STRONG
DIGITAL TV

Picture similar

P042

STRONG

i On/Off

6350 CI Digital Satellite Receiver With Common Interface

MPEG 2 DVB

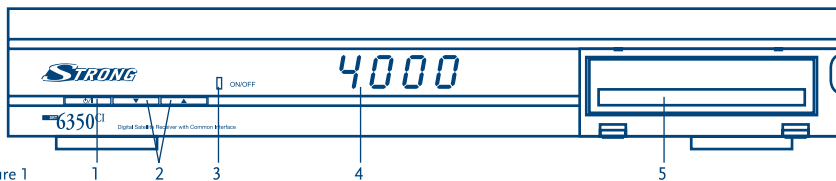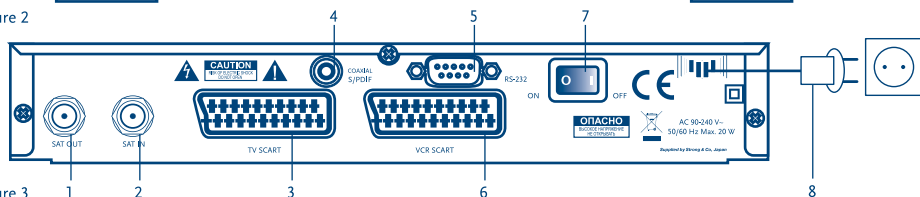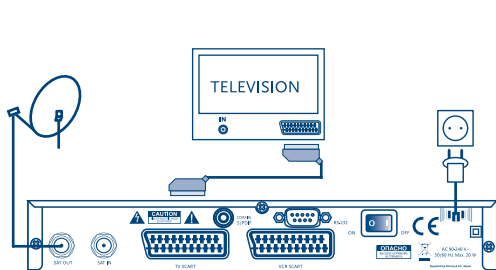# Digital Satellite Receiver with Common Interface SRT 6350 CI

User Manual

Figure 1

STRONG

4000

ON/OFF

6350 CI   Digital Satellite Receiver with Common Interface

1   2   3   4   5

Figure 2

STRONG

4000

ON/OFF

6350 CI   Digital Satellite Receiver with Common Interface

Figure 3

4   5   7

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

COAXIAL S/PDIF   RS-232   ON   OFF   CE

SAT OUT   SAT IN   TV SCART   VCR SCART

ОПАСНО
ВЫСОКОЕ НАПРЯЖЕНИЕ НЕ ОТКРЫВАТЬ

AC 90-240 V~
50/60 Hz Max. 20 W

Supplied by Strong & Co., Japan

1   2   3   6   8

Figure 4

TELEVISION
IN

Figure 4

IN
OUT   VCR

Figure 5

TELEVISION
IN

DIGITAL AUDIO AMPLIFIER   SPDIF

Figure 6

Fixed Satellite Dish

Figure 7

Fixed Satellite Dish 1
(ex. pointed at Astra)

Fixed Satellite Dish 2
(ex. pointed at HotBird)

