

# THOMSON

## Digitaler HD+ Satelliten Receiver

THS844



Bedienungsanleitung  
User Manual

DVBS2

NAGRA  
KUDELSKI

HDMI

DOLBY AUDIO

DISC 1.0

Fig. 1

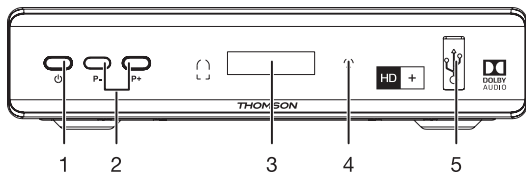


Fig. 2

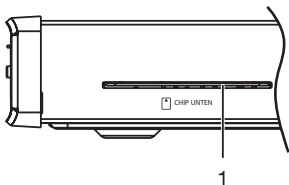


Fig. 3

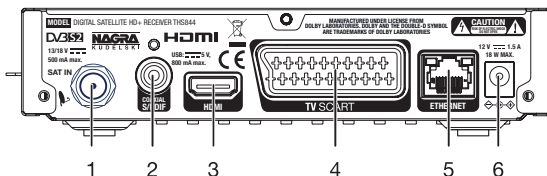


Fig. 4

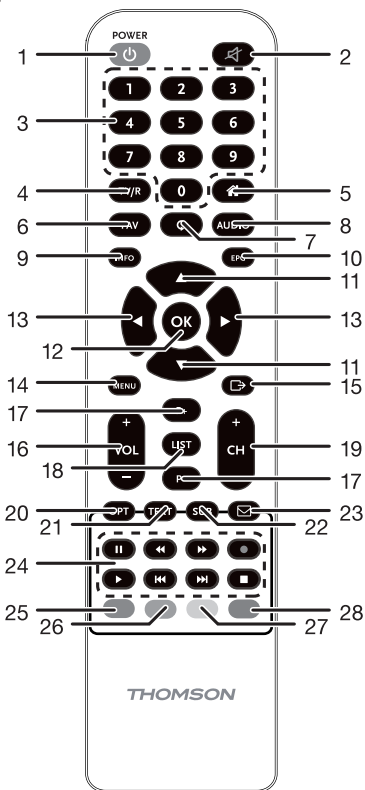


Fig. 5

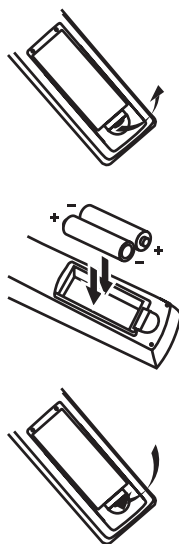


Fig. 6

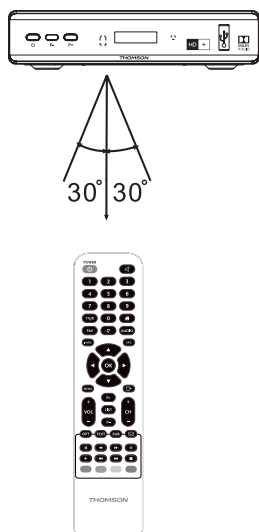


Fig. 7

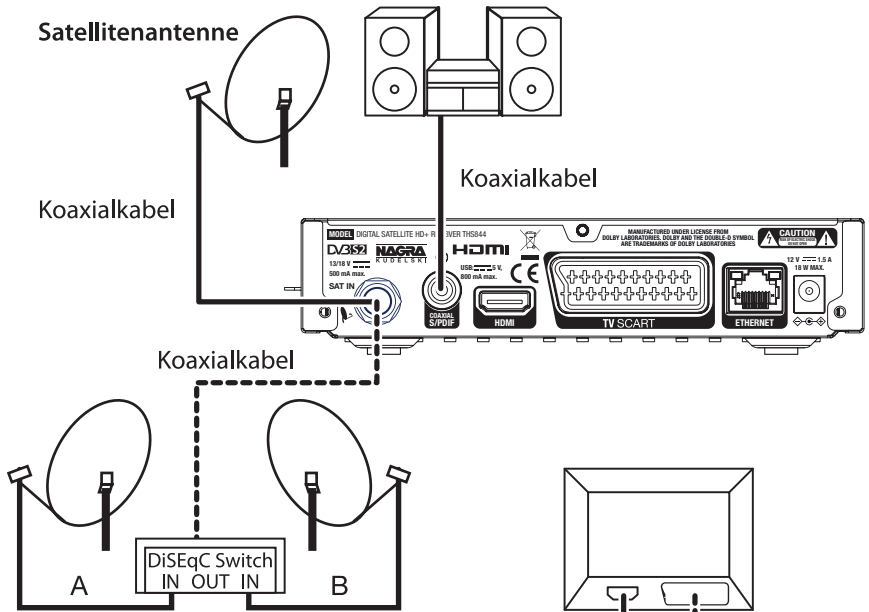


Fig. 8

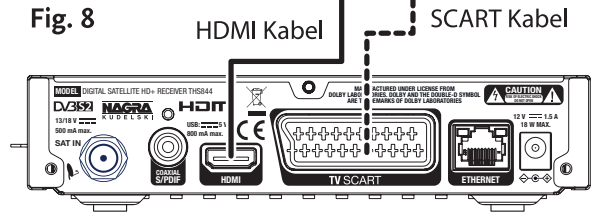
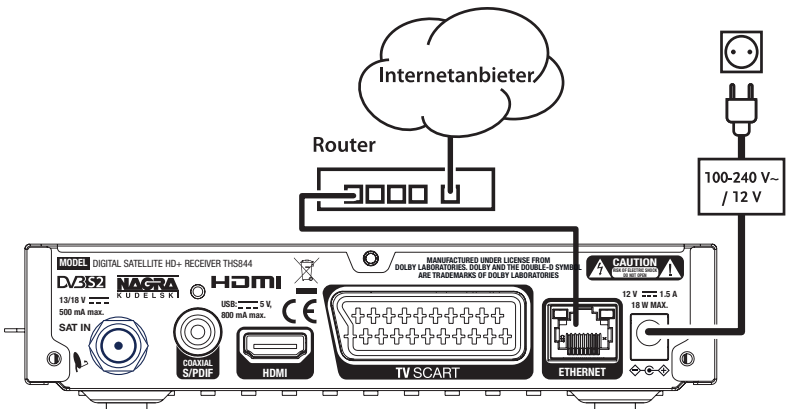


Fig. 9



# SERVICE CENTER

DE



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## 1.0 INTRODUCTION

### 1.1 Safety Instructions

Read all of the instructions before operating the device. Keep these instructions well for later use.

- Only use attachments/accessories specified or provided by the manufacturer (such as the exclusive supply adapter, battery etc.).
- Please refer to the information on the product enclosure for electrical and safety information before installing or operating the apparatus.
- To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- The ventilation should not be impeded by covering the ventilation openings with items, such as newspaper, table-cloths, curtains, etc.
- The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
-  This mark indicates a risk of electric shock.
- To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.
- Danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent types.
- The battery (battery or batteries or battery pack) shall not be exposed to excessive heat such as sunshine, fire or the like.
- Excessive sound pressure from earphones and headphones can cause hearing loss. Listening to music at high volume levels and for extended durations can damage one's hearing.
- In order to reduce the risk of damage to hearing, one should lower the volume to a safe, comfortable level, and reduce the amount of time listening at high levels.
- The mains plug or appliance coupler is used as disconnect device, it shall remain readily operable. When not in use and during movement, please take care of the power cord set, e.g. tie up the power cord set with cable tie or something like that. It shall be free from sharp edges or similar which can cause abrasion of the power cord set. When put into use again, please make sure the power cord is not damaged. The absence of a light indication on the apparatus does not mean that it is fully disconnected from the mains. To disconnect the apparatus completely, the mains plug must be pulled out.
- Attention should be drawn to environmental aspects of battery disposal.
- No naked flame sources, such as lighted candles, should be placed on the apparatus.
-  To prevent the spread of fire, keep candles or other open flames away from this product at all times.
-  Equipment with this symbol is a Class II or double insulated electrical appliance. It has been designed in such a way that it does not require a safety connection to electrical earth.

