



Digital Terrestrial Receiver **SRT 5155**

User Manual

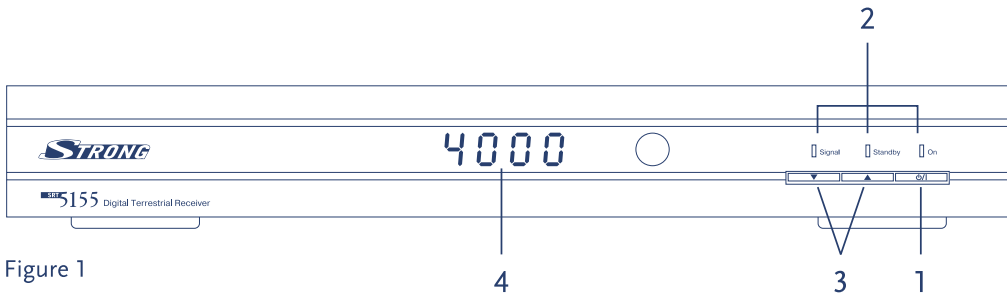


Figure 1

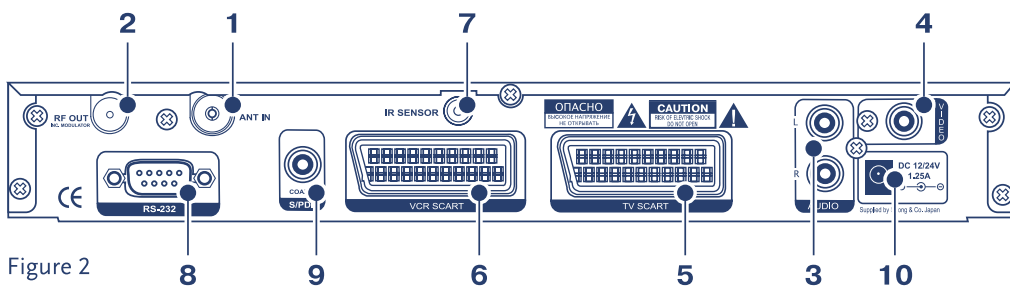


Figure 2

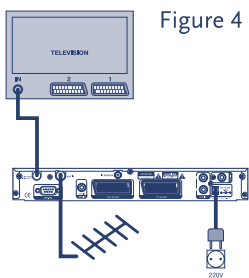


Figure 4

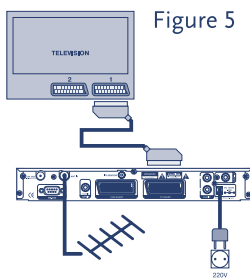


Figure 5

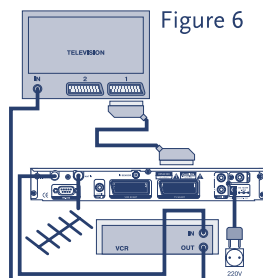


Figure 6

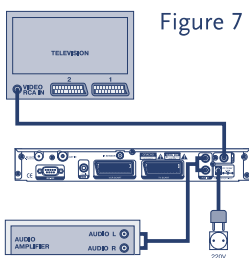


Figure 7

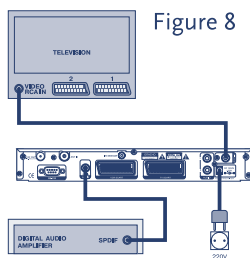


Figure 8

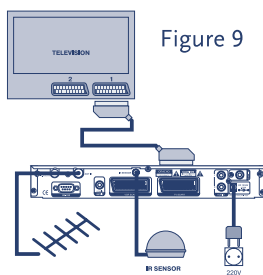


Figure 9

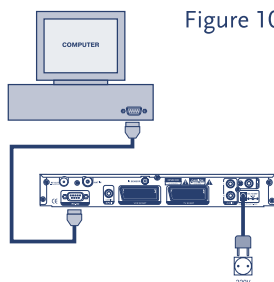


Figure 10

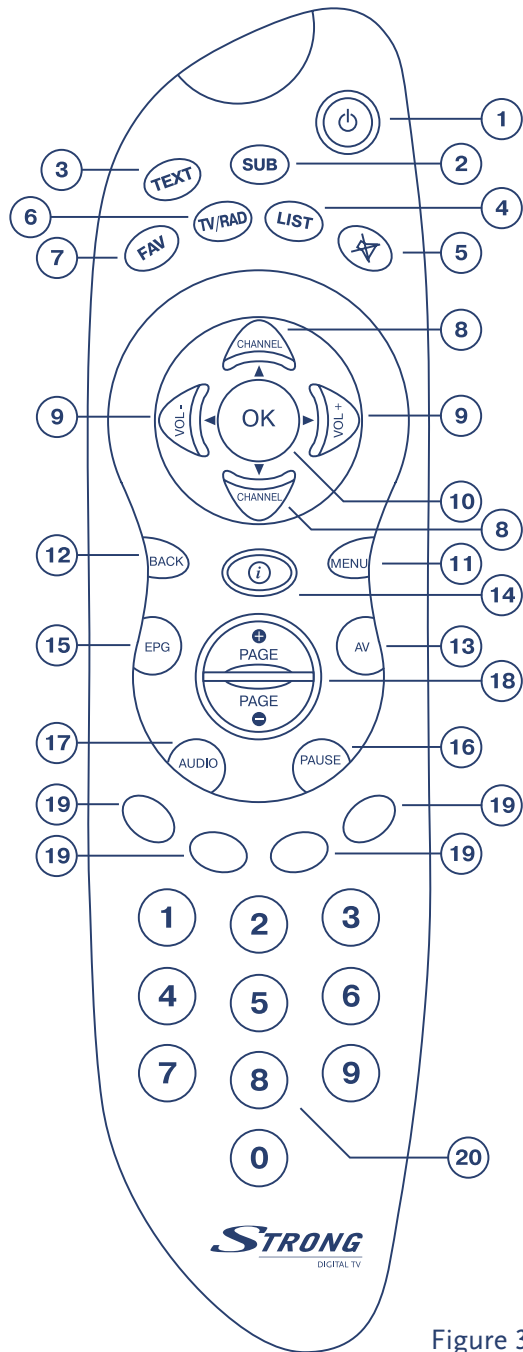


Figure 3

Table of Contents

1.0	Usage	3
1.1	Safety Instructions	3
1.2	Features & Accessories	4
1.3	Safety Precautions	5
1.4	Storage	5
1.5	Equipment Set-up	5
2.0	Your DVB-T Receiver	6
2.1	Front Panel	6
2.2	Rear Panel	6
3.0	Connections	7
3.1	Connecting to your TV & VCR	7
3.1.1	Basic connection with a coaxial cable	7
3.1.2	Basic connection with a Scart cable	7
3.1.3	Advanced connection	7
3.1.4	Connection with Audio Cable RCA Connectors	7
3.1.5	Connection to a digital audio amplifier using the S/PDIF output	8
3.1.6	Connecting a remote eye	8
3.1.7	Connecting a serial cable for downloading software	8
4.0	Starting up	8
4.1	Starting up for the First Time	8
5.0	Basic settings	9
5.1	Main Menu	9
5.1.1	Service Organizer Menu	9
5.1.2	Favourite Organizer Menu	11
5.1.3	The Timer Menu	12
5.1.4	The Installation Menu	12
5.1.4.1	System Set-up Menu	13
5.1.4.2	Country selection	14
5.1.4.3	Channel Set-up	14
5.1.4.4	Parental Lock – Changing PIN Code	16
5.1.5	Games	16
6.0	Basic functions – Remote Control	17
A.1	Trouble Shooting	19
A.2	Glossary of terms	20

Thank you for choosing this Strong terrestrial receiver. This receiver is of our latest development and it is designed to be capable of upgrading its software through the PC. It is highly recommended that you read this manual carefully to safely install your receiver and to achieve its optimum performance.

1.0 Usage

This user manual is applicable for Strong SRT 5155 Digital Terrestrial Receiver and its related accessories. It is advised that first time and experienced users read this manual in order to safely install the receiver.

Strong has supplied this product with the most recent innovations of software and hardware. Strong reserves the right to make changes in production to the software used by your terrestrial receiver without prior notification. In order to maintain and ensure that your receiver is compatible and updated with the most recent software technology, we recommend that you visit our website to check the latest software.

1.1 Safety Instructions

Warning:

DO NOT INSTALL YOUR RECEIVER:

- In a closed or poorly ventilated cabinet;
- Directly on top of or under any other 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 any shock which may cause permanent damage to your receiver;
- To any magnetic objects, such as loudspeakers, transformers, etc.;
- To intense vibration.
- 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 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.
- Place the receiver in a well-ventilated environment.
