current channels list.

1. Select *Manual Search* then press **OK** or **▶**. The channel search screen will appear.
2. Press the **◀▶** to select the channel number or enter the channel number using **[0..9]** buttons.
3. Press **OK** to start searching channels

A found channel will be saved and added to the channels list. If channels can't be found, then exit the menu.

 **Tip:** Signal quality and level indicators will show presence of the signal on selected channel frequency.

Country

Select your country of residence. It is important to set the correct country as some tuning parameters depend on the country.

Antenna power

Enable Antenna Power if an external active antenna is connected.

5.4 Time Setting

Press **MENU** select *Time*. The menu provides options to adjust the time settings and allows you to setup scheduled recordings of programmes.

Press **▲▼** to select an option and press **◀▶** to adjust the setting. Press **EXIT** to exit the menu.

5.4.1 Schedule

In this menu you can setup the schedule for automatic recording or switching to the defined channels at a particular date/time.

Add Press **RED** button to add a new booking. In the appearing dialog select the desired channel type and number, the starting date and time, end time, repeat cycle (once, daily or weekly) and mode (view or record). Once you set all parameters, press **OK** to store your booking.

Edit Press **GREEN** button to edit an existing booking.

Delete Press **BLUE** button to delete a booking from the list.

 **Tip:** If you have scheduled recordings, make sure to have an external storage device connected to the receiver. Check periodically, if free space is available on the storage device for future recordings.

Time Offset

Select auto or manual for GMT offset adjustments.

Country Region

Select the Country Region when *Time Offset* is set to Auto.

Time Zone

Select the Time Zone Offset when *Time Offset* is set to Manual.

Sleep

This function will switch the receiver to standby when it doesn't receive any commands for a given period of time .

When this option is set to OFF, the function is disabled. Please set the time after which the receiver should go to stand by or select OFF to disable this function.

5.5 Option

Press **MENU** and select *Option*. In this menu you can to adjust the *OSD Language*, *Subtitle Language*, *Audio Language* and *Digital Audio* mode.

Select an option and press **◀▶** to adjust the setting. Press **EXIT** to exit the menu.

OSD Language

Select the preferred language of On Screen Display.

Subtitle Language

Select the preferred subtitle language.

Audio Language

Select the preferred audio language for watching TV channels.

If the language is not available, the default programme language will be used

Digital Audio

Select digital audio output mode

PCM – audio from any format will be converted to PCM format

RAW – audio from receiver will be send in original format

OFF – digital audio output disabled

5.6 System Setting

Press **MENU** and select *System*. The menu provides options to adjust the system settings.

Press **▲▼** to select an option and press **◀▶** to adjust the setting. Press **EXIT** to exit the menu.

Parental Guidance

You can restrict access to programs that are unsuitable for children below the set age. To restrict/lock the channel you will need to enter either the default password '8888' or your own password. This function depends from broadcaster. It will work only if broadcaster assigns morality levels to the programs according to standards.

Set Password

Set or change the password for locked programs and menu access. Enter your old password or the default password '8888'. You will then be asked to enter your new password. To confirm re-enter your new password. Once it is confirmed, press **EXIT** to exit the menu.

Restore Factory Default

Reset your Set Top Box to the Default Factory Settings.

In Main Menu select Restore Factory Default and press **OK** or **▶** to select. Enter your password or the default password '8888' and press **OK** to confirm. This option will delete all preset channels and settings. The receiver will reboots and start with Installation Guide menu.

Information

View model, hardware and software information.

Software update

If the status is set ON, it will scan new software from broadcast according to your preferred time in Start time.

Software update from USB

Download the required update file for your receiver model from our website <http://www.strong.tv> support page or contact to your local dealer.

Unzip file, if necessary, and copy it to root folder of your USB storage device.

Connect USB storage device to the USB port of the receiver. Enter to the main Menu, select USB. Select Multimedia – Music and press **OK**. In the file list select file with software image and press **OK** to start software update. Update process will take some time. Once update is completed the receiver will display message "Update completed. Please restart". Switch OFF main power and switch it back ON.

WARNING

Do not power off your receiver during update process and flashing data. Do not unplug the USB device during update. This may cause damage of the data in the flash memory and the receiver will need to be repaired.