#### Precautions

- Never try to open the device. It is dangerous to touch the inside of the device due to high voltages and possible electrical hazards. Opening the device will void the warranty of the product. Refer all maintenance or servicing to suitably qualified personnel.
- When you are connecting cables, be sure that the device is disconnected from the mains supply voltage. Wait a few seconds after switching off the device before you move the device or disconnect any equipment.
- It is a necessity that you only use an approved extension and compatible wiring that is suitable for the electrical power consumption of the installed equipment. Please ensure that the electrical power supply corresponds with the voltage on the electrical identification plate at the back of the device.

#### Operating Environment

- Do not install this equipment in a confined space such as a bookcase or similar unit.
- Do not use the set near damp, and cold areas, protect the set from overheating.
- Keep away from direct sunlight.
- Do not use the set near dust place.

- Do not place candles near the opening area, to avoid flammable foreign material from entering the device.,

### WEEE Directive



Correct Disposal of this product. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

## 1.2 Storage

Your device has been carefully checked and packed before shipping. When unpacking it, make sure that all the parts are included and keep the packaging away from children. We recommend that you keep the carton during the warranty period, to keep your device perfectly protected in the event of repair or warranty.

## 1.3 Equipment Set-up

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

- Refer to the user manual of your TV and your antenna.
- Make sure that the HDMI cable and outdoor components are in a good condition and the HDMI connections are well shielded and from good quality.

This user manual provides complete instructions for installing and using this receiver. The symbols serve as follows.

**WARNING**

Indicates warning information.

**NOTE**

Indicates any other additional important or helpful information.

**MENU**

Represents a button on the remote control or the receiver.

**(BOLD CHARACTERS)**

*Move to*

Represents a menu item within a screen. *(Italic characters)*

## 1.4 Accessories

- 1x user manual
- 1x remote control unit
- 2x 1,5 V batteries
- 1x power adapter 12 V, 1.5 A
- 1x HD+ smartcard

**Warning:**

The batteries should not be recharged, disassembled, electrically short-circuited, be mixed or used with other types of batteries. If rechargeable accumulators instead of batteries are going to be used, we recommend using (e.g. NiMH) types with low self-discharge to ensure long time operation of remote control.

**NOTE:**

For the appropriate usage with this device, use only power adapters as listed below (in case of a necessary exchange):

- Model: CH-AS120150E7xR; Manufacturer: Sichuan Changhong Electronic Component Co., Ltd.
- Model: TB-AS120150E6xR; Manufacturer: Ten Pao Electronics (Huizhou) Co., Ltd.
- Model: CY-AS120150E5xR; Manufacturer: Jiangsu Chenyang Electron Co., Ltd.

The usage of other power adapters may cause damage to the device. Such damage is not covered under warranty.

## 1.5 Usage of external USB devices

- It is recommended to use USB 2.0 storage devices. If your device is not compatible to USB 2.0 specifications, the playback with your receiver might not work properly.



- If you are going to use external USB HDD (Hard Disk Drive) please consider that the power specifications might exceed the supported output of your receiver (5 V/800 mA). If so, please connect your USB HDD to an according external power adapter.
- STRONG cannot guarantee compatibility with all types of USB storage devices.
- It is advised not to store important information on USB storage devices used with the receiver. Always make backups of data on your USB storage device before using it with this receiver. STRONG will not take responsibility for any loss of information or circumstances caused by loss of information.
- Please ensure that either the USB device is already formatted to NTFS or FAT32 or format the USB device via your receiver. Formatting requires entering the PIN code (default 0000)
- STRONG cannot guarantee the playback of all files although extensions are listed, as it depends on file size, codec, bit rate and resolution.

## 2.0 YOUR RECEIVER

### 2.1 DEFAULT PIN-CODE: 0000


#### 2.2 Front Panel

- |                       |  |               |
|-----------------------|--|---------------|
| 1. Power button       | Switch the receiver to Standby or On                                     | <i>Fig. 1</i> |
| 2. P-/P+:             | To change channels without using the remote control                      |               |
| 3. LED Display        | Displays channel number, time, videotext page or recording modes         |               |
| 4. Standby indicator: | Shows power state of the receiver: Red LED - receiver is in standby mode |               |
| 5. USB                | To connect your USB storage device                                       |               |





#### 2.3 Side Panel

- |                    |   |               |
|--------------------|---|---------------|
| 1. Smart card slot | To insert your HD+ smart card with the golden chip facing down. | <i>Fig. 2</i> |
|--------------------|---|---------------|

#### 2.4 Rear Panel

- |                   |  |               |
|-------------------|--|---------------|
| 1. SAT IN         | To connect to the LNB of your satellite antenna for reception of satellite broadcast signal  | <i>Fig. 3</i> |
| 2. S/PDIF (coax.) | To connect to a digital amplifier or home theatre using a coaxial cable  |               |
| 3. HDMI           | To connect to the HDMI input of your TV set using a good quality HDMI cable  |               |
| 4. TV SCART       | To connect to TV using a SCART cable   |               |
| 5. Ethernet       | To connect to a network switch, router or modem  |               |
| 6. DC POWER       | To connect to the original included main power adapter (Input ~230 V 50~60 Hz/ Output 12 V, 1.5 A DC  ) |               |

#### 2.5 Remote Control

- |  |   |               |
|--|---|---------------|
| 1.  | Turns the receiver ON/Standby   | <i>Fig. 4</i> |
| 2.  | To turn the sound on or off   |               |
| 3. 0~9   | Channel number and numeric value input  |               |
| 4. TV/R  | Toggles between TV and radio mode   |               |
| 5.  | No function   |               |
| 6. FAV   | To access your favourite channels. Toggles between available favourite groups             |               |
| 7.  | To switch between the last viewed channels  |               |
| 8. AUDIO   | Displays the audio selection menu with selections for available languages and audio modes |               |

9. INFO	Press to display channel number/name and current/coming information. Press twice to display detailed event information.
10. EPG	Viewing mode: Displays the EPG (Electronic Program Guide)
11. ▲▼	Switches to the next/previous channel in viewing mode, switches to the next/previous page in channel list or moving the highlight up/down in the menu
12. OK	Viewing mode: Displays the channel list. Menu: activation of the highlighted item
13. ◀▶	Decreasing/increasing the volume level in viewing mode/navigating through the menus/changing values of settings in a menu
14. MENU	To open the main menu in viewing mode or to go one step back in the menu
15. ⏪	Cancellation of current process/exit from main menu to viewing mode
16. VOL+/-	Increases/decreases the volume level in TV mode
17. P+/P-	Jumps 10 places up or down in channel list or any other list.
18. LIST	Displays the channel list.
19. CH+/-	Channel up/down
20. OPT	Quick Screen setting
21. TEXT	To open Teletext if available on the current channel.
22. SUB	To select subtitles language out of available ones on the current channel
23. ✉	Mail list
24.-31.	No function
25.	Stops playback of multimedia files
26. RED	Flexible functions in OSD menu and Teletext.
27. GREEN	Flexible functions in OSD menu and Teletext.
28. YELLOW	Changes the picture resolution in viewing mode. Flexible functions in OSD menu and Teletext.
29. BLUE	Changes the picture Aspect Ratio in viewing mode. In viewing mode: displays the schedule menu for easy setup timers; Flexible functions in OSD menu and Teletext.