DiSEqC Switch
IN   OUT   IN

Figure 8

Satellite Dish on motorized Positioner

OUT   IN

Figure 9

COMPUTER

STRONG
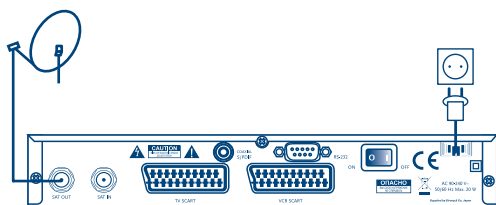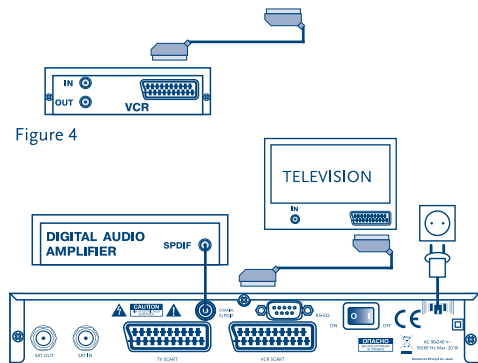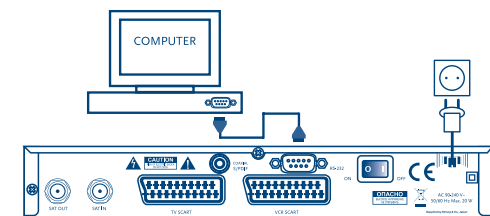DIGITAL TV
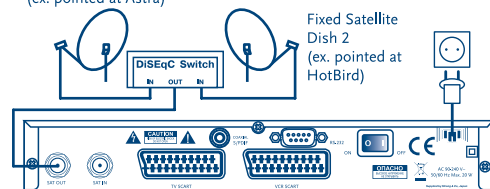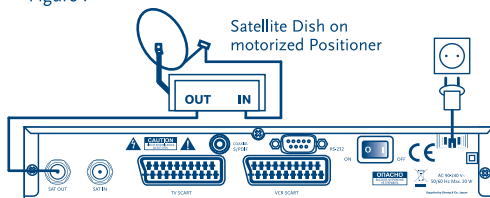
SAFETY INSTRUCTIONS

⚡

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

!

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 INTERFERRENCE, 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
■ Heed 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.

SAVE THESE INSTRUCTIONS

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DIGITAL TV

English

TABLE OF CONTENTS

HOTLINE 0180 5007543*
0820 400150*
* € 0.12/Min. from German and Austrian wired line

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.

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

1.4   Features & Accessories

- For all digital Free-To-Air TV and Radio programmes via satellite
- Common Interface slot compatible to all Conditional Access Modules
- Fast channel filtering by first letter of channel name
- Zoom function for selected video region
- Digital sound through coaxial output (S/PDIF)
- Display showing channel number or time
- Separate power switch
- Set-up support for first time installation
- Max. 4 000 channels memory capacity for 60 satellites
- 4 Favourite lists for TV-and Radio programme
- Quick and easy installation & user-friendly menu
- Excellent Audio & Video quality
- Parental lock function for menu and selectable per channel
- Teletext via OSD & VBI
- Supports DiSEqC 1.0, DiSEqC 1.2 and GOTO X
- Electronic Programme Guide (EPG) for present/following event information and up to 7 days for on screen programme information
- Full multi-lingual DVB subtitling and audio track support
- Multi-lingual support on screen menu (OSD): English, German, French, Italian, Spanish, Russian, Bulgarian, Croatian, Romanian, Czech, Hungarian, Polish
- Edit functions for TV or Radio programme name and satellite name
- Future-proof: Software update via satellite (OTA)
- Signal strength bar for digital transponders
- Automatic, network and manual channel scan options
- Power on with last viewed channel
- 8 Timers for recording and/ or sleep-timer with 3 modes (daily, weekly, once)
- 3 Games (Boxman, Tetris, Snake)
- User-friendly remote control with coloured function buttons
- Low power consumption
- Mosaic function: 4 or 9 TV Channel in overview
- Connections: SAT IN, SAT OUT, 1 Scart TV (RGB/CVBS), 1 Scart VCR (CVBS), S/PDIF, Serial Port RS-232, power switch

Accessories:

- User's Manual
- 1 Remote control unit
- AV cable
- 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.

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English

2.0   YOUR RECEIVER

2.1   Front Panel
Figure 1

1. Power On/Off button
2. Channel Up/Down buttons
3. MODE INDICATOR   RED light indicates that the receiver is in STAND-BY mode.
                     GREEN light indicates that the receiver is in AWAKE mode.
4. 4 digits display   In STAND-BY mode this indicates current time
                           In AWAKE mode this indicates current channel number
5. Common interface slot Insert your common interface module to this slot in order to have access to appropriated encrypted channels.

2.2   Rear Panel
Figure 2

1. **SAT OUT**
Gives you the possibility to connect an extra receiver (analogue or digital).

2. **SAT IN**
To connect the coaxial cable from your LNB on the satellite dish to this connector.

