Picture similar

Digital Terrestrial
Receiver SRT 8010

User Manual

STRONG
DIGITAL TV

English

TABLE OF CONTENTS

HOTLINE
📞 **0180 500 75 43**✱
✱ €0.14/Min. from German wired line
📞 **0820 400 150**✱
✱ €0.12/Min. from Austrian wired line

per February 2008

1.0 INTRODUCTION

1.1 Safety Instructions

DO NOT INSTALL YOUR RECEIVER:
- In a closed or poorly ventilated cabinet; directly on top of or under any another equipment; on a surface which might obstruct the ventilation slots

DO NOT EXPOSE THE RECEIVER OR ITS ACCESSORIES:
- To direct sunlight or near any other equipment that generates heat; to rain or intense moisture; to intense vibration and to any shock which may cause permanent damage to your receiver or to any magnetic objects, such as loudspeakers, transformers, etc
- Do not use a damaged power cord. It may cause a fire or an electrical shock. Do not touch a power cord with wet hands. It may cause an electric shock
- Never open the cover. It is dangerous to touch the inside of the receiver due to high voltage currents and possible electrical hazards. Your warranty will be void if the receiver has been opened
- When the receiver is not used for a long period of time, you should unplug the power cord from the wall socket
- Do not use alcohol or ammonia based liquids to clean the receiver. If you wish, you may clean your receiver with a soft lint-free cloth slightly made damp with a mild soap solution, only after disconnecting from the mains voltage supply. Make sure no foreign objects fall through the ventilation slots because this could cause fire or an electric shock
- Do not place any objects on top of the receiver because this might prevent proper cooling of the components inside

SAFETY PRECAUTIONS
- Do not open the receiver cover, as you will be exposed to a shock hazard. It will also void your warranty. Refer all maintenance or servicing to suitably qualified personnel
- When you are connecting the cables, be sure that the receiver is disconnected from the mains supply voltage. Wait a few seconds after switching off the receiver before you move the receiver or disconnect any equipment
- It is a necessity that you only use an approved extension and compatible wiring that is suitable for the electrical power consumption of the installed equipment. Please ensure that the electrical power supply corresponds with the voltage on the electrical identification plate at the back of the receiver

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

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 the instructions below:

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

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

Move to   Represents a menu item within a window

1.4 Features & Accessories

Features:

- For all digital Free-To-Air TV and Radio programmes (with outdoor or indoor terrestrial antenna)[1]
- Support of MPEG-4 and MPEG-2 standards in standard definition
- DVB-T compliant, Digital UHF/ VHF Tuner with Loop-through function
- Set-up support for first time installation
- Quick and easy installation & user-friendly menu
- Multi-lingual support on screen Menu
- Excellent Audio and Video quality
- Digital audio output through optical S/PDIF
- Automatic and manual channel scan options
- Support of active antenna by 5 V output
- Support of channel numbering defined by broadcaster
- 500 channels memory capacity
- Favourite lists for TV and Radio
- Parental lock function for menu, selectable per channel
- Electronic Program Guide (EPG) for present / following event information and up to 7 days for on screen programme information1
- 3 Operation Modes (Digital TV, Digital Radio, Favourite)
- Support of Teletext (OSD & VBI)
- Multi-lingual subtitling and audio track support
- Timer programmable via EPG
- Edit function for channel names
- **Connections**: ANT IN (antenna input), TO TV (Loop through output), TV SCART with support of RGB and Composite video, 3 RCA (Video, Audio Left, Audio Right), USB, S/PDIF optical, power switch

[1] Subject of local broadcast conditions

Package content:
- 1x Receiver
- 1x User manual
- 1x Remote control
- 2x batteries (AAA type)

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

2.0 YOUR RECEIVER

2.1 Front panel
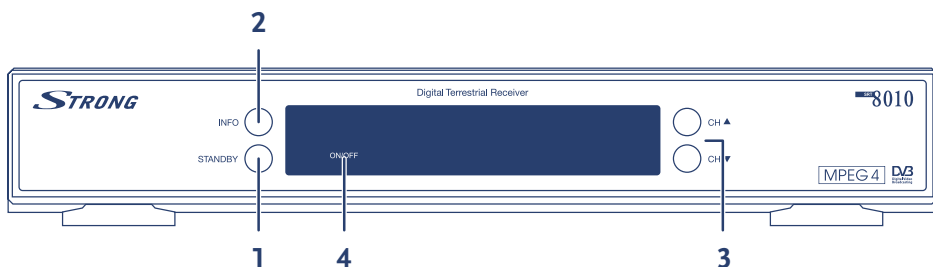
1. **STANDBY**
   Switch your receiver ON and OFF.
2. **INFO**
   Displays information banner (program details).
3. **CH ▲▼**
   For channel zapping in live view mode, navigation up and down in menu mode.
4. **Mode indicator**
   Red color indicates stand-by mode; green color indicates active mode.

