

RED

OPTICUM®

AX 300 VFD

DIGITAL HD SATELLITE RECEIVER

DVB-S2®



USER MANUAL

www.opticum-gmbh.de

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*PVR / Record / Timeshift

This feature is available depending on the model. Check which version you have:
with PVR = with recording / without PVR = without recording

1.1 SAFETY INSTRUCTIONS

This device complies with international safety standards.

- Before commissioning, please read the safety instructions carefully and keep the operating instructions within easy reach.
- Observe the warnings on the device and in the operating instructions.
- Never allow children to use electrical appliances unattended.

Ambient conditions: Protect the device from moisture and heat and do not expose it to direct sunlight. Open fire sources, such as burning candles, must not be placed on the device. Avoid placing the receiver in areas with insufficient ventilation. Keep a clearance of at least 10 cm above and at least 5 cm from the side of the device, so that the resulting

heat can be dissipated without hindrance. Do not place objects filled with liquids, eg. As vases, on the device. Avoid the penetration of foreign bodies and liquids into the device. Do not expose the device to dripping or splashing water.

Power Supply: Only connect the receiver to the power supply after you have completely wired it. Avoid overloading the power outlet, power supply lines or a power supply. This could lead to fire or electric shock. Disconnect from the mains during prolonged absence: If the unit is left unattended for a longer period of time (eg holidays / holidays), you should disconnect it completely from the mains.

Lightning protection: To protect the receiver, switch it off during thunderstorms and unplug the power plug and the antenna cable. This protects your receiver from over-voltage damage. Connecting peripheral devices: Disconnect the device from the mains before connecting or disconnecting the cables to antennas, TV sets and other devices.

Installation: The rubber feet can cause color changes in connection with furniture surfaces. If necessary, place the device on a suitable surface.

Faults: In case of damage to the mains cable or the device, immediately unplug the mains plug from the mains socket. Never try to open or repair the device yourself.

Batteries: Children may take batteries in their mouths and swallow them. Leaking batteries can damage the remote control. If the receiver is not used for a long time, remove the batteries from the remote control.

Use only original parts and accessories: Use only original parts or original accessories from your dealer to prevent damage to your device or injury. Failure to observe this warning will void the device warranty. Every intervention and every repair must only be carried out by a qualified specialist!

Intended use: The digital receiver is used to receive digital TV or radio programs in the private sector. It is intended exclusively for the stated purpose and may only be used for this purpose. This includes the observance of all information in this manual, especially the safety instructions. Any other use is considered improper and may lead to property damage, possibly even personal injury. The manufacturer assumes no responsibility for damage or injury. This also means that every person who assembles, connects, operates, cleans or disposes of this receiver has read the complete user manual of the device in order to ensure its intended use. Keep the manual for this purpose.

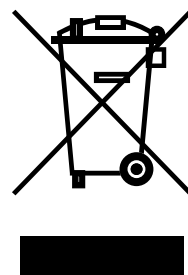
1.2 DISPOSAL

Information on disposal by the user in the European Union:

Used electrical and electronic equipment must be disposed of separately to ensure environmentally sound recycling. These products must be returned to designated collection points. Disposal is free for the end user! Please inquire at your local authority where you can dispose of these products for proper disposal. If your product is equipped with batteries, you must remove them before disposing the product and dispose of them separately.

Information on disposal by the user outside the European Union:

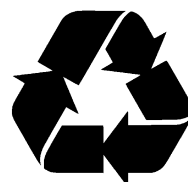
If you wish to dispose of this product, please contact your local authorities for information on environmentally sound disposal in your country. Submitting this product to a competent agency will help you to dispose of the product in an environmentally sound manner. In doing so, you personally make a not inconsiderable contribution to the protection of the environment and human health.



1.3 ENVIRONMENTALISM

Packaging and packaging aids that are no longer needed are recyclable and should always be recycled.

Used batteries are not to be disposed in household waste. These must be handed in at a collection point. Information about the collection points can be obtained from your local municipality.



1.4 BATTERY NOTE / BATTERY ORDINANCE

Legislators have clearly regulated the disposal of batteries. Batteries must be returned free of charge by the dealer or by municipal collection points in normal household quantities. Batteries may no longer be disposed of with household waste. Take advantage of the free return options! Protect your environment. Return used batteries.



Pb



Cd



Hg

Pb = battery contains lead

Cd = battery contains cadmium

Hg = battery contains mercury

2.1 FRONT PANEL / REAR PANEL / CONNECTIONS



1. POWER-LED

Power indicator (LED)

2. DISPLAY

VFD Display for Program name and clock

3. IR

Infrared LED for remote control

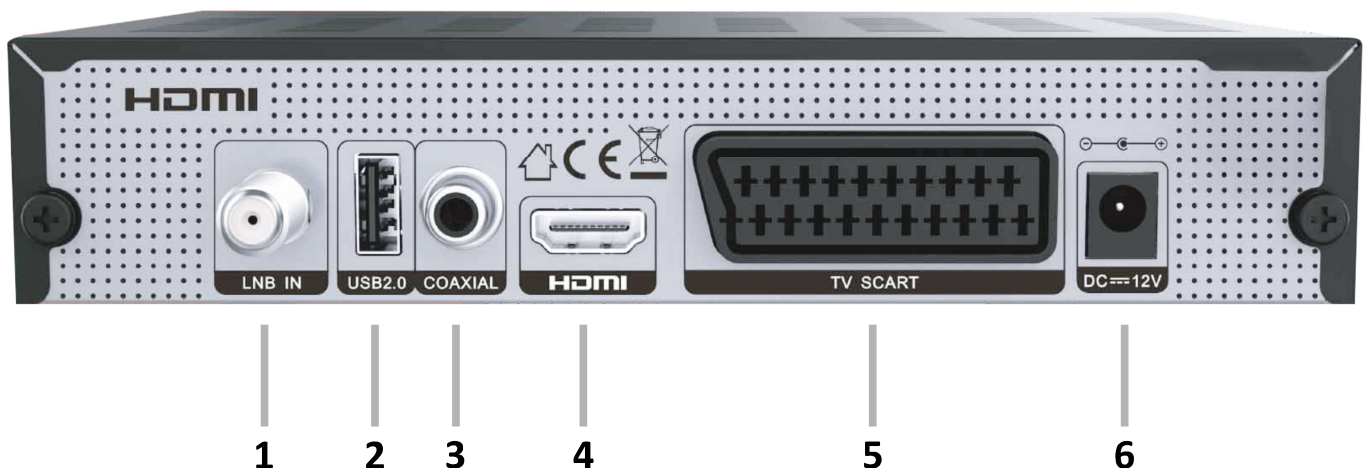
4. ▲ / ▼

Switch Programms down and up

5. POWER BUTTON

Switch between operating mode / standby

3.1 REAR PANEL / CONNECTIONS



1. LNB IN

Antenna Cable input (from satellite antenna)

2. USB2.0

USB2.0 for media playback or recording function* of TV programs to USB stick or external hard disk

3. COAXIAL

Digital Audio output

4. HDMI

Digital video output / HDMI connection

5. TV SCART

Video output / Scart connection

6. DC 12V

External Power supply (12 V DC)

*) This function is only active on PVR enabled devices

3.1 REMOTE CONTROL / BUTTONS



(GS-RCU-005)



POWER ON / STANDBY (STB)



POWER : ON/OFF (for TV)



Switch between TV & AV (for TV)



Volume down (for TV)



Volume up (for TV)



Program button (for setting)



Track/File return (Media function)



Track/File forward (Media function)



Fast return (Media function)



Fast forward (Media function)



Pause / Play / Timeshift*



Stop / USB recording directory (PVRs)



Start Record on USB*



Enlarge picture (1-16 times)



Set audio



Set language for subtitle



Videotext on / off



Shows program information



Show main menu or to return to a previous menu zu einem vorherigen Menü



Exit current menu



Shows the Electronic program guide



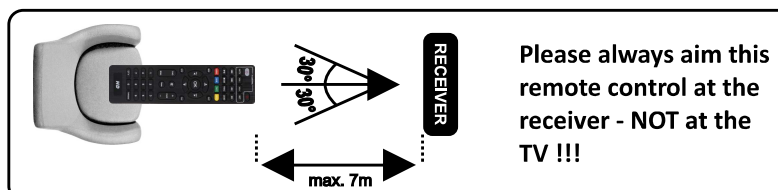
Shows favorites list

*) This function is only active on PVR enabled devices

3.1 REMOTE CONTROL / BUTTONS



- ▲ / ▼ Menu control up / down
- CH+ / CH- Program up / down
- ◀ / ▶ Menu control to the left / right
- V- / V+ Volume control quieter / louder
- OK** OK: Confirmation (for example, in menu)
LIST: Show program list
- Mute audio
- DISPLAY** Setting the resolution
- FIND** Find program function
- RECALL** Switched between last and current program
- +** **PAGE +:** Page forward in menu
- PAGE -:** Page back in menu
- 1 2 3 4 5 6 7 8 9 0** Number keypad (10-key keyboard) for program change (direct program selection) or numerical input in menu (input of parameters, frequency, ...)
- DTV** Shows the Satellite list
- TV/RADIO** Switch between TV / Radio program



(GS-RCU-005)

5.1 FIRST INSTALLATION

The **FIRST INSTALLATION** starts with the first connection of your device.

Here you select your **menu language**. To do this, use the ▲ / ▼ buttons to navigate to the different languages and confirm this with the **OK** button (the default is 2 DEUTSCH).



After confirming the menu language, the receiver loads the program list preinstalled by the manufacturer.

6.1 INSTALLATION (ANTENNA SETTINGS / PROGRAM SEARCH)

To configure your receiver to the correct antenna setting and start a program search, press the button **MENU** on your remote control and navigate with the buttons ▲ / ▼ to the Menu **Installation**.

Confirm the menu item by pressing the button **OK**. Now navigate with the buttons ▲ / ▼ to the menu item **Antenna Settings**. Confirm the menu item by pressing the button **OK**.

You can now scroll up and down with the buttons ▲ / ▼ through the following menu:



- Satellite** Select with the buttons ◀ / ▶ your Satellite
- Transponder** Select with the buttons ◀ / ▶ your Transponder on which Transponder you want to search your programs
- LNB Type** Select with the buttons ◀ / ▶ your LNB-Type: Universal, 9750/10750, 5150/5750, 5750/5150, Unicable A-D, SCD2 A-H, 05150-11475, User Single, User Dual
- LNB Power** Select with the buttons ◀ / ▶ your LNB Power: 13V/18V , 13V, 18V, 0V
- 22 KHz** Select with the buttons ◀ / ▶ the 22 KHz Mode: Auto, On, Off.
- DiSEqC1.0** Select with the buttons ◀ / ▶ your DiSEqC settings if you use multiple LNBs and a DiSEqC 1.0 switch: None, LNB1-4, Burst A/B, Autom.
- DiSEqC1.1** Select with the buttons ◀ / ▶ your DiSEqC settings if you use multiple LNBs and a DiSEqC 1.1 switch: None, LNB1-16.
- Motor** If using an external sat motor/rotor, select your settings with the buttons ◀ / ▶ : DiSEqC 1.2, USALS, None
- Scan Mode** Select with the buttons ◀ / ▶ your Search Mode, What programs you want to search: All Channels, FTA Channels, Scramble Channels, HGD Channeld, SD Channels, TV Channels, Raddio Channels, FTA TV Channels
- Start Search** Select with the buttons ◀ / ▶ what Search Mode you want to start: Satellite Search, Multi-SAT Search, Blind Search, TP Search, Multi-TP Search

Press the button **OK** for starting the program search.

6.2 INSTALLATION (ANTENNA SETTING / SCR / dCSS)

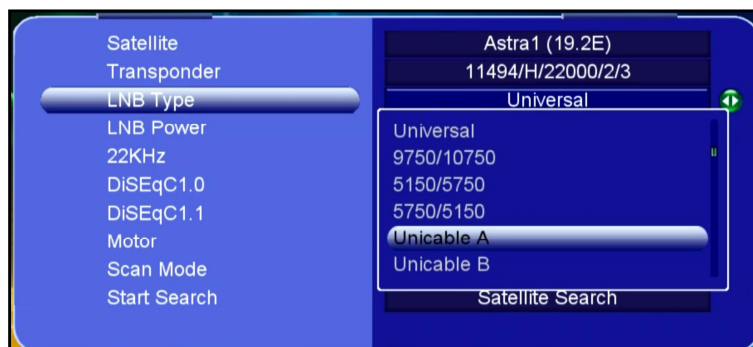
In a **SCR / dCSS one-cable-solution-system**, you must assign your receiver a corresponding **Userband frequency** (Center Frequency) and the **IF program number** (IF Channel).

For this, you should know these values before installation. Ask the installer of your antenna system if you do not know these parameters.

To program these parameters, proceed as follows:

Press the button **Menu** on your remote control and navigate with the buttons **▲ / ▼** to **Installation**. Confirm your selection by pressing the **OK** button. Navigate now with the buttons **▲ / ▼** to **Antenna Settings**. Confirm your selection by pressing the **OK** button.

Use the **▲ / ▼** buttons to go to **LNB Type** and confirm by pressing the **OK** button. A new selection menu opens.



Use the **▲ / ▼** buttons to select your **LNB Typ** and confirm your selection by pressing the **OK** button. You have the following options:

| | |
|---------------------|-----------------|
| Unicable A-D | 1-8 IF Channel |
| SCD2 A-H | 1-32 IF Channel |

Navigate with the buttons **▲ / ▼** to **Center Freq**. With the buttons **◀ / ▶** you can select the **Center Freq** (userband frequency). After you select the right Center Freq navigate with the buttons **▲ / ▼** to **IF Channel**. With the buttons **◀ / ▶** you can select the right IF Channel.



- Scan Mode** Navigate with the buttons ▲ / ▼ to **Scan Mode**. Use the buttons ◀ / ▶ to select your scan mode, what program you want to search:
All Channels, FTA Channels, Scramble Channels, HD Channels, SD Channels, TV Channels, Radio Channels, FTA TV Channels
- Start Search** Navigate with the buttons ▲ / ▼ to **Start Search**. Use the buttons ◀ / ▶ to select your search mode:
Satellite Search, Multi-Sat Search, Blind Search, TP Search, Multi-TP Search
- Press the **OK** button on your remote control to start the search.