## 2.6 Installing the batteries

*Fig. 5*

Remove the battery cover from the remote control and put 2x AAA size batteries inside the compartment.

The diagram inside the battery compartment shows the correct way to install the batteries.

1. Open the cover
2. Install batteries
3. Close the cover

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

## 2.7 Using the remote control

*Fig. 6*

To use the remote control, point it towards the front of the digital receiver. The remote control has a range of up to 7 metres from the receiver, if properly aligned towards the IR eye on the front panel. The remote control will not operate if its path is blocked.

**Note:** Sunlight or very bright light might decrease the sensitivity of the remote control.

## 3.0 CONNECTIONS

This section explains the most important functions to ensure that you can directly watch television with your new receiver. Please note additional adjustments may be required.

**Note:** Do not connect the receiver to the main power yet.

### 3.1 Connecting the Antenna and LNB (Low Noise Block) to the receiver

Connect the LNB of your satellite antenna to the SAT IN connector of your receiver using a good quality coaxial cable and suitable 'F-connector' plugs.

*Fig. 7*

#### 3.1.1 Connection of multiple fixed antennas via DiSEqC 1.0

*Fig. 7*

- Connect the LNBs of your fixed antenna to the inputs of a DiSEqC 1.0 switch using a good quality coaxial cable and suitable 'F-connectors'.
- Connect the output or "to receiver" of the DiSEqC 1.0 switch to the SAT IN connector on your receiver. Use good quality coaxial cable and suitable "F-connectors".
- Plug the power adapter jack to the receiver and the other end to a suitable wall outlet.

### 3.2 Connecting to digital audio amplifier

*Fig. 7*

Connect one end of a good quality coaxial audio cable to the S/PDIF output of your receiver and the other end to the coaxial audio input of your home theatre, amplifier or any other device supporting digital audio.

### 3.3 Basic connection using an HDMI cable

*Fig. 8*

- Connect the LNB of your satellite antenna to the SAT IN connector of your receiver using a good quality coaxial cable and suitable 'F-connector' plugs.
- Connect one end of a good quality HDMI cable to the HDMI output on your receiver and the other end to the HDMI input of your TV.
- Plug the power adapter to a suitable wall outlet.

### 3.4 Basic connection using a SCART cable

*Fig. 8*

- Connect the LNB of your satellite antenna to the SAT IN connector of your receiver using a good quality coax cable and suitable 'F-connector' plugs.
- Connect one end of a good quality Scart cable to the TV SCART connector on your receiver and the other end to the SCART input of your TV.
- Plug the power adapter to a suitable wall outlet.

### 3.5 Connecting to the Internet

*Fig.9*

The receiver connects to the Internet through the Internet router or DSL/cable modem in your home network. It connects to the home network over its Ethernet port.

Connect one end of the Ethernet cable to the receiver and the other end to the LAN port at the router or DSL/cable modem.

### 3.6 Connection to main power supply

*Fig. 9*

After all the connections are done you can connect your receiver to power using the supplied external AC/DC adapter. Now plug the adapter into the wall socket.

## 4.0 STARTING UP FOR THE FIRST TIME

Once you properly installed and connected all cables of the receiver, setup your receiver step by step by *First Time Installation* procedure.

It will guide you through the basic installation and channel searching process.

### 4.1 Language selection

Select your preferred language for the on-screen menu.

Use ▲▼ to change language and press OK to confirm your selection.

### 4.2 Antenna Settings

#### 4.2.1 Satellite selection

To set up the receiver for the type of connected antenna, follow the instructions below.

You have technical possibility to configure your receiver to get signal from up to 4 satellites. Select LNB to set specific satellite or leave it unassigned. Select the satellites you wish to receive with the receiver. Each of the satellites in the built-in satellite list is configured with predefined default parameters. You could use **RED** button to perform Dish setting for selected satellite, **Q** button to return to previous step and **GREEN** button to continue (refer chapter 4.3 *Channel Search*). In case you use just Astra 19.2E satellite, you could skip this step and also press **GREEN** button.

**LNB 1** Select **Astra 19.2E** or **Astra 23.5E** satellite. Default value for LNB1 is **Astra 19.2E**.

**LNB 2 – 4** Select from the list additional satellites from which you wish to view channels with your receiver. Default value for LNB2 is **Hotbird 13E**. Default value for LNB3 and LNB4 is **Not assigned**.

#### 4.2.2 Dish Setting

**Satellite** Get information about your satellite setting. It cannot be changed.

**LNB Power** Select **On** to supply powering for selected LNB or **Off** to switch it off.

**LNB Type** Select **Universal** for most standard LNBs or **SatCR** if you have a SatCR LNB or multiswitch. You can set another LNB type, using **User defined** parameter.

**LNB Freq (Low/High)** The LOF (Local Oscillator Frequency) of the LNB is usually printed on the LNB itself or in its documentation. You can set the High and Low LOF frequencies to match the LNB here.

**22KHz Tone** The receiver uses 0 or 22 kHz signal to control the band of the LNB.

**DiSeqC1.0** Get information about the selected satellite LNB.

**Tone Burst** Get information about the provided tone burst control for satellite switch.

**Transponder** This option allows you to set the transponder which is used as a reference for the satellite signal strength.

#### *Signal Strength and Signal Quality bars*

In two level bar meters, on the bottom of the screen, you can see the strength and quality of the signal coming from the antenna dish to the tuners. These two meters can be used while doing a fine-tuning of the antenna position. The antenna has to be adjusted to maximum possible signal strength and signal quality.

### 4.3 Channel Search

In order to view video programmes, you must do a channel search with or without smartcard in order to install the channel list of your choice.

For HD+ channels, first insert HD+ smartcard at the right-hand side of the receiver before you start the channel search. Then the receiver will install the associated channel list of the HD+ bouquet (FTA and encrypted).

For FTA only channels or for channels from other satellites you do not need to insert a HD+ smartcard.

Select the search scheme you wish the wizard to follow:

1. Select **HD+ channels** to search for channels of the HD+ bouquet (channels 100 and above).

2. Select **Preinstalled channels** to restore a predefined German channel list from the receiver's memory (channels 1~99).
3. Select **Advanced channel search** to search for channels on all transponders for the selected satellite (channels above the HD+ bouquet).

### Finding and storing the channels

Select preferred option or press the **GREEN** button on the remote control to start the channel search. Once a channel search has started, a progress bar and list of channels will be displayed. At any time, you may stop the search by pressing **⏏** on the remote control. After the channel search is completed, the receiver will save all found channels into the channel list and exit to the preview mode.

**Note:** If you see the messages **No list found** or {No channels found, please check the antenna connections and signal levels of the satellite dish.

## 5.0 QUICK GUIDE FOR USING YOUR RECEIVER

We at STRONG understand that you can't wait to enjoy your new HD+ receiver.

However, we advise you to read this manual to get the best performance from your THOMSON HD+ receiver. To turn your receiver **ON** or to go to Standby mode, press **⏻** on the remote control. Choose channels with **CH+/-** or **▲▼**. Alternatively, you can also enter the channel number with the **0~9** buttons on the remote control or press **OK** in viewing mode to display the channel list. The volume can be adjusted with **VOL+/-** or with **◀▶**.

