



Digital High Definition Terrestrial Receiver SRT 8300 CI

User Manual



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1.0 INTRODUCTION

1.1 Safety Instructions



CAUTION RISK OF ELECTRIC SHOCK



CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE FOR SERVICING.

Explanation of WARNING symbols

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of not isolated dangerous voltage within 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 the following instructions carefully

WARNING: TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK OR ANNOYING INTERFRERENCE, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE AND ONLY USE THE RECOMMENDED ACCESSORIES.

- Read All Instructions Before you use the product, read all
 operating 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, table or cart. Mount only on a stable tripod, stand, or 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 adaptermay 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 then reinsert it. If the plug still fails to fit, contact an electrician and have the receptacle replaced
- Protecting the Power Cord The power supply cord should be placed so it will not bewalked 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 a distinct change in performance.
- Replacement Parts When replacement parts are required, make sure that the authorized service center 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 toperform 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 the apparatus.
- Where the mains plug or all-pole mains switch is used as the disconnect device, the disconnect device shall remain readily operable.



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 Audio/Video cables 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.

A

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 Character)

Move to Represents a menu item within a window. (Italic Character)

1.4 Features & Accessories

- HDTV receiver for all digital Free-To-Air TV and Radio programmes via terrestrial antenna
- 2 Common Interface slots compatible to most popular Conditional Access Modules* (e.g. CryptoWorks, Conax, Viaccess, Irdeto, Mediaguard ...)
- Exceptional bright and clear TV pictures and excellent sound in DVD quality
- High speed storage, copy and loading function for channel list(s) and software from USB storage devices
- 5 000 channels memory capacity
- Display showing channel number or time
- 4 Favourite lists for TV and Radio
- Zoom functions for TV pictures
- Electronic TV Programme Guide for present/following event information
- 7 Timers with 3 modes (daily, weekly, once)
- Teletext via receiver, multi-lingual subtitling and audio track support
- Parental lock function with rating control
- Quick and easy installation & user-friendly menu
- Multi-lingual support on screen menu (OSD)
- USB 2.0 for USB storage devices
- Selectable output for 1080i, 720p and 576p format

3



- Aspect ratio adjustment 4:3, 16:9, Pan & Scan, Letterbox
- Software Update via USB 2.0 port and RS-232
- Digital sound through optical and coaxial output (S/PDIF)
- Fully DVB compliant, supports MPEG-2, MPEG-4 and H.264.
- Multiple Video Outputs: HDMI, Component(Y, Pb, Pr), SCART (RGB, CVBS), Video RCA.

Accessories

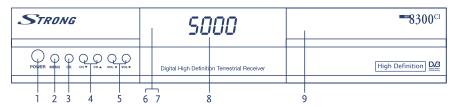
- 1 x User Manual
- 1 x Remote control unit
- 2 x Batteries (AAA type)



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. POWER

Switches the receiver power On and Standby.

2. MENU

Gets into Main Page screen.

3. **OK**

Executes the selected item.

4. CH Up/Down

Channel up/down or selects the item of Menu.

5. VOL Up/Down

Volume up/down or selects the item of Menu.

6. Stand-by LED

Light up **RED** when receiver is in stand-by mode. Off when receiver is in awake mode.

7. USB LED

Light up GREEN when USB device is connected to USB connector at the back of the receiver.

8. 4 digits indicator

In awake mode displays channel number. In stand-by mode displays current time/

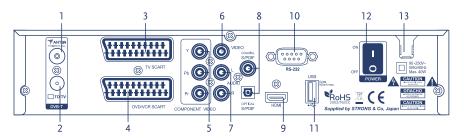
9. Front panel flap

9.a 2 Common Interface slots

9 b Smart card reader for Conax smart card



2.2 Rear Panel



1. ANT IN

To connect the antenna cable to this connector.

2. TO TV

Gives you the possibility to connect an extra terrestrial receiver.

3. TV SCART Connector

Use this connector to connect your receiver with your TV set using a SCART cable.

4. DVD/ VCR SCART

Use this connector to connect your receiver to your video recorder using a SCART cable. When receiver in stand-by mode a video/audio signals from your VCR will be looped through receiver to your TV set.

5. Y, Pb, Pr

Connects to Component jack of TV.

6. VIDEO

This connector has a constant video signal for additional VCR-connections.