STRONG
DIGITAL TV

English

2.2 Rear panel

1. **ANT IN**
   To connect a terrestrial antenna for receiving broadcasting signal.
2. **TO TV**
   To connect a TV set to receive analogue channels or to connect an extra receiver.
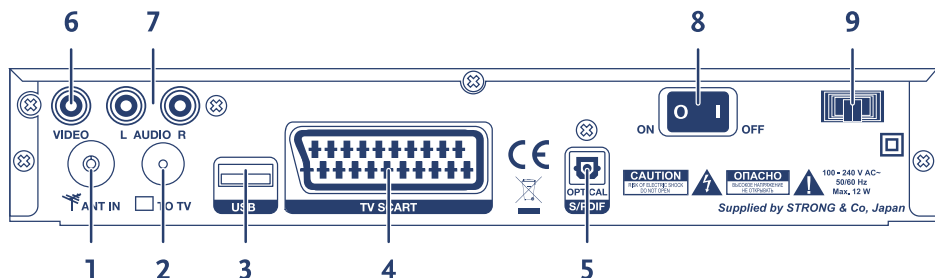3. **USB**
   To connect an external USB memory device.
4. **TV SCART**
   To connect your receiver with your TV set using a SCART cable.
5. **S/PDIF**
   To connect your receiver to digital audio amplifier..
6. **VIDEO**
   This connector has a constant video signal for connection to TV set without SCART connector or to VCR.
7. **AUDIO**
   These connectors give you the possibility to connect the audio signal to an external amplifier or to the audio input of your TV.
8. **Main power switch**
   Power OFF and ON your receiver.
9. **Power cord**
   Your receiver requires a voltage of 100 – 240 V AC (Auto-selectable), 50 ~ 60 Hz +/-5 %.
   Make sure to check the power specification before connecting your receiver to the wall outlet.

⚠ **Warning**: Make sure all connections are made in correct order before connecting your receiver to the mains power. Always at first power on your receiver, then TV set.

2.3 Remote control

1. **MUTE**
   Mutes audio outputs of the receiver.
2. **POWER**
   Turns receiver On/Stand-by.
3. **V+/V-**
   Increase/decrease volume level.
4. **AV**
   toggles SCART output between TV and AV modes.
5. **AUDIO**
   Shows list of available audio languages for the channel you are watching. In addition it sets the current channel audio to stereo, left-mono or right-mono.
6. **P+/P-**
   For zapping to next/previous channel in live view mode and for Page up and down in menu lists.
7. **MENU**
   Displays Main menu of the receiver.
8. **INFO**
   Displays information about current channel.
9. **EXIT**
   Exits from the menu or sub-menu and cancels the progressing function if applicable.
10. **▲/▼**
    For zapping to next previous channel in live view mode, for navigation up/down in Menu mode.
11. **◀/▶**
    For increasing/decreasing volume level in live view mode, for change selected option in Menu mode.
12. **OK**
    Displays channel list in live view mode, to confirm selection in Menu mode.
13. **RED** (RCL)
    Switches back to to previous watched channel in live view mode, content dependent function in Menu mode.
14. **GREEN** (Pause)
    Freeze/resume picture in live view mode, content dependent function in Menu mode.
15. **YELLOW** (Sub)
    Displays list of available subtitles languages in live view mode, content dependent function in Menu mode.
16. **BLUE** (Text)
    Switches to Teletext mode in live view mode, content dependent function in Menu mode.

STRONG
DIGITAL TV

17. **FAV**

Displays list of Favourite groups.

18. **TV/R**

Toggles between TV and Radio modes.

19. **EPG**

Displays Electronic Program Guide.

20. **0..9**

To select channel by number in live view mode, to enter values of parameters in Menu mode.

21. **LIST**

To display channel list in live view mode.