Important:

**When starting a search, ALL previous programs will be deleted.
All newly found programs must be re-sorted.**

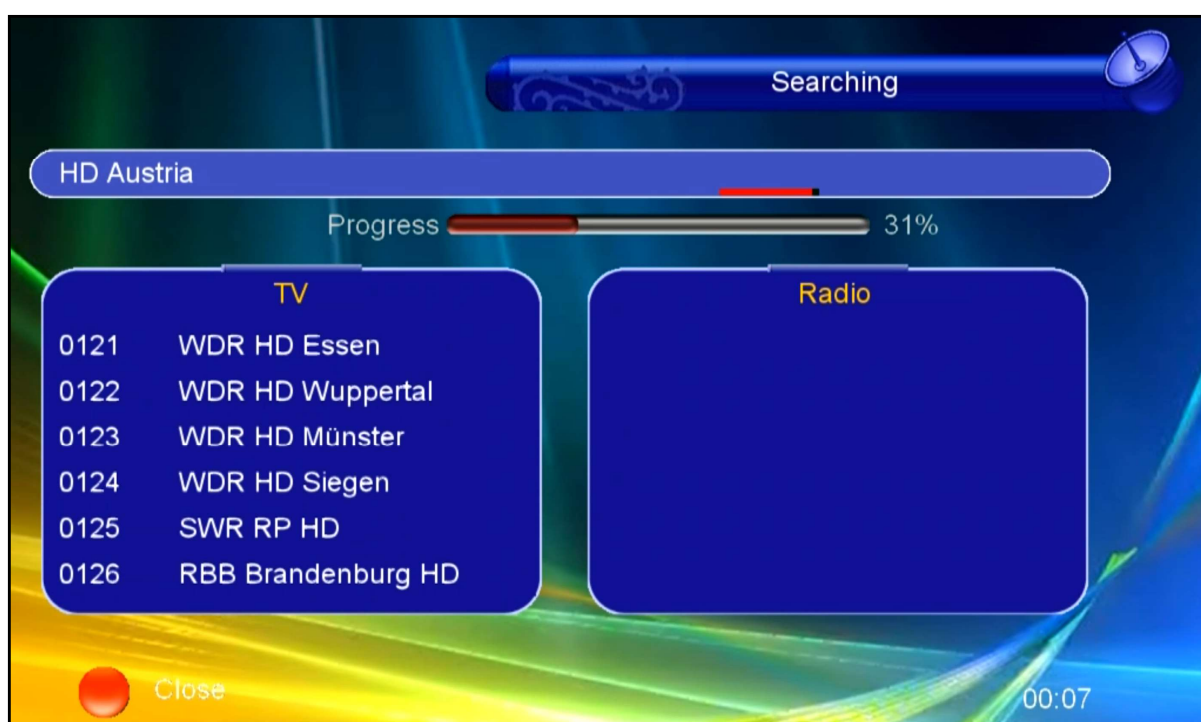
6.3 INSTALLATION (FAST SCAN)

To start a **Fast Scan** - for providers - press the button Menu on your remote control and navigate with the buttons ▲ / ▼ to **Installation**. Confirm your selection by pressing the **OK** button. Now navigate with the buttons ▲ / ▼ to **Fast Scan**. Confirm your selection by pressing the **OK** button.

Here you can set the following parameters (see next page).

| | |
|--------------|-------------------------|
| Provider | HD Austria |
| Satellite | Astra1 (19.2E) |
| Transponder | [133] 12515/H/22000/5/6 |
| CHS Renumber | On |
| Scan Mode | Delete |
| Start Search | OK |

- Provider** Navigate with the buttons ▲ / ▼ to **Provider**. Use the buttons ◀ / ▶ to select your Provider: **nC+ HD, Polsat, UPC Hungary, Magio Sat, Digi SK, Pantelino, etc....**
- Satellite** As soon as you have selected your **Provider**, the corresponding **Satellite** is automatically entered on which your chosen **Provider** sends.
- Transponder** As soon as you have selected your **Provider**, the corresponding **Transponder** is automatically entered on which your chosen **provider** sends.
- CHS Renumber** Navigate with the buttons ▲ / ▼ to **CHS Renumber**. Use the buttons ◀ / ▶ to select „On“ / „Off“.
- Scan Mode** Navigate with the buttons ▲ / ▼ to **Scan Mode**. Use the buttons ◀ / ▶ to select :
- Delete** All stations will be deleted by this provider first and then saved again.
 - Favor** All stations are stored by this provider under a favorite group (News, Movies, etc.)
 - Add** All stations are added by this provider at the end of the program list.
- Start Search** Navigate with the buttons ▲ / ▼ to **Start Search**. Press the **OK** button on your remote control to start the search



6.4 INSTALLATION / FACTORY DEFAULT / PIN

To reset your receiver to the factory settings, press the button **MENU** on your remote control and use the buttons **▲ / ▼** to navigate to **Installation**. Confirm your selection by pressing the **OK** button. Now navigate with the buttons **▲ / ▼** to **Factory Default**. Confirm your selection by pressing the **OK** button. Use the **number keypad** of your remote control (**0-9**) to enter the PIN (password) (default password is 0000) and confirm it with the button **OK**. The password can be changed at any time in menu under **Parental Control**.

You can select the following deletion options:

| | |
|------------------------------|--|
| ALL* | All programs and settings will be deleted |
| Channels Only | Only the program list (TV & Radio) will be deleted |
| Radio Channels Only | Only the radio program list will be deleted |
| Scramble Channel Only | Only encrypted programs will be deleted |
| TP Channel Only | <p>Select here which Transponders and the Programs stored with them should be deleted. Use the ▲ / ▼ buttons to navigate to the Transponder to be deleted and confirm by pressing the OK button. The transponder is marked with a tick ✓.</p> <p>Multiple selection is possible. Exit the menu with the EXIT button. You will be asked if you really want to continue. Use the ► button to change from NO to YES and confirm by pressing the OK button.</p> |
| SAT Channel Only | <p>Select here which Satellite and the Transponder stored with them should be deleted. Use the ▲ / ▼ buttons to navigate to the Satellite to be deleted and confirm by pressing the OK button. The transponder is marked with a tick ✓.</p> <p>Multiple selection is possible. Exit the menu with the EXIT button. You will be asked if you really want to continue. Use the ► button to change from NO to YES and confirm by pressing the OK button.</p> |

ATTENTION *

If you select **ALL**, all settings, satellites, and programs will be deleted.
The receiver restarts and starts with the **FIRST INSTALLATION**

6.5 INSTALLATION (USALS SETUP / MOTOR)

If you use this receiver with an outdoor system, that has a USAL System (Universal Satellite Automatic Location System), you must make the appropriate settings in the **USALS Setup** menu. To do this, press the Menu button on your remote control and use the **▲ / ▼** buttons to navigate to menu **Installation**. Confirm the menu item by pressing the **OK** button. Now navigate with the buttons **▲ / ▼** to the menu **USALS Setup**.

For the USALS to work properly, you must enter the coordinates (**latitude** and **longitude**) of your location so that the system can calculate all the engine positions for the receivable satellites (for more information, please refer to the user manual of your satellite motor).

To navigate, use the buttons **▲ / ▼ / ◀ / ▶** and select your value. Enter the latitude-/longitude angle directly using the numbers on your remote control.

By pressing the **RED** button you can select presets (**Setup by Country**).

To save your settings and exit the menu press the EXIT button.



7.1 MANAGE PROGRAMS

To manage the programs in the various program list categories, press the button **MENU** on your remote control. Use the **▲ / ▼** buttons to navigate to the menu item **Edit Channels**. Confirm your selection by pressing the **OK** button. Now you have the possibility to manage different program lists:

TV Channels
Radio Channels
TV Favorites

Radio Favorites
Sort Channels
User Channel List

Select the program list category you want to edit by using the ▲ / ▼ buttons and confirm it with the **OK** button on your remote control.



| | |
|--------------------------|---|
| TV Channels | Here you can edit the Program list of TV Channels |
| Radio Channels | Here you can edit the Program list of Radio Channels |
| TV Favorites | Here you can edit the favorites list of TV Channels |
| Radio Favorites | Here you can edit the favorites list of Radio Channels |
| Sort Channels | Here you can sort ALL programs at once according to the following sorting parameters: Alphabet, Transponder, FTAtCAS, Default, Favor, FTAtCAS+Alphabet, Provider, Service ID |
| User Channel List | Here you can save or reload the preset program list |

7.2 MANAGE PROGRAMS (MOVE)

To change the program position of a program in your program list, press the **Menu** button on your remote control. Use the ▲ / ▼ buttons to navigate to menu item **Edit Channels**. Confirm your selection by pressing the **OK** button. Now select your **program list** with the ▲ / ▼ buttons you want to change and confirm your selection by pressing the **OK** button.

The following example shows you how to change a program position in the program list category "TV programs":

Press the **RED** button on your remote control to select the **move mode**.

- 1.) Use the buttons ▲ / ▼ to select program you want to move.
- 2.) Confirm your selection by pressing the **OK** button.
- 3.) The program is marked with "►►" in front of the program name.
- 4.) Now move your program with ▲ / ▼ to the new program position
- 5.) Confirm your selection by pressing the **OK** button.
- 6.) The program has now been moved to the new program position.
- 7.) If you want to move further programs, proceed again as described under point 1.



If you want to move several programs at once:

- 1.) Use the ▲ / ▼ buttons to navigate to "one" of the programs you want to move.
- 2.) Press the **RED** Button on your remote control (**MOVE**)
- 3.) Now press the **BLUE** button
- 3.) The program is now marked with ◀ behind the name of the program.
- 4.) Now use the ▲ / ▼ buttons to navigate to other programs that you also want to move and marker them by pressing the **BLUE** button.

-
- 5.) If you now want to move ALL marked programs to one program position, use the buttons ▲ / ▼ to navigate to the program position where **ALL** marked programs are to be saved one after the other and press the **OK** button.

Exit the menu by pressing the **EXIT** button several times.

7.3 MANAGE PROGRAMS (DELETE)

To delete programs in your program list, press the **Menu** button on your remote control. Use the ▲ / ▼ buttons to navigate to menu item **Edit Channels**. Confirm your selection by pressing the **OK** button. Now select your **program list** with the ▲ / ▼ buttons you want to change and confirm your selection by pressing the **OK** button.

The following example shows you how to change a program position in the program list category "TV programs":

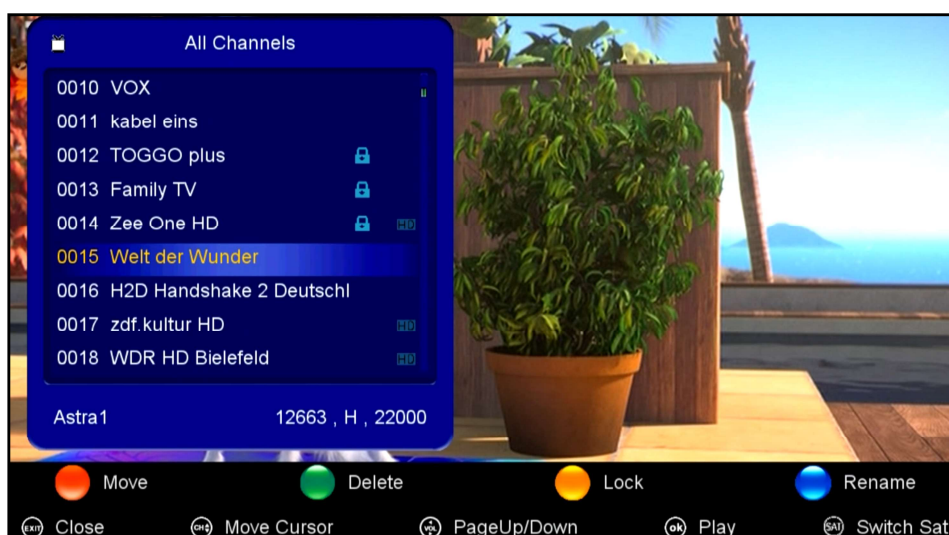
- 1.) Use the buttons ▲ / ▼ to select program you want to delete.
- 2.) Confirm your selection by pressing the **GREEN** button. The program is now marked with "X" in front of the program name.
- 3.) If you want to delete more programs, use the buttons ▲ / ▼ to go to the next program - you want to delete - and press the **GREEN** button to marker also next program to delete.
- 4.) If you now want to **delete ALL marked programs** at once, press the **EXIT** button on your remote control.
- 5.) You will be asked: "**Do you really want to delete?**"
- 6.) Use the ► button to select from "**NO**" to "**YES**" and confirm by pressing the **OK** button.
- 7.) All programs you have previously selected have now been deleted in the program list.
- 8.) Exit the menu by pressing the **EXIT** button several times.

7.4 MANAGE PROGRAMS (LOCK)

To lock programs in your program list, press the **Menu** button on your remote control. Use the ▲ / ▼ buttons to navigate to menu item **Edit Channels**. Confirm your selection by pressing the **OK** button. Now select your **program list** with the ▲ / ▼ buttons you want to change and confirm your selection by pressing the **OK** button.

The following example shows you how to change a program position in the program list category "TV programs":

- 1.) Use the buttons ▲ / ▼ to select program you want to lock.
- 2.) Confirm your selection by pressing the **YELLOW** button. The program is now marked with a „key lock symbol“ behind the program name.



- 3.) If you want to lock more programs, use the buttons ▲ / ▼ to go to the next program - you want to lock - and press the **YELLOW** button to marker also next program to lock.
- 4.) If you now want to **lock ALL marked programs** at once, press the **EXIT** button on your remote control.
- 5.) All programs you have previously selected have now been locked in the program list. Exit the menu by pressing the **EXIT** button several times.

Important:

The programs will not be actively locked until you have activated "Parental Control". Refer to "8.3 SETTINGS (PARENTAL CONTROL/PASSWORD CHANGE)" in this user manual (Page 24).

7.5 MANAGE PROGRAMS (RENAME)

To rename program names in your program list, press the **Menu** button on your remote control. Use the **▲ / ▼** buttons to navigate to menu item **Edit Channels**. Confirm your selection by pressing the **OK** button. Now select your **program list** with the **▲ / ▼** buttons you want to change and confirm your selection by pressing the **OK** button.