7. Audio L/R

Outputs for Audio Left (White) and Right (RED).

8. S/PDIF Coax and Optical

Output for connecting to a digital audio amplifier.

9. **HDMI**

Connects to HDMI jack of TV.

10. RS-232 Serial Port

This serial port can be used to connect your PC to your receiver to download new software versions to your receiver.

11. USB

Connects to USB device.

12. Power ON/OFF Switch

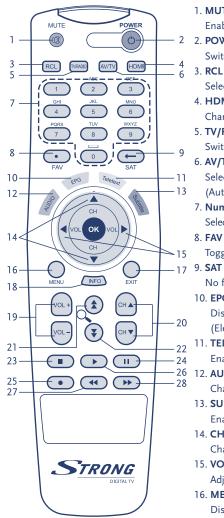
Powers on/off.

13. Power Cord

Your receiver requires a current of 90 \sim 240 V AC (Auto-selectable), 50 \sim 60 Hz \pm -5%. Make sure to check the power specification before connecting your receiver to the wall outlet.



2.2 Remote Control Unit



1. MUTE

Enables or disables the audio

2 POWER

Switches the receiver between operation and standby mode.

3. **RCL**

Selects the previously viewed channel.

4. HDMI

Changes the resolutions of video (Switch HD type)

5. TV/RADIO

Switches between TV and Radio.

6. AV/TV

Selects the TV, VCR, STB (receiver output) or AUTO (Automatic) mode for the TV SCART output.

7. Numeric buttons

Select the TV or Radio service channels and individual menu.

8. **FAV**

Toggles the selected favorite mode.

No function

10. **EPG**

Displays the TV or Radio program guide. (Electronic Program Guide)

11. TELETEXT

Enables teletext mode.

26 12. **AUDIO**

Changes the audio languages.

13. SUBTITLE

Enables subtitle mode.

14. CH ▲▼

Changes channels or moves to the item in the menu.

15. **VOL ◀▶**

Adjust the volume or moves to left or move item in the menu

16. **MENU**

Displays the main menu on screen.

17. **EXIT**

Returns to the previous menu or normal viewing mode from a menu.

18. **INFO**

Displays the program information box on the screen.

19. V-/V+

Turns volume up or down.



20. CH-/CH+

Changes channels up or down on normal mode.

21.

Moves up a page in the channel list. (Selects zoom In/out)

22. 🔻

Moves down a page in the channel list.

23. **STOP**

Stops recording, timeshift or playback.

24. **PAUSE**

Timeshift deactivated: Pauses the playing picture or go again to normal mode. Timeshift activated: Starts the function. Further it is used to pause the playback.

25. RECORD

Records the program.

26. **PLAY**

Starts the playback assumed that recording/s were already done. Then you can select a file from the *Recording File List*.

27. **REWIND**

Starts reverse playback and changes the speed of reverse playback.

28. F/F

Starts fast forward or fast motion playback and changes the speed of forward playback.

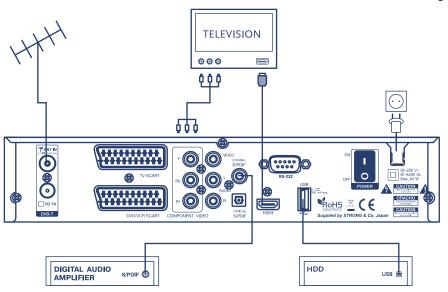


3.0 CONNECTIONS

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

Fig. 3



3.2 Connecting to TV & VCR

Connecting by HDMI cable

To fully enjoy your HDTV channels it is advisable to use HDMI or Component video outputs of your receiver. Connect one end of HDMI cable to the HDMI output of your receiver and another end of cable to HDMI IN connector on your TV.

Connecting to component output

- Make sure to use proper cable (3 RCA on each side of cable, usually coloured as GREEN, BLUE, RED).
- Connect chinches at one side of the cable to Y, Pb, Pr (GREEN, BLUE, RED) outputs on your receiver and another side of the cable to corresponded inputs on your TV. Very important to follow colour mark.



Connecting by SCART cables

- Connect the TV SCART connector at the back of the receiver to the SCART IN connector on your TV set or connect Video RCA and Audio L/R RCA connectors at the back of the receiver to corresponded inputs on your TV set.
- 2. Connect the VCR SCART connector of the receiver to the SCART-IN connector on your VCR set.