22. **ZOOM**

To zoom in part of live video.

3.0 CONNECTION
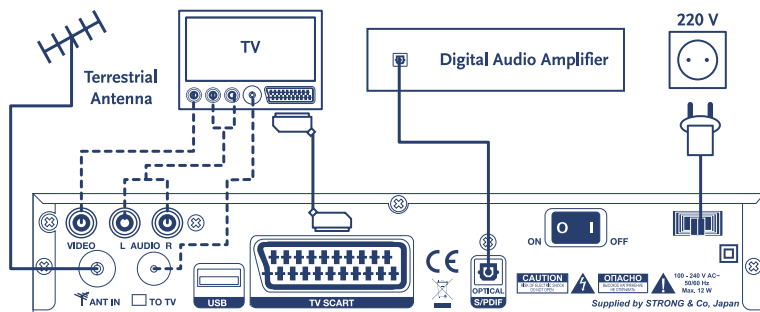
3.1 Connecting to terrestrial antenna.

To receive the broadcast signal, the terrestrial antenna cable should be connected to the ANT IN connector at the back of the receiver.

3.2 Connecting to TV set.

Connecting with SCART cable
Connect one end of SCART cable to TV SCART connector on the back of receiver. Connect another end of SCART cable to SCART connector on your TV set.

Connecting with AV cable

On the back of your receiver you will find the RCA connectors (Audio Left & Right - red & white, Video - yellow). Install an audio/video cable between the RCA connectors of the receiver and those of your TV set or amplifier.

Tips: if you have only one audio input on your TV set, then connect Left (White) audio output of the receiver to audio input of your TV set.

3.3 Connecting to digital audio amplifier

Connect one end of optical cable to S/PDIF output of the receiver. Connect another end of cable to S/PDIF input of digital audio amplifier.

3.4 Connecting of external USB memory device

Extrernal USB memory device should correspond to USB 2.0 standard and it's power consumption should be not more than 500 mA. External USB memory device can be used for software update (see part 5.4.4 of this manual for details). New software versions are published on the web site www.strong.tv (support > download).

4.0 FIRST TIME INSTALLATION

Check correctness of all connections. If you are not sure, ask professional installer to install your equipment. Make sure that power cord is connected to the mains power. Power on your receiver, then turn on your TV set. On TV screen will be displayed menu "*Select your language*" of the installation wizard. The installation wizard will help you to quickly setup your receiver and start to watch programmes.

4.1 Language select

Use buttons ▲▼ to select your language and press **OK** to continue.

4.2 Terrestrial settings

This menu allows you to setup settings specific for your country.
Use buttons ▲▼ to select options and buttons ◄► to change values.

Country: select country corresponded to place of installation. If country is not in the list – select "*Other*".

Antenna power: select "*Enabled*" if you do use active antenna with support of power injection through coaxial cable. Make sure your antenna supplied by 5 V DC and earns not more than 50 mA. If you use passive antenna or your antenna is powered by an external power – select "*Disabled*"

Channel numbering:	select "*Appearing order*" if broadcast in your country does not support logical channel numbering or select "*Operator defined*" if broadcast in your country supports logical channel numbering. If you are not sure which option to select – please consult to your dealer.

To continue installation select *Next* and press **OK**.

4.3 Preferences

In this menu you can setup your preferences. Use buttons ▲▼ to select option and buttons ◄► to change values.

Audio language and *Subtitle language*:	select accordingly to your preferences. The receiver will automatically select preferred language, if it is present in broadcast.
Aspect ratio:	setup accordingly to aspect ratio of your TV set.
Conversion mode:	it is recommended to use *Letter Box*. If broadcast include channels for different aspect ratio then your TV set, then receiver will convert video in such a way, that complete video picture fits to screen. In *Pan Scan* mode geometrical proportions of picture would not be changed, however, part of video will be truncated.
Summer time:	set to "*On*" during summer time (day light save period) or "*OFF*" during winter time.

To continue installation select *Next* and press **OK**.

4.4 Adjust antenna

This menu allows you to select best location and direction of your antenna, especially when you use indoor antenna.

Channel:	select channel where available digital terrestrial broadcast at your location. Please, consult to your dealer for details.
Bandwidth:	digital terrestrial broadcast uses bandwidth *8 MHz* for channels 21 ~ 69. Bandwidth *7 MHz* used for channels 5 ~ 12.