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

4. **VCR SCART Connector**
Use this connector to connect your receiver to your video recorder using a SCART cable. Your video signal will now be looped through your receiver to your TV set.

5. **S/PDIF Digital audio output**
Use this coaxial output to connect your receiver to the input of your digital audio amplifier.

6. **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.

7. **Power ON/OFF Switch**

8. **Power Cord**
Your receiver requires a current of 90 ~ 240 V AC (Auto-selectable), 50 ~ 60Hz ±-5%. Make sure to check the power specification before connecting your receiver to the wall outlet.

2.3   Remote Control Unit

	Turns the receiver On/Off.
	Mutes audio output of the receiver.
AV	Toggle between TV and AV mode
0~9	Controls the numerical operation and especially changes program directly.
FAV	Shows the current favourite program list.
TV/R	Switch between TV and RADIO modes.
MENU	Shows the main menu
INFO	Shows information of the current channel
EPG	View the program guide in No-menu state.
EXIT	Exits from the menu or sub-menu and cancels the progressing function if applicable.
◄►	Increases/decreases the volume level in No-menu state. Change the setting values in specific Menu item.
▲▼	Change the current program to the next/previous program in NO-menu state. Moves the cursor to upward/downward in Menu state.
V+ / V-	Use to increase or decrease the receiver volume level.
P+ / P-	Change the current program to the previous/next program in NO-menu state.
OK	Activates the highlighted menu item. Displays current channel list in No-menu state.
SAT	Shows the list of installed satellites.
PAUSE	Freeze/Resume picture.
AUDIO	Shows the list of available audio languages for the channel you are watching.
TEXT	Shows teletext page, if available. If more then one teletext language available then shows the list of Teletext languages the current channel supports.
SUB	Show the list of subtitled languages the current channel supports.
RECALL	Switches back to previous channel.
ZOOM	Zoom in 200% or 300%

3.0   CONNECTIONS

3.1   Connecting to TV & VCR
Basic connection with a SCART cable (Fig. 3)
1. Connect the satellite signal from the LNB to the SAT IN connector.
2. Connect the TV SCART connector at the back of the receiver to the SCART IN connector on your TV set

Advanced connection of the receiver to the TV set and VCR (Fig. 4)
1. Connect the satellite signal from the LNB to the SAT IN connector.
2. Connect the TV SCART connector at the back of the receiver to the SCART-IN connector on your TV set.
3. Connect the VCR scart connector of the receiver to the SCART-IN connect on your VCR set.

3.2   Connecting to Digital Audio Amplifier
Connect S/PDIF connector at the back of your receiver to appropriated input of your Digital Audio (Fig. 5)

3.3   Connecting to Satellite Dish
Connecting a fixed satellite dish to your receiver (Fig. 6)
Make your choice of which satellite you want to receive your signals from, and have your dealer aim your dish at the requested satellite. Connect a coax cable to your LNB and the other end directly to the SAT IN connector of your receiver.

Connecting multiple fixed dishes to your receiver using a DiSEqC 1.0 switch (Fig. 7)
If you want to watch programs from more than one satellite (For example from Astra and from HotBird) it is advisable to use fixed dishes and a DiSEqC 1.0 switch. Have your Dealer aim the dishes at the requested satellites and connect the LNB's with coax cables to the IN connectors of the DiSEqC 1.0 switch. Connect the OUT connector of the DiSEqC 1.0 switch to the SAT IN connector at the back of your receiver.

Connecting a dish on a motorized positioner to your receiver (Fig. 8)
Another possibility for watching programs from multiple satellites is by mounting a dish to a motorized DiSEqC 1.2 positioner. Have your dealer mount the dish to the positioner, set the correct angle of the elevation and let him set the center point for your positioner. Connect the LNB with a coax cable to the LNB IN connector of the positioner, and connect the OUT connector of the positioner to the SAT IN connector at the back of your receiver.

3.4   Connecting to computer by serial cable for downloading software
Connect the RS-232 connector on the back of your receiver to the Serial port of your computer using a serial cable (Fig. 9). Instructions how to download software can be found on our website www.strongsat.com (support > download). However, this receiver can download new system software automatically by satellite.

