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2. Important safety instructions



This symbol indicates dangerous voltage inside the product that presents a risk of electric shock or personal injury.



This symbol indicates important instructions accompanying the product.

- Please read this manual carefully before using this product.
- Before connecting the AC power cord to the outlet, make sure the voltage designation of the digital receiver corresponds to the local electrical supply. If you are unsure of your power supply, ask your local power company.
- Never insert metal parts into the cabinet openings of the digital receiver as it may cause the electric shock danger.
- To avoid electric shock, never touch the inside of the digital receiver. Only a qualified service personnel should remove the case of the receiver.
- Never use your digital receiver if the power cord is damaged. Do not leave any things on the power cord, and keep the cord away from the place where people can trip over it.
- Be sure to hold the plug, not the cord, when disconnecting the receiver from an electric socket.
- Two position bi-stable ON-OFF push-push power network switch turns the receiver on and off. Its function is described in chapter 6 Installation. Power network switch does not turn off the receiver from power network totally. There remain, however, some parts with voltage. Device that completely disconnects receiver from power network is power network plug. For this reason power network outlet must be easily reached.
- Batteries shall not be exposed to excessive heat such as sunshine, fire etc.
- For sufficient ventilation, leave a space of at least 10cm all around the receiver.
- Do not cover the ventilation openings of the receiver with newspapers or curtains etc.
- Do not place naked flame sources on the apparatus (e.g. lighted candles).
- Take attention to the environmental aspects of the battery disposal. Do not throw away batteries together with the domestic waste. Use only special gathering points.
- Use the apparatus only in moderate climates (not in tropical climates).
- Ventilation openings are made in the digital receiver cabinet. To prevent overheating, these openings should not be blocked or covered. Also, avoid using the receiver on a bed, sofa, rug, or other soft surface. This can block the ventilation openings in the bottom of the cabinet. If you put the receiver in a bookcase or some other enclosed space, be sure an adequate ventilation is provided.
- Do not expose the digital receiver to extreme temperature conditions or to extreme humidity conditions.
- Avoid drips and splashes. Be sure no objects filled with liquid are placed on the top of the apparatus (e.g. vases).
- Do not place the digital receiver on an unstable cart, stand, tripod, bracket, table, or floor where it can fall down. A falling product, drops and scratches can cause serious damage to the appliance.
- Do not clean the front with keton-type materials (e.g. acetone), ethyl alcohol, toluene, ethyl acid, methyl, or chloride - these may damage the panel.
- In case your digital receiver does not operate normally or there are any unusual sounds or smells coming from it, unplug it immediately and contact an authorized dealer or service centre.
- High temperature can cause problems. Don't use your digital receiver in direct sunlight, and keep it away from heaters, stoves, fireplaces, and other sources of heat.
- Unplug the power network plug when the apparatus is left unused for an extended period of time. It is recommended to disconnect the receiver from power network in case of a thunderstorm.
- To reduce the risk of fire, electric shock or annoying interference, use the accessories recommended in chapter 4.
- If the receiver is broken, do not try to service it yourself. Contact qualified service personnel.
- Unplug power cable from the AC outlet before any service.
- Be sure the service technician uses authorized replacement parts or their equivalents. Unauthorized parts may cause fire, electric shock or other hazard.
- Following any service or repair, be sure that the service personnel performs a safety tests to certify that your digital receiver is in safe operating order.

3. General Information

Skyter 3D HD receiver enables receiving television and radio programs in satellite DVB-S/S2 and terrestrial DVB-T standards. The device can be used together with an analogue or digital TV-set, audio amplifiers, home network routers and other home devices. Skyter 3D HD is able to receive "DVCrypt" system encoded channels.

4. Delivery contents

- DVB-S/S2 and DVB-T digital receiver Skyter 3D HD	1 pc
- Remote control	1 pc
- HDMI cable	1 pc
- User's setup Guide	1 pc

5. Description

5.1. Front panel



Fig. 1 Front panel

1. Power button
2. Remote control sensor
3. Standby indicator - green is "on"; red is "off" (standby)
4. 1,54" graphic OLED display
5. Channels up/down buttons
6. "DVCrypt" card reader
7. USB 2.0 connection „max 0,5Amp"
8. CI interface slot

5.2. Rear panel



Fig. 2 Rear panel

1. Satellite LNB A & LNB B (satellite dish A & B input signals). It is used to connect satellite dish / dishes to the receiver. (RF cable/cables are used). In case twin LNB configuration is used, please use two RF cables to connect A & B inputs with the satellite dish. In case single LNB configuration is required, please use one RF cable connected to LNB A input. LNB A input signal is provided for both A & B inputs. Fully protected 14/18v LNB supply and DISEq commands are provided separately for LNB A & LNB B inputs.
2. Terrestrial RF IN (Terrestrial RF antenna input). It is used to receive RF signal from terrestrial antenna. 5v of antenna supply is fully protected (0,1Amp current limit) and can be switched on in menu.
3. Terrestrial RF OUT (Terrestrial RF output). It is used to connect RF terrestrial antenna to other devices: analogue TV, etc.
4. SCART. It is used to connect a receiver to a TV-set with a SCART cable.
5. HDMI. It is used to for connect a receiver to a TV-set or to a multichannel sound decoder with HDMI cable.
6. NET, RJ45 Ethernet port. It is used to connect a receiver to a LAN router with RJ45 Ethernet cable.
7. USB ports. the receiver has 2 USB 2.0 interface ports „max power 1,0Amp each". They are used for various USB external devices connection (keyboards, HDD, etc.).
8. S/PDIF, coaxial output. It is used to connect a receiver to a multichannel sound decoder.

9. Power button
10. Power cable

5.3. Card reader

1. The card reader is integrated into the receiver and enables to decode the channels encoded by the "DWCrypt" system.
2. The channel cards are to be inserted into the card reader with the contact chip placed down.

5.4. CI interface

1. CI interface slot is integrated into the receiver and enables to decode the channels using external CI module.
2. The CI module is to be inserted into CI slot.

5.5. Remote control

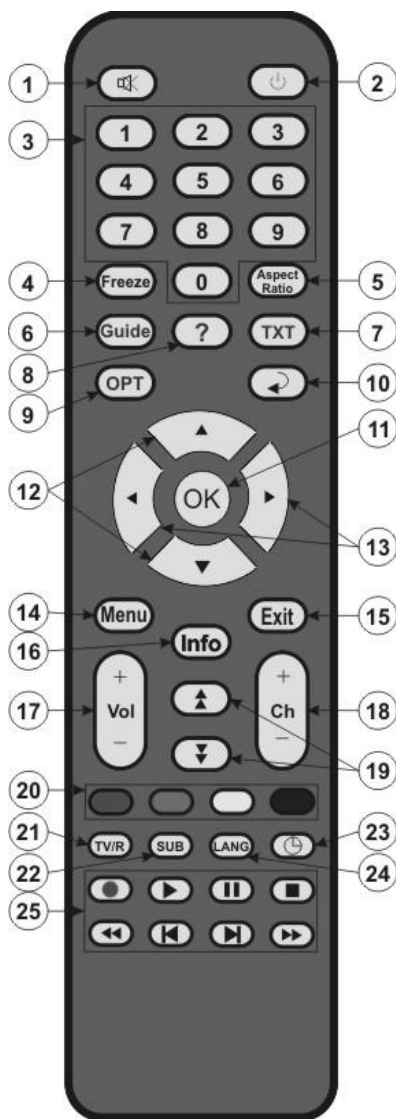


Fig. 3 Remote control

1. **MUTE**
Press to turn the volume off
2. **STANDBY**
Press to switch the receiver on / off (standby mode) .
3. **0-9**
Number buttons. Press to select TV channels, radio channels or menu options
4. **Freeze/Pause**
Press to stop / play the picture in time shift mode.
5. **ASPECT RATIO**
Press to change aspect ratio to 4:3 or 16:9 mode
6. **Guide**
Press to show electronic program guide.
7. **Text**
Press to switch the teletext on / off.
8. **HELP**
Press to enter a help window.
9. **OPTION**
Context options menu. Not active now.
10. **RETURN**
Press to switch back to the previous channel.
11. **OK**
Press to display the channel list or confirm the choice in the menu list.
12. **▲ / ▼**
Press to change the displayed options and channels to be selected.
13. **◀ / ▶**
Press to enter / navigate on time shift mode. When "menu" function is active – press for left / right line movement .
14. **MENU**
Press to open / one step back the menu tree.
15. **EXIT**
Press to exit from the menu. Changes are not saved.
16. **info**
Press to display relevant information about the current channel or program on the TV screen.
17. **VOL + / -**
Press to increase / decrease the volume.
18. **Channel + / -**
Press to switch the channels.
19. **Page up/down**
Press to page up/down on various menu list.
20. **Coloured (hot buttons)**
Red, green, yellow, blue buttons can be programmed to control the most frequently used functions. Context-dependent buttons.
21. **TV/Radio**
Press to switch from television to radio channel mode and back.
22. **Subtitle**
Press to turn the subtitles on/off.
23. **Timer**
Press to enter a schedule timer menu.
24. **Language**
Press to select an audio track.
25. **Media player keys**
Press for media player control.