Adjust (if necessary) position and direction of your antenna to get maximum levels of signal level and quality.

To complete installation and start channel search process select *Next* and press **OK**.

4.5 Channel setup

Channel setup process will take few minutes. Once it is completed the receiver will store found channels and switch to live view with channel number 1.

Now installation is completed and you can enjoy digital TV and Radio.

5.0 MAIN MENU

All settings of the receiver can be done in Main Menu. Main menu consist of: "*Channel organiser*", "*Installation*", "*Preferences*" and "*Setup*". To access to the Main Menu press button **MENU** on the remote control.

5.1 Channel organiser

Using buttons ◄►, select item *Channel organiser*. In this menu you can sort and edit channels, as well as manage Favourites. Use buttons ▲▼ to select submenu and press **OK**.

5.1.1 Service Manager
In this menu you can sort channels, move channels to wished position, delete, lock or rename channels. At the left part of screen displayed list of channel groups (All TV channels, All Radio channels and 8 Favourite groups). At the right part displayed list of the channels included to relevant group.
To switch between parts of screen, and as a result between operations under channel group and operations under single channels, use buttons ◄►.

Operations under groups of channels.
Use buttons ▲▼, to select group of channels.

Delete all.
To delete all channels included to selected group of channels press **RED** (*Del All*) button. All channels included to selected group will be marked to delete. Delete operation will be executed after pressing to **GREEN** (*Save*) button. Delete of all channels from groups "*All TV*" and "*All Radio*" will delete these channels from favourite groups as well. Delete of all channels from favourite groups would not delete channels from groups "*All TV*" and "*All Radio*".

⚠ **Warning**: after press to **GREEN** (*Save*) button all channels from selected group will be deleted. It is not possible to undo this operation.

Save (**GREEN**): Pressing to this button will save changes made in the channel groups.
Sort (**YELLOW**): Use this button for automatic sorting channels in selected group.

"*Alphabet, A-Z*":	channels will be sorted in alphabet order.
"*Frequency Low-High*":	channels will be sorted in frequency order: first will be placed channels broadcasted on low frequencies, then channels broadcasted on higher frequency.
"*First FTA*":	Free-To-Air channels will be placed at first positions of the list, scrambled channels will be placed at the end of the list.
"*First Scrambled*":	Scrambled channels will be placed at first positions of the list, FTA channels will be placed at the end of the list.

To store changes press **GREEN** (*Save*) button.

Tips: Channels are sorted only in selected list. Sorting of the channels in one list would not cause change of order in other lists.

To Lock access to all channels in selected group press **OK** and save changes by pressing **GREEN** (Save). Viewing of locked channels will require entering of the PIN code (if option "*Service Lock*" in menu *Settings – Parental Control* is "*Enabled*").
To remove channel lock press **OK** button again on the group of channels and store changes by pressing **GREEN** (*Save*) button.

Operations under single channel.
To execute operations under single channel move menu focus to the right part of screen (Channel list). All operations under single channel are same as for groups of channels. Difference is only in sort function. Single channel can be moved to selected position in the list.

Channel move.
Select channel that you wish to move to new position and press **YELLOW** (*Sort*) button. At the right side from channel name will appear symbol ▲▼. Use buttons ▲▼ to move channel to new position and press **OK** to confirm new position. To store result press **GREEN** (*Save*) button.

Channel rename.
Select a channel you wish to rename and press **BLUE** (*Rename*) button. On screen will be displayed alphabet. Use buttons ◄► ▲▼ to navigate between symbols and button **OK** to select (add to the name). To delete symbol from the name select character ◄ and press **OK**. To toggle between Latin and Cyrillic alphabet use **RED** (*Lat/Cyr*) button. To store changes press **GREEN** (*Save*) button, to discard changes press **EXIT**.

5.1.2 Favourite manager
In this menu you can prepare favourite lists.
At the left side of screen displayed list of all channels. Header of the list shows type of channels (*TV* or *Radio*) and number of the channels in the list. To toggle between TV and Radio use **TV/R** button.
At the right part of screen displayed list of favourite channels (it is empty by default). Header of this part displays name of favourite group and number of channels. To select favourite group use **FAV** button.
To switch between all channels list and favourite list parts use buttons ◄►.