4.0 STARTING UP FOR THE FIRST TIME

Ensure that your satellite receiver is correctly connected to your television and dish and your satellite signal is of good quality. If you are not sure about this then ask your local strong dealer to check your installation or satellite signal. Confirm that the power plug of receiver is plugged into the wall outlet. Turn on the receiver. The Installation Wizard will appear on screen when you power on receiver for the first time.
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 **MENU** button and set-up channels using *Installation* menu.

4.1 Language Selection
Press **OK** to choose the language. The **SET-UP WIZARD** menu will appear. It describes functional buttons that you should use during installation. Once you read information press **OK** button to continue.

4.2 Select Satellite
The Installation Wizard preconfigured for easy installation of Astra 1C, 1E (19E) or Hotbird (13E). For these satellites LNB configuration is predefined as Universal LNB connected to the receiver via DiSEqC 1.0 switch input 1. If your dish is aimed to Astra 1C, 1E (19E) or Hotbird (13E) then select corresponded satellite from the list (future steps of installation are described in **4.2.1**). If your dish is aimed to another satellite or you have multiple dish installation then select Other (future steps of installation are described in **4.2.2**).
4.2.1 After selection of Astra 1C, 1E (19E) or Hotbird (13E) menu **WIZARD-ANTENNA ADJUSTMENT** will appear. Adjust your dish position in small steps until the signal strength and quality bars turn green or yellow. Try to reach the maximum possible strength and quality level. Once you are sure the signal cannot be improved, fix the dish on this position and press **OK** on your remote control to start the channel search. After finished search, the first programmed channel will be displayed on screen.
4.2.2 If you select Other satellite then menu Channel set-up will be displayed on screen. Using ▲▼ buttons select the *Satellite* item and press **OK** to display list of satellites. Use ▲▼ buttons to select satellite of your choice and press **OK**. Using ▲▼ buttons select *Dish number* item and using ◄► buttons select dish number. Press **OK** to setup dish parameters.
In Dish setup menu configure settings of the LNB, DiSEqC switch and Antenna mode. Please refer to chapter "**5.2.2 Dish set-up**" for detailed information.
If you use fixed dish then press **RED** (Autoscan) button on remote control to start channel search. Once channel search process is finished the receiver will switch to view mode and tune to channel number 1.
If you use dish mounted on DiSEqC 1.2 or GOTO X positioner then select *Dish position* item and press **OK**. If you use DiSEqC 1.2 positioner then Positioner Set-up menu will be displayed. Please refer to *Setup dish position* description in chapter 5.2.1.1
If you use GOTO X positioner then GOTO X setup menu will be displayed. Please refer to GOTO X setup description in chapter 5.2.4
After setting up dish position press **RED** (Autoscan) button on remote control to start channel search. Once channel search process is finished the receiver will switch to view mode and tune to channel number 1.
All other functions of the receiver can be controlled from Main menu.

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5.0 MAIN MENU

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

5.1 Channel Organiser

In *MAIN MENU* screen, press **UP/DOWN** to select *Channel Organiser*, and 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.
Note: 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 list "All satellites" would not change order of the channels in list of particular satellite and vice versa.

Sort (Red button)
Press **RED** button to select one of available sort options.

"Alphabet A-Z"	channels will be sorted in alphabet order.
"Frequency Low-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 data?" will appear on screen. Press **Exit** to cancel data save or **OK** to save result of channel sort.

Move (Green button)
Press Green (Move) button to manual sort channels. Use ◀▶▲▼ buttons to select channel that you want to move. You can also enter channel number using **Numeric** buttons on remote control. Press **OK** button to confirm channel selection. Now, you can select new position of the channel using ◀▶▲▼ buttons or enter position number using **Numeric** buttons. Press **OK** 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 ◀▶ 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 (◀) symbol and press **OK**. To enter new name use ◀▶▲▼ and **OK** buttons. Press **RED** button to save new name or press GREEN button to discard changes.