6. Installation (Getting started)

Please read this manual before installing the receiver

The receiver should be placed close to a TV-set or any other home devices to connect them together using the cables available in the set. The following important rules must be followed:

- Do not place the receiver close to heat sources.
- Do not place the receiver close to radio waves emitting devices (e.g. mobile phones)
- Place the receiver in the direct access of the remote control.

6.1. Connecting receiver to Antenna, TV Set, Multichannel Audio System

6.1.1. Connecting to satellite and terrestrial antenna

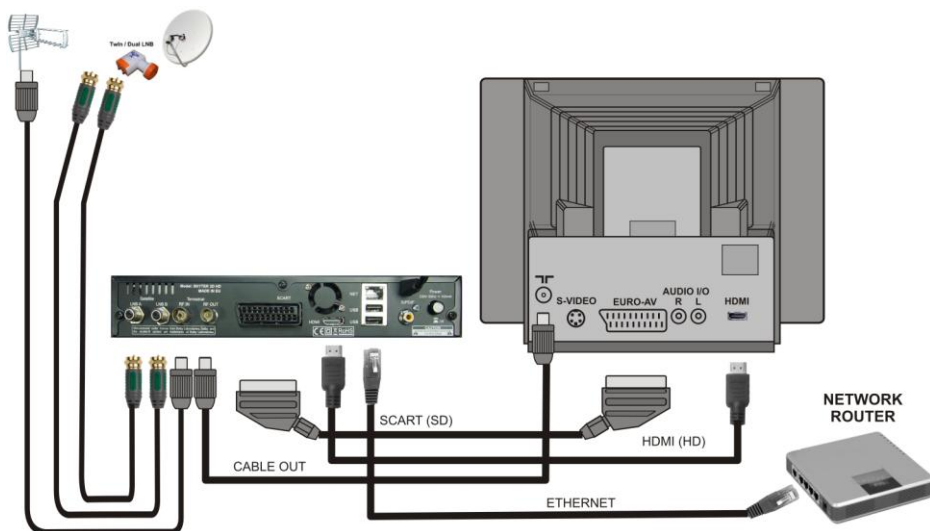


Fig. 4 Connecting to antennas, network and TV

Skyter 3D HD is equipped with two independent DVB-S/S2 inputs LNB A and LNB B accordingly. Depending on your satellite dish installation, you can use single or dual/twin LNB & cable configuration. In case you have twin LNB and cable installation, each tuner can select any satellite signal independently. In case of single cable LNB connection to LNB A input, signal for both tuners loops internally. The type of satellite dish installation is selected in **MENU>Settings>System settings>Antenna setup>Satellite LNB configuration>LNB connected**. See Fig. 5.

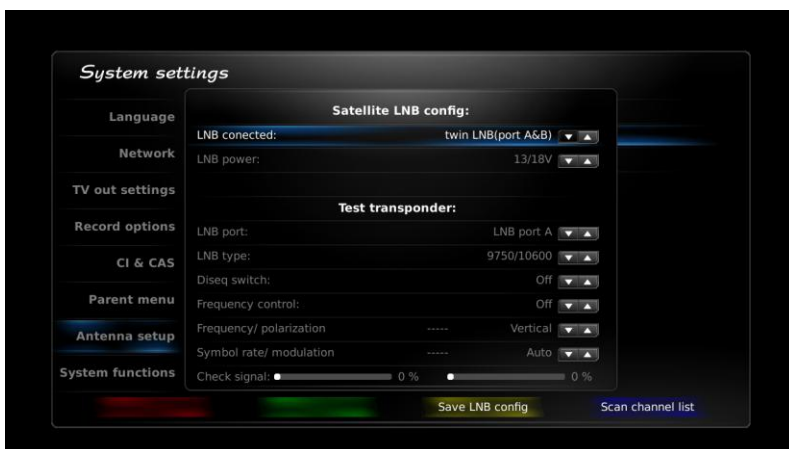


Fig. 5 Satellite LNB configuration

During satellite dish LNB and cables installation you can easily check the signal and the list of the channels available on the selected frequency by entering test transponder parameters into the **Test transponder** section in the **Satellite LNB configuration** window. Then move the cursor on the “check signal” line and the STB starts tuning on the test transponder parameters.

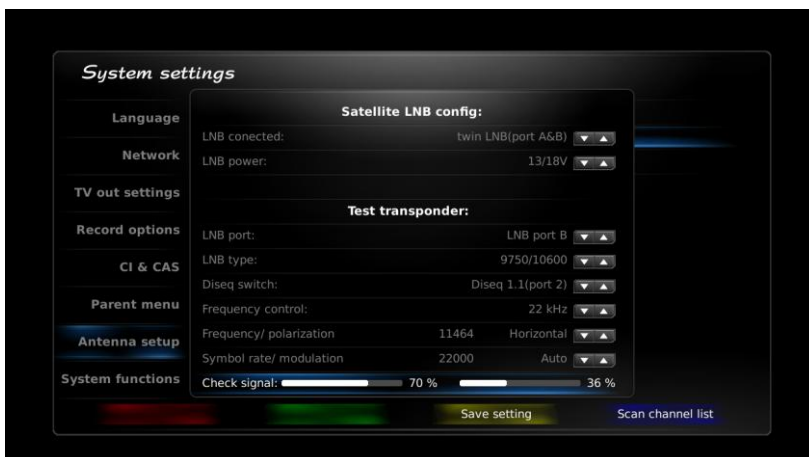


Fig. 6 Satellite LNB configuration, check signal

In case the signal was successfully locked, you can quickly scan the programs on the selected frequency by pressing the blue button. It helps to identify the satellite (**See Fig 6**). The programs list is seen on the screen only and is not saved. As soon as you finish LNB configuration, press yellow button to confirm and save your configuration. Pls note, that test transponder parameters are not saved.

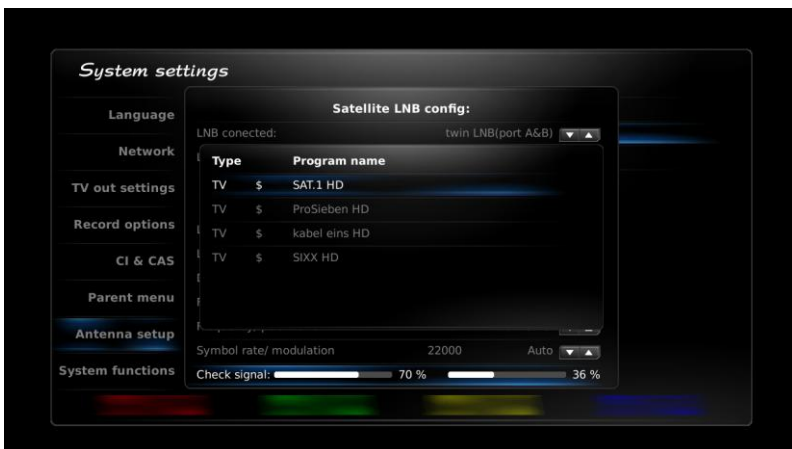


Fig. 7 Satellite LNB configuration, programs quick scan

6.1.2. Satellite setup

Before start the program search, add the satellite of you dish system installation, you plan to search the program on. **MENU>Settings>System setting>Antenna setup>Satellite setup.** You can press green button and select satellite from the list. Then insert the satellite dish installation parameters (LNB frequency type, Diseq port or none, frequency control). During the satellite installation you can easily check the signal and the list of channels available on the selected frequency by using menu's **Test transponder** section. If a signal is successfully locked, you can quickly scan programs from the selected transponder by pressing blue button. It helps to identify the satellite. See Fig 8 and Fig 9. No information is saved this time. When the Satellite configuration is finished, press yellow button to confirm and save you satellite configuration. When a screen keyboard opens, please type or confirm the satellite's name and press "ok". A new satellite is now added to the list. You can edit or delete it from this menu using a yellow button.