- When you are connecting the cables, be sure that the receiver is disconnected from the mains supply voltage.
- Do not use your receiver in humid environment.

Make sure you read this user manual before installing your receiver.

This manual provides complete instructions for installing and using this receiver. The following symbols will be used as follows:

Bold Characters: Represents a button on the remote control or the receiver

Italic Characters: Represents a menu item within the On Screen Display (OSD) Menu

1.2 Features & Accessories

SRT 5155 Digital Terrestrial Receiver:

- Easy to use Graphic MENU Interface
- Multi-lingual support on screen Menu: English, Spanish, Italian, French, German, Swedish, Danish, Hungarian, Czech.
- RS 232 port for updating control software and additional services
- Automatic channel scan options
- 2-SCART Connectors (TV, VCR)
- 3 RCA Connectors (CVBS, Audio Left/Right)
- Multi-Language function (Menu, Audio)
- IR sensor-connector for connecting an external remote eye to control the receiver (available as accessory)
- Front Panel Buttons & Remote Control
- Editing Functions (TV or Radio Channel, Channel Name, PID)
- EPG (Electronic Program Guide) for on screen channel information
- Over 1000 channels memory capacity
- Four Favourite lists, for both TV and Radio
- 3 Operation Modes (Digital TV, Digital Radio, Favourite)
- Digital Tuner with Loop-through output
- MPEG-2 Main Profile at Main Level
- Teletext (VBI)
- Supports software downloading via PC
- S/PDIF output for connection with a digital audio amplifier
- Built-in UHF modulator
- Support of active antenna by 5V output

Accessories:

- User's Manual
- Remote Control unit
- External power supply
- 12/24 V DC Cigarette Lighter – Power cord
- 2x Batteries (AAA type)
- Remote Eye

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

1.3 Safety Precautions

To maintain your receiver's optimum performance, you are advised to apply the following safety precautions:

- Read this manual carefully and make sure you fully understand the instructions given.
- Refer all maintenance or servicing to suitably qualified personnel
- 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.
- Do not use alcohol or ammonia based liquids to clean the receiver.
- Do not open the receiver cover, as you will be exposed to a shock hazard
- Do not open the receiver cover this will void your warranty.
- Do not place any objects on top of the receiver because this might prevent proper cooling of the components inside.
- Make sure no foreign objects fall through the ventilation slots because this could cause fire or an electric shock.
- Wait a few seconds after switching off the receiver before you move the receiver or disconnect any equipment;
- Please ensure that the electrical power supply corresponds with the voltage on the electrical identification plate at the back of the receiver.
- 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.
- If the receiver does not operate normally even after strictly following the instructions in this user manual, it is recommended to consult your dealer.