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 (◀) symbol and press OK. To enter new name use ◀▶▲▼ and **OK** buttons. Press **RED** button to save new name or press **GREEN** button to discard changes.
Channel name will be changed in all channel lists.
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 data?" will appear on screen. Press **Exit** to cancel data save or **OK** to confirm data save.

5.2   Installation
The installation menu contains following sub-menus:

> *"Channel set-up"* allow you to setup channels from selected satellites.
> *"Dish Set-up"*   allow you to setup configuration of your dishes.
> *"Edit satellites"*   allow you to edit predefined satellites and their transponders as well as add new satellites.
> *"GOTO X setup"* allow you to setup your location in order to use GOTO X type of positioner.
> *"System setup"*   allow you to configure system settings such as OSD language, video output mode, time settings, software update over the satellite.
> *"Parental lock"*   allow you to define system PIN code and lock access to the menu.

5.2.1 Channel set-up
From this menu you can setup channels from satellite(s) in several modes, access to Dish setup menu, Positioner setup (if used).
Satellite: move focus of the menu to this item. Press **OK** to display list of available satellites. Select satellite of your choice and press **OK**. If satellite doesn't exist in the list you should add it first using *"Edit satellites"* menu.
Dish number: move focus of the menu to this item. Use ◀▶ buttons to select dish number to which above selected satellite belongs to. Press **OK** button to enter to *Dish setup* menu (see 5.2.2). Dish number "--" means that selected satellite do not belongs to any dish.

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Dish position: this item value depends from the mode of the Dish.

if mode of selected dish is "Fixed" then this item is not selectable

if mode of selected dish is "DiSEqC 1.2" then value can be "Not stored" (in case dish position for selected satellite was not stored") or in range from 1 to 64 if position has been stored. Select item and press OK to setup positioner. More details about Positioner setup read in chapter 5.2.1.1.

if mode of selected dish is "GOTO X" then value is "GOTO X". Select item and press OK to setup GOTO X function. More details read in chapter 5.2.4.

Transponder: move focus of the menu to this item and press **OK**. List of transponders of selected satellite will appear at right side of the screen. You can select transponder in order to check signal strength and quality of reception. Transponder list contains predefined transponders. If you need to modify transponder list please use menu *"Edit satellites"* as described in chapter 5.2.3. If you need to scan specific transponder then use Manual scan as described in this chapter below.

Network search: if this item is set to *"OFF"* then receiver will search for the channels that are available from preset transponder list of selected satellite. If this item is set to *"ON"* then receiver in addition will search for the channels from transponders information about that can be found from broadcast. Use this option to get new channels that appeared on satellite.

Search for: you can select type of the channels that will be installed to your receiver.

if selected *"All channels"* then receiver will install Free-To-Air and Scrambled channels

if selected *"Scrambled"* then receiver will install only Scrambled channels

if selected *"FTA"* then receiver will install only Free-To-Air channels

Once you complete all settings you can start channel search process.

Press **RED** button to setup channels from all transponders of the satellite;

Press **GREEN** button to setup channels from transponder selected in Transponder item;

Press **YELLOW** button to enter to Manual setup channels from specific transponder or to setup single channel with known Video and Audio PIDs.

Manual setup of channels

In Manual channel search menu you can setup all channels from specific transponder or single channel. To setup all channels from specific transponder:

Satellite: indicate name of the satellite where channels will be searched

Frequency: Use **Numeric** buttons to enter frequency of transponder

Polarisation control: Use ◄► buttons to select polarisation of transponder

Symbol rate: Use **Numeric** buttons to enter symbol rate value

Network search: Use ◄► buttons to select ON or OFF

Search for: Use ◄► buttons to select type of channels to be installed

Press **RED** (Search) button to start channel search.

To setup single channel:

Press **GREEN** (PID) button on the remote control.