Add channel to the favourite group.
To select channel use ▲▼ buttons and press **OK** to confirm your choice. Name of the selected channel will appear in favourite group.
Add in same way other channels to favourite groups.
To store changes press **GREEN** (*Save*) button.

Remove channel from favourite group.

Use button **FAV** to select favourite group where you wish to remove channel. Use button ▶ to move menu focus to the right part of screen (favourite group content). Use buttons ▲▼to select channel that you would like to remove and press **OK** to confirm.
To store changes press **GREEN** (*Save*) button.

5.2 Installation

Menu «*Installation*» consist of following submenus: «*Auto Scan*», «*Manual Scan*», «*Advanced Scan*» and «*Terrestrial setting*».
In first order make sure that all Terrestrial Settings are corresponds to broadcast parameters in your area.

5.2.1 Auto Scan

Select this item and press **OK** to start automatic scan of all channels broadcasted in your area. During search process on screen will be displayed following information: scanned frequency, number of scanned frequencies/total number of frequencies, number of found channels and their names.
At the end of scan process you will have possibility to select one of the options:

- Store found channels and switch to live view mode by pressing **OK** button;
- Store found channels and return to menu by pressing **MENU** button;
- Discard channel search result and return to menu by pressing **EXIT** button.

In case of no channels found the receiver will display corresponded message. In such a case make sure that antenna is connected to the ANT IN connector. Repeat auto scan after all connections are checked.

5.2.2 Manual Scan

This function can be used in case of broadcast is present on not standard frequency.
Select this item and press **OK**. *Manual Scan* menu will be displayed on screen.
Frequency: using buttons **0..9** enter frequency in KHz, for example 474000.
Bandwidth: using buttons ◀▶ select channel bandwidth.
Make sure that signal level and quality are acceptable (more than 50 %) and press **GREEN** (*Start Scan*) button.
At the end of scan process you can select one of the options described in part 5.2.1.

STRONG
DIGITAL TV

English

5.2.3 Advanced Scan

This function can be used if necessary to find new channels on already installed frequencies or on one of the new frequencies of broadcast.

Select this item and press **OK**.

In *Advanced Scan* displayed information about broadcast channel (*MUX*), frequency in KHz and other technical parameters (*TX* – transmission mode, *CR* – error correction, *Const* – modulation mode, *GI* – guard interval). All parameters are detected automatically.

Below of the table with broadcast parameters displayed bars indicated signal level and quality of selected broadcast channel.

To start scan on all broadcast frequencies press **GREEN** (*Auto scan*) button.

To scan one or several broadcast frequencies: select frequency using ▲▼buttons and press **OK** to select it. Repeat this for all frequencies you wish to scan. Press **RED** (*Scan selected*) button to start scan process. At the end of scan process you can select one of the options described in part 5.2.1.

5.2.4 Terrestrial Setting

In the menu "*Terrestrial Setting*" you should setup parameters that allow receiver to function correctly in your area.

Use buttons ◄►▲▼ to navigate and selection of *Country*, *Antenna Power* and *Channel numbering*. Use button **OK** to display lists of available options.

Country: Select country where receiver is installed. Parameters of broadcast are different from country to country and this parameter is very important. Change of country will delete all installed channels and you need to scan them again.

Antenna power: Select "*Enabled*" if you do use active antenna with support of power injection through coaxial cable. Make sure your antenna supplied by 5 V DC and earns not more than 50 mA. If you use passive antenna or your antenna is powered by an external power – select "*Disabled*"

Channel numbering: Select "*Appearing order*" if broadcast in your country does not support logical channel numbering or select "*Operator defined*" if broadcast in your country supports logical channel numbering. If you are not sure which option to select – please consult to your dealer.

To store changes press **GREEN** (*Save*) button.

5.3 Preferences

In this menu you can setup preferred menu language, audio and subtitles languages, setup video output, time settings and tune some options of OSD display.

5.3.1 Language
Select OSD language, audio and subtitles languages.
To select language use buttons ◄► or press **OK** to display list of available options and select language by ▲▼ buttons. Press **GREEN** (*Save*) to store changes.

5.3.2 TV Output
To select value use buttons ◄► or press **OK** to display list of available options and select value by ▲▼ buttons. To store changes press **GREEN** (*Save*) button. To discard changes press **EXIT**.

TV Standard: setup accordingly to standard used by your TV set. Please, consult to the User Manual of your TV set.