## 6.0 OPERATION

In viewing mode, several features are available to make watching TV a true pleasure. This paragraph describes these features. Please also read chapter 7 to get familiar with the menu of your new HD+ receiver.

### 6.1 Selecting channels

There are different ways to change channels with your receiver.

- Via direct access
- Via the channel list
- Via the **CH+/-** or **▲▼** buttons
- Via the **⏻** button

#### 6.1.1 Direct access

To gain direct access to a certain channel simply enter its number with the **0~9** keys on the remote control. Channel numbers can be up to 4 digits long. Entering numbers and values with less than 4 digits is possible. Just wait a few seconds and your receiver will switch to the selected channel.

#### 6.1.2 Channel list

Press **OK** or the **LIST** button in viewing mode to display the channel list.

Use **▲▼** to highlight your channel of choice and press **OK** to select the highlighted channel for preview. Use the **FAV** button to get access to a group of favourite lists. Press **OK** to select only channels from a particular list. Refer to chapter **7.1.1 TV Manager** to organize channels into favourite lists.

Use the **RED** button to get access to group of satellites, which channels were stored to receiver during installation procedure. Press **OK** to select only channels from particular satellite. Refer chapter **7.5.1 Dish Setting** to add more satellites for scanning.

The channel list is equipped with a **Filter** function to make it easier to find channels. Use **GREEN** button to get access to TV Program List filter. There are 4 options to help to find channel. Use **▲▼** to select option. Use **◀▶** to switch between **Filter** option, **Group** parameter and **Channel** list.

Use **OK** to confirm selection.

**ALL** for sequential search through complete list of all channels, which are stored in your receiver from all satellites.

<b>A-Z</b>	to search for the channel from the list in alphabetical order. In <b>Group</b> parameter define first letter of channel name. At right side on screen you will see only channels, which name starting from selected letter.
<b>FAV</b>	to search for the channel within your favourite lists.
<b>SAT</b>	to search for the channel by satellites, which channels were stored to receiver.
<b>Note:</b>	The bottom row on the screen provides technical information of the selected channel.

### 6.1.3 Using the CH+/- or ▲▼ buttons

CH+ or ▲ will switch to a higher channel.  
CH- or ▼ will switch a lower channel.

### 6.1.4 Using the ⏪ button

Use the ⏪ button to return to the last viewed channel.

## 6.2 Volume Control

The volume control allows you to adjust the audio volume. Press **VOL+/-** or ◀▶ button to adjust the audio volume. Press the 🔇 button to temporarily mute audio. Press it again to come back to normal volume.

**Note:** The 🔇 function remains set while you switch channels.

## 6.3 Programme Information (Info banner)

Programme information is always displayed for a certain period of time whenever you switch channels.

You can also view the programme information by pressing the **INFO** button while watching a programme.

Press ⏮ to hide the info banner.

Info banner:

- Indicates channel number and name
- Indicates current time and date
- Informs about current programme name
- Indicates name and schedule of the next programme
- Displays satellite signal strength and quality bars
- Provides programme encryption information
- Provides video and audio parameters for broadcasted programme
- Provides subtitle and teletext information (displayed if available with the programme broadcast).

Use the ▲▼ buttons of the remote control to switch channels.

Use the ◀▶ buttons of the remote control to scroll information through previous/next channel information for current time.

### 6.3.1 Extended information panel

To access the extended information, press **INFO** button:

- once during presence of the information banner on screen
- twice in viewing mode.

The details of the current programme information (name and description of the current programme) will be provided in an additional window\*. If the programme description does not fit in the display area, you can use ▲▼ to scroll through this information. To view information about the next programme, use ◀▶ or press **INFO**. Press ⏮ to close extended information panel.

**Note:** You can change the on-screen duration of the info banner in the **Output Settings** menu. Please refer to section 7.2.2 for more details.

\* Information will be displayed if available. Availability depends on the broadcaster.

## 6.4 Selecting audio language

Some channels support a choice of audio formats and/or languages.

Press **AUDIO** in viewing mode to display a list of available audio languages.

Use **▲▼** to highlight the language of choice and press **OK** to confirm.

With **◀▶** you can additionally select audio mode of *Stereo* (for stereo sound), *Mix* (both speakers will produce same mixed from both channels sound) and *Left* or *Right* (both speakers will produce sound respectively from left or right sound channel).

## 6.5 Selecting subtitle language

Press **SUB** in viewing mode to display a list of available subtitle languages. Use **▲▼** to select the subtitle language and press **OK** to confirm. Additionally you can adjust your preferred subtitle language as described in chapter 7.2.1.

**Note:** Please consider that this function supports DVB and TXT subtitles and this selection only displays them temporarily. Subtitles may not be supported by every channel or broadcaster.

## 6.6 Viewing the teletext

To access the teletext, press the **TEXT** button in viewing mode. Use **0~9** or **▲▼** buttons to select the number of the page you wish to see. Subpages (if loaded and available) can be selected with the **◀▶** buttons. Press **↶** to go back to viewing mode.

## 6.7 Quick changing of Screen settings

To quickly change parameters of screen setting, press the **OPT** button in viewing mode.

It is possible to change *HDMI Resolution*, *Aspect Ratio* and *Aspect Conversion*.

### 6.7.1 Changing HDMI Resolution

Use **◀▶** buttons to pick the resolution of the HDMI output: *Auto*, *576i*, *576p*, *720p*, *1080i* and *1080p*. Please refer to section 7.2.2 *Output Settings* of the menu description for more details.

### 6.7.2 Changing the Aspect Ratio

Use **◀▶** buttons to select the aspect ratio of your TV screen and choose between *16:9* and *4:3*. Please refer to section 7.2.2 *Output Settings* of menu description for more details.

### 6.7.3 Changing the Aspect Conversion

Use **◀▶** buttons to select Aspect Conversion of picture on your TV screen between *Pan&Scan*, *Letterbox*, *Combined* and *Ignore*. Please refer to section 7.2.2 *Output Settings* of the menu description for more details.

## 6.8 Electronic Programme Guide (EPG)


The Electronic Program Guide is a very useful function that allows you to watch program schedules and information on screen and not to miss any important event by setting Timer for it.

Press **EPG** button to activate this guide (you can also enter EPG through the menu). Use **▲▼** to select a channel. Use **◀▶** to scroll through programmes on selected channel to display programme information on the screen or to book timer for it. Press **BLUE** or **YELLOW** buttons to scroll through programmes to display programme information for the next/previous 6 hours. Press **GREEN** button to return to actual time EPG screen. Press **INFO** button to display detailed information for selected program. Press **RED** button to book the selected programme (timer will be set for this event). To view the booked events and timers press **LIST** button. Use **OK** button to switch to the selected channel to live program. Use **⏪** button to return to previous step. Press **↶** to go back to viewing mode.

**Note:** Availability of EPG data depends on broadcaster.

## 6.8.1 Booking a programme from EPG

Select a programme as described above. Press **RED** button.

Selected programme will be booked. Next to the programme name the  symbol will appear and the programme description will contain the text "Booked". To cancel programme booking just press the **RED** button again. You can also make a correction of the booking event via Timer list. Please refer to section **Timer7.2.5** for more details.

## 6.9 Favourite channels

Use the **FAV** button to access your favourite channel groups. Using **▲▼** select created earlier one of available favourite groups and press **OK** or **◀** to switch to channel list within selected group. Use **▲▼** to select channel and press **OK** to start viewing it. Now you will navigate (switch channels with **CH+/-** or **▲▼** buttons) only within this group. To get access to channel outside this group you could use direct access (enter channel number with **0~9** keys) or switch to another favourite group with **FAV** or **OK** button. Select **View List** in list of favourite channel groups to return to full channel list. Please refer to section **7.1.1** for details on how to manage favourite lists.