Satellite: indicate name of the satellite where channels will be searched

Frequency: Use **Numeric** buttons to enter frequency of transponder

Polarisation control: Use ◄► buttons to select polarisation of transponder

Symbol rate: Use **Numeric** buttons to enter symbol rate value

Video PID: Use **Numeric** buttons to enter value of Video PID in decimal

Audio PID: Use **Numeric** buttons to enter value of Audio PID in decimal

PCR PID: Use **Numeric** buttons to enter value of PCR PID in decimal

Press **RED** (Search) button to start channel search.

5.2.1.1 Positioner setup

If in Dish setup menu you have configured Dish mode as "DiSEqC 1.2" then you have to setup position of the dish to each satellite that you want to install.

In *Channel setup* menu move menu focus to Dish position item and press **OK** button on remote control. Menu *Positioner setup* will appear on screen.

Satellite: Displays the name of satellite position of antenna for which you setup

T*ransponder:* Use ◀▶ buttons to select reference transponder, receivable in your location, to measure signal strength and quality

Movement speed: Use ◀▶ buttons to select between Slow and Fast. Slow speed allows you to fine adjust position of the dish. Fast speed can be used to adjust dish position roughly.

Move: Use ◀▶ buttons to move dish to the East/West direction

Centre position: If you press **OK** button while menu focus is on this item then dish will be turned to centre position, which corresponds to true South direction.

Limits: Use ◀▶ buttons to Enable or *Disable software* limits of your positioner.

Set limit: Use ◀▶ buttons to select *East or West* limit of dish movement range.

Step by step recommendations of position setup.

1. Select reference transponder in order to check signal strength and quality during position setup.
2. If you do not know current direction of your dish then move menu focus to Centre position item and press **OK**. Dish will be turned to true South. Knowing your location longitude you may understand direction where necessary to move dish in order to reach position of selected satellite. For example: your longitude is 5° East and you want to setup dish position for Astra 1C, 1E (19° East). Then, from centre position, you need to move dish to East direction by pressing to ◀ button. If your longitude is 25° East then, in order to setup dish position for Astra 1C, 1E (19° East), you need to move dish in West direction (from centre position) by pressing to ▶ button.
3. To setup roughly position of the dish set Movement speed to Fast. Then move menu focus to Move item of the menu and by short presses to ◀ or ▶ buttons move dish to necessary direction. Check signal strength and quality indicators. Once levels start increasing - set Movement speed to Slow and keep adjusting dish position until get best possible values.
3. Once you are sure that dish is fine adjusted press **YELLOW** (Store) or **BLUE** (Store&Exit) button. Dish position for selected satellite will be stored.

5.2.2 Dish set-up

In this menu you can setup parameters of your dish(es).

Dish number: Use ◀▶ buttons to select number of the dish. This number used in Channel setup menu to create a link between satellite and corresponded dish configuration.

LNB type: Use ◀▶ buttons to select type of LNB. If you set type to "Customised" then you should enter values of Local Oscillator Frequencies in *LO frequencies* menu item

LO frequencies: this menu item selectable only in case LNB type is "Customised". Press **OK** button

and using Numeric buttons enter values in appeared dialog box.

Band control: Use ◄► buttons to select value. Set to Auto in order receiver automatically select band by sending 22 kHz control signal. Set to ON in order receiver generate 22 kHz control signal continuously, or set to OFF in order to disable 22 kHz control signal.

Polarisation control: Use ◄► buttons to select value. Set to Auto in order receiver automatically control polarisation. Set to 13V or 18V in order receiver supply LNB with selected power, or set to OFF in order to disable LNB power.

Switch type: if you use DiSEqC switch the select appropriated type.

Switch input: select input number to which LNB is connected.

Dish mode: Use ◄► buttons to select mode between Fixed, DiSEqC 1.2 and GOTO X.

5.2.3 Edit satellites

In this menu you can edit satellite's name, angle, location and transponder, as well as add new satellite.

Press **RED** button to edit a satellite's properties.

Press **GREEN** to add new satellite.

Edit existing satellite and add new satellite functions are identical.

Name: press **OK** button to edit name of the satellite. On screen will appear keyboard. To delete current name select Backspace (◄) symbol and press **OK**. To enter new name use ▲▼◄► and **OK** buttons. Press **RED** button to save new name or press **GREEN** button to discard changes.