Please, make sure that your receiver is connected by SCART or 3 RCA cable (Video, Audio L/R) to your TV set when you connect your VCR (or DVD) to receiver. You will not get video signal from your VCR (DVD) through the receiver if your receiver is connected only by HDMI or YPbPr connector to your TV set.

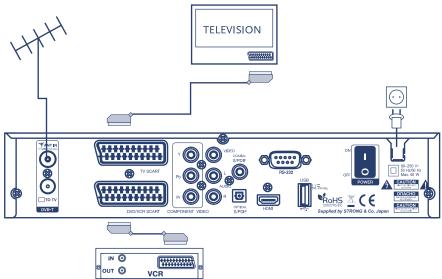


Fig. 4

3.3 Connecting to Digital Audio Amplifier

Connect S/PDIF connector at the back of your receiver to appropriated input of your Digital Audio Amplifier.

Fig. 3

3.4 Connecting to computer by serial cable

Connect the RS-232 connector on the back of your receiver to the Serial port of your computer using a serial cable. Instructions how to download software can be found on our website www.strong.tv (support > download). However, this receiver can download new system software from USB stick.



3.5 Connecting to external USB Hard disk

Switch on your external HDD (connect the power adapter if applicable) before you connect the USB connector at the back of your receiver. After finishing the First Installation (Cap. 4.0) proceed with following steps:

- 1. Unless the USB-Hard disk is already formatted in FAT32 and recognised successfully for the first time you will get a message to format your device to FAT32 in "Application" > "USB" menu.
- In this menu press the YELLOW (Format) button on your remote control to confirm.
 After ~10 to 20 sec. (depends on HDD size) formatting will be finished and you can leave the menu with the MENU or EXIT button.
- Go to "Application" >"PDR" menu to adjust the preferred recording duration and set Timeshift to OFF or ON as desired.



IMPORTANT: During formatting all data on the hard disk will be deleted and get permanently lost. STRONG cannot be granted for any loss or damage of data, if you format the hard disk.

4.0 STARTING UP FOR THE FIRST TIME

Ensure that your receiver is correctly connected to your television and terrestrial antenna. Make sure terrestrial signals are of good quality. Ask your local STRONG dealer to check your terrestrial installation or signal if you are not sure how to do this.

Confirm that the power plug of receiver is plugged into the wall outlet. Turn on the receiver by power switch on rear panel. The language section menu will be showing on your TV Screen. It is recommended that you do first time installation following Installation Wizard step by step. It will help you easily achieve system configuration and channel installation.

If you are advanced user then you can skip wizard by pressing **EXIT** button and set-up channels using *Installation menu*.

4.1 Language Selection

Press **OK** to choose the language.

4.2 Terrestrial Settings

Select your "Country", "Antenna Supply" and "Channel Numbering" mode. Use ▲▼ buttons to select an item and ◀▶ buttons to change the value of the item. With **OK** you can open the list to select your home country. To continue installation press **BLUE** (Save & Exit) button.

At the next step of installation wizard you can adjust your terrestrial antenna for best reception condition. Please, use $\blacktriangleleft \triangleright$ buttons select channel number where digital terrestrial signal is available and adjust



your antenna direction and position (If necessary) to get maximum levels on the signal strength and quality indicators. You can check with your dealer on which channels digital terrestrial broadcast is available at your location.

Press **BLUE** (*Next*) button to continue to Digital Terrestrial TV scan once you are sure that signal strength and quality on the maximum.

At the end of installation process the receiver will switch to the first found TV channel. Enjoy your TV and Radio channels!



If your home country/broadcaster supports LCN (Logical Channel Numbering), then please adjust channel numbering mode to "Operator defined" if you are not sure about this ask your local STRONG dealer. If the LCN is not supported then please select "Appearing order".

5.0 MAIN MENU

All the important settings and features of your receiver can be operated in Main Menu. The Main Menu consists of following sub-menus: "Channel Organizer", "Terrestrial Search" "Installation", "Timer", "Application" and "Common Interface" Press the MENU button when the menu is off, the MAIN MENU screen will appear.

5.1 Channel Organizer

In MAIN MENU screen, use ▲▼ buttons to select Channel Organiser, then press **OK** or ▶ to enter the Channel Organiser menu, which consists of the sub-menus Sort Channels, Add to Favourites and Edit Channels.