The following example shows you how to change a program position in the program list category "TV programs":

- 1.) Use the buttons **▲ / ▼** to select program you want to rename.
- 2.) Press the BLUE button on your remote control to rename the selected program.

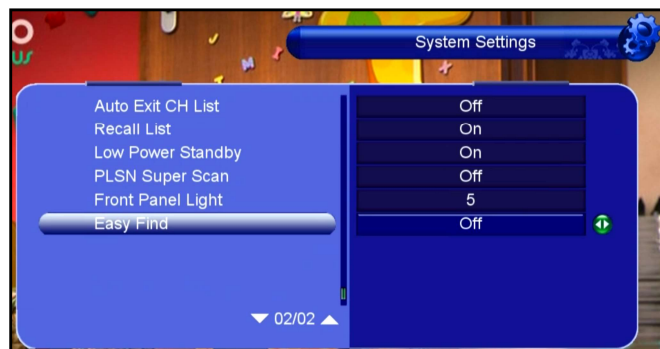


The following buttons are now available to use:

| | |
|-------------------------|--|
| RED button | Switch between the standard or extended character set |
| Green button | Switch between capital letter and lowercase letters |
| YELLOW button | Delete the last entry |
| BLUE button | Confirm the entry and exit the menu |
| Numeric keyboard | You can enter directly numbers via your remote control. |
| ▲ / ▼ / ◀ / ▶ | Navigate to a letter / character and confirm with the button OK . |

8.1 SETTINGS (SYSTEM SETTINGS)

Press the button **Menu** on your remote control. Use the ▲ / ▼ buttons to navigate to menu item **Settings**. Confirm your selection by pressing the **OK** button. Use the ▲ / ▼ buttons to navigate to menu item **System Settings**. Confirm your selection by pressing the **OK** button. With the buttons ▲ / ▼ you can now select the following menu items:



Menu Language

Use the buttons ◀ / ▶ to select your Menu language

Audio 1

Use the buttons ◀ / ▶ to select your first Audio language

Audio 2

Use the buttons ◀ / ▶ to select your second Audio language

Subtitle Language

Use the buttons ◀ / ▶ to select your Subtitle language

Subtitle Control

Use the buttons ◀ / ▶ if you want to switch „on“ or „off“ your Subtitle

EPG Language

Use the buttons ◀ / ▶ to select your EPG language (for Program Guide)

TXT Language

Use the buttons ◀ / ▶ to select your Teletext / Videotext language

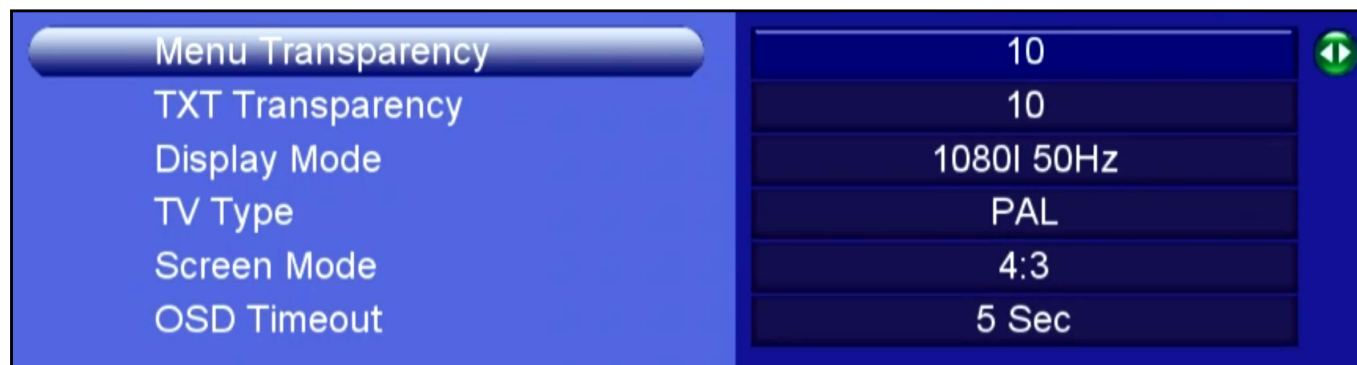
Digital Audio

Use the ◀ / ▶ buttons to select the digital audio output format for the audio device. For example, select "**RAW**" (uncompressed audio) for 5.1-channel surround sound speakers. Select "**PCM**" if your audio amplifier does not support Dolby Digital.

| | |
|------------------------------------|---|
| Auto Channel Selection | Use the RECALL button to switch between the currently viewed program and the previously viewed program. Important: For this, the function „Recall List“ MUST be set to " OFF ". |
| Auto Exit CH List | If you have selected " On ", you switch directly to the program in the program list when you press the OK button. If you have selected " Off ", ONLY switch the program list to the program when you press the OK button. To leave the program list, press the OK button again. |
| Recall List | If you have selected " On ", the last viewed program will be displayed when the RECALL button is pressed. If you have selected " Off ", use the RECALL button to switch between the current and the last watched program. |
| Low Power Standby | If you have selected " On ", the receiver switches to " Deep standby " when switched off. The receiver boot completely new when switched on (it takes longer time to switch on the receiver again). If you have selected " Off ", the receiver will switch to " normal standby " when switched off. Teceiver boot faster when you switch on the receiver. |
| PLNS Super Scan | If you have selected " On ", the receiver also finds weaker programs during the program search " BLIND SCAN ". When " Off ", the station search is performed normally. |
| Front Panel Light Easy Find | Here you can adjust the brightness of the front display. If you have an Easyfind antenna or an Easyfind LNB, activate the Easyfind function by selecting " On " to align your antenna. As soon as the Easyfind function is activated, the LNB receives corresponding signals and indicates the signal strength by means of the LED on the LNB. To disable this feature, select " Off ". |

8.2 SETTINGS (OSD SETUP)

Press the button **Menu** on your remote control. Use the ▲ / ▼ buttons to navigate to menu item **Settings**. Confirm your selection by pressing the **OK** button. Use the ▲ / ▼ buttons to navigate to menu item **OSD Setup**. Confirm your selection by pressing the **OK** button. With the buttons ▲ / ▼ you can now select the following menu items:



Menü Transparency Use buttons ◀ / ▶ to select your Menü Transparency

TXT Transparency Use buttons ◀ / ▶ to select your TXT Transparency

Display Mode Use buttons ◀ / ▶ to select your screen resolution:

- 1 576I 50Hz 4 1080I 50Hz
- 2 576P 50Hz 5 1080P 25 Hz
- 3 720P 50 Hz 6 1080P 50Hz

TV Type Use the buttons ◀ / ▶ to select your TV Typ
(PAL / NTSC / Autom.)

Screen Mode Use the buttons ◀ / ▶ to select your Screen Mode:



4:3 Letter Box



4:3 Pan Scan

4:3 Letter Box: Select this item when connecting a TV with 4: 3 aspect ratio. A wide screen is displayed with black bars at the top and bottom of the screen.

4:3 Pan & Scan: Select this item when connecting a TV with 4: 3 aspect ratio. The widescreen automatically displays full screen with cropped margins.

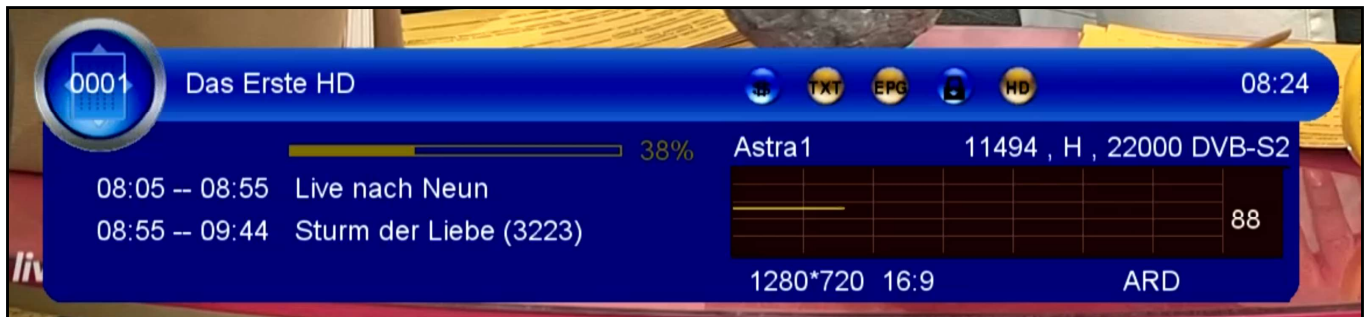


16:9

16:9: Select this option when you connect a widescreen TV or a TV with widescreen function.

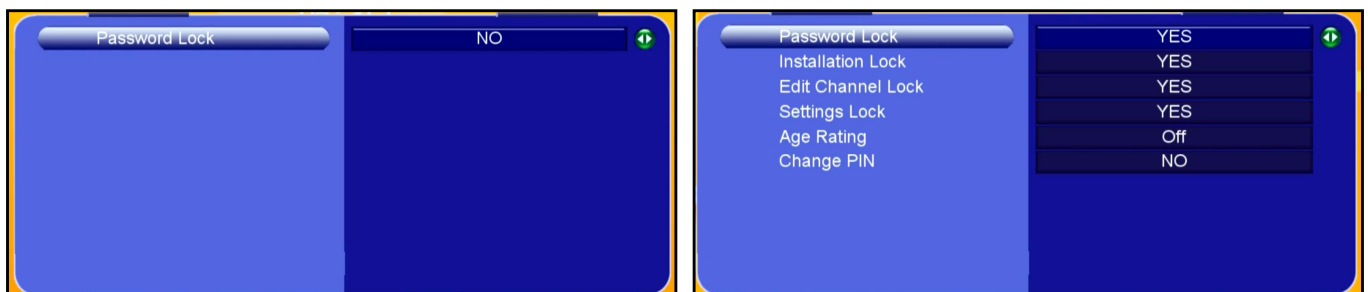
OSD Timeout

Use the ◀ / ▶ buttons to select how long the OSD (On Screen Display) should be displayed (for example, when switching programs).



8.3 SETTINGS (PARENTAL CONTROL / PASSWORD)

Press the button **Menu** on your remote control. Use the ▲ / ▼ buttons to navigate to menu item **Settings**. Confirm your selection by pressing the **OK** button. Use the ▲ / ▼ buttons to navigate to menu item **Parental Control**. Confirm your selection by pressing the **OK** button. With the buttons ▲ / ▼ you can now select the following menu items:



Password Lock

Use the ◀ / ▶ buttons to activate ("YES") or deactivate ("NO") the password lock or parental control.

| | |
|--------------------------|---|
| Installation Lock | Use the ◀ / ▶ buttons to choose between "YES / NO" . If you have selected "Yes" , you must enter the PIN to access the menu "Installation" . |
| Edit Channel Lock | Use the ◀ / ▶ buttons to choose between "YES / NO" . If you have selected "Yes" , you must enter the PIN to access the menu "Edit Channel" . |
| Settings Lock | Use the ◀ / ▶ buttons to choose between "YES / NO" . If you have selected "Yes" , you must enter the PIN to access the menu "Settings" . |
| Age Rating | Use the buttons ◀ / ▶ to select the age limit at which the shown programs are to be automatically blocked, as long as the sender sends a corresponding FSK (voluntary self-control of the film industry). This depends from the TV program. |
| Change Pin | The factory PIN code is: 0000. If you want to change the PIN code, use the ◀ / ▶ buttons to select from "NO" to "YES" . Now you have the opportunity to assign a new PIN. Use the number keypad of your remote control to enter your new PIN code and repeat it in the next line (Verify PIN). The new PIN code is now valid and stored. |

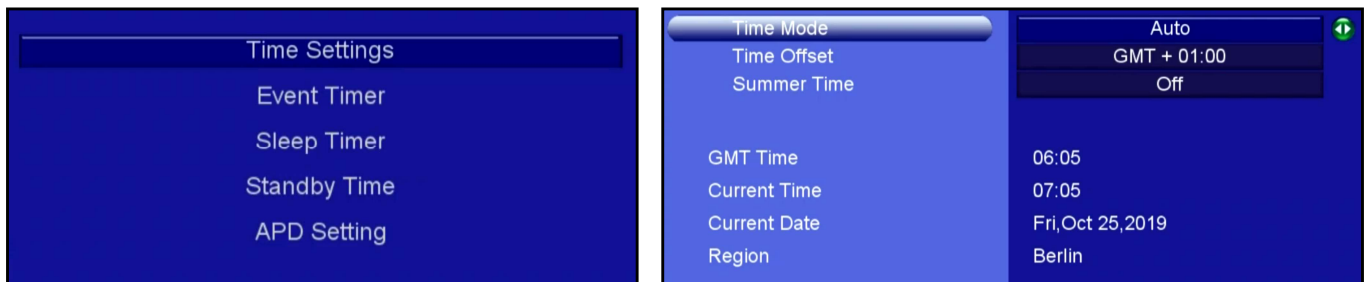
Important:

If you have forgotten your PIN code, please contact the service hotline or the manufacturer.

8.4 SETTINGS (TIMES / TIME SETTINGS)

Press the button **Menu** on your remote control. Use the ▲ / ▼ buttons to navigate to menu item **Settings**. Confirm your selection by pressing the **OK** button. Use the ▲ / ▼ buttons to navigate to menu item **Times**.

Confirm your selection by pressing the **OK** button. Use the ▲ / ▼ buttons to navigate to menu item Time Settings. Confirm your selection by pressing the **OK** button. With the buttons ▲ / ▼ you can now select the following menu items:



Time Mode

Use the ◀ / ▶ buttons to choose between "**Auto**" & "**Manual**". If you selected Auto, the receiver will get the time from the current program. If you selected „**Manual**“, use the ▲ / ▼ buttons to navigate **up and down** in this menu. With the number buttons on your remote control you can enter the time and date parameters directly. Enter the time in **HH / MM** (hour / minute) format. Enter the date in the format **DD / MM / YY** (day / month / year).

Time Offset

In order for the receiver to calculate the correct time, use the ◀ / ▶ buttons to select the correct time zone, unless the device has obtained the correct settings from the satellite signal. **GMT +1** is to be chosen for Germany.