Angle: Use **Numeric** buttons to enter value of orbital position of the satellite.

Location: Use ◄► buttons to select East or West location of the satellite.

Transponder table: press **OK** button to enter to edit transponder table menu.

In this menu use **RED** button to edit parameters of selected transponder, **GREEN** button to add new transponder or **YELLOW** to delete selected transponder.

To save changes you have made press **YELLOW** (Save) or **BLUE** (Save&Exit) button.

5.2.4 GOTO X set-up

In this menu you should set your geographical location, if your use positioner and it supports GOTO X.

Use ▲▼ buttons to navigate in the menu.

Use **Numeric** buttons to enter values.

Use ◄► buttons to select an option.

To save changes you have made press **YELLOW** (Save) or **BLUE** (Save&Exit) button.

5.2.5 System set-up

In this menu, you can configure the system such as *Language select, TV/VCR settings, OSD settings, Time settings.* As well from this menu you can define *Power On channel*, update software using *Software Update* menu, get *Information* about software version installed in your receiver and do a *Factory reset.*

Language select

Select Menu language, preferred Audio and Subtitle languages.

Use ▲▼◄► buttons to move the menu focus and select an item. Use **OK** button to confirm selection.

TV/VCR settings

To set TV standard (PAL, SECAM, NTSC or Auto), Aspect conversion (Letter Box or Pan&Scan), TV

format (4:3 or 16:9), Scart mode (RGB or CVBS), press ▲▼◄► buttons to move the cursor and **OK** to confirm selection.

OSD settings

To set Banner duration (how long information banner will be displayed on screen), Transparency level of the menu and CAM messages (On or OFF), use ▲▼◄► buttons to move the cursor and **OK** to confirm selection.

If CAM messages set to OFF then information messages generated by Conditional Access Module would not be displayed on TV set screen. If set to ON then all information messages from CAM will be displayed on TV set screen.

Time settings

If a broadcaster provides GMT, you can set the time using GMT, or set the time by yourself. If the GMT usage is ON then current time is set automatically. If your broadcaster provides correct time offset your receiver will change summer/winter time automatically.

If GMT Usage is set to *OFF, Set Data* and *Set Time* item are displayed.

Time display: select "Stand-by only" to display time on front panel indicator only while receiver is in stand-by mode. Select "Always" to display time on front panel indicator not depending from receiver mode. In this case channel number on front panel indicator would not be displayed.

Power On channel

Use ▲▼ and **OK** buttons to select "Last watched" to awake receiver with the last watched channel or to select "Fixed channel" and define channel which should be displayed first every time when receiver awake from stand-by.

Software update

Select this option in order to update your receiver with the latest software version. Software update service is available from satellites Astra 1C, 1E, 1F at 19E and Hotbird 1, 2, 3, 4 at 13E.

If your antenna is primed to Astra 1C, 1E, 1F at 19E then enter following parameters:

    Frequency: 12603; *Polarity:* H (Horizontal); *Symbol rate:* 22000

If your antenna is primed to Hotbird 1, 2, 3, 4 at 13E then enter following parameters:

    Frequency: 12476; *Polarity:* H (Horizontal); *Symbol rate:* 27500

Press **RED** (Start). The receiver will check availability of software update and propose to update software if new version is available. Follow future instructions displayed on screen. After software update process receiver will switch on a last watched channel automatically.

<u>Note:</u> during software download process video output of the receiver will be turned off. Progress of software download will be displayed on front panel indicator.

<u>Note:</u> Availability of the software update is subject of local broadcast condition and may not work in all countries. Contact your vendor to find out more about this function.

STRONG
DIGITAL TV

English

Warning: Do not switch power off and do not disconnect the receiver from the aerial during update process.

Information
Display the information about software version installed in the receiver.
Factory reset
This will delete all user settings and installed channels. Receiver will restart with Installation Wizard menu.

5.2.6 Parental lock
In this menu, you can set menu lock status (Disabled or Enabled) and change the PIN code.
The default PIN code is 0000.