1.4 Storage

Your receiver and its accessories are stored and delivered in a well protective packaging against electric shocks and moisture. When unpacking it, make sure that all the parts are included and keep packaging away from children. When transporting the receiver from one place to another or if you are returning it under warranty make sure to store the receiver in its original packaging with its accessories. Failing to comply with such packaging procedures could void your warranty.

1.5 Equipment Set-up

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

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

2.0 Your DVB-T Receiver

2.1 Front Panel (Please see inside cover Figure 1)

- 1. Power Button** Turns the receiver ON/OFF.
- 2. Stand-BY / ON / SIGNAL** (3 LEDs) The red LED is the “stand-by” indicator. The green LED is the “Power On” indicator. The orange LED lights up once you correctly receive a antenna signal (signal locked)
- 3. UP/DOWN** Buttons Move the cursor UP/DOWN in Menu state. Changes the channels UP/DOWN in no menu state.
- 4. LED Display** This 4-digit LED panel indicates the time or the program number.

2.2 Rear Panel (Please see inside cover Figure 2)

- 1. ANTENNA INPUT** Connect the antenna cable to this connector.
- 2. RF OUTPUT** Gives you the possibility to connect the receiver to TV by RF cable.
- 3. AUDIO Right (Red RCA) and Left (White RCA)** These connectors give you the possibility to connect the audio signal to an external amplifier or to the audio input of your TV.
- 4. VIDEO (Yellow RCA)** This connector has a constant video signal for additional VCR-connections.
- 5. TV Scart Connector** Use this connector to connect your receiver to your TV using a scart cable.
- 6. VIDEO 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 to your TV.
- 7. IR SENSOR** Use this connector to connect an external remote eye if you wish to store your receiver in a place where the IR on your receiver cannot communicate with the remote. For example, if you wish to put your receiver in a closed environment such as a well ventilated closet, then this accessory will be useful because it can allow the remote control to control the receiver through the remote eye.
- 8. RS 232 Serial Port** This serial port can be used to connect your PC to your receiver, and enables you to download new versions of software into your receiver. Detailed information about downloading software into your receiver can be found on our website (www.strongsat.com).

Note: It is recommended to ONLY use the original software provided via our website. Loading other versions of software not adapted to your model number can cause severe damage to your receiver, and will not be covered by the warranty.

- 9. S/PDIF** Use this coaxial output to connect your receiver to the input of your digital audio amplifier.
- 10. Power Supply** Connection for external power supply (in the package). Your adaptor needs a main voltage of 90~240V AC (Auto-selectable), 50~60Hz+/-5%. The receiver operates with a voltage between 12 / 24 Volts DC. You may use the standard supplied Cigarette Lighter – Power cord for use of your receiver in mobile solutions (i.e. camping, boat)

Note: Please make sure that only the original supplied power adaptor is used in combination with your receiver.

3.0 Connections

3.1 Connecting to your TV & VCR

3.1.1 Basic connection with a coaxial cable (Please see inside cover Figure 4)

- Connect the antenna cable of your terrestrial antenna with the ANT input.
- Connect the To HF OUT connector at the back of the receiver to the ANT IN connector on your TV set.

3.1.2 Basic connection with a Scart cable (Please see inside cover Figure 5)

- Connect the antenna cable of your terrestrial antenna with the ANT input.
- Connect the TV scart connector at the back of the receiver to the scart-in connector on your TV set.

3.1.3 Advanced connection (Please see inside cover Figure 6)

- Connect the antenna cable of your terrestrial antenna with the ANT input.
- Connect the TV scart connector at the back of the receiver to the scart-in connector on your TV set.
- Connect the VCR scart connector at the back of the receiver to the scart-in connector on your VCR set.
- Connect a coaxial cable to the TV/VCR connector at the back of the receiver. Connect the other end of this coaxial cable to the ANT IN connector of your VCR.
- Connect the TV OUT connector of your VCR to the ANT IN connector of your TV set with a coaxial cable.

Note: If you have a digital audio amplifier with a digital audio input, use the S/PDIF output.

3.1.4 Connection with Audio/Video RCA Cable

(Please see inside cover Figure 7)

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

3.1.5 Connection to a digital audio amplifier using the S/PDIF output

(Please see inside cover Figure 8)

- Connect the S/PDIF out connector on the back of your receiver to the S/PDIF input connector of your digital amplifier, using a coaxial cable.
- Do not forget to turn the S/PDIF function on (Main menu > Installation > PIN code "0000"> TV/VCR Settings > SPDIF Output > On)

3.1.6 Connecting a remote eye (Please see inside cover Figure 9)

- Connect the IR sensor to your remote eye if you wish to store your receiver in a place where the IR on your receiver cannot communicate with the remote.

For example, if you wish to put your receiver in a closed environment such as a well ventilated closet, then this accessory will be useful because it can allow the remote control to control the receiver through the remote eye.

3.1.7 Connecting a serial cable for downloading software

(Please see inside cover Figure 10)

- Connect the RS 232 connector on the back of your receiver to the Serial port of your computer using a serial cable.
- Instructions on how to download software can be found on our website www.strongsat.com (support > downloads).

4.0 Starting up

Ensure that your terrestrial receiver is correctly connected to your television and dish, and that your antenna signal is of good quality. (If you are not sure about this then ask your local Strong dealer to check your installation or antenna signal).