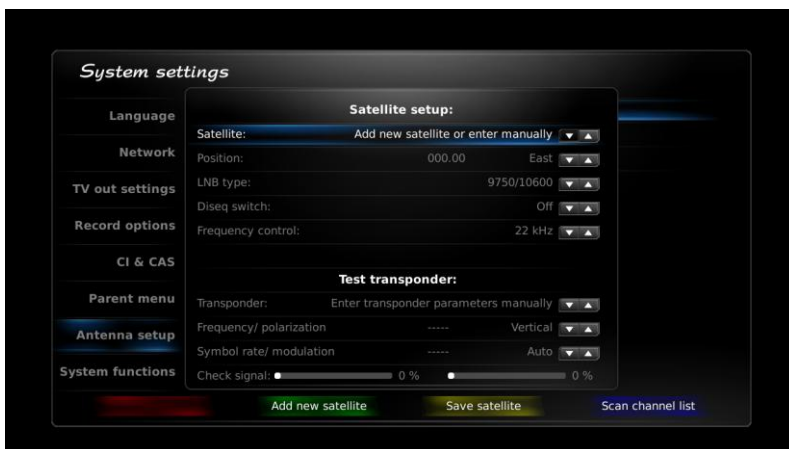


Fig. 8 Satellite list

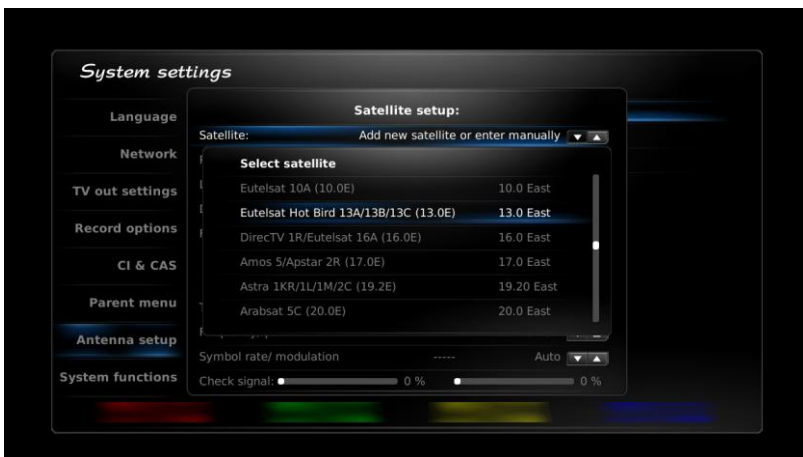


Fig. 9 Adding a new satellite

6.1.3. Terrestrial antenna setup

Terrestrial antenna is connected to RF IN input. If your antenna is equipped with the amplifier (the so-called active antenna), Skyter 3D HD can supply voltage to power it. It is selected by **MENU>Settings>System setting>Antenna Setup>Terrestrial antenna setup>Antenna power**. The supply voltage is 5volt and 100mAmp current. You can easily install you terrestrial antenna by setting your region transmitter frequency and tune position of antenna by looking on the signal bar. Press the yellow button to confirm and save you configuration.

6.1.4. Connecting to TV-set and Multichannel Audio System

Two ways are possible for connecting a receiver to a TV-set - with HDMI or with SCART cable. HDMI is more preferable as it gives you a possibility to get HD quality on a TV screen. By default setting, Skyter 3D HD will read EDID table of the supported formats from the connected TV-set and install a TV mode accordingly. You also can adjust this modes manually, but please be careful – some modes can not be supported by your TV-set. In this case no picture will be available. In this case connect a TV-set with SCART cable (SCART signal is always available), choose HDMI video menu and set AUTO EDID mode ON. AUTO EDID set ON means that the receiver reads EDID table from the connected TV-set and set up a resolution. Is the frame rate is the same as the video content being played, the picture quality will be the best possible. If a video content resolution and frame rate is not supported by the connected TV-set (no equivalent mode is available on the EDID table read) Skyter 3D HD will select the nearest possible mode, supported by the connected TV-set.

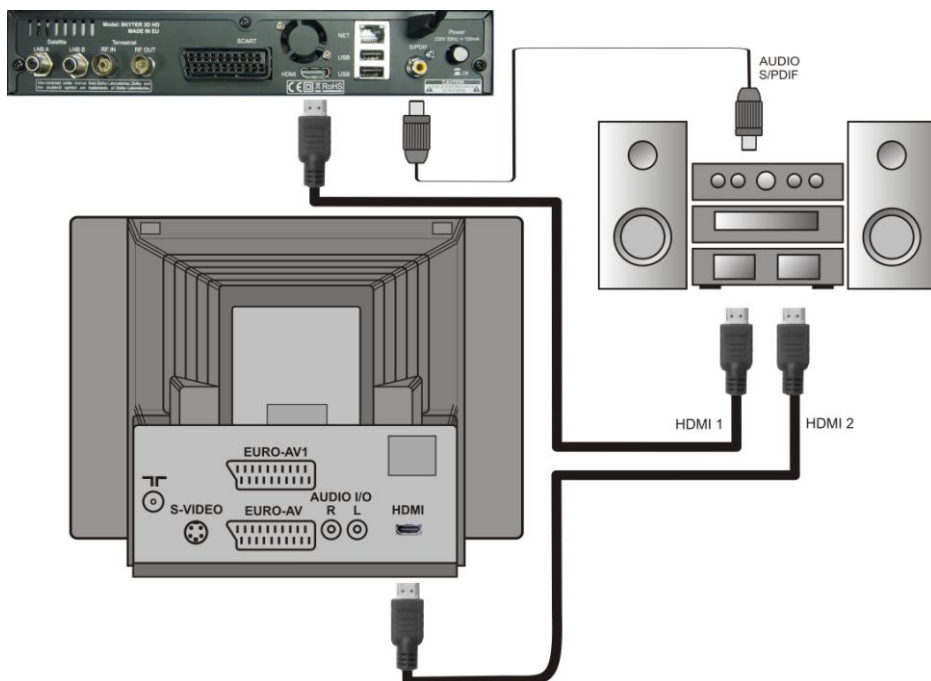


Fig. 12 Connecting to a TV-set and Multichannel Audio System

If a user does any changes in **MENU>Settings>System setting>TV out settings>HDMI video**, he needs to press **APPLY** button to get the immediate effect. If **AUTO EDID** option is selected **ON**, the resolution and frame rate selected will be used by the receiver as the initial setting mode only. If **AUTO EDID** option is selected **OFF**, the resolution and frame rate selected will be used by receiver permanently.

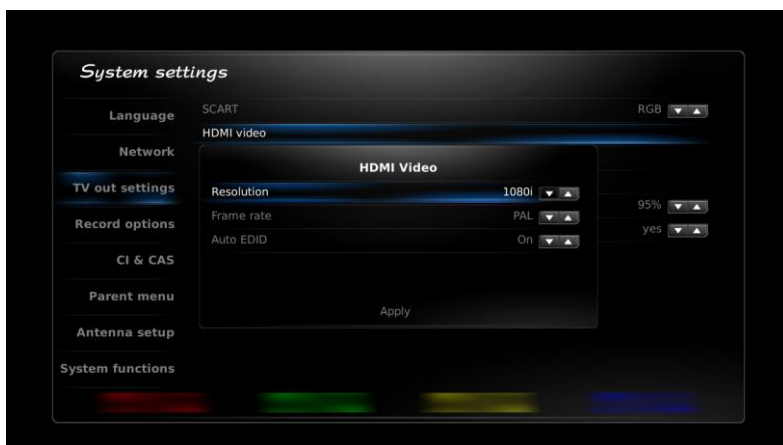


Fig. 13 TV settings and HDMI video configuration

You can also select the type of audio signal delivered to HDMI and S/PDIF output. **PASS THROUGH** means that the receiver will deliver selected audio track in compressed mode on the selected output. **Decoded stereo PCM** means

that the receiver will deliver selected audio track in decoded stereo mode on selected output. Due to limited number of audio codecs integrated, not all audio signals will have audio signal in Decoded stereo PCM mode. You can select HDMI Audio out on **MENU>Settings>System setting>TV out settings>HDMI audio** and S/PDIF out **MENU>Settings>System setting>TV out settings>S/PDIF** separately.

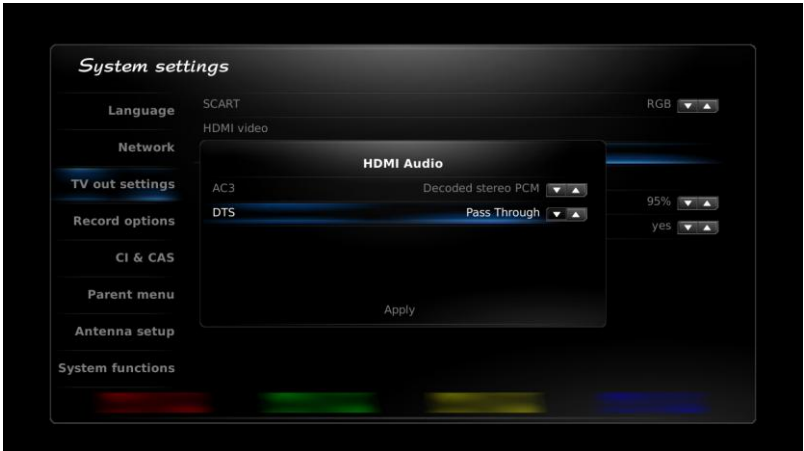


Fig. 14 TV settings and HDMI audio configuration

6.1.5. Connecting to the Network

Skyter 3D HD is equipped with 10/100Mbit LAN and 150Mbit WLAN interfaces. In **MENU>Settings>System settings>Network** you can see the available network and connection.