5.3   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 number: Use the ◄► buttons to select.
Timer status: Use ◄► buttons to Enable or Disable selected timer.
   If selected timer status is Enabled the additional items are available to select.
Action: you can select between
"Power On":   The receiver powers on at the designated date and time.
"Time interval":   The receiver switches on at the designated date and time, displays the channel and then switches off after designated duration.
"Power Off":   The receiver powers off at the designated date and time.
Cycle: You can set the cycle of the action designated in the timer mode (Once,Every day or Weekly).
Start Date or Day of Week: You can set the starting date or days of the week for the timer action. Press **OK** to display calendar or list of the week days.
Start Time: 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.
Channel name: 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.

5.4   Games
There are three games: Tetris, Box and Snake.

5.4.1 Tetris
◄►: Move block to left or right.
▲▼: drop block.
▲/**OK**: Rotate block.

5.4.2 Box
▲▼◄►: Move the boxman and push the box.

5.4.3 Snake

▲▼◀▶: change direction of snake movement.

5.5 Common Interface

When Conditional Access Module is inserted you can enter to this menu and get the information about your CAM, smart card subscription status, manage maturity rating and PIN codes of the smart card. Content of the menu depend from module type, please refer to the user manual of your module.

6.0   WATCHING TV AND LISTENING TO THE RADIO

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 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 ▲▼ buttons to choose the channel.

Use ◀▶ 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, satellite 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 vcurrent program (if available). In Signal mode displayed technical information such as transponder parameters, audio and video PIDs of current channel, signal strength and quality.

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6.3   Channel list

To call 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 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 Multi Pictures

Press **GREEN** button to choose between 4 pictures or 9 pictures. Press **OK** to confirm.

6.4   Selection of Audio Language

Press the **AUDIO** button on your remote control. Use ▲▼ buttons to select the audio language from the list of available. Use ◄► buttons to select audio channel between Left, Right and Stereo. Press **OK** to confirm your selection.

6.5   TELETEXT function

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

6.6   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.

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.

Symptom	Cause	Remedy
The LED 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.
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.
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 some tuner parameters	Set the values of the tuner parameters correctly in the installation menu.
	Wrong direction of the dish	Check the signal strength with a spectrum analyzer and adjust your dish correctly.
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
Modulation: QPSK
Input Symbol Rate: 2 ~ 45 Ms/s
SCPC & MCPC signals from C & KU band satellites

Video Decoder
Profile level: MPEG-2 MP@ML
Input Rate: Max.   100 Mbits/s
Video Resolution: 720 x 576 (PAL), 720 x 480 (NTSC) pixels
Aspect Ratio: 4:3, 16:9

STRONG
DIGITAL TV

Audio Decoder:

ISO/IEC 11172 LAYER I&II

Sampling rate:	32, 44.1, 48 kHz
Audio modes:	Stereo, Mono

Tuner

Front-End:	DVB-S
Input Frequency Range:	950 ~ 2150 MHz
RF Input Level:	-25 ~ -65 dBm
LNB Power:	13.5 / 18 V DC (+/- 5%), Max. 400 mA, Overload protected
DiSEqC Versions:	1.0 & 1.2 and GOTO X

System and Memory:

CPU:	STi5105 @ 200MHz
Flash Memory:	2 MBytes
DDR SRAM:	16 MBytes

Connectors:

SAT IN

SAT OUT

2 SCARTS TV (RGB, CVBS) / VCR (CVBS)

S/PDIF:	coaxial output
Data Interface – serial port:	RS-232, 9-Pin D-Sub Male type

Separate power switch

General Data:

Input Voltage Range:	90 ~ 240 V AC, 50 / 60 Hz
Power consumption:	max 20 W
Operating Temperature:	+0 °C ~ 40 °C
Storage Temperature:	-30 °C ~ 80 °C
Operating Humidity Range:	10% - 85%, RH, Non-condensing
Size (W x D x H) in mm:	260 x 210 x 40
Weight:	1.5 kg

STRONG
DIGITAL TV

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.strongsat.com - 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 9/2006

Environmental Issues