5.7 USB

Press **MENU** and select *USB*. The menu provides options to playback music and photo files. Supported are MP3, WMA, JPEG, BMP files. The unit supports USB devices with FAT and FAT32 file systems.

5.7.1 Multimedia

If there is no USB device plugged in, a warning message "No USB Device is Found" will be displayed. Otherwise you can select the Music, Photo, Movie or Recordings in this menu and press **OK** to enter the file browser and select the file to playback.

<i>Music</i>	supported file formats are MP3 and WMA.
<i>Photo</i>	supported file formats are JPG and BMP
<i>Movie</i>	supported video files in various formats (MPG, MPEG, TS, VOB, MP4, AVI,...)*
<i>Records</i>	to display list of recordings.

Playback of Movie and Records.

In the *Records* menu you will need to select the folder "MYRECORD" where recordings are stored. In *Movie* menu you have to navigate to the file with movie.

Select the file and press **OK** to start the playback in preview mode. Use the **RED** button to switch between full screen view and the list of recordings. During playback you can use the playback control buttons, such as **PAUSE**, **FWD**, **REV**, **STOP**.

Additionally in the list of recordings you can Delete or Rename a recording file.

To *Delete* a recording – select file with recording and press **YELLOW** button. Confirm file deletion with **OK** button or cancel it with **EXIT** button.

To *Rename* a recording – select the desired file and press **GREEN** button. In appeared dialog you can select the character using the navigation buttons. Press **OK** to choose the character. Once you finish inputting the new name, navigate to "OK" button on screen and press **OK** on the remote control to store the new name.

* STRONG cannot guarantee the playback of video files although extensions are listed here, as it depends on codec used, data bit rate and resolution. Please consult the STRONG Hotline in your country to get more details.

5.7.2 Photo configuration

Slide Time:

You can adjust slide show interval to 1–8 seconds.

Slide Mode:

You can adjust slide show effect as mode 0–59 or random.

Aspect Ratio:

Keep Displays the picture as its original aspect,

Discard: Displays the picture in full screen mode.

5.7.3 Movie configuration

Subtitle Specific:

Small: Displays the subtitle as small mode.

Normal: Displays the subtitle as normal mode.

Big: Displays the subtitle as big mode.

Subtitle BG:

White: Displays the subtitle in white background.

Transparent: Displays the subtitle in transparent background.

Grey: Displays the subtitle in grey background.

Yellow green: Displays the subtitle in yellow green background.

Subtitle Font Color:

Red: Displays subtitle in red font.

Blue: Displays subtitle in blue font.

Green: Displays subtitle in green font

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.

5.7.4 Record configure

Record Device

If you have multiple partitions on your storage device – select one of them as default partition for recording.

Format

If you would like to format storage device or partition on it – select partition and file system to be used. Move focus to Format and press **OK**. You will need to confirm format by pressing **OK** button one more time. Format procedure will take some time, depends from size of storage device used. At the end of process “Format is complete” message will appear.

⚠ Warning: Format functions will delete all records, data and information from your USB device. STRONG will not take any responsibility for damaged or lost data on the USB device.

6.0 RECORDING FUNCTION

To perform a recording you have to insert USB storage device into USB port of the receiver. Select a channel you would like to record and press **REC** button. The recording will start and at let upper corner of the screen you will see recording notification with blinking red dot and record duration.

During a recording you can't change a channel to another one.

You can check details of the recording in progress by pressing to **INFO** button.

To stop a recording press **STOP** button on remote control.

Another way of doing recording is use Scheduler – please refer to 5.4.1 Schedule of this manual.

Average record size (values are approximately, depend from bit rate of actual broadcast):

MPEG2 SD channel – 1 hour take about 2.2 GB space

MPEG4 SD channel – 1 hour take about 1 GB space

MPEG4 HD channel – 1 hour take about 4.5 GB space

Accessing to the recordings. You can access recordings by pressing button **LIST** on remote control. Also list of recordings can be accessed through *Menu – USB – Multimedia – Records*. Please, refer to 5.7.1 Multimedia for details of available functions.

A.1 TROUBLESHOOTING

There may be various reasons for the 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 the dealer or the local Service Hotline. Do NOT open the receiver cover. It may cause a dangerous situation and the warranty will get void.