Tips: in case of picture disappears from screen and not appeared in 15 seconds – press **EXIT** 2 times. Such a problem may appear if your TV set do not supports selected standard.

Aspect ratio: setup accordingly to aspect ratio of your TV set.
Conversion mode: it is recommended to use *Letter Box*. If broadcast include channels for different aspect ratio then your TV set, then receiver will convert video in such a way, that complete video picture fits to screen. In *Pan Scan* mode geometrical proportions of picture would not be changed, however, part of video will be truncated.
SCART mode: allows you to select between *RGB* and *Composite video* output. It is recommended to use *RGB* mode because it gives better quality of picture.

5.3.3 Time Setting
To select language use buttons ◄► or press **OK** to display list of available options and select language by ▲▼ buttons. Press **GREEN** (*Save*) to store changes or **EXIT** to cancel.
Offset: select time offset from Greenwich Meridian Time. Value *Auto* require support from broadcaster side. In this mode *Time offset* sets automatically and Summer/Winter time managed automatically.
Summer Time: set "*ON*" during summer time (day light save period) or "*OFF*" during winter time.
For your information current date and time are displayed on the bottom of screen.

5.3.4 OSD Display
To select language use buttons ◄► or press **OK** to display list of available options and select language by ▲▼ buttons. Press **GREEN** (Save) to store changes or **EXIT** to cancel.
Banner Show: set to ON if you wish to display information banner when zapping between channels or OFF if you do not want to see banner on channel zapping.
Banner time-out: set duration of zapping banner display on screen.
Transparency: set level of menu transparency.

STRONG
DIGITAL TV

5.4 Setup

In this menu you can setup Timer for switching receiver ON/OFF according to schedule, block access to the receiver settings and channels, get information about software and hardware version of your receiver, update software and return receiver to factory settings.

5.4.1 Timer

Setting up Timer make possible to switch receiver to channels automatically, according to schedule.

Number: To select timer number use buttons ◄►

Status: By default set to *Disabled*. Set to Enabled in order to get access to other options of timer.

Action: You can select one of the following actions:
- "*Power On*":   receiver will be turned ON at defined date and time on selected channel.
- "*Interval*":   receiver will be turned ON at defined date and time on selected channel. At the end of interval the receiver will be turned to stand-by mode.
- "*Power Off*":   receiver will be turned OFF at defined date and time.

Cycle: You can setup repeating cycle of the timer action. The receiver will execute action once, daily or weekly.

Date or *Week day*:   Press **OK** button to display calendar or list of week days. In calendar use ▲▼◄► buttons to select date, **P+/P-** to change month. Press **OK** to confirm selection. If timer cycle set to *Everyday* the date selection is not active. If timer cycle set to *Weekly* – you can select week day.

Time: use buttons **0..9** to enter time in Hours:Minutes format.

Duration: use buttons **0..9** to enter interval between Power ON and OFF. This option not available if *Action of timer* set to *Power On* or *Power Off*.

Channel: press button **OK** to display channel list. In the channel list use navigation buttons to select channel and **OK** to confirm selection. You can use button **TV/R** to switch between TV and Radio channels.

To store settings of Timer press **GREEN** (*Save*) button. To discard changes press **EXIT**.

5.4.2 Parental control

In this menu you can setup restriction of access to menu and *Enable/Disable* lock of the channels that are marked as locked in the channel organizer.

Menu Lock: *Disabled* by default. If you wish to lock access to Menu then set this option to *Enabled*.

Service Lock: *Enabled* by default. Viewing of the channels marked as locked possible only after entering PIN code. If you wish to disable lock of access to locked channels then set this option to *Disabled*.

Change Password: In this menu you can change your password (PIN code). Select this option and press **OK**.

On the factory PIN code is set to «**0000**». If you forgot your PIN code – call to service support.

5.4.3 System Info

Select this item and press **OK** to get information about installed software version and hardware version in your receiver.

5.4.4 Software update

Before enter to this menu you need to insert USB memory module to USB port at the back of your receiver. Files with new software should be copied to USB memory module.
Enter to the menu by pressing **OK** button. If USB memory module inserted correctly then you can start update by pressing **OK** button. In case files on USB memory module are correct the update will start. You will see progress of update on screen.

⚠ **Warning**: Do not power off your receiver during update process. This may damage your receiver.