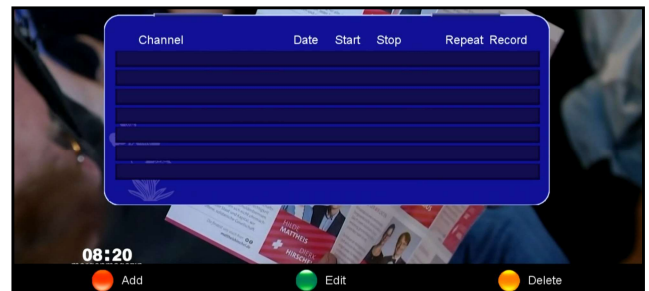
Summer Time

Use the ◀ / ▶ buttons to choose between "**On**", "**Auto**" or "**Off**".

8.5 SETTINGS (TIMES / EVENT TIMER)

Press the button **Menu** on your remote control. Use the ▲ / ▼ buttons to navigate to menu item **Settings**. Confirm your selection by pressing the **OK** button. Use the ▲ / ▼ buttons to navigate to menu item **Times**.

Confirm your selection by pressing the **OK** button. Use the ▲ / ▼ buttons to navigate to menu item **Event Timer**. Confirm your selection by pressing the **OK** button. With the buttons ▲ / ▼ you can now select the following menu items:



In the menu **Event Timer**, you can use the **RED** button to **ADD** an event timer, the **GREEN** button to **EDIT** an event timer or the **YELLOW** button to **DELETE** an event timer.

Add a new Event Timer

To do this, press the **YELLOW** button. In this menu you can navigate with the buttons ▲ / ▼ / ◀ / ▶. Enter the **Date**, **Start time** and **Stop time** via the number buttons on your remote control. If you have selected "YES" on menu position „**Record**“, you can record the programmed program on a USB stick or an external hard disk drive. This feature is available depending on the model. Check which version you have (**with PVR = with recording / without PVR = without recording**). If you select "NO", the receiver switches to the programmed program at the programmed time (program change). Confirm and save your programming by using the buttons ▲ / ▼ to navigate to the menu item **Confirm** and press the **OK** button.



Edit an Event Timer

Navigate with the buttons ▲ / ▼ to select your **Event Timer**, you want to **EDIT**. Press the **GREEN** button for **EDIT**. In this menu you can navigate with the buttons ▲ / ▼ / ◀ / ▶. Change the **Date**, **Start time** and **Stop time** via the number buttons on your remote control. If you have selected "YES" on menu position „**Record**“, you can record the programmed program on a USB stick or an external hard disk drive*. This feature is available depending on the model. Check which version you have (**with PVR = with recording / without PVR = without recording**). If you select "NO", the receiver switches to the programmed program at the programmed time (program change). Confirm and save your programming by using the buttons ▲ / ▼ to navigate to the menu item **Confirm** and press the **OK** button.

| | Channel | Date | Start | Stop | Repeat | Record |
|---|--------------|-------|-------|-------|--------|--------|
| 1 | Das Erste HD | 25/10 | 20:15 | 22:15 | Weekly | YES |
| 2 | SAT.1 | 26/10 | 19:00 | 20:15 | 1x | YES |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

1

2

Edit Timer

Channel

Date (DD/MM)

Start (HH/MM)

Stop (HH/MM)

Repeat

Standby When Stop

Record

Confirm

Das Erste HD

25/10

20:15

22:15

Weekly

NO

YES

OK

Delete an Event Timer löschen:

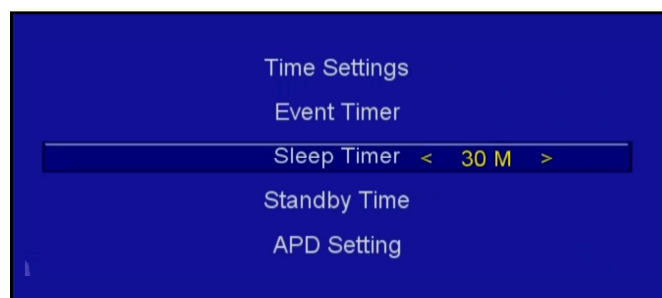
Navigate with the buttons ▲ / ▼ to select your **Event Timer**, you want to **DELETE**. Press the **YELLOW** button for **DELETE**. Your select Event Timer is now deleted.

8.6 SETTINGS (TIMES / SLEEP TIMER)

Press the button **Menu** on your remote control. Use the ▲ / ▼ buttons to navigate to menu item **Settings**. Confirm your selection by pressing the **OK** button. Use the ▲ / ▼ buttons to navigate to menu item **Times**.

Confirm your selection by pressing the **OK** button. Use the ▲ / ▼ buttons to navigate to menu item **Sleep Timer**. Confirm your selection by pressing the **OK** button.

In this menu you can set the time, the receiver should automatically switch to standby. Use the ◀ / ▶ buttons to select: **15M, 30M, 45M, 60M, 90M, 120M, 180M, 240M or 300M (M = minutes)**. If the selection is „OFF“, the sleeptimer is deactivated. In the selection " - " you can manually enter the minute time via number buttons on your remote control. Confirm your selection with the **OK** button.



8.7 SETTINGS (TIMES / STANDBY TIME)

Press the button **Menu** on your remote control. Use the ▲ / ▼ buttons to navigate to menu item **Settings**. Confirm your selection by pressing the **OK** button. Use the ▲ / ▼ buttons to navigate to menu item **Times**.

Confirm your selection by pressing the **OK** button. Use the ▲ / ▼ buttons to navigate to menu item **Standby Time**. Confirm your selection by pressing the **OK** button.

In this menu you can set whether the time is to be displayed when the receiver is in the standby mode. Use the ◀ / ▶ buttons to choose between "**On**" and "**Off**". This function is ideal if the receiver is



located in a bedroom where the LED display should be switched off in standby mode. Confirm your selection with the **OK** button.

8.8 SETTINGS (TIMES / APD SETTING / AUTOM. STANDBY)

Press the button **Menu** on your remote control. Use the ▲ / ▼ buttons to navigate to menu item **Settings**. Confirm your selection by pressing the **OK** button. Use the ▲ / ▼ buttons to navigate to menu item **Times**. Confirm your selection by pressing the **OK** button. Use the ▲ / ▼ buttons to navigate to menu item **Standby Time**. Confirm your selection by pressing the **OK** button.

In this menu, you can use the ◀ / ▶ buttons to select the time after which the device should automatically switch off - if no operation has been carried out using the remote control or the device. Choose between **15M**, **30M**,



1H, **2H**, **3H** and **4H** (M = minutes / H = hours). If the selection is set to "OFF", the automatic connection is deactivated. In the selection " - " you can manually enter the minute time via number buttons on your remote control. Confirm your selection with the **OK** button. **The countdown is set to 3 H by default. The Receiver will switch itself off after 3 hours if no operation has been made via the remote control or on the device.**

8.9 SETTINGS (COLOUR SETTINGS)

Press the Menu button on your remote control and use the ▲ / ▼ buttons to navigate to the **Settings** menu item. Confirm the menu item with the **OK** button. Now navigate with the buttons ▲ / ▼ to the menu item **Colour Settings**. Confirm the menu item with the **OK** button. Use the ▲ / ▼ buttons to navigate up and down in the menu. Use the ◀ / ▶ buttons to adjust your parameters between **0% and 100%**. Confirm your entry with the **OK** button. If you navigate to the **Standard** menu item and press the **OK** button, the default settings will be loaded (**50%**).



8.10 SETTINGS (ABOUT STB)

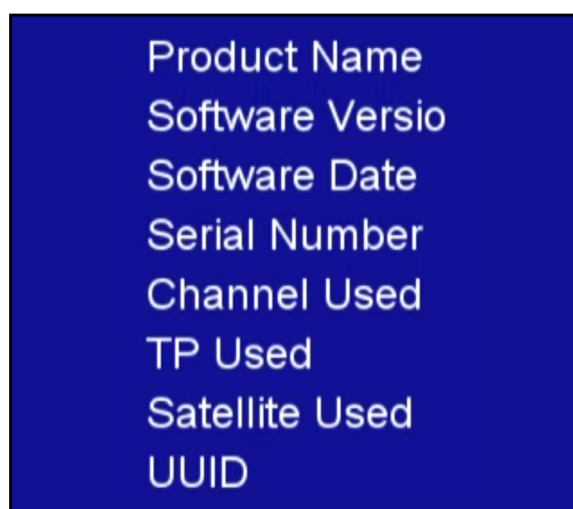
Press the button **Menu** on your remote control. Use the ▲ / ▼ buttons to navigate to menu item **Settings**. Confirm your selection by pressing the **OK** button. Use the ▲ / ▼ buttons to navigate to menu item **Times**.

Confirm your selection by pressing the **OK** button. Use the ▲ / ▼ buttons to navigate to menu item **Standby Time**. Confirm your selection by pressing the **OK** button.

In this menu you can show all information about this receiver:

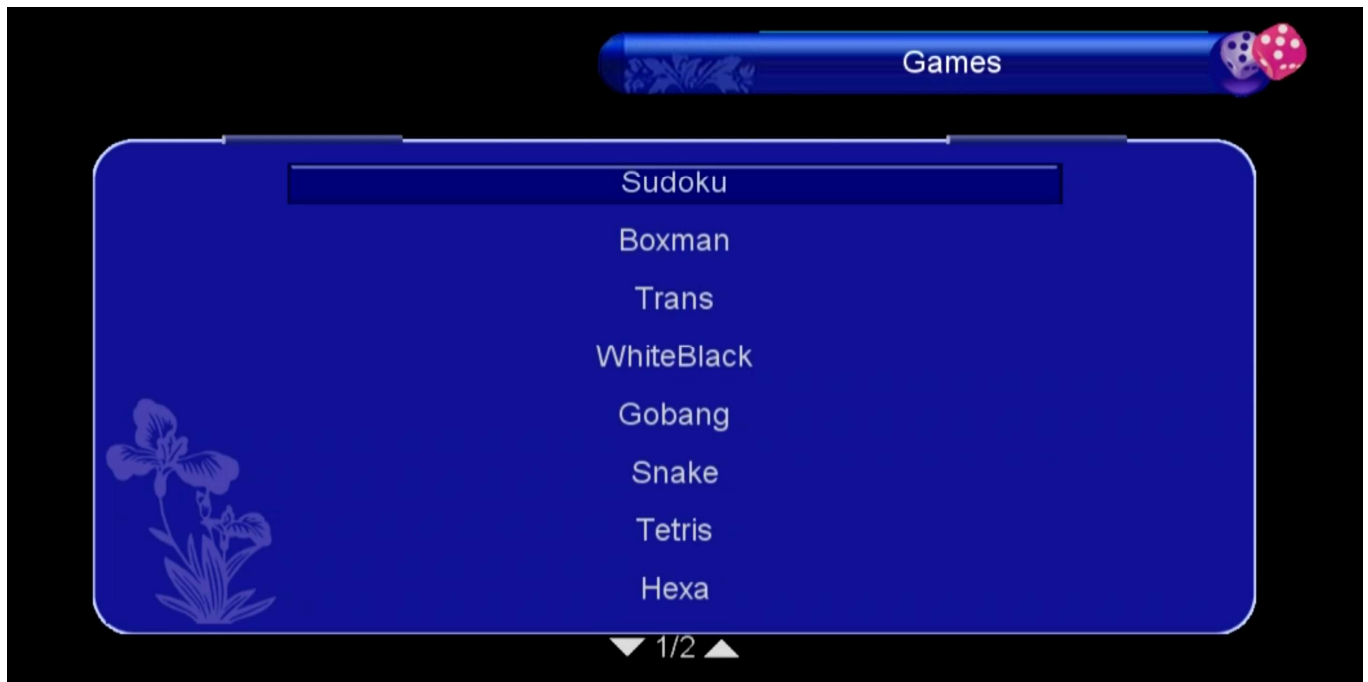
- Product Name
- Software-Version
- Software-Datum
- Serial Number
- etc.

Should you later on the service, due to a technical DEFECTS, take advantage, so keep this information ready. By providing this information, the service or dealer can react more quickly to the errors or defects you have indicated.



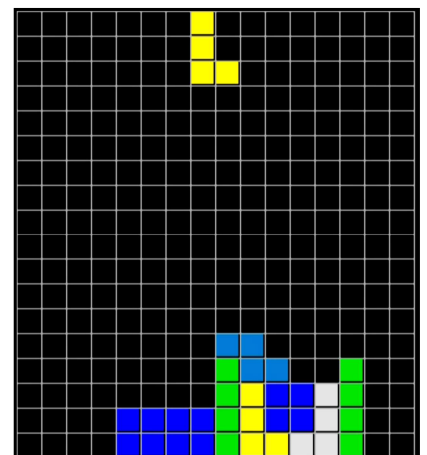
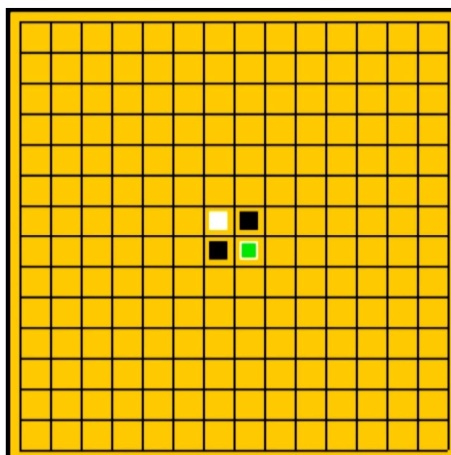
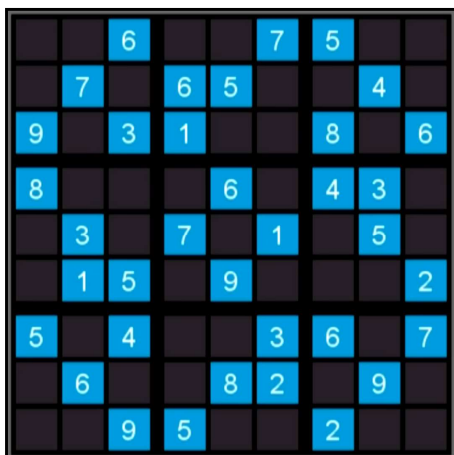
9.1 GAMES

Press the button **Menu** on your remote control. Use the ▲ / ▼ buttons to navigate to menu item **Games**. Confirm your selection by pressing the **OK** button.