## 7.0 MAIN MENU

To enter the main menu, press **MENU** on your remote control. In the main menu you can manage channels, timers, specific receiver settings, get access to internet functions and receive useful information about the receiver, programmes, operator messages, etc.

The main menu contains the following chapters: *Channel*, *Settings*, *Network* and *Installation*.

By entering the menu and pressing **MENU** or **⏏** buttons, you will level up within the menu or close it.

By pressing the **⏏** button you will exit the menu.

### 7.1 Channel

Use **◀▶** to access the menu *Channel*, which includes the following submenus: *TV Manager*, *Radio Manager* and *Electronic Program Guide*. Use **▲▼** to select the submenu and press **OK**.

#### 7.1.1 TV Manager

To edit your channel list *Favourite*, *Delete*, *Lock* or *Move*, use **▲▼** to select *Operation* and afterwards press **OK** to start it. If the *Programme Lock* field of the *PIN-Code Management* menu is activated, you will be asked to enter a PIN code to continue. Refer to chapter **7.2.3** for more details.

Use the **⏏** button to return to the previous step. Press **⏏** to exit the menu and to go back to the viewing mode.

#### Manage your favourites

Your receiver allows you to organize channels in up to 6 favourite lists. Due to the large number of channels available on satellite nowadays, this can be a very useful function.

1. With **▲▼** select *Favourite* from the *Operation* list (left column) and press **OK**. In the *Favourite* group you will see the available favourite lists *FAV1*, *FAV2*, ... *FAV6*. You can rename any group as you wish by pressing the **RED** button and using the virtual on-screen keyboard. Please consider to obtain the information, provided on screen.
2. With **▲▼** select your favourite list and press **OK** to manage it. You will be switched to full *Channel list* (central column). Use **▲▼** to select a channel and **OK** to add it to your *Favourite* list and to the selected list (right column).
3. If you want to remove a channel from your *Favourite* list, press the **▶** button to switch to the list. With **▲▼** select the required channel and press **OK** to remove it.
4. With **◀▶** you can switch between groups and fields. Repeat previous steps to add or remove more programmes to other favourite lists.
5. Press **⏏** or **⏏** to confirm or cancel your changes and exit from the management of your favourite lists.

#### Deleting of TV programmes

1. By pressing **▲▼** select *Delete* from the *Operation* list (left column) and press **OK**.



2. You will be switched to the full **Channel list** (central column). Use the ▲▼ buttons to select a channel and **OK** to mark it for deletion. This will add it to your **Selected** list (right column).
3. If you do not want to delete any selected channels, you can remove them from the **Selected** list. Press the ► button to switch to the list. With ▲▼ select the required channel and press **OK** to remove it.
4. Press **⏻** or **⏹** to confirm or cancel your changes and exit the deleting mode.

### Locking TV programmes

You can lock selected programmes for restricted view.

1. With ▲▼ select **Lock** from the **Operation** list (left column) and press **OK**.
2. You will be switched to the full **Channel list** (central column). Use ▲▼ to select a channel and **OK** to mark it for locking. This will add it to the **Selected** list (right column).
3. If you do not want to lock any selected channels, you can remove them from the **Selected** list. Press the ► button to switch to the list. With ▲▼ select the required channel and press **OK** to remove it.
4. Press **⏻** or **⏹** to confirm or cancel your changes and exit from the locking mode.

To view the locked programme, you need to enter a PIN code. We recommend you to change the default PIN code and enter a new PIN code. Refer to chapter 7.2.3 for more details.

### Moving TV programmes

1. With ▲▼ select **Move** from the **Operation** list (left column) and press **OK**.
2. You will be switched to the full **Channel list** (central column). Use ▲▼ to select a channel.
3. Press the **RED** button to specify a new channel number or **OK** to add a channel in the **Selected** list (right column) for moving it later.
4. Repeat the previous step to add more channels to a new position within the **Selected** list.
5. Press the ► button to switch to the **Selected** list.
6. With ▲▼ select the required channel and press the **RED** button to define a new channel number in the channel list (enter the new channel number with 0~9 keys).
7. Repeat the previous step to specify numbers for each selected channel you want to move or press **OK** to remove it from the list (channel will not change its number).
8. Press **⏻** or **⏹** to confirm or cancel any changes and exit the locking mode.

### 7.1.2 Radio Manager

In the **Radio Manager** menu you can do the same operations which were done in chapter 7.1.1 TV Manager.

### 7.1.3 Electronic Program Guide (EPG)

Please refer to section 6.8 above.

## 7.2 Settings

Use ◀▶ to access the menu **Settings**, which includes the following submenus: **Language**, **Output Settings**, **PIN code management**, **Time settings**, **Timer** and **Software Update (OTA)**. Use ▲▼ to select the submenu and press **OK**. Use ◀▶ to change the value or **OK** to select it from the list. Use the ⏻ button to return to the previous step. Press ⏹ to exit the menu and to go back to the viewing mode.

### 7.2.1 Language

**OSD Language:**

Select the preferred language for the on-screen display.

**1st Audio Language:**

Select the preferred audio language for watching TV channels. This setting allows you to define the default audio track or language.

Digital TV allows the operator to transmit more than one audio track or language. If a channel has multiple audio tracks or languages, the receiver will select the suitable audio track automatically according to your selection. In the viewing mode you can change this selection to a more suitable variation, as described in chapter 6.4.

If the language is not available, the default programme language will be used.

**2nd Audio Language:** The receiver will use this language if the first language selection is not available

**Subtitle Type:** Choose your preferred subtitle type between *Normal* and *Hard of hearing*.

**Subtitle Display:** Set to **On** to enable the display of subtitles, to disable set to **Off**.

**1st Subtitle Language:** Select the preferred subtitle language for watching TV channels. This setting allows you to define the default subtitle language. Digital TV allows the operator to transfer subtitles in one or more languages. In the viewing mode you can change this selection to a more suitable variation, as described in chapter 6.5. If the language is not available, the default language will be set.

**2nd Subtitle Language:** The receiver will use this language if the first subtitle selection is not available.

## 7.2.2 Output Settings

This submenu allows you to set the output parameters of the receiver according to a connected TV set and to the audio amplifier (if applicable).

**HDMI Resolution:** Select the screen resolution according to the characteristics and supported modes of your TV set. Available options: *576i*, *576p*, *720p*, *1080i* and *1080p*.

**Note:** Experiment with the settings to find the options that suit the best for you. You can change the parameters of the viewing mode by pressing **OPT**.

**Note:** Do not forget about the possibility to control the screen format from the menu of your TV (depending on your TV device).

**Aspect Ratio:** Select an aspect ratio depending on your TV set screen format. Available options: *4:3* or *16:9*.

**Aspect Conversion:** Change the aspect conversion. Available options: *Pan&Scan*, *LetterBox*, *Combined* and *Ignore*.

**Note:** If the receiver is connected to a TV with 4:3 aspect ratio, the most recommended mode is *LetterBox*. In this mode the video in 4:3 format will not be converted and the 16:9 format will be converted to display in full size and without geometric transformations (displays full screen width and top and bottom of the screen shows black horizontal bars).

Other options available for conversion of 16:9 video format:

**4:3 TV Pan&Scan** Displays full screen and high size, but the left and right sides of the screen are cut.

**Combined** Cuts left and right sides of screen to a minor extent and displays black horizontal bars at upper and lower parts.