5.4.5 Factory Reset

Use this function only in case of needs to return to the factory settings. This function will erase all channels, favourite lists and your personal preferences. To activate factory reset you will need to enter PIN code.
After factory reset receiver will appear with first time installation wizard.

6.0 DAILY OPERATIONS

6.1 Electronic Program Guide (EPG)

Electronic Program Guide available from live view mode. It displays program information, if supported by broadcast.

To enter to Electronic Program Guide press **EPG** button on remote control.
In this menu screen divided to 3 parts: at the left represented channel list, at the right represented program schedule, at the bottom displayed short details of selected program.
In the channel list select channel using buttons ▲▼.
Use buttons ◄► to switch between channel list and program schedule.
To display program schedule for following/previous day use **GREEN**/**RED** buttons.
To display details of selected program press **OK** or Info button. Use buttons ▲▼ to scroll information in program details mode.
To setup Timer to selected program use **YELLOW** button. Timer setup described in part 5.4.1 of this manual.
To return from EPG mode to live view mode press **EXIT**.

6.2 Channel information

Information banner displayed on screen every time when you zap channel in live view mode. It displays information about channel type (TV or Radio), date and time information, channel number and name, start time and name of the present and following program on the channel. As an icons displayed information about availability of subtitles, Teletext, audio mode and screen format of the current program.
Information banner can be invoked on screen by pressing to **INFO** button.
If you press **INFO** button 2 times then information banner will display technical parameters of the current channel and signal level and quality indicators.

6.3 Channel list and view mode

To display current channel list press **OK** button.
To select channel use buttons ▲▼◄►. To zap to selected channel press **OK** button and to switch to full screen press **OK** button again.

6.3.1 Fast alphabet filtering
In channel list mode press **RED** (*Filter*) button to filter channels in alphabet order. At the right side alphabet will be displayed. Select first letter of the channel name that you need to find in the list and press **OK**.

6.3.2 Favourite list selection
To change to Favourite mode press **FAV** button from full screen view mode or channel list mode. On screen will be displayed list of favourite groups. Use buttons ▲▼ to select group and press **OK** to confirm. To return to all channel list mode select group "*All*" from the list.
To switch between TV and Radio modes use **TV/R** button.

6.3.3 Audio track and mode selection
To select alternate audio track press button **AUDIO** on remote control. On screen will be displayed list of available audio tracks. Use buttons ▲▼ to select audio track. To select audio mode (*stereo*, *left*, *right*) press button ► and use buttons ▲▼ to select mode.
Press **OK** to confirm.

6.3.4 Teletext
In live view mode press button *Text* (**BLUE**). If channel broadcasted with Teletext in several languages then select language and press **OK**.

6.3.5 Subtitles
In live view mode press button *Sub* (**YELLOW**). On screen will be displayed list of subtitles languages. Select language of your choice and press **OK**. If you wish to disable subtitles then select *OFF* from the list.

6.3.6 Zoom part of video

In live view mode press button **ZOOM**. On screen will be displayed rectangle which represents area of screen to be enlarged. Use buttons ▲▼ and ◄► to move Zoom area. To change Zoom ratio press **ZOOM** button again. To activate Zoom function press **OK**. To return to normal view mode press **EXIT**.

6.3.7 Pause

Press **PAUSE** button to freeze video. Press this button again to return to live video.

6.3.8 Recall

To recall previous watched channel press **RCL** button.

A.1 TROUBLE SHOOTING

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. Don't open the receiver cover. This may cause a dangerous situation.

Symptom	Cause	Remedy
Indicator ON/OFF on front panel do not light up	Power cord is not plugged to the wall outlet. Power switch on the back of the receiver is in OFF position	Check connection of the receiver to the mains. Make sure to turn power switch on the back of the receiver to ON position.
Video or Audio absent	Not correct connection of cables between receiver and TV set. TV- Set is switched to a different input than the connected.	Unplug all cables from receiver and TV set. Connect them back again carefully. Increase volume level (press V+ button on remote control of receiver). Increase volume level on TV set. Switch ON your TV set. Select the input accordingly.
Message "No signal" on screen	Bad connection between receiver and antenna. Incorrect settings in Terrestrial setting. Incorrect direction of antenna.	Check connection of cable between receiver and antenna. Check settings in menu Installation – Terrestrial Setting. Possible you do use active antenna but antenna power switched OFF. Check signal level and quality. Correct direction of antenna, if necessary.