4.1 Starting up for the First Time

- Connect your DVB-T receiver as under point 3 described.
- Enter the present menu < System-Setup / Language setting /Menu language>. Press **OK** button to confirm your selection. Press the Back button until you go back to installation menu.
- Follow the path < Installation / (PIN '0000') / Country Selection >. Select country and press **OK** button. Once selection is confirm "*Country Selected Successfully*" appears.
- Follow the path < Installation / (PIN '0000')/ Channel Set-Up/Auto Scan > to select the automatic scan search option for all available TV and Radio programmes. Press **OK** button to confirm your selection and wait. Press the **Back** button until you go back to main menu.

Note: It is important to select the correct country inside the menu before the scanning process starts to avoid scanning problems.

5.0 Basic settings

Note: Every time the receiver asks you to put your PIN code, enter '0000' on your remote control using [0-9] numeric keypads.

Remem ber: To switch between the TV/Radio channels list, you will have to press the TV/RAD buttons on your remote accordingly.

5.1 Main Menu (Please see inside cover Screen 1)

All the important settings and features of your receiver can be operated from the Main Menu. The Main Menu consists of several sub-menus such as "Channel Organizer", "Favourite Organizer", "Timer", "Installation" and "Games". To display and navigate through the main menu of the receiver please apply the following steps:

1. Press the **Menu** button.
2. Use **UP/DOWN** keys, to navigate through the menu.
3. Press **OK** button every time you select an item from the menu.
4. Press the **Back** button to terminate an operation.
5. Press the **Back** button until you go back to main menu.

Tip: Always read the Help bar displayed at the bottom of your screen.

5.1.1 Service Organizer Menu

The "Channel Organizer" menu enables you to sort channels, make your own Favourite channels list, edit channel names and delete channels from the list.

Sorting Channels from the channels list:

To sort your channels, please apply the following steps:

1. Press the **Menu** button.
2. Using **UP/DOWN** keys, select "Service Organizer" and press **OK**.
3. Enter PIN CODE ('0000' default code) and press **OK**.
4. Press the **Red** (Sort) button to sort your channels. <Please see inside cover Screen 2>
 - If you press the **Red** (Name) button, you can sort the list of channels alphabetically. <Please see inside cover Screen 3>
 - If you press the **Green** (Type) button, you can sort the channels by the type of the channel, CI or scrambled program.
 - If you press the **Yellow** (MUX) button, you can edit the channels per broadcasted frequency.
 - If you press the **Blue** (Manual) button you can sort the channels manually.

A check mark will be shown on the selected channel. Use the **UP/DOWN** buttons to move to the position that you want the channel to be at, and press the **Blue** (manual) button once again. The channel will then be moved to the position you selected. Once you have finished sorting the channels, press the **Back** button until you are back in the Normal TV mode.

(A message that the receiver is saving the changes you made will be displayed).

Setting Favourite channels from the channel list:

You can set a list of Favourite channels from the current TV/Radio channels list. To set your Favourite channels, please apply the following steps:

1. Press the **Menu** button.
2. Using **UP/DOWN** keys, select "*Service Organizer*" and press **OK**.
3. Press the **Green** (Fav) button to switch into Favourite organizer mode. <Please see inside cover Screen 2>
4. The default Favourite list names are: "*Movie*", "*News*", "*Sports*", and "*Music*".
5. Using **UP/DOWN** or **P+/P-** keys, select the channel and press the coloured button on your remote corresponding to the classification of the channel. For example, if you press the **Red** (movie) button the channel is designated as "*Movie*" Favourite channels. A red heart will appear behind the channels' name. If the **Red** button is pressed again the selected channel is un-selected from Movie Favourite list. <Please see inside cover Screen 4>
6. One channel can be saved into more than one Favourite list. You can change selected Favourite channels in "*Favourite Organizer*" menu.
7. Press the **Back** button until you go back to main menu.

You can view the Favourite list you set by pressing the FAV button while you are watching TV or listening to a Radio channel.

Editing Channels from the channel list:

You can change the channel name, lock a channel and change the skipping functions. To change the name of the channel, please apply the following steps:

1. Press the **Menu** button.
2. Using **UP/DOWN** keys, select "*Service Organizer*" and press **OK**.
3. Using **UP/DOWN** or **P+/P-** keys, select the channel.
4. Press the **Yellow** (Edit) button. <Please see inside cover Screen 2 and 5>
5. Press **OK** on the channel name and the keyboard will appear on screen. <Please see inside cover Screen 6>
6. Use **UP/DOWN** or **P+/P-** keys to select a letter, and the **OK** button to overwrite the current channel name letter by another letter. Go up with the cursor into the line of the new name and press **OK** to confirm the changed name. Press **BACK** to go back to the menu.

Change lock function:

If you lock a channel, you can only watch it from the TV list after entering your PIN Code. To change lock function, apply the following steps:

1. Apply the first four steps detailed in "*Change name of channel*" described in section 5.1.1).
2. Using **UP/DOWN** or **P+/P-** keys, select "*Lock field*". <Please see inside cover Screen 7>
3. Press **OK** and enter your PIN Code.
4. The lock function will be marked.
5. Move your cursor to the **OK** field and press the **OK** button.
6. To unlock the channel repeat the same procedure.

Change the Skip function:

If Skip function is activated, the channel will be skipped when you are scrolling through the TV list in normal watching mode. Please apply the following steps:

1. Apply the first four steps detailed in “*Change name of channel*” (Described in section 5.1.1).
2. Using **UP/DOWN** or **P+/P-** keys, select “*Skip field*”. <Please see inside cover Screen 8>
3. Press **OK** and enter your PIN Code.
4. The skip function will be marked.
5. Move your cursor to the **OK** field and press the **OK** button.
6. To unlock the channel repeat the procedure.