5.1.1 Sort Channels

In this menu, you can sort channels by order or move channels to specified position.



Channels are sorted in the selected channel list only. Sorting of the channels in one list do not change order of the channels in another list. I.e. sorting of the channels in 1 Favourite list do not change order of the channels in list of all channels and vice versa.



Please note, that channel sort function is not available if the setting for "Channel numbering" (Menu: Terrestrial Search - Terrestrial Settings) is set to "Operator defined".

Sort (RED button)

Press **RED** button to select one of available sort options.

- Original Order the order of the channels will be restored to last stored order.
- Alphabet A-Z or Z-A channels will be sorted in alphabet order.
- Frequency Low-High High channels will be sorted in frequency order: first channels with low frequency, then with higher frequency.



First FTA
 Free-To-Air channels will be placed at the beginning of the list, Scrambled channels at the end.

 First scrambled Scrambled channels will be placed at the beginning of the list, Free-To-Air channels at the end.

If you want to store new order of channels press **YELLOW** (*Save*) or **BLUE** (*Save & Exit*) button. If you do not want to store result of sorting press **EXIT** button. Message "*Do you want to save?*" will appear on screen. Select "*NO*" to cancel or press **OK** to save result of channel sort.

Move (GREEN button)

Press **GREEN** (*Move*) button to manual sort channels. Use $\blacktriangle \blacktriangledown$ buttons to select channel that you want to move. Press **OK** button to confirm channel selection. You can select several channels to move them simultaneously. Now, you can select new position of the channel using $\blacktriangle \blacktriangledown$ buttons. Press **GREEN** (*Move*) button to confirm new position of the channel. Repeat these steps for all channels that you want to move. To save new order of the channels press **YELLOW** (*Save*) or **BLUE** (*Save* & *Exit*) button.

5.1.2 Add to Favourites

Enter to this menu in order to prepare lists of your favourite channels.

Use ▲▼ buttons to select channels of your choice.

Use \triangleleft buttons to select favourite group where to add selected channel.

Press **OK** button to mark/unmark channel to selected favourite group.

To rename *Favourite group* press **RED** button, select group that you wish to rename and press **OK**. On screen will appear keyboard. To delete current name of the group select *Backspace* (**GREEN**) and press **OK**. Select *CAPS* (**RED**) to toggle between Capital and small letters. To enter new name use navigation and **OK** buttons.

To save new name press **YELLOW** (*Save*) or **BLUE** (*Save & Exit*) button. To cancel your modifications press **EXIT**.

5.1.3 Edit Channels

In this menu you can edit channel name, lock and delete channels.

Edit

Press **RED** button to edit name of the channel. On screen will appear keyboard. To delete current name select *Backspace* (**GREEN** Button) and press **OK**. To enter new name use navigation and **OK** buttons. To save new name press **YELLOW** (*Save*) or **BLUE** (*Save* & *Exit*) button. Channel name will be changed in all channel lists. To cancel your modifications press **EXIT**..

Lock

Lock function can be used in order to block access to some channels. Press **GREEN** button to lock/ unlock channel of your choice. Locked channel will be marked by Lock symbol. In order to watch locked channel you will need to enter PIN code. Channel will be locked in all channel lists.

Delete

Pressing YELLOW button will mark selected channel to delete. To unmark channel select it and press YELLOW



button again. Channel(s) will be deleted after you press **BLUE** button. Be aware: after pressing **BLUE** button channel(s) will be deleted from all channel lists. To cancel delete operation you can press **EXIT** button. Message "Do you want to save?" will appear on screen. Press **EXIT** to cancel or **OK** to confirm.

5.2 Terrestrial Search

The Terrestrial Search menu contains following sub-menus: "Channel Setup" and "Terrestrial Settings"

In first order make sure that Terrestrial settings are correct and corresponds to the country where you leave.

5.2.1 Channel set-up

There are 2 possible ways of terrestrial channel search: *Auto Scan* (**RED** button) and *Manual Scan* (**GREEN** button).

- Manual Search
 - Select one or several frequencies by **OK** button then *Manual Scan* (**GREEN** button) to search for channels on selected frequencies.
- AutoScan
 - Press Auto Scan (RED) to scan all frequencies in the list.
 - On completing the search, the receiver will save automatically the services information.