Problem	Possible cause	What to do
Stand-by indicator do not light up	Mains lead unplugged/multipoint connector switched off Front panel switch is in OFF position	Check mains lead /switch multipoint connector on Set front panel switch to ON position
No signal found	Aerial is disconnected Aerial is damaged/misaligned Out of digital signal area Active antenna requires to switch ON antenna power/external feed	Check aerial lead Check aerial Check with dealer Switch receiver's Antenna Power ON/ connect external feed
No picture or sound on TV	Input is not selected on your TV TV or VCR are not connected to main Bad cable connection	Switch to correct TV input Check mains lead Firmly plug in cables between receiver and TV
Scrambled channel message	Channel is scrambled	Select alternative channel
No response to remote control	Receiver off Handset not aimed correctly IR sensor obstructed Hand set batteries exhausted	Plug in and turn on plug Aim handset at IR sensor Check for obstructions Replace handset batteries
Forgotten channel lock code		Contact local Service Hotline or send email to our Support via www.strong.tv
Forgotten menu lock code		Contact local Service Hotline or send email to our Support via www.strong.tv

Problem	Possible cause	What to do
After moving the receiver to another room you are no longer able to receive digital reception	The aerial feed former new point may come through a distribution system which may reduce the digital signal now received by the box.	Try a direct feed from the antenna
Record not performed	The USB storage device is not connected There is no free space on the storage device The USB storage device format is not supported	Make sure a storage device is connected. Delete some data from the storage device and try again. Make sure your USB storage device is formatted in FAT or FAT32 file system.

A.2 SPECIFICATIONS

Demodulator DVB-T

Modulation: COFDM
 Demodulation: QSPK, 16/64QAM
 IF bandwidth: 7 or 8 MHz
 Guard interval: 1/4, 1/8 1/16, 1/32
 Code rate: 1/2, 2/3, 3/4, 5/6, 7/8

Video Decoder

Profile level: MPEG-2 MP@ML, MP@HL, MPEG-4
 H.264/AVC
 Input rate: Max. 90 Mbit/s
 Aspect ratio: 4:3 Pan & Scan, Letterbox, 16:9
 Frame rate: 25 Hz for PAL, 30 Hz for NTSC
 Video resolution: 576p, 720p, 1080i

Audio Decoder

Audio decoding: MPEG-1 Layer 1 & 2, Dolby Downmix
 Audio mode: Mono L/R, Stereo, AC 3
 Frequency response: ~20 kHz, +/- 2 dB
 60 Hz ~ 18 kHz <+/- 0.5 dB
 Sampling rate: 32, 44.1, 48 kHz

Tuner DVB-T

Connector type: Female, IEC60169-2, 75 Ohm nominal
 Frequency range: VHF: 174 MHz to 230 MHz
 UHF: 470 MHz to 860 MHz
 Signal level: -82 dBm ~ -25 dBm
 COFDM spectrum: COFDM 2K/8K-Carrier
 Antenna supply: 5 V DC max 50mA, overload protected

System & Memory

CPU: MSD7828
 Flash memory: 4 Mbytes
 System memory: 128 Mbytes

Multimedia:

Video playback – supported in various formats (MPG, MPEG, TS, VOB, MP4, AVI...)*
 Audio playback – MP3, WMA formats

Picture view – JPG, BMP formats

*STRONG cannot guarantee the playback of video files although extensions are listed here, as it depends on codec used, data bit rate and resolution.

Connectors

ANT IN; TO TV
 TV SCART (RGB, CVBS, Audio L/R Output with Volume control)
 VCR Scart (CVBS, Audio L/R)
 HDMI (V/A -Output) Type A -Version:1.0
 S/PDIF Dolby Digital Out (Coaxial)
 USB 2.0, Type A Connector

General Data

Input voltage range: 100 – 240 V AC 50/60 Hz
 Power consumption: max. 8 W
 Power consumption in standby: 0.60 W (without external storage device)
 Operating temperature: 0 °C ~ 40 °C
 Storage temperature: -10 °C ~ 50 °C
 Operating humidity range: 10 ~ 85% RH, Non-condensing
 Size (W x D x H) in mm: 220 x 165 x 45
 Weight: 1.2 kg