Change Video Package Identifier V-PID, Audio A-PID, Program P-PID Values:

1. Apply the first four steps detailed in “*Change name of channel*” described previously.
2. Using **UP/DOWN** or **P+/P-** keys, select “PID field”. <Please see inside cover Screen 8>
3. Using the numeric keypad **[0-9]**, enter the new value.
4. Move your cursor to the “*OK field*” and press the **OK** button.

Deleting Channels from channel list

You can delete channels from the channel list by applying the following steps:

1. Press the **Menu** button.
2. Using **UP/DOWN** keys, select “*Service Organizer*” and press **OK**.
3. Press the **Blue** (Delete) button <Please see inside cover Screen 2>
4. Using **UP/DOWN** or **P+/P-** keys on your remote, select the channel.
5. Press the **Red** button to delete the selected channel.
6. Press the **Green** button to delete all channels from the list.
7. Press the **Yellow** Button to exit the delete menu.

5.1.2 Favourite Organizer Menu

This menu enables you to organize your Favourite channels list. All the channels that you have marked as your Favourite in the “*Service organizer*” menu can be sorted by applying the following steps:

1. Press the **Menu** button. <Please see inside cover Screen 1>
2. Using **UP/DOWN** keys, select “*Favourite Organizer*” and press **OK**. <Please see inside cover Screen 9>
 - Sort **Red** button: Same as the Sort function of “*Service Organizer*” menu. <Please see inside cover Screen 3>
 - **NxtFav** (Next Favourite Group) **Green** button: Shows the next Favourite group list.
 - Edit **Yellow** button: You can edit the name of the Favourite group in the same way as you change a channel name in the “*Service Organizer*” Menu. <Please see inside cover Screen 6>
 - Remove **Blue** button: Removes the selected channel directly from the Favourite list that was selected.

5.1.3 The Timer Menu

The timer can automatically switch on or off your receiver at any time. This enables you for example to record programs with your VCR while you are not at home. It also can be used to wake you up at the time you set it. Please apply the following steps:

1. Press the **Menu** button. <Please see inside cover Screen 1>
2. Using **UP/DOWN** keys on your remote, select "*Timer Menu*" and press **OK**. <Please see inside cover Screen 10>
 - **Timer number:** You can select up to 8 different events.
 - **Timer State:** Set to "*Enabled*" to use the timer function, or "*Disable*" to stop the timer functions of the timer number you selected.
 - **Timer mode:** You can select the following functions in the timer mode.
 1. "*Power On*": The receiver powers on at the designated date and time.
 2. "*Time interval*": The receiver switches on at the designated date and time, displays the channel and then switches off at the designated date and time (The value set at the ending time).
 3. "*Power Off*": The receiver powers off at the designated date and time.

Press **OK**, now you will see the channel list, select a channel and Press **OK**

- **Timer Cycle:** You can set the cycle of the action designated in the timer mode (one time, Every Day or Every Week).
 - **Date:** You can set the starting date of the timer action.
 - **Time:** You can set the starting time of the timer action.
 - **Ending Time:** You can set the ending time of the channel view when the Timer mode is on Time Interval.
 - **Channel:** You can select the channel to be shown when the receiver timer mode Powers ON
3. Press the **Red** button to save and proceed with another timer event
 4. Press the **Green** button to save and exit the timer menu
 5. Press the **Yellow** button to exit the timer menu WITHOUT saving the settings

Tip: You have to select the channel, starting time, and ending time settings if the Timer mode is "Time interval". An error message will appear if any of the settings are incorrect.

5.1.4 The Installation Menu (Please see inside cover Screen 1)

All settings that are related to TV channel search are within this menu. The installation menu contains several sub menus such as "*System Set-up*", "*Country selection*", "*Channel Set-up*" and "*Parental Lock*". To access the different sub menus, apply the following:

5.1.4.1 System Set-up Menu (Please see inside cover Screen 11)

To install your receiver to your personal preferences, go to “*System Set-up*” menu. Then please apply the following steps:

1. Press the **Menu** button.
 2. Using **UP/DOWN** keys, select “*Installation*” and press **OK**.
 3. Using **UP/DOWN** keys, select “*System Set-up*” and press **OK**.
- **Language Settings:** You can change the language of the menu, audio and subtitles by applying the following steps <Please see inside cover Screen 12>:
1. Select “*Language Settings*” and Press **OK** or the **Right** button.
 2. Select “*Menu Language*” and Press **OK** or the **Right** button.
 3. Using **UP/DOWN** keys, select the language in which you want your menu to be displayed and press **OK**. The screen of the menu will change to the language of your choice.
 4. You can also choose your preferred first audio language, second audio language and the subtitle language by applying the same steps.
 5. Press **BACK** until you return to the main menu.
- **TV/VCR Settings <Please see inside cover Screen13>:** You can set the TV/VCR settings to your personal preferences. Check your TV and VCR user manuals for the correct settings. You can change your TV/VCR settings by applying the following steps:
1. Select “*TV/VCR Settings*” and press **OK** or the **Right** button.
 - **TV Mode:** Press **OK** or the **Right** button and set your TV mode to “*Multi*”, “*PAL*” or “*NTSC*”.
 - **Video Mode:** Press **OK** or the **Right** button and set your VCR mode to “*CVBS*” (Composite video) or “*RGB*” (preferred option if your TV set is compatible with it).
 - **Screen Mode:** Press **OK** or the **Right** button and set your screen mode to “*4:3 Full Screen*”, “*4:3 Letter*” or “*16:9*”.
 - **Audio Output:** Press **OK** or the **Right** button and set your audio output to “*Stereo*”, “*Left only*” or “*Right only*” (left or Right is for mono TV sets)
 - **S/PDIF Output:** Press **OK** or the **Right** button and activate your S/PDIF output on the back of your receiver, so you can connect it to a digital Audio amplifier using a coaxial cable.
 - **VCR Scart:** Press **OK** or the **Right** button and set the scart output to “*Auto*” or “*STB*” (Set Top Box). If set to “*STB*”, the VCR scart signal is not automatically looped through.
 - **Antenna power (ON/ OFF).** Antenna Power is preset in OFF Mode. Only when using an active antenna this function must be switched “*ON*”. Press **OK** or the **Right** button to select “*ON*”.
 - **UHF Mode:** Press **OK** or the **Right** button and set the UHF mode to “*PAL B/G*”, “*PAL I*” or “*PAL D/K*”. If the TV set is connected using a coaxial (RF) cable, you must select RF modulator type here. The RF modulator type affects the channel audio. (Select PAL I for UK , NI or ROI use.)
 - **UHF Channel:** Press **OK** or the **Right** button and set the UHF channel number to the same UHF channel number of your TV set. This only has to be done if your TV set is connected with a coaxial (RF) Cable. If the UHF Channel numbers of the receiver and the TV set are not set the same, no picture will be displayed. Select a channel between 21 and 69 and press **OK** to confirm.
 2. Press **BACK** until you go back to main menu.