Use the ▲ / ▼ buttons to select your game and confirm your selection with the **OK** button. You can select the following games:

- **Sudoku**
- **Boxman**
- **Trans**
- **WhiteBlack**
- **Gobang**
- **Snake**
- **Tetris**
- **Hexa**
- **Mine**

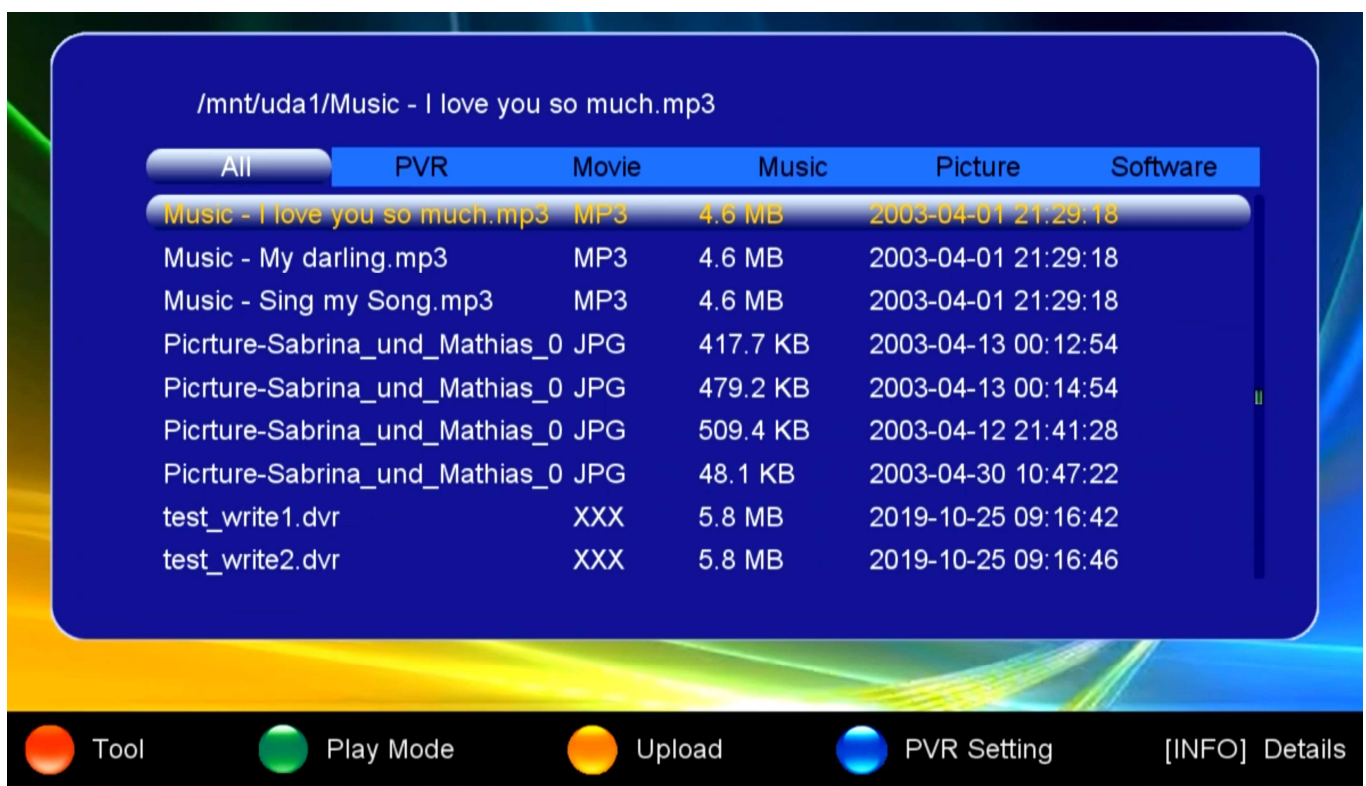


10.1 EXPANSION (USB)

Important:

The conditions for this menu is a connected USB stick or an external hard disk on the rear USB port of the device.

Press the button **Menu** on your remote control. Use the ▲ / ▼ buttons to navigate to menu item **Expansion**. Confirm your selection by pressing the **OK** button. Use the ▲ / ▼ buttons to navigate to menu item **USB**. Confirm your selection by pressing the **OK** button.



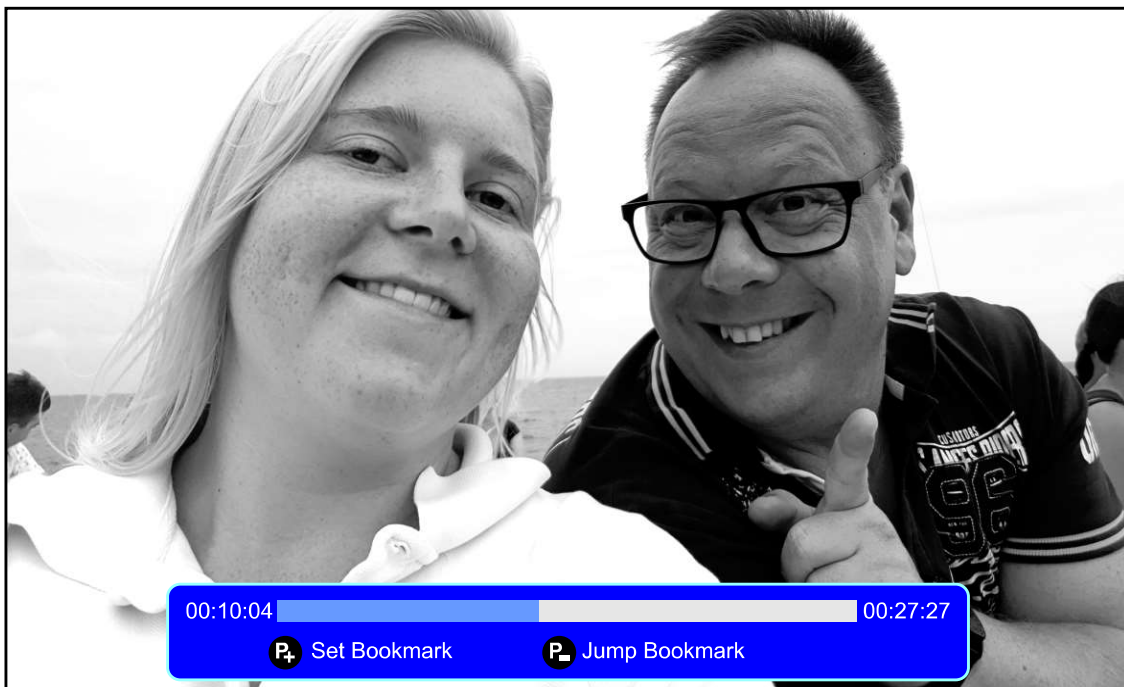
In this menu, you can play your media (photos, pictures, movies) from the connected USB stick or an external hard disk. Software updates can also be imported into the device via this menu. Use the ◀ / ▶ buttons to choose between the categories: All, PVR*, Movie, Music, Picture, Software. Use the ▲ / ▼ buttons to navigate through your files / folders on your USB stick or external hard disk.

PVR*









This feature is available depending on the model. Check which version you have:
with PVR = with recording / without PVR = without recording

10.2 EXPANSION (USB / PLAYBACK OF A PVR RECORDING*)

Press the button **Menu** on your remote control. Use the ▲ / ▼ buttons to navigate to menu item **Expansion**. Confirm your selection by pressing the **OK** button. Use the ▲ / ▼ buttons to navigate to menu item **USB**. Confirm your selection by pressing the **OK** button. Now the menu opens with all files on your USB device. Navigate with the buttons ◀ / ▶ to **Category PVR*** and press the button **OK** on your remote control. All recordings that you have recorded with your receiver will now be displayed. Use the buttons ▲ / ▼ to navigate to a movie that you want to play from the USB stick or an external hard disk and confirm your selection with the **OK** button.



You can use the following buttons during playback:

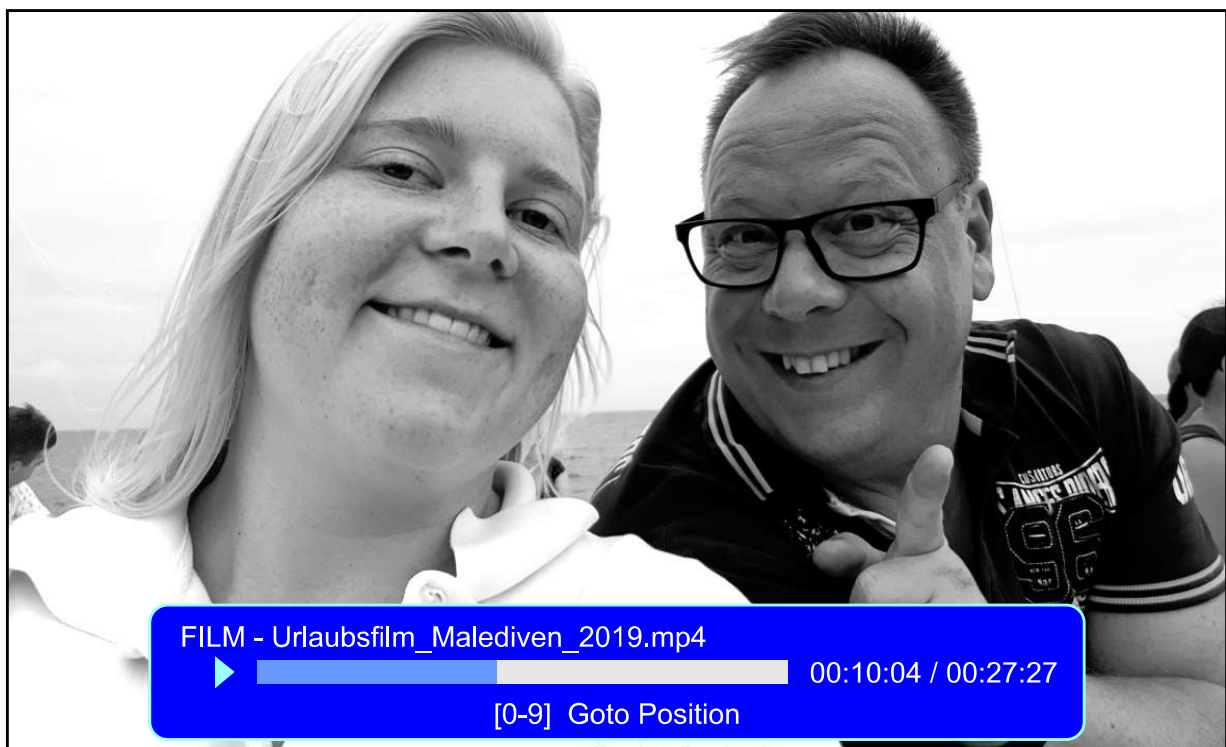
- | | |
|---|---|
|  Play / Pause |  Set Bookmark |
|  Stop Movie |  Jump to a Bookmark |
|  Show previous movie | |
|  Show next movie | |
|  Rewind the movie | |
|  Fast forward the movie | |

PVR*







This feature is available depending on the model. Check which version you have:
with PVR = with recording / without PVR = without recording




10.3 EXPANSION (USB / PLAYBACK OF A MOVIE)








Press the button **Menu** on your remote control. Use the **▲ / ▼** buttons to navigate to menu item **Expansion**. Confirm your selection by pressing the **OK** button. Use the **▲ / ▼** buttons to navigate to menu item **USB**. Confirm your selection by pressing the **OK** button. Now the menu opens with all files on your USB device. Navigate with the buttons **◀ / ▶** to **Category Movie**. Use the buttons **▲ / ▼ / ◀ / ▶** to navigate to your folder or movie file from the USB stick or an external hard disk and confirm your selection with the **OK** button.



You can use the following buttons during playback:

-  **Play / Pause**
-  **Stop Movie**
-  **Show previous movie**
-  **Show next movie**
-  **Rewind the movie**
-  **Fast forward the movie**

   **Goto Position:** Enter the time position from where the movie is to be played via your numeric buttons on your remote control and confirm your entry with the **OK** button.