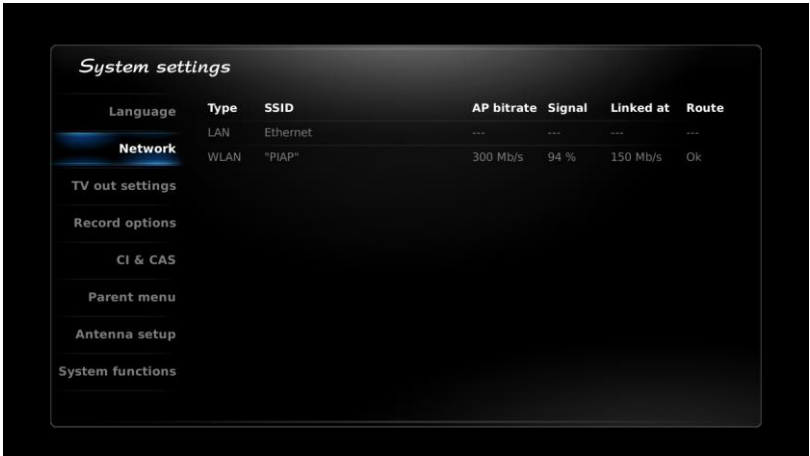


Fig. 15 Network list

If a LAN cable is plugged into the network, you can see actual link speed. By selecting a corresponded network connection, you can connect to the selected WLAN Access Point (AP), see or adjust network setting by pressing OK button. The receiver will request AP for connection. If it is a password protected network, the screen keyboard will open for password input. Next time the receiver will remember the passwords for the few last successfully connected AP and will connect to it automatically. Press blue button and enter the name of the hidden WLAN to connect it.

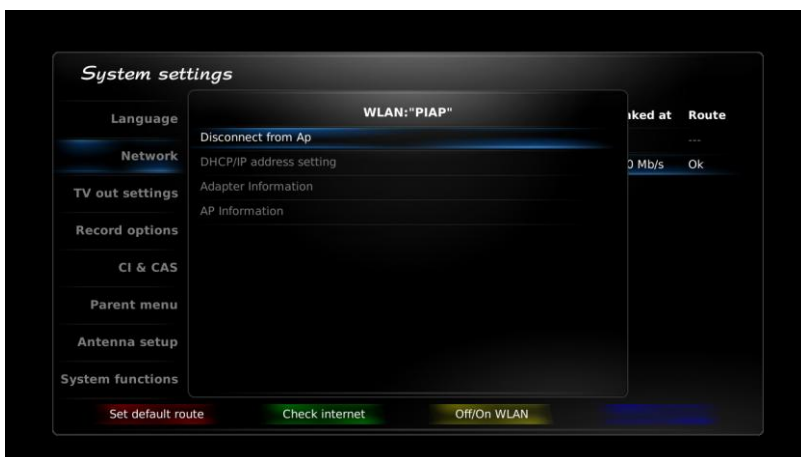


Fig. 16 Network connection menu

In case 3G modem is attached to USB port, the PPP(modem) line will appear on the network list. Pls note, that a modem can be attached only to rear USB ports due to power requirement. Both rear USB ports can supply 1Amp current and Front USB port can supply only 0.5Amp. By selecting PPP connection you can also scan, connect and change the available option for 3G/GSM connection. Pls note, that not all types of modems are supported by the system software. The supported modems are listed on the web site. Press red button to select default connection route to internet. In case the default connection is available, the receiver will link to internet via this connection. If the default connection is not available, the receiver will try to link internet via any other available network connection, LAN is always preferable in this case. Press yellow button to switch OFF WLAN adapter completely. Press green button to check if the internet connection is available and to see the actual network internet route.

7. Receiver setting up

7.1. Switching on

Plug the receiver into a power outlet. After the advertising screensaver, the installation guide is displayed on the TV screen. Select menu, language, time zone and the receiver will start the terrestrial channels auto scanning. You can press EXIT button to stop this dialog. All selections saved during the dialog can be changed later in the main menu.

7.2. Main menu

The main menu includes a lot of settings for the receiver configuration. Press **MENU** button on the remote control to enter the main menu. Press **▲ / ▼** buttons for Menu lines selection.. The selected line is highlighted. Press **OK** button to enter the selected menu line window. Press **MENU** button to return back to the previous menu window. Press **EXIT** button to exit from the main menu. To enter the settings and recordings sub menu you may select relevant line and press the right button.

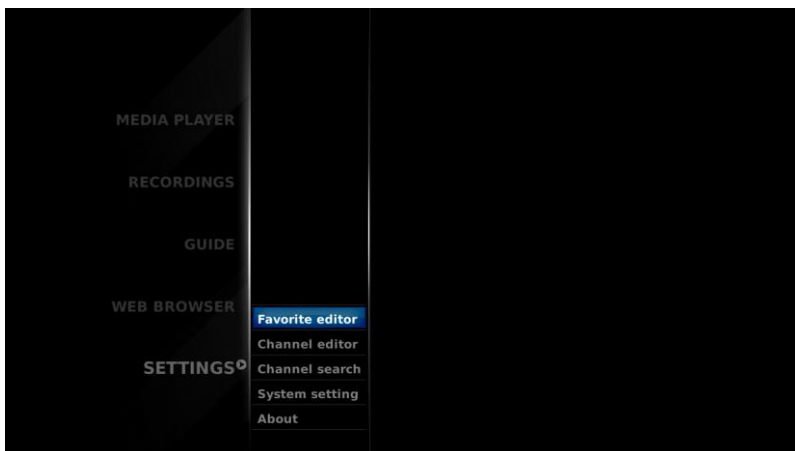


Fig. 17 Main menu

7.3. Channel search

After a new satellite is added, you can search programs on it.

For automatic satellite search **MENU>Settings>Channel search>Satellite Auto search**, the receiver requires the list of transponders on the selected satellite. Thus, during automatic satellite search the receiver will search channels according to the transponder list only. You can add new transponder data, save them, edit them or delete them on **MENU>Settings>Chanel search>Satellite transponders**. See Fig 18.

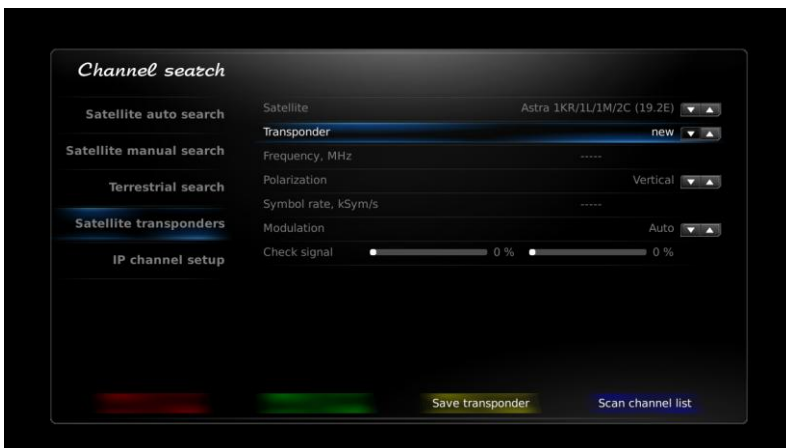


Fig. 18 Satellite transponder

MENU>Settings>Channel search>Satellite auto search you can select a satellite(from the list of previously added) and scan channels on the selected transponder only or on all transponders available. Press blue button to check the list of channels available on the selected transponder. (no information is saved). You can also select the network scan **ON**. In this case, when the channels search is finished on the selected transponder, the receiver will check NIT table. In case NIT table is available, the receiver takes the transponders table from NIT and search channels on these transponders as well. If you select search style update, the system will add new found channels, Alternatively, if you select full search, the system will delete all channels from the selected satellite and replace them with the newly scanned. Press red button to start the search.

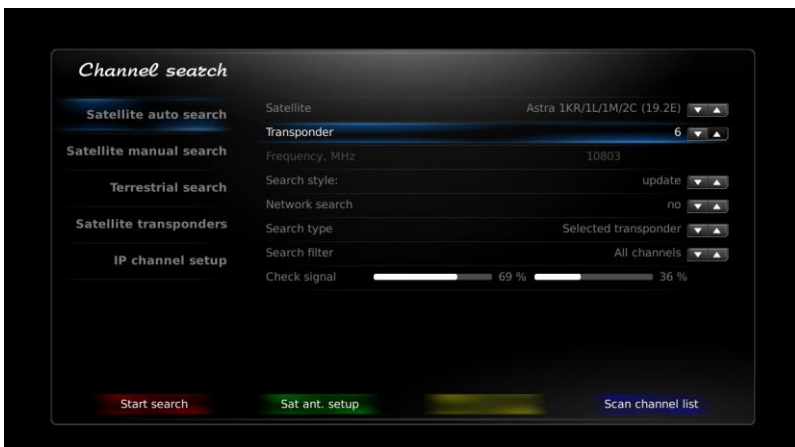


Fig. 19 Satellite auto search

MENU>Settings>Channel search>Satellite Manual search searches the channels on the selected transponder by entering it manually See Fig 20. The tuner will be loaded by all tune parameters only when you move the cursor to the **Level** position. The search options are the same as for the auto search.