- **OSD Settings:** You can set the OSD (On Screen Display) on your TV to your personal preferences. You can change the OSD settings by applying the following steps:
 1. Select “*OSD Settings*” and press **OK** or the **Right** button. <Please see inside cover Screen 14>
 - **Colour Scheme:** Press **OK** or the **Right** button and set the colours of the OSD menu to “*Basic*”, “*Colour 1*” or “*Colour 2*”.
 - **Transparency:** Press **OK** or the **Right** button and select how transparent you want your OSD.
 - **Brightness:** Press **OK** or the **Right** button and select how you want the OSD to be.
 - **OSD Timeout:** Press **OK** or the **Right** button and select how long you want the information banner to be on the screen when starting up your receiver or when changing channels.
 - **LCN Mode (Logical Channel Numbering):** Automatic numbering of channels through antenna signal. Only usable when broadcaster supports LCN function. In this case switch LCN Mode “*ON*”. Note: When LCN Mode is switched “*ON*”, it disables function described under 5.1.1. “*Sorting channels*”.
 2. Press **BACK** until you go back to main menu.

- **Time setting:** The system uses GMT (Greenwich Mean Time) as a default. To set the time, apply the following steps <Please see inside cover Screen 15>:
 - **Select GMT usage:** Press **OK** or the **Right** button and use the **UP/DOWN** buttons to select the GMT usage “*ON*” or “*OFF*”. “*ON*” activates the selection “*Time Zone*”; “*OFF*” activates “*Set Local Time/ Date*”. Press **OK** to save your setting.
 - **Select Time Zone:** Press **OK** or the **Right** button, and a list of the GMT plus or minus the hours you need for your country is displayed. Using **UP/DOWN** keys select the correct one, and the receiver will automatically show the current time in your country. To set the time manually:
 - **Select Set Local Time:** Press **OK** or the **Right** button. Use your **UP/DOWN** buttons or Numeric buttons [**0-9**] to set the local time. When set, press **OK** to save the local time.
 - **Select Set Date:** Press **OK** or the **Right** button and set the date the way you have set the time.
- 2. Press the **BACK** button until you go back to the Main Menu.

- **Power on channel:** This function allows you to set the channel you want when the receiver turns on. To set the power on channel, apply the following steps <Please see inside cover Screen 16>:
 1. Select “*Power on Channel*” and press **OK** or the **Right** button.
 - **Last Viewed:** The receiver will start-up with the channel that you viewed before turning the receiver off.
 - **Define Channel:** This function allows you to set the channel you want when the receiver turns on. To define the channel, apply the following steps:
 1. Press **OK** or the **Right** button and select in the TV or radio list of channels the channel you want to have your receiver start-up with.

- **System Information:** The system information displays information about your receiver such as model number, software and boot version. To check system information, apply the following steps:
 1. Select “*System information*” and press **OK** or the **Right** button.
<Please see inside cover Screen 18>

- **Factory Reset:** Be careful when using this function, because it will erase all the data and parameters you may have set earlier to your receiver. Once you have made a Factory Reset you will have to re-install your preferences and re-scan your channels. To reset your receiver to factory default, apply the following steps:

1. Select "Factory Reset" and press **OK**.
2. Enter your PIN Code. The receiver will reset itself to the original factory settings.
3. Before using the function "Automatic Scan search" (see 5.1.4.3), select "Country selection" (5.1.4.2) first.

Note: Your PIN code will change back to the factory setting "0000".

5.1.4.2 Country selection (Please see inside cover Screen 19)

To install your receiver with all terrestrial TV and Radio programmes available in your country, go to "Country selection".

1. Press the **Menu** button
2. Using **UP/DOWN** keys, select "Installation" and press **OK**.
3. Using **UP/DOWN** keys, select "Country Selection" and press **OK**.
4. Using **UP/DOWN** keys, select your country and press **OK** to confirm.

5.1.4.3 Channel Set-Up (Please see inside cover Screen 20)

The channel set-up is for downloading all DVB-T available TV and Radio channels. There are two possibilities for downloading the programmes:

- **Automatic Scan search: (Please see inside cover 21,22)**
 1. Press the **Menu** button
 2. Using **UP/DOWN** keys, select "Installation" and press **OK**.
 3. Using **UP/DOWN** keys, select "Channel Set-up" and press **OK**.
 4. Using **UP/DOWN** keys, select "Auto Scan" and press **OK**.
 5. The screen "Auto Detection" appears first. Thereafter the screen "Auto Scan". follows. Wait until the automatic scan has finished.
- **Manual Scan search: (Please see inside cover Screen 23)**
 1. Press the **Menu** button
 2. Using **UP/DOWN** keys, select "Installation" and press **OK**.
 3. Using **UP/DOWN** keys, select "Channel Set-up" and press **OK**.
 4. Using **UP/DOWN** keys, select "Manual Scan" and press **OK**.
 5. Using **LEFT/RIGHT** keys, select "Channel No", "Frequency" and "Bandwidth" and press **OK**.