STRONG
DIGITAL TV

Symptom	Cause	Remedy
Remote control doesn't work	Batteries are discharged or not correct installed.	Check correct installation of the batteries. Change batteries
Message "Antenna circuit overload" on screen	Short cut in cable between antenna and receiver or antenna is out of service.	Disconnect receiver from main power. Check the cable between receiver and antenna. Replace cable or/and antenna.

A.2 SPECIFICATION

Tuner

Input connector: Type IEC60169-2 female, 75 Ohm
Input frequency range: VHF: 174 MHz ~ 230 MHz
UHF: 474 MHz ~ 858 MHz
Bandwidth: 6, 7 and 8 MHz
Input signal level: -82 ~ -20 dBm
Signal spectrum: COFDM, transmition modes 2K/8K
Antenna power: 5 V DC, max. 50 mA, short cut protected

Demodulation

Demodulation modes: QSPK, 16-QAM, 64-QAM
Guard interval: 1/4, 1/8 1/16, 1/32
Error correction: 1/2, 2/3, 3/4, 5/6, 7/8

Video decoder

Profile: H.264/AVC Main Profile and High Profile@Level 3 for H.264/AVC and MPEG-2 Main Profile@Main Level for MPEG-2
Input bit rate: Max. 90 Mbit/s
Aspect ratio: 4:3, 16:9, Pan & Scan, Letterbox
Frame rate: 25 Hz for PAL and SECAM, 30 Hz for NTSC
Resolution: 720 x 576 for PAL and SECAM, 720 x 480 for NTSC

Audio decoder

Audio compression modes: MPEG-2 Low Complexity AAC (LC-AAC), MPEG-4 High Efficiency AAC (HE-AAC), MPEG-2 Layer II, MPEG-1 Layer I, MPEG-1 Layer II
Audio modes: Mono L/R, Stereo, Dolby Digital (dd)
Frequency response: 20 Hz ~ 20 kHz, <+/-2 dB
60 Hz ~ 18 kHz <+/- 0.5 dB
Sampling rate: 32, 44.1, 48 kHz

System and memory

CPU:	STi5202
Flash memory:	4 MByte
SDRAM memory:	64 MByte

Connectors

Antenna input (ANT IN)
LOOP through output (TO TV)
TV SCART (RGB, CVBS, audio left and right with volume control)

3 RCA:	Video, Audio Left and Right

S/PDIF optical

USB:	2.0, type A

General characteristics

Input voltage range:	100 – 240 AC, 50 – 60 Hz
Power consumption:	max 12 W
Operating temperature:	+5 ~ +40 °C
Storage temperature:	-20 ~ +70 °C
Operating temperature range:	10 ~ 85 % RH, non-condensing
Size (W x D x H):	260 x 190 x 45 mm
Weight:	1.2 kg

ENVIRONMENTAL ISSUES

STRONG is committed to reducing the impact of its products on the environment. To maximise the benefits of our design enhancements, your co-operation is required.

Electronic product recycling
Do not dispose of this product with your domestic rubbish.

At the end of its useful life, this product contains materials which when processed correctly can be recovered and recycled. By participating in the responsible recycling of this product you will be reducing the requirement for new raw materials and reducing the amount of material that would otherwise end up in landfill. When you purchase a new, similar product your retailer may offer to take this old one off you. Alternatively, you can take it to your local recycling centre. Your retailer or local municipal authority will advise you of the collection facilities available for waste electronically products in your area. User of this service will be free to you.

Within the scope of the European legislation on Waste Electrical and Electronic Equipment (Directive 2002/96/EC valid as of August 2005) STRONG provides a recycling system free of charge for consumers to returning products after end of life. For more information about STRONG's environmental policy to you:

www.strong.tv - select "*About us*" and "*Environmental Policy*" from the submenu.

Packaging
When disposing of this product packaging, please ensure that it is recycled. Packaging material is to be depolluted in waste separation.

Power Saving
To save power and money, please put the product into standby mode when not in use. We also recommend disconnection from mains supply when not in use for longer periods of time.

Batteries
Do not dispose of the batteries from your handset with your domestic waste.

Where they are available, participate in your local municipal or retailer collection schemes for spent batteries. Batteries discarded in landfill sites or incinerated increases the chances of pollutants being dispersed into the atmosphere.

Alternations reserved 12/2008