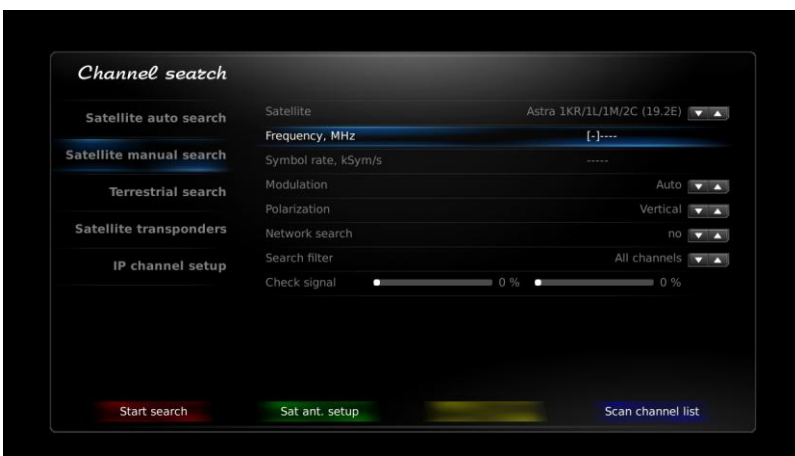


Fig. 20 Manual search

For Terrestrial channels search the Terrestrial antenna is needed to be plugged in first. By Terrestrial search menu **MENU>Settings>Chanel search>Terrestrial search** you can select the programs manually (by the selected channel of frequency) or automatically (by all terrestrial band) search.

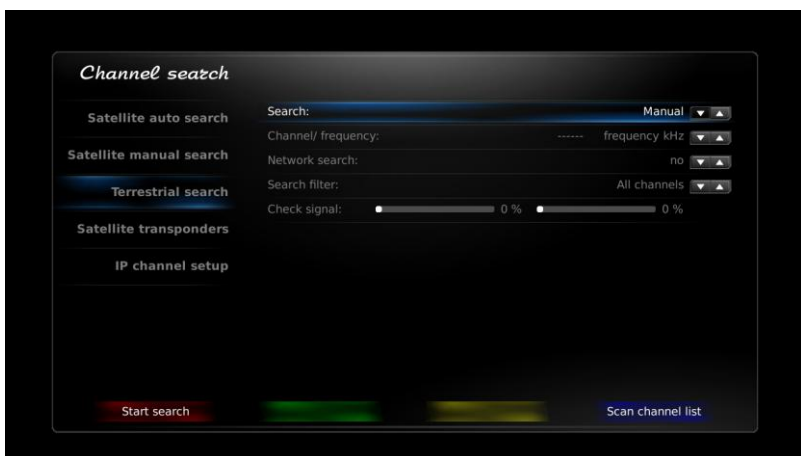


Fig. 21 Terrestrial search

As soon as the search is finished, the list of the programs is displayed in the programs extract window. See Fig 22.

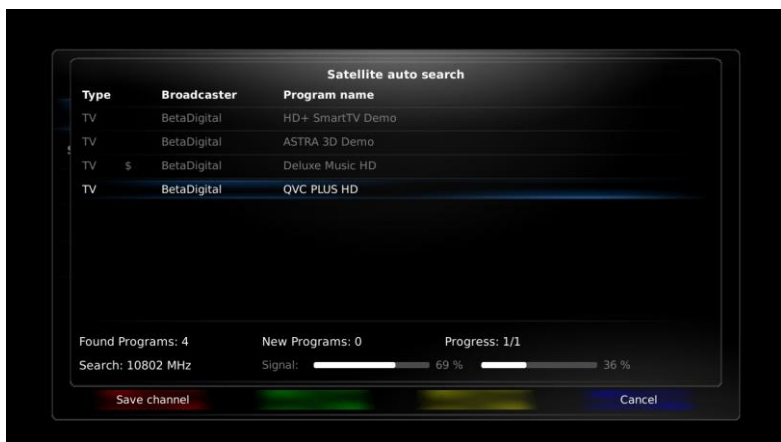


Fig. 22 Channels search

When search is finished, press red button to save search results or changes, or press EXIT button to exit from the search window without saving search results or changes. In the latter case, pop up window "Waiting..." will be displayed on the TV screen. Please wait for a few seconds for the system to save the search result into the channel data base.

7.4. Channel editor

Select the **MENU>Settings>Channel editor**. You may move, sort, rename or lock the channels you consider as inappropriate for your children in this manager window.

The channel list and the colored buttons which have the same function as those on the remote control are displayed in the Channel editor window. Press buttons **0...9** on the remote control to select the desired channel . Press **▲ / ▼** buttons to move from one channel to the next and back. Press **▲▲ / ▼▼** buttons to jump every twelve channels. Press **EXIT** button to exit from the channel manager window.

As soon as the programs search is finished, the channels are displayed in the sequence they are transmitted by a broadcaster. Press the red button **Sort** on the remote control to sort the channels according to the offered criteria, p The sorting criteria query will be displayed on the screen. Press **▲ / ▼** buttons to select the desired option. Press **OK** button to confirm your choice.

If you want to lock the selected channel, press the green button **Lock** on the remote control. The request **Enter password** will appear on the screen. The initial password is **0000**. When you enter the password, press apply. The lock icon will appear next to the selected channel. To unlock the channels, press the green button **Lock** on the remote control repeatedly and enter a password. To unlock a channel, press green button and enter a password. When you exit from channel manager window, the receiver will always require to enter a password when turning on the locked channel. There is no possibility to bypass this feature, because having locked at least one channel, the programs search and defaults are automatically locked and may be unlocked only after entering a password. For more information regarding locking the receiver and changing the password refer to chapter **7.9.4** Parent menu.

There is the option to rename programs. As soon as programs search is finished, the programs are presented in the channel list under the names transmitted by a broadcaster. If you want to give your own name for a selected program, press the yellow button **Rename**. Keyboard window and the line for entering the desired name of a program are displayed at the TV screen. Press **▲/▼** and **< / >** buttons on the remote control to select letters and functions, and press **OK** button to enter the selected ones. Press **Enter** key on the keyboard to save a new program name and then press **OK** button.

If you want to change the order of the channel in a channel list, choose a channel and press **OK** button. Icon with arrows appears next to the selected channel. Press **▲ / ▼** buttons to move the channel up or down in the list. Select a new place for the channel and press **OK** button to confirm. To exit from the channel manager the system will ask you to confirm the changes made. Then, the system saves the changes into the data base.



Fig. 23 Channel editor. Move

7.5. Favorite manager

Select the line **MENU>Settings>Favorite editor** from menu by pressing **OK** button. The background image of the channel watched at that moment, the channel list and colored buttons which have the same function as those on the remote control appear in Favorite editor window. To select the desired channel, press buttons **0...9** on the remote control or press **▲ / ▼** buttons to move from one channel to the next and back or press **▲▲ / ▼▼** buttons to jump every twelve channels. Select the desired channel by entering a channel number with the remote control buttons **0...9**, by moving from one channel to the next channel and back by using **▲ / ▼** buttons or jumping through twelves of them by using **▲▲ / ▼▼** buttons.

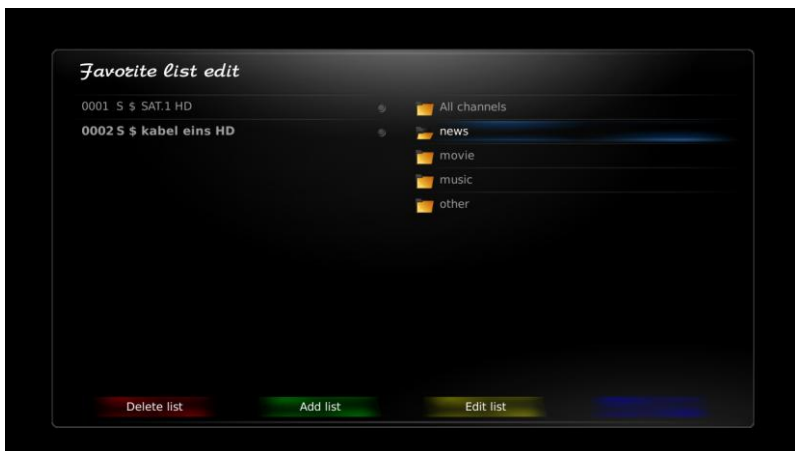


Fig. 24 Favorite editor

This editor allows to add channels in the channel list according to four of default lists: **News, Movie, Sport, Other**. Alternatively you can also add new lists (max 10 in total) or edit the name of any list. You can also delete any newly added lists except the four default ones.

E.g. You'd like to add ProSiben HD and SAT.1 HD channels to the **News** list. Select ProSiben HD channel, then select SAT.1 HD(both will be marked by blue dots), press green button on the remote control, pop-up window opens, select **News** list and press **OK**.