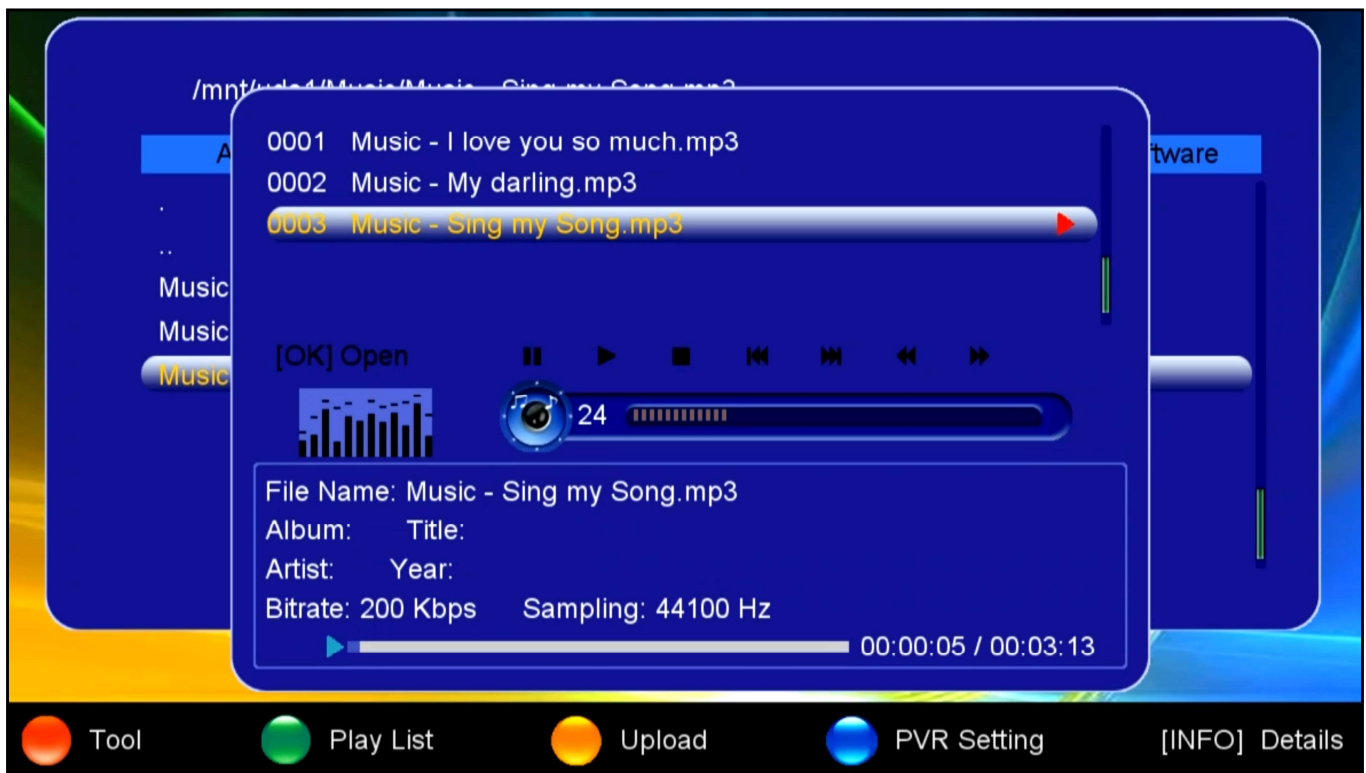
  
  


The following movie file formats can be played:

*.3gp, *.avi, *.dat, *.fly, *.mkv,
*.mov, *.mp4, *.mpg, *.m2ts,
*.ts, *.vob

10.4 EXPANSION (USB / PLAYBACK OF MUSIC)

Press the button **Menu** on your remote control. Use the ▲ / ▼ buttons to navigate to menu item **Expansion**. Confirm your selection by pressing the **OK** button. Use the ▲ / ▼ buttons to navigate to menu item **USB**. Confirm your selection by pressing the **OK** button. Now the menu opens with all files on your USB device. Navigate with the buttons ◀ / ▶ to **Category Music**. Use the buttons ▲ / ▼ / ◀ / ▶ to navigate to your folder or music file from the USB stick or an external hard disk and confirm your selection with the **OK** button.



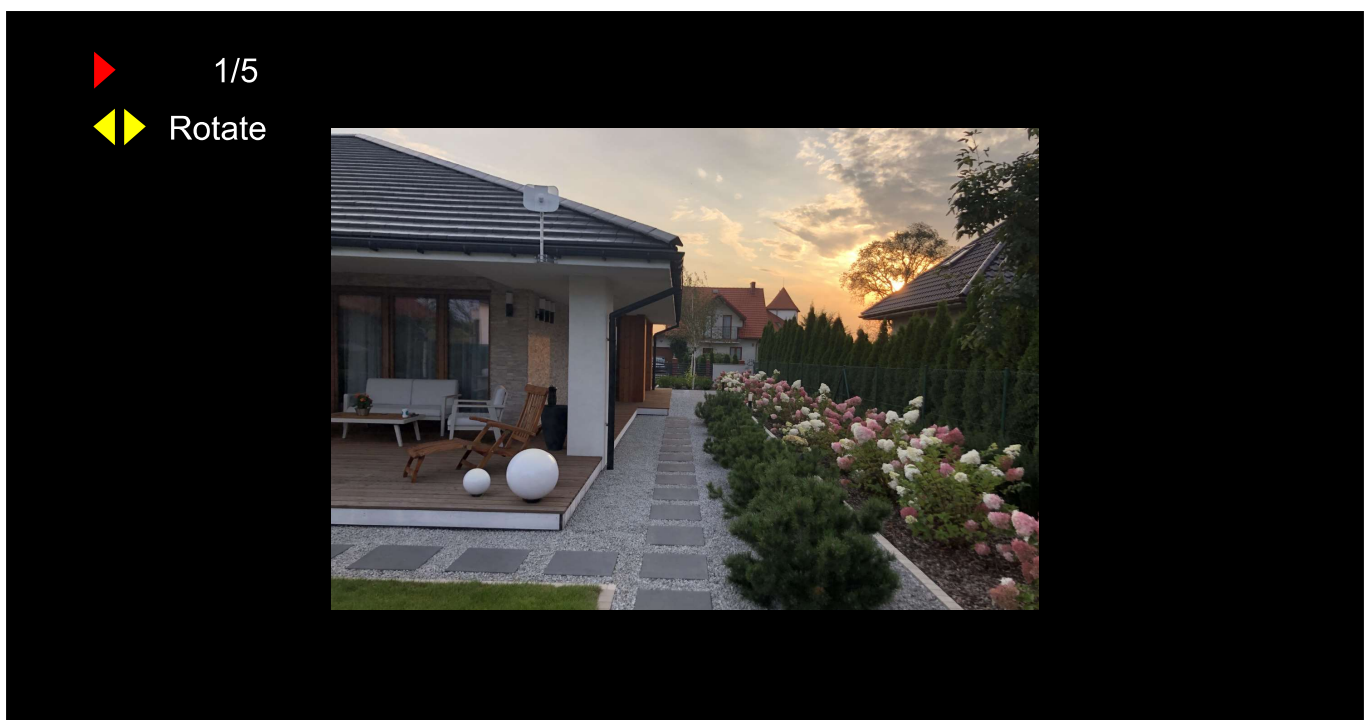
You can use the following buttons during playback:

- ▶|| Play / Pause
- USB/■ Stop
- ◀◀ Play previous file
- ▶▶ Show next file
- ◀◀ Rewind the music
- ▶▶ Fast forward the music






The following movie file formats
can be played:
*.flac, *, *.mp2, *.mp3, *.ogg
*.wav

10.5 EXPANSION (USB / PLAYBACK OF PICTURES)

Press the button **Menu** on your remote control. Use the ▲ / ▼ buttons to navigate to menu item **Expansion**. Confirm your selection by pressing the **OK** button. Use the ▲ / ▼ buttons to navigate to menu item **USB**. Confirm your selection by pressing the **OK** button. Now the menu opens with all files on your USB device. Navigate with the buttons ◀ / ▶ to **Category Picture**. Use the buttons ▲ / ▼ / ◀ / ▶ to navigate to your folder or picture file from the USB stick or an external hard disk and confirm your selection with the **OK** button.



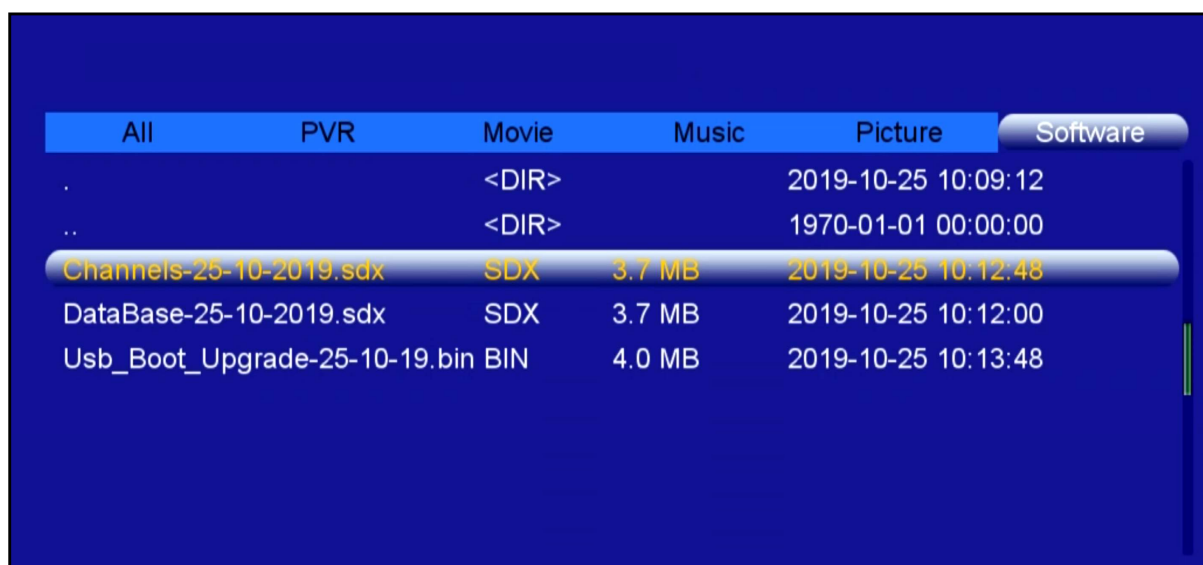
You can use the following buttons during playback:

-  **Play / Pause**
-  **Play previous picture**
-  **Play next picture**
-  **Rotate the picture right**
-  **Rotate the picture left**

The following movie file formats
can be played:
*.bmp, *.gif, *.jpg

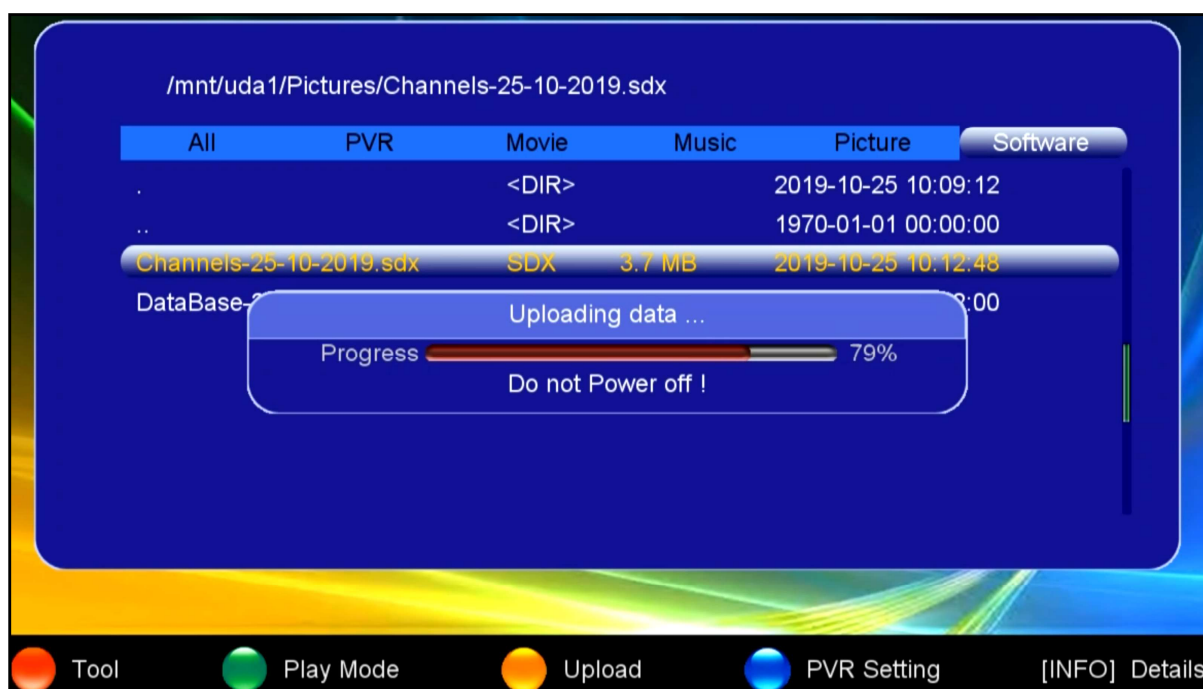
10.6 EXPANSION (USB / SOFTWARE UPDATE)

Press the button **Menu** on your remote control. Use the ▲ / ▼ buttons to navigate to menu item **Expansion**. Confirm your selection by pressing the **OK** button. Use the ▲ / ▼ buttons to navigate to menu item **USB**. Confirm your selection by pressing the **OK** button. Now the menu opens with all files on your USB device. Navigate with the buttons ◀ / ▶ to **Category Software**. Use the buttons ▲ / ▼ / ◀ / ▶ to navigate to your folder or software file from the USB stick or an external hard disk and confirm your selection with the **OK** button.



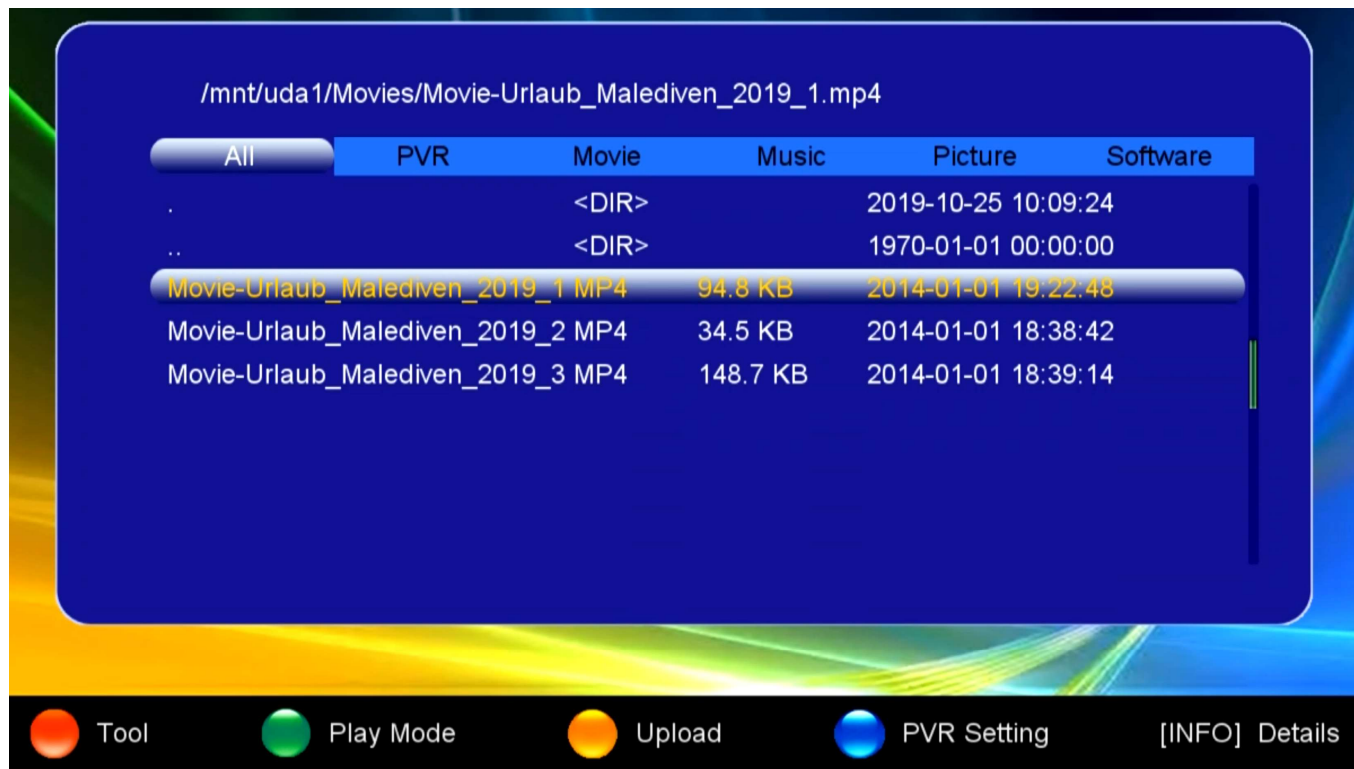
The selected file will be uploaded (Uploading Data...). It may be that the receiver restarts after the upload.