5.2.2 Terrestrial settings

Use ▲▼◆▶ buttons to select your Country, Antenna Supply and Channel Numbering.

- Country: With **OK** you can open the list to select your home country.
- Antenna Supply: Select this option to ON in case you use active antenna powered
 - through coaxial cable. The receiver supply DC power +5 V into 50 mA
 - load maximum.
- Channel Numbering: select this option to "Operator defined" in case your operator provide
 - logical channel numbering feature. Otherwise select "Appearing order".

5.3 Installation

5.3.1 Preference

In this menu, you can set up your personal preferences.

- OSD language, Audio language, Subtitle language
 - Use ▲▼◀▶ buttons select the item and **OK** button to display the list.
- Banner Timeout
 - To set banner duration (how long information banner will be displayed on screen).
 - Use ▲▼◀▶ buttons select the item and **OK** button to display the list.
- Transparency
 - Use AV ID buttons to select the transparency level and OK button to display the list.
- CAM messages
 - To enable or disable displaying of messages from Conditional Access Module. Disabling of CAM messages could be necessary in order to not disturb you while zapping through channels which can't be descrambled by your smart card.



Power On Channel

Use ▲▼◀▶ buttons to select the item. If your choice is *Fixed channel*: press **OK** button to display a channel list, select a channel and confirm selection with **OK** button. Your receiver will always start with defined channel. If your choice is *Last Viewed* then receiver will awake with the last watched channel

■ S/PDIF

Use ▲▼◀▶ buttons to select the Digital audio mode.

PCM - the receiver will downmix AC3 audio to PCM stereo.

Dolby - the receiver will by-pass AC3 audio for future decoding by Digital Audio Amplifier.

5.3.2 TV Setting

In this menu, you can configure the TV setting such as HD type, TV type, Aspect Ratio, Screen Control, RGB/YUV, Brightness, Contrast, Saturation.

■ HD type

Use ▲▼◀► buttons to select the item and press **OK** button to display the list of options, use ▲▼ buttons to select a video output resolution and press **OK** button to confirm selection.



HD type is not selectable if output mode (YUV/RGB) set to RGB.

■ TV Type

Use ▲▼◀► buttons to select the item and press **OK** button to display the list of options, use ▲▼ buttons to select TV Type and press **OK** button to confirm selection.



If you have changed TV type and Video on screen not appears in 15 seconds – press **EXIT** button 2 times. Such a problem can appear if your TV do not supports video in NTSC format.

■ Aspect Ratio

Set accordingly to aspect ratio of your TV.

Use ▲▼◀► buttons to select the item and press **OK** button to display the list of options, use ▲▼ buttons to select Aspect Ratio then press **OK** button to confirm selection.

Screen Control

Use ▲▼◀▶ buttons to select the item and press **OK** button to display the list of options, use ▲▼ buttons to select Aspect Conversion then press **OK** button to confirm selection.

■ RGB/YUV

Selects a mode of video output signal.

If you have connected your TV to receiver only by SCART cable then it is recommended to set RGB mode. If you have connected your TV to receiver by HDMI or Component cable then this value must be set to YUV.

Use ▲▼◀▶ buttons to select the item and press **OK** button to display the list of options, use ▲▼ buttons to select YUV or RGB mode then press **OK** button to confirm selection.





MARNING: If you have selected RGB mode then HDMI (digital) and YPbPr (component) outputs on the receiver would be disabled!

■ Brightness / Contrast / Saturation Use ▲▼◀▶ buttons to select the item and press **OK** button to display the list of options, use ▲▼ buttons to select level of Brightness / Contrast / Saturation then press OK button to confirm selection.

5.3.3 Time Setting

To synchronise time in your receiver with broadcaster: set GMT usage to ON, select your time zone and set Summer time accordingly to season.

In some cases it is recommended to set GMT usage to OFF and setup date/time manually.

5.3.4 Parental Control

In this menu, you can set menu lock status (Disabled or Enabled) and change the PIN code. Parental rate menu allows you to block watching content which is rated for age equal or higher then you have set in this menu. Function of this feature depends from broadcast and STRONG would not take any responsibility if it doesn't work. The default PIN code is 0000.

5.3.5 System Information

Displays the information about software version installed in the receiver.

5.3.6 Factory Reset

Use Factory Reset only when you want to return the receiver to the condition of factory default. This will delete all user settings and installed channels.