Favorite editor right side shows the available lists and indicates the current one. If you'd like to delete ProSiben HD from the **News** list, press right button to move the cursor to the right of the window. Then select **News** list and press **OK**. Now the **News** list is selected as the current one and is displayed in the left of the window. You can move to the left of the window, select ProSiben HD, press **OK** to switch to this channel, then press red **Delete** button. ProSiben HD channel is now deleted from the **News** list only.

Pls note that if you delete any channel from **All Channel** list, this means you delete this channel completely. The channel is deleted from all lists and STB memory. To get it back you need to search the channel on the transponder again.

You can also use yellow/blue button to select/unselect all channels in the current list. Then you can delete or add them to other lists.

If you move focus to the right of the window you can delete, add or edit names to the lists. Pls note, that first four lists are default ones and can't be deleted. If you press green or yellow button, the keyboard appears for you to move the cursor on the keyboard and press **OK** on the selected letters. As soon as you are ready, move the cursor to the **Enter** button and press **OK**.

7.6. Electronic program guide

Press **OK** button to select the **GUIDE** line.

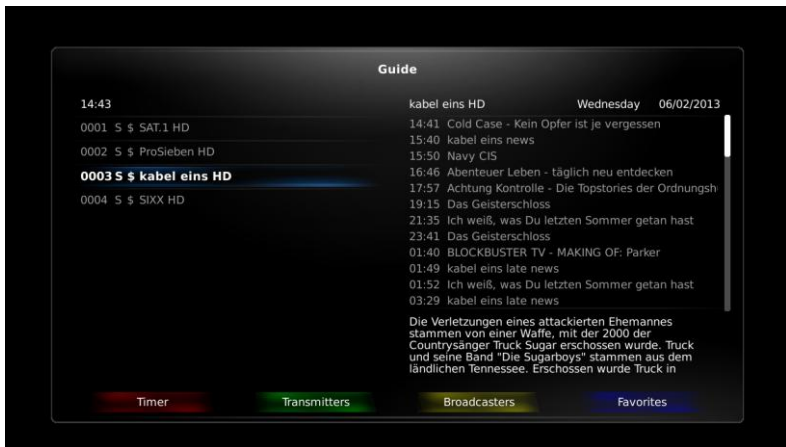


Fig. 25 Electronic program guide

The background image of the channel watched at the moment and the channel list is displayed in the Electronic Program Guide (EPG) window. Programs schedule Information on the current channel is displayed in the right part of the window, and the channel list is in the left part of the window. Press **▲ / ▼** buttons on the remote control to select the desired channel.

Press **> / <** buttons to switch on right/left part of the window. Press **▲ / ▼** buttons to navigate inside the programs schedule. Press **OK** button to select the program scheduled for recording (see section 8.2.1). Press **Info** button to see the information about the program selected.



Fig. 26 Electronic program guide. Info

To go back from EPG window, press **MENU** button; to exit from menu window, press **EXIT** button.

Note

EPG information is visible only if a broadcaster provides it. Otherwise, the word "Unavailable" appears

7.7. Media player

You can access the internal HDD or external USB storage using media player menu **MENU>MEDIA PLAYER**. Select this menu to display the list of the connected devices and the available UPNP/DLNA network servers. You can press **INFO** button and see the disc information. Select the one you need using the cursor, press **OK** and you can browse files on this device. Press **OK** button to play the files with the supported content s. During the playback

you can use </> button to search inside the played file. Search progress bar appears at the bottom of the screen. Press **INFO** button and see the media file information.

7.8. Recordings

This menu allows to operate the current records and to schedule future records.

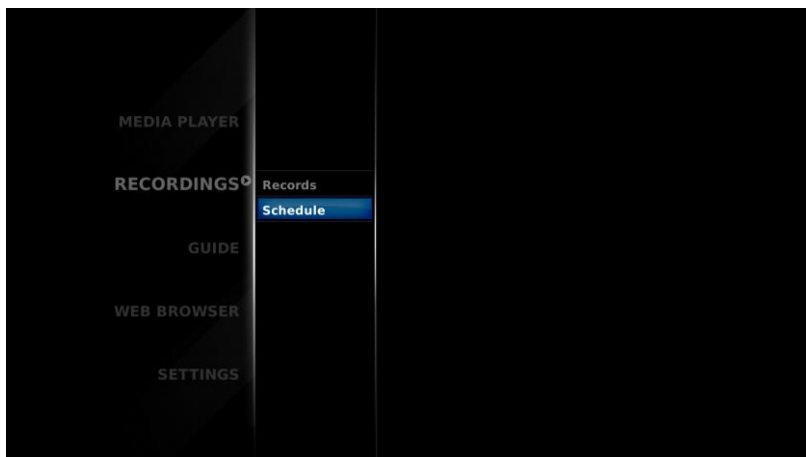


Fig. 27 Recordings.

7.8.1. Schedule

This menu allows to schedule your record tasks.

Press **MENU>RECORDINGS>Schedule** and press **OK** button to enter the Recordings schedule window. In case you schedule the records in **GUIDE** menu, they are displayed as new record tasks in the recordings schedule window. You can delete, edit or add new recording tasks. Use green button to sort the tasks in the list.

Programm/title. The record task is scheduled according to the channel name and program name criteria.

Date/time. The record task is scheduled according to first start time and date criteria.

Duration. The record task is scheduled according to records duration criteria.

Mode. The record task start is scheduled (single, weekly, daily).

Status. „Scheduled“ status means the record is planned.

„Stopped“ means nothing is done with the planned record.

„Running“ means the record is in process now.

You can edit any field to sort the records task by pressing yellow button. Then press **Apply** to save the changes.

Press blue button to add new recording task.

Press red button to delete any task even if it is in „running status“. In this case the recording is stopped immediately and a partially recorded stream is saved. Executed single mode tasks are deleted automatically from the task list.

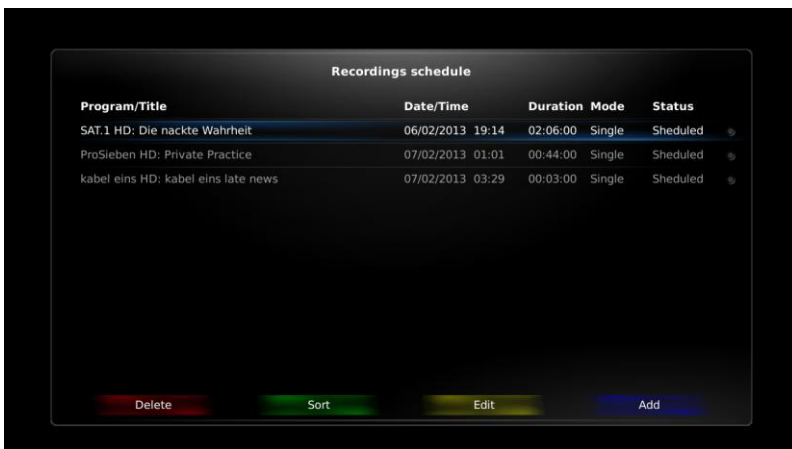


Fig. 28 Recordings schedule.

7.8.2. Records

This menu allows to operate with the records done by the receiver. Press **MENU>RECORDINGS>Records** and press **OK** button, Records window is open. Both ways new records (scheduled recording and immediate recording) are added in this list.

Program/title - channel name and program name of a recorded content criteria.

Date/time- record start time and date criteria.

Duration – record duration criteria.

Status: "recorded" means - recorded but not viewed.

"viewed" means recorded and viewed (at least one second of video has been played).

"archive" means archived to keep this video for later future play back.

"locked" means password is requested for later future play back.

At the bottom part of the window the selected records program title extension is provided.

Press **Info** to see complete program/title information for the selected record.

Press blue button to select/unselect records for future activation – blue select dot will appear.

Press red button to delete the selected or current records.

Press yellow button to change the status of the selected or current records.

In order to sort the records list you use green button.



Fig. 29 Recordings, records.



Fig. 30 Recordings, records, info

7.9. System settings

This window of the main menu allows you change the receiver system settings by customizing it. To select sub menu in the System setting window, select the requested sub menu and press right button to enter it.

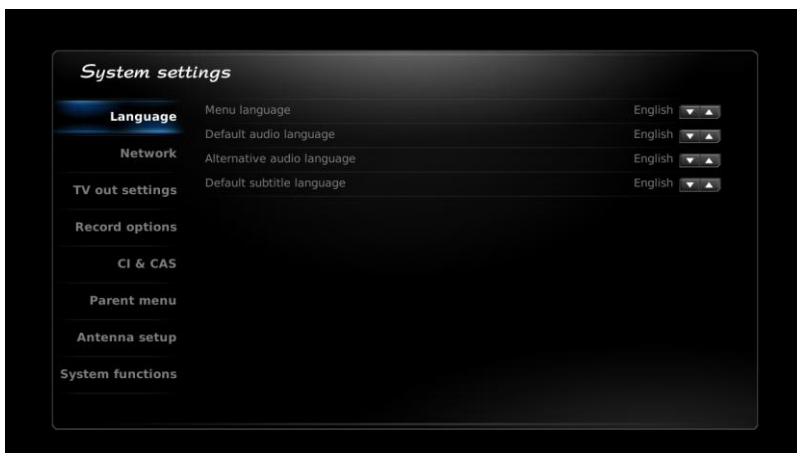


Fig. 31 System settings

7.9.1. Language

MENU>System settings>Language This function selects the user's menu language and provides adequate sound, title and text languages. All languages can be selected separately. When choosing each language, you can select an additional (alternative) language in case the language selected by you is unavailable. If a broadcaster fails to transmit the languages selected, then sound, title and text language will be the original language of broadcaster's transition. System scans the program and selects audio and text language according to the menu setup. During the channel play back you can select another audio and text language and the system will remember your choice.