**SCART Output:** This setting is only relevant when the receiver is connected to the TV set via SCART. Select *RGB* for the best picture quality or *CVBS* if your TV does not support *RGB*.

**HDCP:** Available options: **On** or **Off**, please see the note below.

**Note:** HDCP (High Definition Content Protection) is set to **On** to default as nowadays all TV sets with an HDMI connector support HDCP. If you face problems with the HDMI connection, you can deactivate HDCP, which allows watching via HDMI without problems. Please consider that movies which are broadcasted with an extra content protection might not be shown when HDCP is set to **Off**.

<b>HDMI Audio Output:</b>	Adjust this setting in accordance to the connected audio equipment. Set to <b>Auto</b> for the most common connections. Set the <b>BitStream</b> option to bypass original audio bitstream through HDMI to a connected audio equipment which can decode complex digital audio formats. Set the <b>PCM</b> option to convert complex digital audio formats supported by the receiver to STEREO audio and pass it to the HDMI output.
<b>SPDIF Audio Output:</b>	Adjust this setting in accordance to the connected audio equipment. Set the <b>BitStream</b> option to bypass original audio bitstream through S/PDIF to a connected audio equipment that can decode complex digital audio formats. Set the <b>PCM</b> option to convert complex digital audio formats supported by the receiver to STEREO audio and pass it to the S/PDIF output.
<b>OSD Transparency:</b>	Define the transparency of menus and other system information windows. Available options: <b>Not transparent, 10, 20, ... 50.</b>
<b>Banner Time Out:</b>	Define the duration of the info banner display in the viewing mode. Available options: <b>3 Seconds, 5 Seconds, 7 Seconds</b> and <b>10 Seconds.</b>
<b>Audio Description:</b>	Set this function to <b>On</b> if you want to enable the playback of the audio description: a narrator will describe what is happening on the screen for blind or visually impaired viewers
<b>AD Volume Offset:</b>	Define the difference between the normal TV broadcast sound and the Audio description volume.

### 7.2.3 PIN Code Management

This submenu allows you to control the blocking of certain programmes from unrestricted viewing, access to certain menu options and usage of the EPG based on parental rating system if supported by the local broadcast. Before entering this submenu, you have to enter the correct PIN code. The default value is 0000.

<b>Programme Lock:</b>	Select <b>Off</b> or <b>On</b> . The default value is <b>Off</b> . If you select <b>On</b> , you cannot view the locked channel in the <b>TV Manager</b> submenu without the correct password.
<b>Programme Lock age:</b>	Activates the parental control rate setting. Available options: <b>All Blocked, 4 years old, 5 years old, ..., 18 years old, Disable</b> (default value).

**Note:** The correct functionality highly depends on the information from the operator. It is recommended to set this parameter to the age of the youngest child who has access to television with this receiver. Whenever zapping through channels which submit EPG based on parental rate system and if the rate of current broadcasts is higher than the adjusted rate, it requires the PIN code for viewing.

<b>Smartcard PIN code change:</b>	To change the PIN code of your smartcard. This function is only available while the smartcard is inserted.
<b>STB PIN code change:</b>	To change the PIN code of your receiver.

**Note:** To change the PIN code, you have to know the previous PIN code. Then you can enter and confirm the new PIN code.

**Warning:** You only have 3 (!) attempts to enter the correct active PIN code. If you exceed this quantity, you have to contact your operator for help.

### 7.2.4 Time Setting

This submenu provides options to adjust the time and date settings.

<b>GMT Offset:</b>	Select the offset from GMT standard time. Set to <b>Auto</b> to adjust it automatically.
<b>Summer Time:</b>	Enable/disable the summer daylight saving time offset. Select <b>On</b> or <b>Off</b> depending on the season. The parameter can only be changed if <b>GMT Offset</b> is not set to <b>Auto</b> .
<b>Date:</b>	Set the current date.
<b>Time:</b>	Set the current time.
<b>Standby time display:</b>	Show the current time on the STB's LED display in Standby mode.
<b>Auto Standby After</b>	Define the period of time of the receiver automatically switching to Standby mode if no commands have been received from the remote control. Available options: <b>Disable</b> , <b>1 Hour</b> , <b>2 Hours</b> , <b>3 Hours</b> (default value),..., <b>12 Hours</b> .

## 7.2.5 Timer

This submenu allows you to automatically switch to the defined channels at a particular date and time and to turn the receiver **ON** and **OFF** based on scheduled events. Timers can be set via the EPG (recommended and most convenient). Please refer to section 6.8 above for more details. However, you can set timers manually in this submenu. In the submenu **Timer** a summary of all timers will be displayed: **Number**, **Channel Name**, **Date**, **Starting time**, **Duration** and Timer status).

Use ▲▼ to select a timer, press **OK** to book a new timer or to edit an existing one.

<b>Timer Status:</b>	If no timer was booked yet, this parameter is set to <b>Off</b> Option <b>Once</b> means that the timer will be executed once, after it will be removed from the timer list. Option <b>Monday-Friday</b> – the timer will run each working day of the week at a specified time (Start Time field). Option <b>Daily</b> – the timer will run every day at a specified time (Start Time field). Option <b>Weekly</b> – the timer will run every week at a specified week day (Day field) and at a specified time (Time field).
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<b>Timer Action:</b>	Select a type of event to happen during timer activation. The only available option is <b>Timer</b> which means that the timer will inform you about an upcoming event and switch to the specified channel. Other options will be available later.
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<b>Channel:</b>	Press <b>OK</b> to access the channel list, use ▲▼ to select a channel and press <b>OK</b> to confirm. The name of this channel will appear in the option field.
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<b>Start Date:</b>	Enter the date of the timer start. Date format <b>dd.mm.yyyy</b> .
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<b>Start Time:</b>	Enter the time of the timer activation. Time format <b>hh:mm</b> .
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<b>Duration:</b>	Enter the time interval of the timer activation. Time format <b>hh:mm</b> .
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<b>Save:</b>	Save your timer settings and press <b>OK</b> to activate the timer.
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## 7.2.6 Software Update (OTA)

Your receiver can update the software via digital broadcast.

You can find out via your local support or dealer whether there is a new software version broadcasted.

If a new software is available, enter this submenu to check for the new version and to start the updating procedure from the broadcasting signal.

**Note:** If the operator forces the software update procedure while you are watching TV or radio channels, the receiver can automatically switch to update mode.

During software update procedure the receiver will enter the update mode and will show the **Software update** screen, which contains information about your current and new software versions and further reference details. During update procedure the progress bar will inform you about the remaining time. After finishing the software update, the receiver will reboot automatically and tune to the last viewed channel.

**Warning:**

- Do not take any action during the update procedure, if the receiver has not restarted yet or if an error message appears.
- Do not disconnect the receiver from the mains nor switch off until the software update has been completed.

**7.3 Network**

Use ◀▶ to access the menu *Network*, which includes the following submenus: *RSS*, *Weather* and *Ethernet Config*. Use ▲▼ to select the submenu and press OK.

**Note:**

Before you use the network functions of your receiver, please ensure that it is connected to the Internet. Refer to chapter 3.5 above for more details. Usually the Internet connection can be established without any problems. Check the status of your connection in the *Ethernet Config* submenu. The *Cable status* field should indicate *Plug In* and the receiver must obtain a valid IP address.

**7.3.1 RSS (Really Simple Syndication)**

This submenu allows you to select the link of RSS news from different sources or to add your own link. Use ▲▼ to highlight a link of your choice and press OK to open it. You can delete (pressing RED), add a new feed (pressing GREEN) and edit an existing RSS feed (pressing the YELLOW) of your own choice. Use the virtual on-screen keyboard to enter any text characters. Please consider to obtain further information displayed on your screen. To confirm new RSS feeds or to save changes, select *Save* and press OK. Use the ↻ button to return to the previous step. Press ↵ to exit the menu and to go back to the viewing mode.