With the menu "Channel Management" (Please see inside cover Screen 24) you can manually delete single or all channels and scan new ones. Press **OK** to confirm.

Note: Automatic scanning process can only be successful when having selected the correct country inside the menu (5.1.4.2)

5.1.4.4 Parental Lock – Changing PIN Code (Please see inside cover Screen 25)

This function changes the Personal Identification Number (PIN) that is used to control access to the menu and individual channels. In this function, you can lock/unlock channels and you can change your PIN code by applying the following steps:

- **To lock/unlock the menu, please apply the following steps:**
 1. Press the **Menu** button on your remote.
 2. Using **UP/DOWN** keys on your remote, select "*Installation*" and press **OK**.
 3. The receiver will ask you to put your PIN code. This PIN code is currently set to '0000'.
 4. Using **UP/DOWN** keys, select "*Parental lock*" and press **OK**.
 5. Using **RIGHT / LEFT** keys, you can select either "*lock*" or "*unlock*" and press **OK**. By selecting "*lock*", the receiver asks you to enter your PIN every time you want to access the menu. By selecting "*unlock*" it gives you the possibility to access the menu all the time without the receiver asking you for a PIN code.

- **To change your PIN code, apply the following steps:**
 1. Press the **Menu** button on your remote.
 2. Using **UP/DOWN** keys, select "*Installation*" and press **OK**.
 3. Using **UP/DOWN** keys, select "*Parental lock*" and press **OK**.
 4. Using **UP/DOWN** keys, select "*Old PIN*" and enter '0000'
 5. Using **UP/DOWN** keys, select "*New PIN*" and enter a new PIN
 6. Using **UP/DOWN** keys select "*Verify PIN*" and enter the same new PIN
 7. Press the **Green** button on your remote to Save & Exit
 8. Press the **Back** button until you go back to main menu.

You are recommended to write down your new PIN code. In case you forget it, you can reset your receiver to factory default settings but you will lose all information you saved.

Your Personal PIN Code: _____

5.1.5 Games

If you want to play a game, apply the following steps:

1. Press the **Menu** button on your remote.
2. Using **UP/DOWN** keys on your remote, select "*Games*" and press **OK**.
3. Using **UP/DOWN** keys on your remote, select the game you want to play and press **OK**.

6.0 Basic functions – Remote Control

All features of the set-top box can be controlled with the remote control. Inserting batteries to the Remote Control Unit:

1. Open the battery cover on the rear of the remote control Unit.
2. Insert the two supplied batteries (1.5V) observing the polarity (+/-) and the “AAA” specification.
3. Firmly replace the battery cover.

While viewing TV or Radio channels various functions can be applied using your remote control. Outlined is an explanation of the buttons on your Remote and their corresponding functions that can be performed while watching TV or listening to the Radio. (See inside cover for the illustration of the remote control)

- | | |
|--|--|
| 1. STANDBY ON/OFF | Switches the Receiver ON or OFF. |
| 2. SUB | Shows the list of subtitle languages the current channel supports. You can change the subtitle language you want by using the Up/Down keys and pressing OK on your remote. |
| 3. TEXT | Enables Teletext. |
| 4. LIST | Displays the list of channels you have scanned with your receiver. You can change the channel you want to watch by using the Up/Down keys and pressing the OK button. The LIST button is disabled in the favourite channel mode because there can be a number of different channels on which you have different favourite channels. |
| 5. Mute | Enables or disables the sound Mutes. |
| 6. TV/RAD | Switches between TV or Radio mode. |
| 7. FAV | Displays the list of favourite channels If you press FAV on the remote control in No menu state. You can preview the channel via PIG (Picture in Graphic), and move through the list of channels quickly with the CHANNEL UP/ CHANNEL DOWN buttons. |
| 8. CHANNEL Up/ Down | Used for stepping through the channels or navigating within the OSD Menus |
| 9. VOL Left/ Right | Used for adjusting the volume or for navigating within the OSD Menus (Left /Right). In channel list used to scroll list – prev/next 10 items (duplicate Page-/Page+ buttons) |
| 10. OK | To confirm actions in the menu systems. In view mode displays the current channel list. (For example TV, Radio or Favourite). |
| 11. MENU | The main menu for setting up the receiver. |
| 12. BACK | Exits the current OSD page. In TV mode: switches back to previous channels |
| 13. AV | Selects TV or Digital TV |
| 14. Information <Please see inside cover Screen 26> | Shows program information. |

15. EPG

Display the EPG (Electronic Program Guide). EPG shows the event information on the current channel by time zone. EPG is divided into Weekly mode, Daily mode and Extend mode. It provides timer based recording and automatic power ON/Off. The event is displayed only if the channel supports EPG. If you press **EPG**, the Weekly mode is displayed as default.

- **Weekly (Red Button):** The current TP channel list is displayed on the left, and the event information is displayed on the right by time zone <Please see inside cover Screen 27>.
- **Daily (Green Button):** If you want to display the Daily mode of the current channel, press **Green** (Daily). In the daily mode, the receiver shows the designated channel in PIG, and displays the channel event in detail <Please see inside cover Screen 28>.
- **Extended (Yellow Button):** If you press the **Yellow** button, the receiver shows the detailed information of the current event <Please see inside cover Screen 29>.
- **Timer (Blue Button):** Move the cursor to an event in the required time zone, and press **Blue** (Timer). The timer is then set to the designated time. See “*Timer Menu*” (Described in section 5.1.3) for details of the timer.
- Press **BACK** to close the EPG menu.