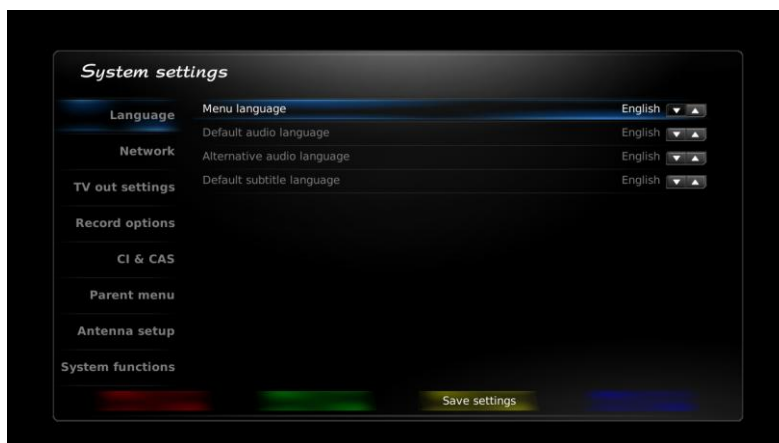


Fig. 32 Language

7.9.2. Record options

MENU>System settings>Record option you can change options for record functionality.

Continuous time shift function – “yes” means each channel changes after 5 sec system will start to record the video stream. Press left button to search recorded video, Press right button to return to real time.

Time shift max file size – you can select the max size of video stream data recorder in time shift mode.

Delete marked records older than – each time booting system checks the records data base and delete records with “played” status older than selected in this option. If you want to save records for long, you can change their status to “archived”. Press yellow button to confirm and save all the changed made in this menu.

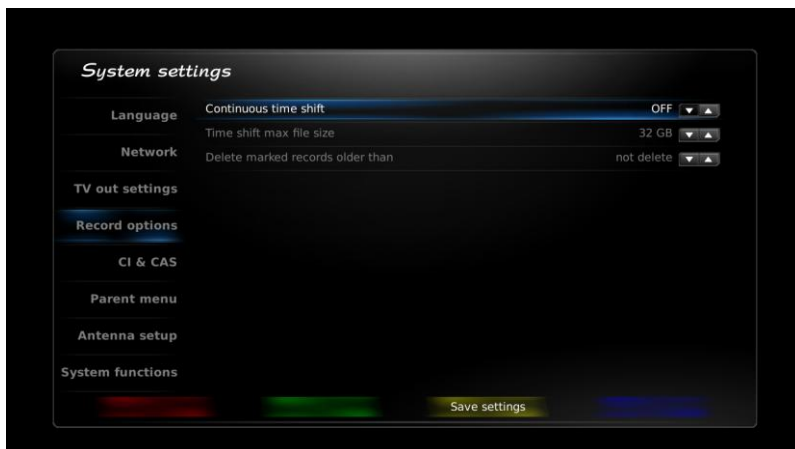


Fig. 33 Record options

7.9.3. CI & CAS

MENU>System settings>CI & CAS This menu gives you an access to CI module menu and DWCrypt conditional access system. CI menu is available only if CI module is attached. The structure of CI menu is generated by the attached module. DWCrypt menu is available only if a compatible smart card is inserted.

7.9.4. Parent menu

MENU>System settings>Parent menu allows you to change the password, to set an age limit so that any

program classed above that age by the broadcaster is restricted, and to turn on the menu lock. In order to change the parent menu settings, you must enter the password. Initial password is **0000**. When you enter the parent menu for the first time, you must change this password. Enter a new password consisting of 4 numbers, enter them again to confirm and press “apply”.

Do not forget your password. Otherwise, to unlock the menu, you will have to apply to the service companies for receiver software rewriting.

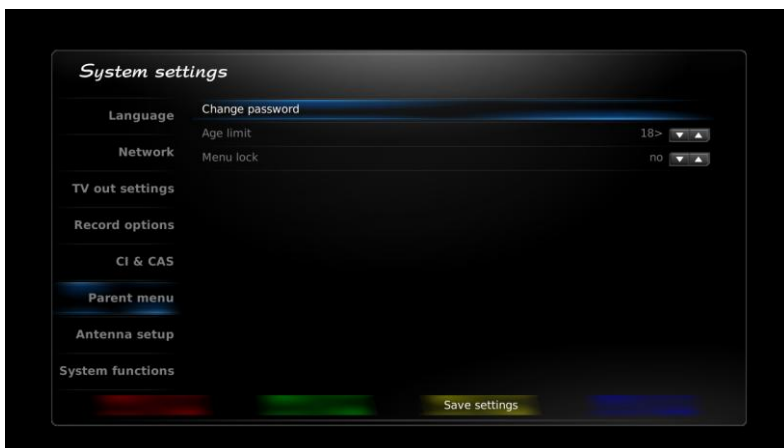


Fig. 34 Parent menu

Broadcasters usually provide information on age limits for each channel. **Child age** line allows you to set the child age for watching age-restricted channels. If the age set is less than the age specified by the channel broadcaster, the channel will be automatically locked. Every time you turn on this channel, the system requests to enter the password to unlock it. Programs search and defaults menus are automatically locked as well. This function also locks all menus which allow settings changes or the receiver options changes – channel search menu, system setting menu, favorite menu, channel manager menu. Enter the password to access.

7.9.5. System functions

Check SW update from USB

You can update you software and download the latest available version from www.skyter.tv. Create NXP folder on the USB flash drive. Save the file with updates on USB flash drive inside NXP folder. Attach it to system. Select this menu option and the system will scan USB flash drive and show the available software. Pls note, that any attempts to update the system with any unofficial software will cause No Warranty case!

Backup channel database

You can save and download you setting and channel base back into system.

We recommend you to save you channel database each time before the system software update. You will always restore you channel list and settings in case the system data base format changes during the update.

Standby mode

Standby mode. **Active** STBY means that CPU is permanently in load by OS(Operational System) and is capable for immediate operation, only tuners and peripherals are partially switched off. Active STBY provides less power saving but faster to wake up.

Passive STBY mode means that CPU is shut down and only standby controller is alive. Some time is needed to wake up the system and to load the OS(Operational System). In passive mode max power is saved (less 1Watt.) In case Stand-by mode is selected **passive** and you press **off** button on the remote control, the system switches on the active mode immediately. If no further action follow on the local keyboard or on the remote control within the next 10 sec, the system switches into passive mode and CPU shuts down. Quick wake up is possible within 10 sec active mode. If no signal follows, the system goes to Stan-by mode after the selected time.

System time

System time setting (correction) is provided automatically. You can select the option to “synchronize from the internet or DVB”.

In case the Internet is selected, the system boots and searches the ntp server. If the server is inaccessible, the system synchronizes the date and the time from the first selected DVB channel. The system continues checking ntp server every 10 sec, and as soon as the server is accessed the system synchronizes the date and the time from the internet again.

In case DVB option is selected, the system synchronizes the date and the time from the first selected DVB channel and then from the channel selected in the menu.

Time zone and Daylight saving time must be set correctly in the system Time window. It is recommended to select local programs. When all settings are entered, press **Apply**. The time is synchronized and the window is closed. The time shown by set-top-box is always accurate and is corrected in winter and summer periods. If you don't want to save time settings, press **Exit** button to leave menu.

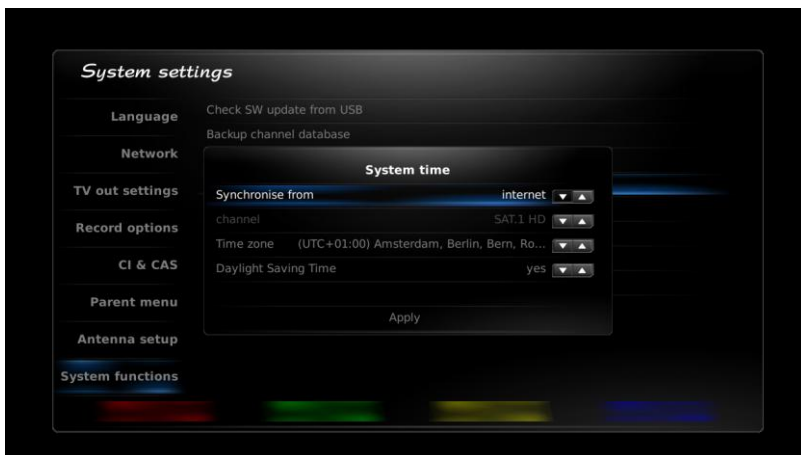


Fig. 35 Time.