**7.3.2 Weather**

This submenu allows you to watch the weather in your region. Information about current weather conditions and forecasts will be provided on your screen. You can refresh the information about weather conditions (RED), change the location (GREEN) or select a city from the list (YELLOW). Use the virtual on-screen keyboard to enter text characters. Please consider the information provided on your screen. To confirm the location/city, select *Save* and press OK. To change the standard temperature from Celsius to Fahrenheit and vice versa press the BLUE button. Use the ↻ button to return to the previous step. Press ↵ to exit the menu and to go back to the viewing mode.

**7.3.3 Ethernet Config**

This submenu allows you to setup or check the Internet connection.

The default selection for *DHCP* field is *On*. Normally all settings and connection are done automatically. To test if the Internet connection works, select *SET* field and press OK. If successful, on-screen messages will confirm and you can start using it. Otherwise please check your cable and router. You can set the *DHCP* field to *Off* and define all required IP addresses manually using the 0~9 keys. To save all new address definitions, please select the *SET* field and press OK.

**7.4 Installation**

Use ◀▶ to access the menu *Installation*, which includes the following submenus: *Dish Setting*, *Channel Search*, *Information*, *Factory Default* and *CA INFO*. Use ▲▼ to select the submenu and press OK.

**7.4.1 Dish Setting**

The dish setting procedure from the menu is almost the same, as it was described in the *First Time Installation* chapter 4.2.2. This section contains more detailed information of how to add or modify your antenna parameters. Use ▲▼ to select required parameters. Use ◀▶ to change option values or OK to select it from the list. Use the ↻ button to return to the previous step. Press ↵ to exit the menu and to go back to the viewing mode.

<b>Satellite:</b>	Select a satellite to be configured and scanned. Press <b>RED</b> to scan the selected satellite signal. A window with the scan progress will be appear.
<b>LNB Power:</b>	Set the LNB power <b>On</b> or <b>Off</b> .
<b>LNB Type:</b>	Select the LNB type. The <b>Universal</b> LNB (09750/10600 MHz) is supported and is the most common on the market. <b>SatCR</b> is used for SatCR systems. See information below for more details. It is possible to define the LNB type manually by selecting <b>User defined</b> .
<b>LNB Freq (Low/High):</b>	Set the frequency of the selected LNB type.
<b>22KHz Tone:</b>	Switch the 22KHz oscillator signal to <b>ON (22K)</b> or <b>OFF (0)</b> . Refer to information of Universal LNB.
<b>DiSEqC1.0:</b>	Select the correct port of the corresponding LNB. Available options: <b>Off, LNB 1, ..., LNB 4</b>
<b>Tone Burst:</b>	Set the tone control of your LNB. Available options: <b>Off, LNB 1, LNB 2</b>
<b>Transponder:</b>	Select one of the available transponders of the chosen satellites in order to check your reception or align the antenna. The <b>Signal Strength</b> and <b>Signal Quality</b> indicators on the 2nd half of the screen will help you to make sure that you get the signal with the selected parameters, as well as to adjust the antenna if necessary.

## SatCR

If a SatCR LNB is used, please refer to the manual of the respective LNB to obtain technical data on user bands numbers and corresponding frequencies.

**Note:** SatCR can only work in combination with an optional multi-output (max. 8) satellite splitter and a SatCR LNB, an example is STRONG type SRT L780 (max. 4 users).

**Note:** SatCR cannot be combined with any other DiSEqC function. SatCR systems are mainly installed by professional experts.

## 7.4.2 Channel Search

The channel search procedure from the menu is almost the same as described in **First Time Installation** chapter 4.3. This section contains more detailed information on how to add, modify or update your channel list. In order to view video programmes, you must do a channel search with or without smartcard in order to install the channel list of your choice. For HD+ channels, first insert HD+ smartcard at the side panel of the receiver before you start the channel search. Then the receiver will install the associated channel list of the HD+ bouquet (FTA and encrypted). For FTA channels only or for channels from other satellites you do not need to insert the HD+ smartcard.

Select the search scheme you wish the wizard to follow:

1. Select **HD+ channels** to search for channels of the HD+ bouquet (channels numbered 100 and above).
2. Select **Preinstalled channels** to restore a predefined German channel list from the receiver's memory (channels numbered 1~99).
3. Select **Advanced channel search** to search for channels on all/selected transponders for the selected satellite (channels numbered above HD+ bouquet numbers).

Use the **▲▼** buttons to select the required search scheme. Use the **◀▶** buttons when you want to change the value or press **OK** to select it from the list. Use **GREEN** to perform an HD+ channel update. Use **RED** to restore the original HD+ channel list.

Use the **⏪** button to return to the previous step. Press **⏩** to exit the menu and to go back to the viewing mode.

**Note:** If the messages *No list found* or *No channels found* are displayed, please check the antenna connections, select correct satellite and check signal level and other parameters from the satellite dish for selected satellites, as described in chapter 7.5.1.

### Advanced channel search

<b>Satellite:</b>	Select a satellite to be configured and scanned.
<b>Transponder:</b>	Select the transponder you want to scan from the list of existing transponders. Press <b>RED</b> to edit the parameters of the selected transponder. Press <b>GREEN</b> to add a new transponder. Press <b>YELLOW</b> to delete the selected transponder (required confirmation).
<b>Frequency:</b>	Get information about the transponder frequency.
<b>Symbol:</b>	Get information about the symbol rate of the selected transponder.
<b>Polarization:</b>	Get information about the polarization of the selected transponder.
<b>Search Mode:</b>	Select the channels that shall be installed. Available options: <i>Free</i> , <i>Scrambled</i> or <i>All</i> .
<b>Channel Type:</b>	Select the type of channels that shall be installed. Available options: <i>TV</i> , <i>Radio</i> or <i>TV&amp;Radio</i> .
<b>Search on:</b>	Select where to search for new channels. Available options: <i>One Transponder</i> , <i>One Satellite</i> or <i>Selected Satellites</i> .

The *Signal Strength* and *Signal Quality* indicators on the 2nd half of the screen will help you to make sure that you get the signal with the selected parameters, as well as to adjust the antenna if necessary. After configuring, press **RED** to start the scanning with the selected settings.

Your receiver will now perform an automatic channel search. The scanning progress is displayed. During the channel search you can skip transponders by pressing the **MENU** button or quit the scanning process by pressing **↵** (required confirmation).

By the time the process is completed, all listed channels will be stored and the receiver will switch to the first channel.

### 7.4.3 Information

This submenu shows all receiver related information e.g. hardware and software version. It also displays technical information from the currently selected channel, signal strength and signal quality. Please refer to the information given on screen when you call a hotline support. The support center employee might ask for the information given on screen.

### 7.4.4 Factory Default

This submenu allows you to reset your receiver to the default factory settings. You will be asked to enter the PIN code (default PIN code is **0000**). Select *Factory Reset* to delete all settings and channels. Press **OK** to confirm. Select *Channel Reset* to delete all channels. Press **OK** to confirm. All previous settings will not be changed. The receiver will reboot and start with the *FirstInstallation* menu.

**Warning:** A factory reset will permanently delete all your personal settings, timers and stored channels. Please consider this before you perform a factory reset. Please use this option with caution.