Attention: NEVER switch off the receiver during the upload !!!



10.7 EXPANSION (USB / FUNCTIONS)

In the menu USB you have several functions:



Tool

Select a file and press the **RED** button. Here you can select the selected file: Rename, Delete, Move to, Copy to, Create new Folder, Sort, Format disk.

Play Mode

Select a file and press the **GREEN** button. Here you can set the play mode: Loop, Slideshow interval, Photo view mode

Upload

Press the **YELLOW** button. Here you can save the following fuses from your receiver to your USB stick or hard disk:

| | |
|------------------------|-------------------------------------|
| Upload Data To USB: | Saves only the settings |
| Upload Channel To USB: | Saves only the program list |
| Upload All To USB: | Saves the settings and program list |

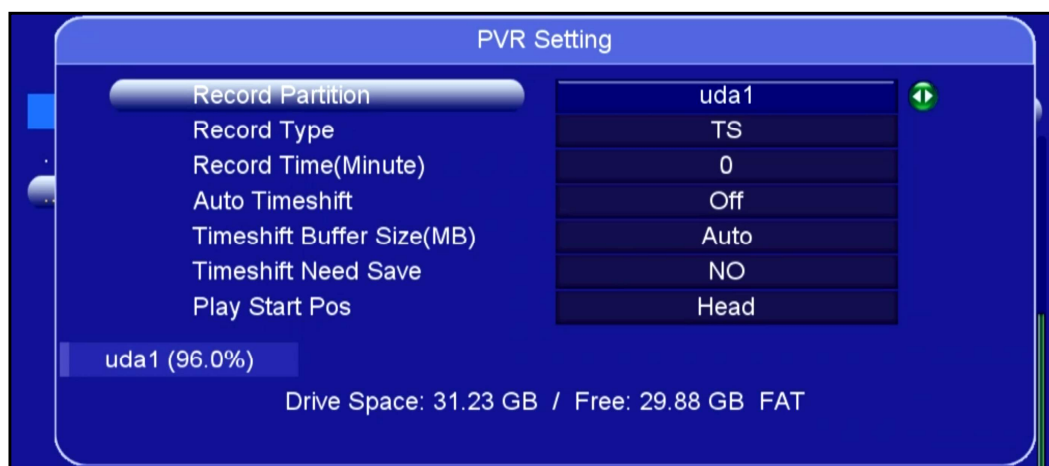
Select which backup you want to create and confirm your selection with the **OK** button. Now you can enter a name for your file. The following buttons are available:

| | |
|-------------------------|--|
| RED button | Switch between the standard or extended character set |
| GREEN button | Switch between capital letter and lowercase letters |
| YELLOW button | Delete the last entry |
| BLUE button | Confirm the entry and exit the menu |
| Numeric keyboard | You can enter directly numbers via your remote control. |
| ▲ / ▼ / ◀ / ▶ | Navigate to a letter / character and confirm with the button OK . |



11.1 EXPANSION (USB / PVR SETTING*)

Press the button **Menu** on your remote control. Use the **▲ / ▼** buttons to navigate to menu item **Expansion**. Confirm your selection by pressing the **OK** button. Use the **▲ / ▼** buttons to navigate to menu item **USB**. Confirm your selection by pressing the **OK** button. Now press the **BLUE** button.



PVR*

This feature is available depending on the model. Check which version you have:
with PVR = with recording / without PVR = without recording

| | |
|--|---|
| Record Partition* | If there is more than one partition on your USB storage device, you can choose here at which partition the images should be saved. The lower part of the menu shows the storage capacity of the selected partition and how much storage space is not used ("Drive Space / Free"). |
| Record Type* | Use the ◀ / ▶ buttons to select the recording format between TS and PS |
| Record Time* (Minute) | You can specify how long the receiver should record after pressing the button „●“ on your remote control, before it automatically stops recording. Use the ◀ / ▶ buttons to select the time. |
| Auto Timeshift* | Use the ◀ / ▶ buttons to select between "ON" and "OFF". If this function is activated (ON), the timeshift recording started after each station change. |
| Timeshift* Buffer Size (MB) | Use the ◀ / ▶ buttons to select the buffer size. The receiver independently manages the size of the timeshift buffer. However, you can also determine how much storage space can be allocated by the timeshift function. |
| Timeshift* Need Save | Use the ◀ / ▶ buttons to choose between "YES" and "NO". If this function is deactivated (NO), the data from the timeshift buffer will be discarded after the timeshift function is ended. If the function is activated (YES), the data is saved as a recording. |

Record/Timeshift/PVR*

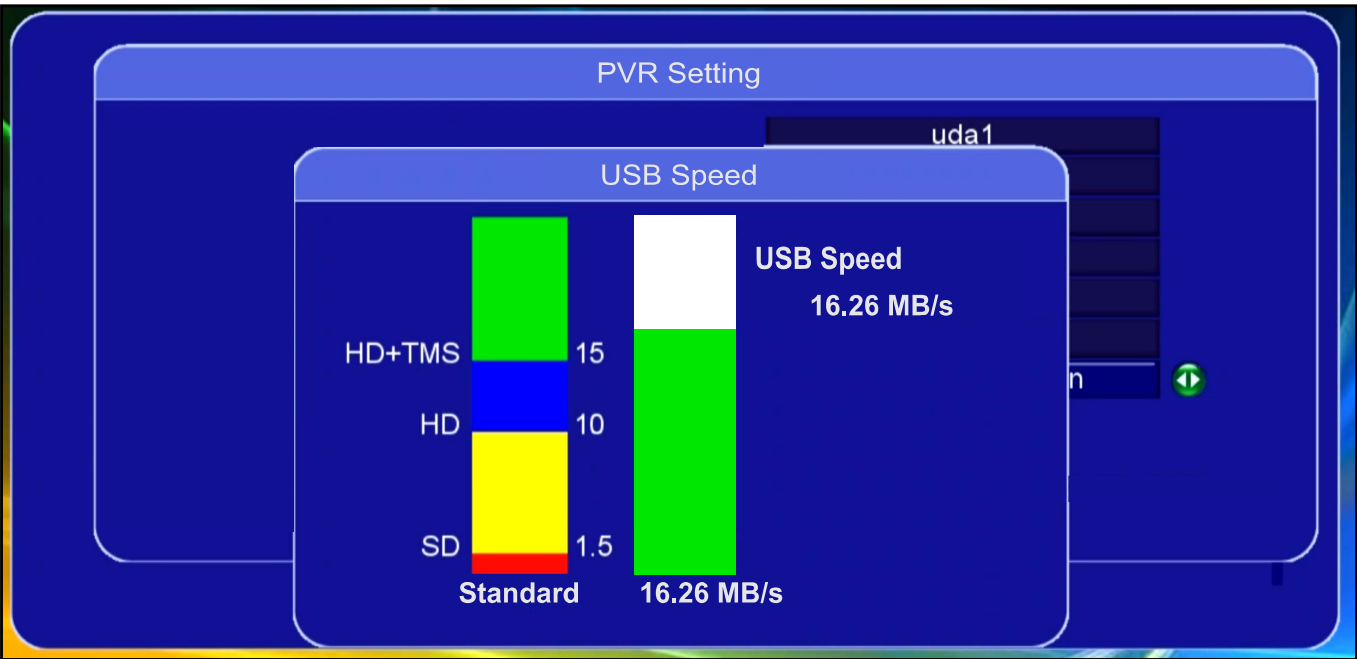
This feature is available depending on the model. Check which version you have:
with PVR = with recording / without PVR = without recording

Play Start Pos

Use the ◀ / ▶ buttons to choose between "**Head**" and "**Last Position**". Recordings are always played from the beginning, if this setting is set to "**Head**". If you want the receiver to remember the last playback position and start playback of PVR* recordings always starting from the last playback position, please set this setting to "**Last Position**".

USB Speed

Press the **BLUE** button to display the "**USB Speed**" diagram. The diagram on the right shows whether the connected USB memory is expected to be fast enough to save SD programs (yellow) or HD programs (blue) TV and timeshift on HDTV (HD + TMS, green).



Record/Timeshift/PVR*

This feature is available depending on the model. Check which version you have:
with PVR = with recording / without PVR = without recording

11.2 PVR FUNCTION (DIRECT RECORD)*

Start a directly Record

To start a **directly record** on your connected USB stick or external hard disk, press the „●“ button. Pressing the INFO button displays the recording time in the upper right corner.

Stop Record

Pressing the button „USB/■“ on your remote control stops recording immediately. Answer the question: "**Do you want to stop current record ?**" by selecting with the buttons ◀ / ▶ "YES" / "NO" and confirm your selection with the OK button.

11.3 PVR FUNCTION (RECORD WITH EPG PROGRAMMING)*

To using the **EPG** (Electronic Program Guide) for record function, press the **EPG** button on your remote control. The Program Guide opens:

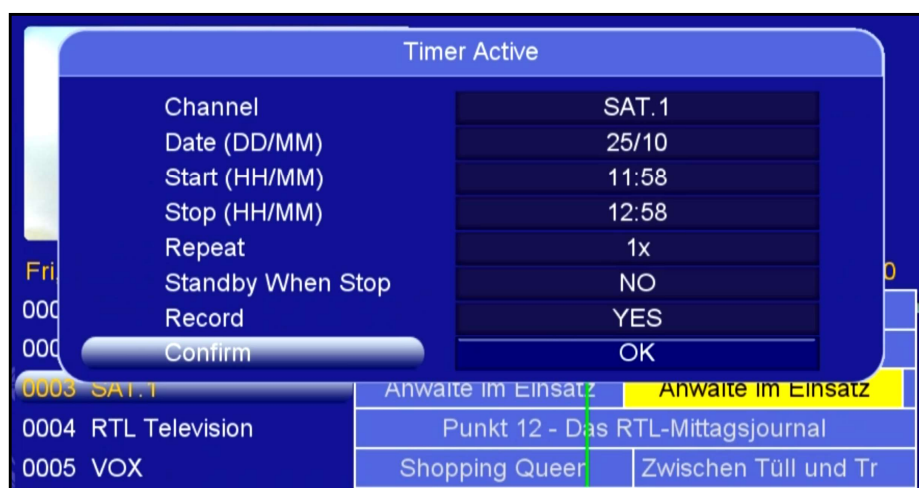


Use the buttons ▲ / ▼ / ◀ / ▶ to navigate to the program that you want to program for timer programming (here for example: **10: 57-11:58** on program **SAT.1** the Film "**Anwälte im Einsatz**"). Press the **RED** button (Edit Timer) to program this film for recording.

Record/Timeshift/PVR*

This feature is available depending on the model. Check which version you have:
with PVR = with recording / without PVR = without recording

The timer overview opens:



The receiver automatically read out and set the program, the date, the start time and the stop time from the EPG. You can now use the buttons ▲ / ▼ to change the following menu items:

Repeat: Use the ◀ / ▶ buttons to select whether the program should be recorded: **1x, Daily, Weekly, 1-5 (Mon-Fri) or 6-7 (Sat-Sun) at the specified time.**

Standby When Stop Use the ◀ / ▶ buttons to select whether to put the receiver into standby after recording is complete.

Record: Use the ◀ / ▶ buttons to select whether the program is to be recorded on your USB storage medium if "YES" is selected or if only one channel change is to be made if "NO" is selected.

After you have made your programming, use the ▲ / ▼ buttons to navigate to the menu item "**Confirm**" and press the **OK** button. Your timer has been activated. The consignment was marked in yellow color.

| | | | |
|------------------------|--------------------|----------------------------|---------------------|
| Ta | Rote Rosen (2968) | Ta | Sturm der Liebe (32 |
| heute | Die Küchenschla | h | Bares für Rares |
| Die Superhändler - 4 R | | Ran an den Speck - Fa | |
| Das Familie | Anwälte im Einsatz | Das Familienger | |
| Die Reimanns - Ein au | | Hartz und herzlich - Tag f | |

Use the **GREEN** button to select between the **Day EPG** and the **Weekly EPG**:

Day EPG



Weekly EPG



Press the **BLUE** button for information about the selected program in the top right view (**Only in Day EPG view**):



11.4 PVR FUNCTION* (TIMESHIFT)

With the Timeshift function, you have the option of breaking or pausing a running TV program. The TV program is then recorded on your USB storage device (USB stick or external hard drive) and can be continued later. To start a timeshift recording, press the pause button ►|| for pause while playing a program. To continue watching the stopped program, press the button ►|| for play. Use the ◀◀ / ▶▶ buttons to fast forward or rewind playback. The stop button USB/■ aborts the time shift recording.

Record/Timeshift/PVR*

This feature is available depending on the model. Check which version you have:
with PVR = with recording / without PVR = without recording

12.1 NETWORK (FUNCTION)

IMPORTANT:

These features require an optional USB WLAN antenna (is not included). Only when a USB WLAN antenna is connected to the USB port, the following menus are visible and functions active.