Defaults

In case you have made too many settings in the receiver and it is difficult to restore some undesired settings or some wrong settings have appeared in your receiver, you can restore defaults. Select the line **Defaults** and press **OK**. The defaults will be restored and installation guide will appear on the TV screen.

System reboot

By select this option you can reboot system any time if needed.

Fan speed mode

You can select three options of fan speed. "Auto" means that fan speed depends on the system temperature.

Format HDD

HDD is factory formatte. If you change HDD, use this option to format it again.

Media server setup

Skyter media server can be found in your home network together with other connected media playback devices.

Select Media server enable as "yes". Now it is seen in your home network by your media playback equipment (PC or SmartTV). This allows you to play records and see live channels over network in the corresponding folders. Select Media server name option to change the name of your Skyter in the network.

8. Receiver Control

The receiver is controlled by the remote control and the front panel keys, see 5.5 Remote control and front panel keys **Fig1**. Press **STANDBY** button or power button on the front panel to turn the receiver on and off. When the receiver is on, light-emitting diode on the front plate of the receiver is off, and when it is off, the diode is red. The receiver can also be turned on by pressing any **1...9** buttons. If the receiver is turned on by pressing **STANDBY** button, the last active channel is displayed, and if it is turned on by pressing one of **1...9** buttons, the selected channel is displayed.

8.1. Channel switching

To turn on the desired channel enter the number of the channel assigned in the channel list pressing 0...9 buttons (7.5 Favorite manager, Ошибка! Источник ссылки не найден.), or press ▲ / ▼ buttons to switch the channels or use channel keys on front panel. while switching the channels, the infobar appears on the TV screen.

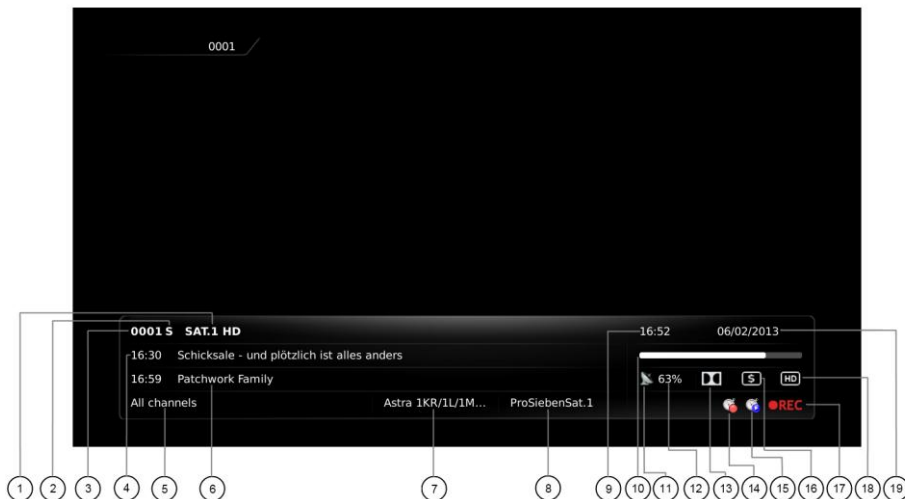


Fig. 36 Infobar

It contains the following information:

1. Name of the channel watched at the moment.
2. Type of channel: S-satellite, T-terrestrial.
3. Number of the channel watched at the moment.
4. A current broadcasting program name (if a broadcaster has provided such information).
5. Name of the list which is on, see 7.5 Favorite manager, Ошибка! Источник ссылки не найден..
6. Name of the next broadcasting (if a broadcaster has provided such information).
7. Transmitter's name
8. Provider's name.
9. Current time
10. Progress bar: the current program length and position.
11. DVB signal icon
12. Signal power.
13. Dolby audio indicator.
14. Schedule recording running indicator
15. Time shift mode indicator
16. Pay TV channel indicator.
17. Immediate recording running indicator
18. HD content indicator.
19. Current time and date

Press **INFO** button to call this info bar, and double press **EXIT** button to close it. Double press the **INFO** button to see the detailed information on the program broadcasted . This information requires comprehensive description and is necessary for a broadcaster, when the problems of video or audio quality occur . That's why this manual doesn't include its detailed description.

8.2. Volume control

Use - / + buttons to control channel volume. The indicator shows the volume set level and appears on the TV screen. Press **MUTE** button to turn the volume off,if necessary. "Volume off logo" appears on the TV screen. Double press **MUTE** button to turn the volume on again.

8.3. Time shift

Press **FREEZE** button to enter time shift mode. Picture is paused at that moment, the time shift/pause icon appears on the screen. Press **FREEZE** again and video is playing again with the time delay. Time shift/playback icon will appear on the screen. To see the time delay length press **INFO**. The search line appears on the screen. Use ◀ / ▶ keys to move inside the time shifted video.

8.4. Selection of audio track and subtitles

You may quickly select the audio track (in the desired language) by pressing **LANG (LANGUAGE)** button. The window with all available languages will appear on the screen. Use ▲ / ▼ buttons to select and press **OK** button to confirm.

If there is subtitle information, you may turn it on, turn it off or select the language by using **SUB (SUBTITLE)** button. This selection is the same to the language selection.

8.5. Television, radio

Channel mode such as television, radio or both television and radio may be selected by double pressing **TV/R** button. The following notes appear on the TV screen: **TV, Radio**. They indicate the type of channels in the the channel list and the infobar.

8.6. Recordings

Press **TIMER** button to enter directly into the recordings schedule menu.

8.7. Channel list

Press **OK** button to enter directly into the channel list., **Ошибка! Источник ссылки не найден.** Press blue button to select active favorite channel list instead of all channels. Press yellow button to select the channels of a selected broadcaster. Use green button to filter by Transmitters. Red button activates immediate record. The opened pop-up window allows you to monitor the end time of the program to be recorded. To start the immediate record on play back screen(with no other menu opened), press **REC** button on medialyer section keys of the remote control. To stop the immediate record, press stop button on media player section keys on the remote control. Right part of the window shows and follows the selected program information available.

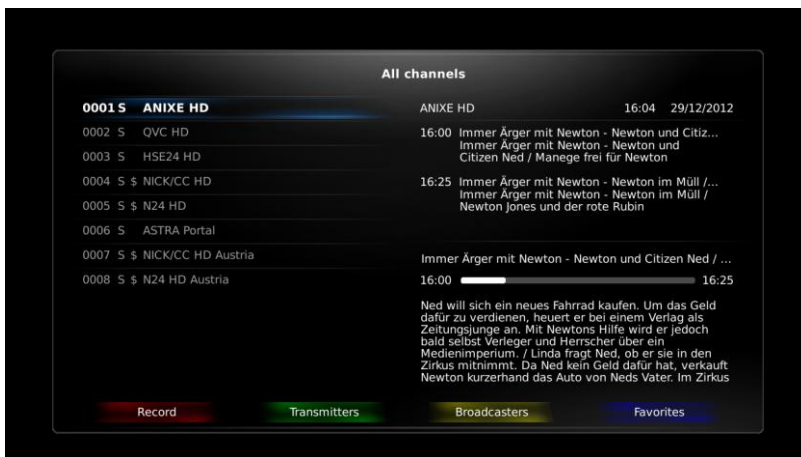


Fig. 37 Channel list

If you have single LNB connection and recording schedule run at the same time you can switch channel only on the same satellite/polarization/band. In this case inaccessible channels will be dark in the channel list. Press Info button and a pop-up window appears showing the extended program guide information.

9. Technical Specifications

Tuner & Demodulator DVB-T:

- Frequency Range: 51 MHz - 858 MHz
- Input Signal Level 45 dB μ V – 75 dB μ V
- Demodulation 16/32/64/128/256 QAM

DUAL Tuner & Demodulator DVB-S/S2:

- Frequency Range: 950 MHz - 2150 MHz
- Demodulation QPSK, 8PSK
- DiSEQ control and 22Khz

Video Decoding:

- MPEG-2 MP@ML ISO/IEC 13818-2
- High Profile level 4.1 H.264 @ 30fps
- Video Resolution 720x576 PAL, 720p, 1080i, 1080p

- Aspect Ratio 4:3; 16:9

Audio Decoding:

- MPEG layer II,III
- Dolby Digital plus

Power supply:

- 176-264VAC $\pm$ 10 %; 50Hz internal
- Power Consumption, max. 50 W
- stby. <1W (passive mode)

Input / Output Connectors:

- SCART TV
- HDMI
- IEC 60169-2 (Female) RF Input
- IEC 60169-2 (Male) RF Output
- dual F LNB A&B
- RJ45

Physical Specifications:

- Size (WxDxH): 262 x 215 x 52 mm
- Weight (Net) 1400 g

Environment:

- Operating Temperature 0°C to +45°C
- Storage Temperature -10°C to +70°C
- Relative humidity, max. 95 %