5.4 Timer

You can set the timer to make the receiver perform designated actions including timer based wake up or sleep instructions to the receiver.

- Timer Index
 - Use the ◀▶ buttons to select.
- Active
 - Use ◆▶ buttons to select among Power on, Power off, Duration, Recording and OFF (disable timer)
- Mode
 - You can set the cycle of the action designated in the timer mode (Once, Daily or Weekly)
- Channel Type
 - Press OK button to display current channel list and using navigation buttons select channel to be shown when the receiver will power on by timer event. You can use TV/R button to select between TV and Radio channels.



- Starting Time
 - You can set the starting date or days of the week for the timer action. Use Numeric buttons to enter the starting time of the timer action.
- Duration
 Use Numeric buttons to enter the duration of channel view when the Timer mode is set to Time Interval.

5.5 Application

This menu will help you to use USB, Calendar, Tetris (Game) and CAS- only use for Conax Smart card.

5.5.1 USB

The Receiver is equipped with host controller. Insert your USB memory device to USB connector. Make sure, that power consumption of your USB device is not higher than 500 mA. In case your USB memory device power consumption is higher – make sure to connect an external power supply to your memory device before connecting it to your receiver. Usage of memory device with high power consumption may damage your receiver.

Select *USB menu* in application with ▲▼ and press **OK**

If you would like to backup channels or software to USB memory:

- Press GREEN button and select type of data to store ("Channel data (UDB)" will store only channels while "All SW dates (UAD)" will store software and channels).
- 2. Select one item and press **OK** to proceed.
- 3. Name of created file will be "STB_ALL_MMDDhhmm.UAD" or "STB_DB_MMDDhhmm. UDB", where: MM month when file is created; DD date; hh hours; mm minutes

To restore backed up data:

- 1. Select file (UAD or UDB) and press OK.
- 2. List of possible actions will be displayed. Make your choice and press **OK** to proceed.
- 3. After updating data from selected file your receiver will reboot automatically in 3 seconds.

To format USB memory device

Please press **YELLOW** Button (*Format*). A warning window will appear to get your confirmation of operation.

To delete file

Press **BLUE** Button (*Delete*). A warning window will appear to get your confirmation of operation.



When USB memory device is not inserted to the USB port, OSD would not show any files.

5.5.2 Calendar

Use $\blacktriangle \blacktriangledown$ buttons to move to Calendar **OK** button. The calendar will appear on screen. Use $\blacktriangle \blacktriangledown \blacktriangleleft \blacktriangleright$ buttons to move between days in a month or $\bigstar / \blacktriangledown$ buttons to go previous or next Month. Press **EXIT** buttons to return.



5.5.3 Tetris

Use ▲▼ buttons to move to Tetris and press **OK** button. Before starting a game, you will be prompt to select level. Press numeric button to select a level which you want (1~15) and press **OK**.

♦: Move block to left or right.

▲▼: Drop block.OK: Rotate block.

Press **EXIT** buttons to exit from game.

5.5.4 CAS

The receiver is equipped with one slot for Conax smartcard which has access to the scrambled pay per view services.

- Select CAS menu in application with ▲▼ and press OK
- 2. The Screen will show you the version and CAS ID



When smartcard is not inserted in CAS slot, OSD would not show anything.

5.5.5 PDR

Here you can adjust your preferred Record Size (max. duration of record) and set Timeshift to ON or OFF.

5.6 Common Interface

The receiver is equipped with two slots of Common Interface which have access to the scrambled the pay per view services with various conditional access modules and a valid smart card.

The programs that can be descrambled are determined by the conditional access module and smart card you use.

- 1. Select Common Interface with ▲▼ and press OK.
- Common Interface displays on the screen. (The phrase "Not inserted" is indicated when the conditional access module is not installed)
- 3. Insert the conditional access module into Slot 1 or Slot 2.
- 4. The name of the Slot differs according to each inserted conditional access module.
- 5. Press **EXIT** to return to the previous menu or press **MENU** to go to current live channel.

6.0 OTHER OPERATIONS

6.1 Program Guide (EPG)

EPG shows the program schedule for the current channel. Availability of EPG depends from broadcast and may not be available for all channels.

In no-menu state, press **EPG** button, the *EPG Menu* will appear. Screen is divided to 3 main parts: at the left channel list, at the right program schedule list and bottom part provide short program description with program start-end time.