To open the network apps, press the Menu button on your remote and use the ▲ / ▼ buttons to navigate to the **Expansion** menu item. Confirm the menu item by pressing the **OK** button. With the buttons ▲ / ▼ you can now select the following menu items:



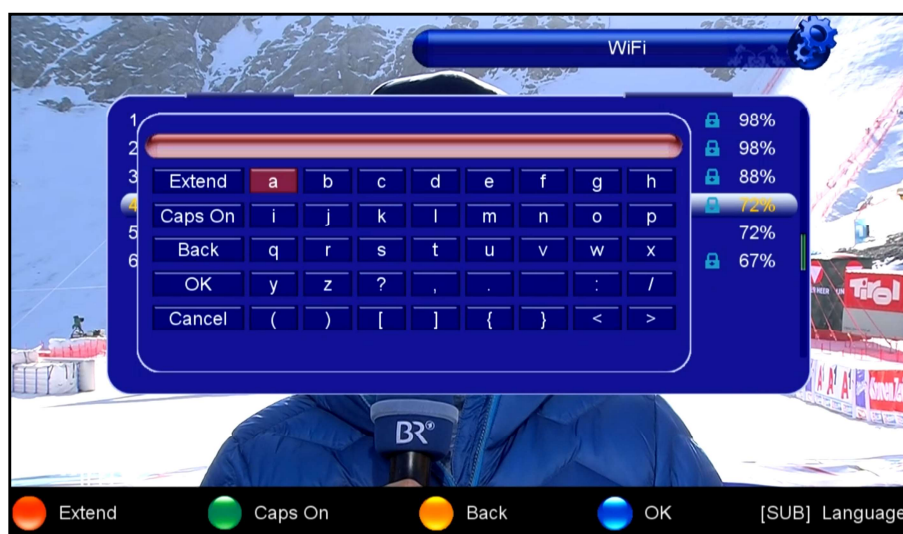
12.2 NETWORK (WiFi)

To connect your receiver to the Internet via WiFi, press the Menu button on your remote control and use the ▲ / ▼ buttons to navigate to the **Expansion** menu item. Confirm this menu item with the **OK** button. Use the ▲ / ▼ buttons to navigate to the **WiFi** menu item and confirm by pressing the **OK** button.

All available WLAN accesses will now be displayed:

| | | | |
|---|---------------------|---|-----|
| 1 | Fritz!Box-Guhn-GZ |  | 98% |
| 2 | Fritz!Box-Guhn-SZ |  | 97% |
| 3 | Fritz!Box-Guhn-GAST |  | 96% |
| 4 | Fritz!Box-Guhn-BÜRO |  | 95% |

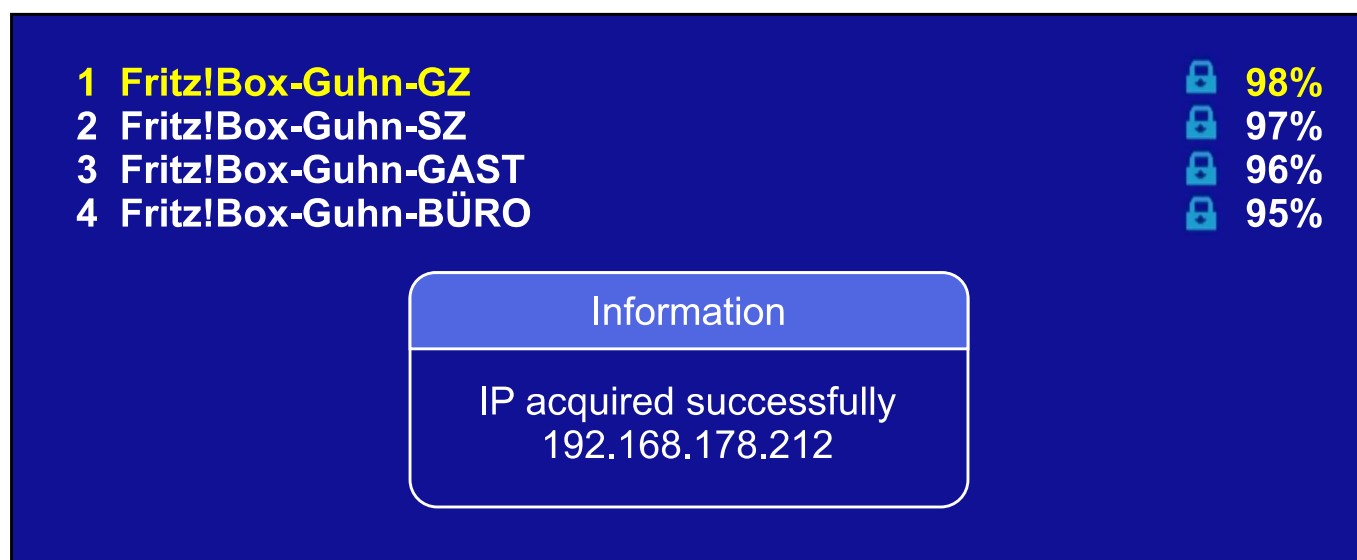
Use the ▲ / ▼ buttons to navigate to your **WLAN access** and confirm your selection with the **OK** button. Now enter your **WLAN key** for the selected WLAN access.



The following buttons are available:

- RED** button Switch between the **standard** or **extended character** set
- Green** button Switch between **capital letter** and **lowercase letters**
- YELLOW** button Delete the last entry
- BLUE** button **Confirm** the entry **and exit** the menu
- Numeric keyboard** You can enter directly numbers via your remote control.
- ▲ / ▼ / ◀ / ▶ Navigate to a letter / character and confirm with the button **OK**.

After successfully entering the correct WLAN key, the receiver automatically obtains a IP address from your router and is now connected to the Internet:



12.3 NETWORK (IP SETTINGS - WiFi)

To assign a **manual IP address**, press the Menu button on your remote control and use the ▲ / ▼ buttons to navigate to the **Expansion** menu item. Confirm this menu item by pressing the **OK** button. Use the ▲ / ▼ buttons to navigate to the **IP setting** menu item and confirm by pressing the **OK** button. You will now be shown the network parameters:

| | |
|--------------|-------------------|
| Address | 192.168.178.217 |
| MAC Address | D0-6F-4A-29-B9-F3 |
| Address Mask | 255.255.255. 0 |
| Gateway | 192.168.178. 1 |
| DNS1 | 192.168.178. 1 |
| DNS2 | 0. 0. 0. 0 |
| DHCP | Off |
| Confirm | OK |

If you navigate to the **DHCP** menu item using the ▲ / ▼ buttons, you can use the ◀ / ▶ buttons to switch between "On" (automatic assignment of an IP address) or "Off" (manual entry of the network parameters). If you have selected "OFF" in the **DHCP** menu item, you can enter the network parameters (Address, MAC Adress, Address mask, Gateway, DNS1, DNS2) manually by using number buttons on your remote control. After complete input of the parameters, navigate to the menu item **Confirm** and confirm your selection with the **OK** button.

12.4 NETWORK (NETWORK APPs)

To start the network apps, press the Menu button on your remote control and use the ▲ / ▼ buttons to navigate to the Expansion menu item. Confirm this menu item by pressing the **OK** button. Navigate with the ▲ / ▼ buttons to **Network Apps** menu item and confirm it with the **OK** button. The menu with the Network apps opens. Use the ▲ / ▼ buttons to select you nezwork app and confirm the app by pressing the **OK** button.

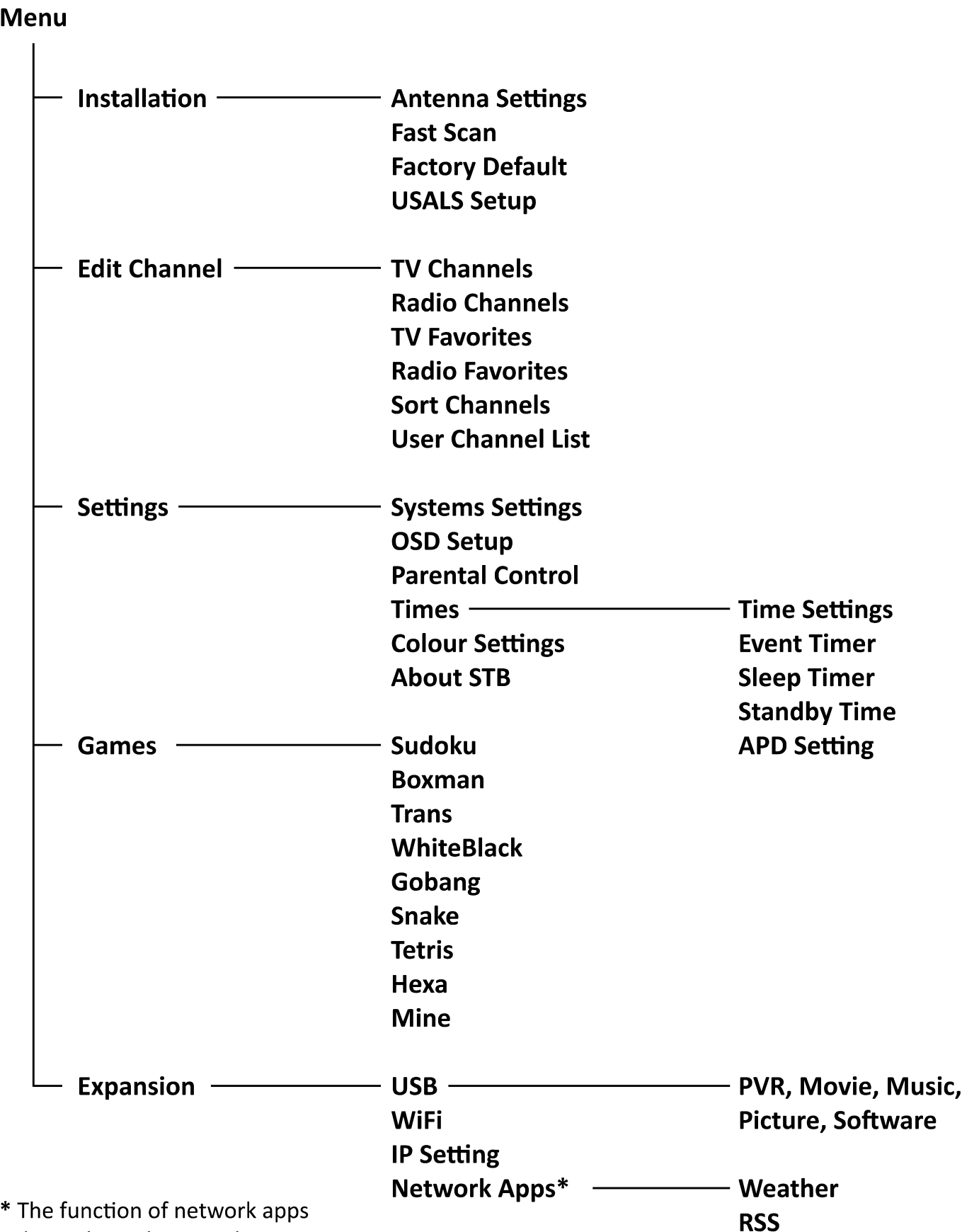
Important: The function of the APPs depends on the respective provider. The manufacturer has no influence on the function or accessibility of these APPs.

13.1 TROUBLESHOOTING

If you have any problems with this device or with installation, please read the proposed solutions in the following Table or connect the Service-Hotline:

| Problem | Possible Cause | Suggested solution |
|--|--|---|
| The device shows no function | The device is not connected to the power supply | Check the power cord and your power connection |
| | Device is not switched on | Press the POWER switch on the device |
| "Signal is weak!" | The antenna cable is not connected or is defective | Check the cable connection from your antenna socket or from the satellite system to the device |
| | Wrong setting (configuration in search) | Set the correct parameters in the search. |
| No Sound | The audio cable is not properly connected or defective | Check the connection and the connected cable |
| | The sound is muted | Press the MUTE button on your remote control or continue to adjust the volume higher. |
| | Wrong audio setting | Select the correct audio channel via the AUDIO button on your remote control. |
| Sound, but no Picture | The scart cable is not connected properly | Check the scart cable and plug it in completely |
| | You have chosen a radio channel | Use the TV / Radio button to switch back to the TV program |
| Channel can not be seen | The channel is scrambled. A scrambled program with the character \$ will be displayed in the station list. | This device is a FTA device and ONLY receives free-to-air programs. Replace the device. |
| PIN code is not accepted | You have entered an incorrect PIN CODE | Use the MASTER-PIN: 9876 |
| No function of the remote control | The device is switched off or without power | Turn on the device and start the power supply |
| | The remote control is not aligned with the sensor on the receiver | Point the remote control at the receiver - not at your TV |
| | Batteries are empty or inserted incorrectly | Check that the batteries are inserted the right way round in the remote control. |
| The picture stops or you see small boxes | The signal is too weak | If necessary amplify your signal with an amplifier |
| | The antenna cable is not sufficiently shielded | Replace your antenna cable with a shielded antenna cable |
| Channels are missing in the program list | At times it happens that frequencies from programs can changed | Start a new transponder search if you know the new frequency. Otherwise start complet new search. |

14.1 MENU STRUCTURE



* The function of network apps depends on the provider. Here the manufacturer has no influence on the function.

15.1 DECLARATION OF CONFORMITY

The manufacturer,

AX TECHNOLOGY Sp. z o.o. Sp.k.
ul. Szczecińska 1W
72-003 Dobra, Poland

declares, that this Product is in conformity with the 2014/53/EU standards or/and other normative documents.

You can download the complete Declaration of Conformity on our homepage.

With the CE mark, the manufacturer declares that the product complies with the essential requirements and guidelines of the European regulations.



15.2 SERVICE INFORMATION

Dear Customer,

Our goal is to offer you a good and high quality product. Your satisfaction is very important to us. In case of problems with the device, our experience has shown that many problems can be solved by E-Mail. If you have problems with your device, please contact with our service. From our service, you will also learn the exact procedure of the warranty processing, if you really need to send in your device.

Visit us in Internet:
www.axtechnology.eu/serwis

Errors which can be remedied by our service through a software update are subject to a fee. The warranty expires if the warranty seal is broken.



www.opticum-gmbh.de

The actual appearance of the product may be different from the photograph of the manual and on the packaging. All information is provided without warranty. Printing errors, mistakes and changes reserved.