16. PAUSE

Freezes the picture.

17. AUDIO

Shows the list of available audio languages for the channel you are watching. You can change the audio language you want to hear by using the **Up/Down** keys, and pressing the **OK** button. In addition it sets the current channel audio to stereo ((•)), left-mono ((• or right-mono •)). Pressing the sound button changes the sound icon on the top banner. The selected sound information is saved by channel, and is set to the sound mode when you watch the channel.

18. PAGE Plus/ Minus

Scrolling page by page. Page+ for the next 10 items, Page- for the previous 10 items.

19. Color Buttons

Within the Videotext mode the color buttons follow the color codes of the broadcaster. In the menu follow the color codes for various functions.

20. 0 – 9

Numeric Direct entry of numerical functions in the menus or in channels selection.

A.1 Trouble Shooting

Occasionally receivers can hang-up (just like with a PC) so you are recommended to reset the receiver by disconnecting it from mains power. Wait 30 seconds and connect to mains power again and now check if the unit is working as expected. If the receiver does not work properly after checking the trouble shooting section, please contact the dealer. Don't open the receiver cover, it may cause an electrical shock due to high current voltage and the warranty of your receiver will be void if the receiver has been opened.

Symptoms	Cause	Solution
The green/red lights on front panel do not light up	The power cord is not plugged in	Check that the power cord is plugged into the wall outlet
No picture and sound	TV is set to wrong channel	Check if the TV is switched on and set your TV to the correct EXT / AV channel
No picture and sound	Problem in cable connections between receiver and TV	Check if the scart and is connected correctly to the TV and to the back of the receiver
No picture and sound	Receiver "hang-up"	Switch off receiver; disconnect the main power cord of the receiver from the 220 V main power. After 30 seconds reconnect to the main power and check if it is working properly
No sound	The receiver or TV is in "MUTE" mode	Press the MUTE button on the remote control unit of your receiver and TV
No sound or picture	Problem in scart cable connections between receiver and TV	Firmly press the scart connectors on the backside of the TV and receiver. Replace the scart cable
The receiver displays the message "No or bad signal" during bad weather conditions.	This is normal, the bad weather is interfering the signal of the antenna	Once the weather is better the picture will appear
The receiver displays the message "No or bad signal"	Wrong parameters set in the menu	Check settings of antenna and Channel set up menu.
The receiver displays the message "No or bad signal"	Wrong alignment of the antenna	Ask your dealer to check the outdoor unit and antenna cable
The remote control is not working	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 they are exhausted, replace them

A.2 Glossary of terms

DVB-T	Digital Video Broadcasting Terrestrial - Digital TV via antenna (same as DTT- Digital Terrestrial Television).
EPG	Electronic program guides that are transmitted by some broadcaster to display information guide about a program content.
MPEG	The Moving Picture Experts Group is founded by the ISO. MPEG is a standard method for digital transmission of video and audio.
Network	A network which is also known as a bouquet is a set of channels that is offered by a single broadcaster.
PAL	Referring to the Phase Alternate Line colour system adopted by European broadcasters.
Parental lock	This function gives you the possibility to 'lock' other several functions of the receiver to prevent unauthorized users such as children to view channels that are not suitable for them. A PIN code is required to use of the parental lock.
PID	The transmitted packages have identifiers (PID) that tells the receiver what to do with the received information. Receivers normally use four types of PID, these are V-PID (video PID), A-PID (audio PID), P-PID (Program PID) and data PID (EPG information).
PIN CODE	Personal Identification Number. A four-digit code that is used for locking/unlocking, e.g. with the parental control feature.
RS 232	Serial data port.

Technical Specifications

Demodulator	Demodulation: COFDM/ 16QAM/ 64QAM OFDM Spectrum: 2K - 8K
Video Decoder	Profile level: MPEG-2 Main Profile @ Main Level Input Rate: MPEG2 Video decoding (ISO/EC-13818-2) up to 15 Mbits/s Video Resolution: 720 x 576 pixels for PAL Aspect Ratio: 4:3, 16:9, Pan& Scan, Letterbox
Audio Decoder	MPEG/ MusiCam layer I & II Sampling rate: 32, 44.1, 48 kHz Audio mode: Stereo, Joint Stereo, Dual Channel, Mono, AC 3
Tuner	Front End: DVB-T Input Frequency Range: VHF (47 ~ 230 MHz) and UHF (417 ~862 MHz) RF input Signal Level: -87 ~ -20 dBm Loop through frequency range: 47-862 MHz
Remote Control	Remote Control with colour buttons and short cut Batteries: 2 Size AAA
Connectors	Antenna input: IEC-60169-2, Female RF Loop/Modulator output: IEC-60169-2, Male RF modulator frequency range: 471-855 MHz (CH21-69) 2 SCART: TV and VCR S/PDIF (RCA) – Coaxial Output 3 RCA: Audio L/R, Video IR Sensor Data Interface: Serial Port RS 232, 9-pin D-sub type Power input jack for 12/24 V DC
System and Memory	Flash Memory: 4 Mbytes SDRAM: 8 Mbytes EEPROM: 64 kBytes Main processor: STi 5518
General Data	External power adaptor: from 90 ~ 240 V AC 50/60 Hz to 12 V DC Power consumption: max 25 W, Stand-by mode: 13 W Operating Temperature: +5°C ~ +45°C Storage Temperature: 0°C +50°C Humidity: 25% - 70% Size (WxHxD) in mm: 280 x 40 x 200 Weight: 2 kg