In channel list:

Use $\blacktriangle \blacktriangledown$ buttons to choose the channel. Use $\blacktriangleleft \blacktriangleright$ to switch between channel list and program schedule. In program schedule list:

Use ▲▼ buttons to choose program. Use RED/GREEN buttons to select previous/next day of schedule.

Use **◆**▶ to switch between channel list and program schedule.

Use YELLOW button to display detailed program information.

Use **BLUE** button to programme timer for selected program.

In program details:

Use ▲▼ to scroll information in the window.

Use **EXIT** to return to the list of programs.

6.2 Zapping and information banners

Zapping banner displayed automatically every time when you change channel in normal view mode. It provides information about current channel list type, carrier name, time and date information, channel number and name as well as current program name.

Information banner can be displayed by pressing to INFO button.

In addition to zapping banner it provides information about next program, availability of subtitles and teletext on current channel.

Information banner can be toggled to *Extended* and *Signal* modes by pressing **RED** (*Extended*) and **GREEN** (*Signal*) buttons accordingly. In *Extended* mode can be displayed short description of current program (if available). In *Signal* mode displayed technical information such as transponder parameters, audio and video PIDs of current channel, signal strength and quality.

6.3 Channel list and view mode

To call up on screen the current channel list press **OK** button from view mode.

Use ▲▼◀▶ buttons to select channel and press **OK** to switch to full screen view mode.

6.3.1 Fast alphabet filtering

Press **RED** (*Filter*) button to filter channels in alphabetical order. The alphabet will be displayed at the right side. Select first letter of the channel name that you need to find in the list and press **OK**.

6.3.2 Selection of the list

From view mode or channel list mode press **FAV** button to display the list of favourite groups. Use $\blacktriangle \blacktriangledown$ buttons to select an item in the list and press **OK** to confirm selection.

To toggle between TV and Radio channels use TV/RAD button.



FAV will only be displayed if you have already added channels to a FAV list.

6.3.3 Favorite list selection

From view mode or channel list mode press **FAV** button and use $\blacktriangle \blacktriangledown$ buttons to select favourite group of your choice. Press **OK** to confirm selection.





If you want to exit from FAV mode press TV/RAD button.

6.3.4 Selection of Audio Language

From view mode press the **AUDIO** button on your remote control. Use \P buttons to select an audio language from the list of available. Use \P buttons to select audio channel between *Left*, *Right* and *Stereo*. Press **OK** to confirm your selection. Additionally you can select volume level for this channel.

6.3.5 TELETEXT function

In channel view mode press **TEXT** button. If Teletext is available in several languages, then select language from the list.

6.3.6 Subtitles function

In channel view mode press **SUB** button. List of available subtitles languages will be displayed on the screen. Use **◄►** buttons to select language and **OK** to confirm. To disable subtitles select *OFF* from the list of the languages.

6.4 PDR functions

The software supports full range of PDR functionality! The usage is based on your own risk! Recording of HD signals requires very high record speed. Therefore the accurate function is depending on the used external USB device. STRONG cannot guarantee for USB devices used. Especially when Timeshift is activated at channels with high data rate, STRONG cannot guarantee an accurate Playback of the Timeshift file. Any risk of the PDR function usage shall not be passed to STRONG!

6.4.1 Record

Select the desired TV channel you want to record.

Press the • (RECORD) button on the remote control to start recording.

Recording Info banner appears and shows the file name, recording time and duration (which can be adjusted in *Application ->PDR menu*). It will disappear within OSD-timeout interval.

To recall this banner during recording press the **INFO** button.

During recording you can call up the *Record Channel List* by pressing the **OK** button to watch another Free-To-Air channel within the same transponder.

To stop recording at any time press ■ (STOP) button.

If you want to delete recorded file(s) from the *Recording File List* press the **RED** (delete) or **GREEN** (All delete) button.



6.4.2 Play

Press ► (PLAY) button in TV mode and the *Recording File List* will appear on screen.

Select with the ▲▼ buttons the file you want to watch and start playback by pressing **OK**.

You can activate *Fast Forward* or *Fast Rewind* during playback by pressing the ◀◀ or ▶▶ button. Another pressing of these buttons will change the speed (FF: x2, x4, x8; FR: x1, x2, x4, x8). Press ▶ (PLAY) button to continue playback at desired position.

To choose a specific position or scene in the playback press **INFO** and select the desired position with the **◄**▶ buttons.

To stop the playback press ■ (STOP) button.

6.4.3 Timeshift:

Make sure that in PDR menu the Timeshift function is set to ON. This can be adjusted in "Application" > "PDR" menu.

Press II (PAUSE) button in TV mode to start Timeshift. The Recording Info banner appears and shows the recorded time.

To continue watching the programme press ▶ (PLAY) button.

If you start Timeshift during recording the receiver keeps recording.

You can activate *Fast Forward* or *Fast Rewind* during Timeshift by pressing the ◀◀ or ▶▶ buttons. Another pressing of these buttons will change the speed (FF: x2, x4, x8; FR: x1, x2, x4, x8).

To choose a specific position or scene in Timeshift mode press **INFO** and choose the desired position with the **◄**▶ buttons.

To leave TimeShift press ■ (STOP) button.

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. Don't open the receiver cover. This may cause a dangerous situation and will void the warranty.

Symptom	Cause	Remedy
The 4 digits display on front panel does not light up.	The power cord is not plugged in.	Check that the power cord is plugged in to the wall outlet. Make sure power switch on rear panel is in ON position.
No picture or sound	Wrong connection of the Audio/ Video output of the receiver to TV.	Connect the Audio/Video output of the receiver to TV correctly.
	Audio muting.	Press the MUTE button
	TV power off.	Turn TV on.

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Symptom	Cause	Remedy
No picture	The receiver can't receive the signal	Check the antenna cable, replace the cable, or connect the cable to the receiver tightly.
	Incorrect values of channel parameters.	Set the values channel parameters correctly in installation menu.
	You have switched to a Radio channel	Press TV/Radio to get back to TV channels.
The remote control does not work	The batteries of the remote control are not inserted or exhausted	Check whether the batteries are inserted correctly in your remote control. Check the batteries, and if exhausted replace the batteries in the remote control.

A.2 SPECIFICATIONS

Demodulator DVB-T

Modulation: COFDM

Demodulation: QSPK, 16-QAM / 64-QAM

 IF bandwidth:
 6, 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, 16:9, Pan & Scan, Letterbox Frame Rate: 25 Hz for PAL, 30 Hz for NTSC

Video Resolution: 576p, 720p, 1080i

Audio Decoder

Sampling Rate:

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Audio Decoding: MPEG-1 Layer 1 & 2, Dolby Downmix

Audio Mode: Mono L/R, Stereo, AC3 Frequency Response: 20 Hz \sim 20 kHz, $< \pm$ 2 dB 60 Hz \sim 18 kHz, $< \pm$ 0.5 dB

32, 44.1, 48 kHz



Tuner DVB-T

Connector type: Female, IEC60169-2, 75 Ohm nominal

Frequency Rage: VHF: 174 \sim 230 MHz

UHF: 470 ~ 862 MHz

Signal Level: -78.5 dBm ~ -25 dBm

(64-QAM, Code Rate 2/3, Guard Interval 1/8, Gaussian Channel)

COFDM Spectrum: COFDM 2K/8K-Carrier

Antenna supply: 5 Volt DC, Max. 50 mA overload protected

System & Memory

CPU: STi7100
Flash Memory: 8 MBytes
System Memory: 64 MBytes
A/V Memory: 64 MBytes

Connectors

ANT IN

TO TV

TV SCART (RGB, CVBS, Audio L/R Output with Volume control)

VCR Scart (Input - RGB, CVBS, Audio L/R; Output - CVBS, Audio L/R)

HDMI (V/A -Output) Type A -Version: 1.0

RCA Output - Audio L/R & Video Output

Component Video Out (Y, Pb, Pr)

S/PDIF Dolby Digital Out (Coaxial, Optical)

Data Interface – serial port: RS-232, 9-Pin D-Sub Male type

USB 2.0, Type A Connector

General Data

Input Voltage Range: 90 ~ 250 V AC, 50/60 Hz

Power Consumption: max. 40 WPower Consumption/Standby: max. 12.1 WOperating Temperature: $0 \sim +40 \text{ °C}$ Storage Temperature: $-10 \sim +50 \text{ °C}$

Operating Humidity Range: 10 ~ 85 % RH, Non-condensing

Size (W x D x H) in mm: 300 x 215 x 65

Weight: 1.6 kg

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