### 7.4.5 CA INFO



#### Smartcard Information





This menu section is only accessible when an HD+ smartcard is inserted into the receiver. It provides information about the HD+ smartcard. Please consult your installer or card provider for information regarding the usage of your HD+ smartcard.

**Note:** Always make sure to insert the smartcard with the golden chip facing down.

## Mail List

This submenu allows you to read messages from the operator.

**NOTE:** Messages from the operator will be displayed at the upper left corner of the TV screen, showing the  icon. Press  on the remote control or open the submenu to read the message.

Use the   buttons to select the message and press **OK** to open and read it. Press **RED** to delete all messages from the list. Press **GREEN** to move up one page in the list. Press **YELLOW** to move down one page in the list. Press **BLUE** to delete the selected message. Press  button to return to previous step. Press  to exit the menu and go back to viewing mode.

## 8.0 TROUBLESHOOTING

There may be various reasons for faulty operation of the receiver. Please check the receiver according to the procedures shown below. If the receiver does not work properly after checking it, please contact your local service line or THOMSON dealer. Alternatively you can send a support e-mail via our website: [www.thomsonstb.net](http://www.thomsonstb.net).

NEVER open or disassemble your receiver. This may cause a dangerous situation and will void the warranty.

Symptom	Cause	Remedy
The standby indicator does not light up	The mains lead is unplugged/the multipoint connector is switched off.	Check the mains lead/ switch the multipoint connector on.
There is no image, no sound, no display	There is no power supply	Check the connection cables
	There is a short circuit in coaxial cable	Disconnect device from mains power supply, eliminate the short circuit in the coaxial cable or connections, reconnect, and activate device
	Cables are missing or defective.	Check your connecting cables
	A wrong video format was selected in the OSD settings	Check the settings to make sure your TV supports the selected format
There are small blocks in the video, occasionally no sound, occasionally no signal	The signal is too weak	Check for defective cables or connectors. Alternatively, reduce the coaxial cable length
Scrambled channel message	The channel is scrambled.	Select an alternative channel.
No response to remote control	The receiver is off.	Plug in and turn on the plug.
	The handset is not aimed correctly.	Aim the handset at the IR sensor.
	The IR sensor is obstructed.	Check for obstructions.
	The handset batteries are exhausted.	Replace the handset batteries.
Password forgotten	The default password is 0000	Contact the local Service Hotline or send an email to our support via <a href="http://www.thomsonstb.net">www.thomsonstb.net</a> .



Symptom	Cause	Remedy
The external USB HDD does not start.	The power consumption is too high.	Connect an extra power supply adapter to your USB HDD device.
The receiver switches to standby automatically.	The <b>Auto Standby</b> function is activated and has reached the set time (default 3 hours).	Set the power down time or disable it in the <b>Settings&gt;Time Setting</b> menu, parameter <b>Auto Standby After</b> .

## 9.0 SPECIFICATIONS

### Demodulator

Demodulation:	QPSK, 8PSK
Input symbol rate:	DVB-S QPSK: 1 ~ 45 Ms/s DVB-S2 8PSK/QPSK: 1 ~ 45 Ms/s
FEC decoder:	Auto, 1/2, 2/3, 3/4, 5/6, 7/8 in DVB-S mode 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 in DVB-S2 QPSK mode 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 in DVB-S2 8PSK mode

### Video

Profile level:	MPEG-4 AVC high profile H.264 HP@L4.1/MP@L4.1
Max. video resolution:	1920x1080p
Aspect ratio:	4:3 and 16:9, Pan & Scan Automatic adjustment for 16:9 TV sets, Letterbox supported
Video resolution:	PAL: 576i/p, 720p, 1080i, 1080p over HDMI surface

### Audio

Audio mode:	Mono L/R, Stereo
Audio support:	Dolby® Digital, Dolby® Digital Plus*, PCM
Transcoding to S/PDIF:	Dolby Digital Plus to Dolby Digital or PCM

\* Dolby Digital Plus and the double-D symbol are registered trademarks of Dolby Laboratories

### Tuner

Type1 F Type, IEC169-24, Female	
Input frequency range:	950 – 2150 MHz
RF impedance:	75 Ohm unbalanced
Signal level:	-65 to -25 dBm
LNB power:	13/18 V DC (+/- 1 V), max. 500 mA, overload protected
DiSEqC version:	1.0, (SatCR) EN50494 (up to 8 Channel-IDs)

### System & memory

Main processor:	STiH237 (Nagra)
Flash memory:	8 MB
System memory:	256 MB NAND + 512 MB DDR3

### Connectors

SAT IN	
S/PDIF (coax.)	
HDMI	
TV Scart	
Ethernet (RJ45)	
Power adapter (12 V/1.5 A)	
USB 2.0 port, Type A: 5 V/800 mA (max.) supported	

## General Data

Power supply:	AC 100 - 240 V 50/60 Hz
Input voltage:	DC 12 V, 1.5 A*
Power consumption:	max. 18 W, typ. 6 W
Power consumption in standby:	max 1 W
Operating temperature:	0 ~ +40 °C
Storage temperature:	-10 ~ +50 °C
Operating humidity range:	10 ~ 85% RH, non-condensing
Size (W x D x H) in mm:	173 x 132 x 41
Weight in kg:	0.35

\* For the appropriate usage with this device, use only power adapters as listed below (in case of a necessary exchange):

- Model: CH-AS120150E7xR; Manufacturer: Sichuan Changhong Electronic Component Co., Ltd.

- Model: TB-AS120150E6xR; Manufacturer: Ten Pao Electronics (Huizhou) Co., Ltd.

- Model: CY-AS120150E5xR; Manufacturer: Jiangsu Chenyang Electron Co., Ltd.

The usage of other power adapters may cause damage to the device. Such damage is not covered under warranty.

## 10.0 TERMS & CONDITIONS HD+ (IN GERMAN)

### 1. Geltungsbereich, Vertragsgegenstand und HD+ Karte

- 1.1. Diese allgemeinen Geschäftsbedingungen der HD PLUS GmbH mit Sitz in der Betastraße 1-10, 85774 Unterföhring („HDP“) gelten ausschließlich für den HD+ Service.
- 1.2. HDP überlässt dem Nutzer nach Maßgabe dieser allgemeinen Geschäftsbedingungen den Besitz an einem Datenträger („HD+ Karte“). Die auf der HD+ Karte gespeicherte Software bzw. Daten (zusammen die „HD+ Software“) sind lediglich technische Voraussetzung zum entschlüsselten Empfang bestimmter, digital verschlüsselt ausgestrahlter TV- Angebote („Programmangebote“) über einen Digitelempfänger mit HD+ Zertifizierung („HD+ Service“).
- 1.3. HDP räumt dem Nutzer eine nicht ausschließliche, nicht übertragbare Lizenz zur bedingungsgemäßen Nutzung der auf der HD+ Karte befindlichen HD+ Software zum Zwecke der vertragsgemäßen Entschlüsselung von Programmangeboten ein. Dieses Recht ist auf das Gebiet der Bundesrepublik Deutschland beschränkt. Es ist dem Nutzer untersagt, die HD+ Karte außerhalb Deutschlands zu nutzen. HDP kann verlangen, dass die HD+ Karte ausschließlich in Verbindung mit einem ihr zugeordneten Digitelempfänger verwendet wird. Außerdem ist HDP berechtigt, dies technisch sicherzustellen (sog. Pairing von Digitelempfänger und HD+ Karte).
- 1.4. Die Aktivierung der HD+ Karte obliegt dem Nutzer. Die HD+ Karte darf nicht anders als vereinbart verwendet werden. Der Nutzer ist nicht berechtigt, die HD+ Software zu kopieren, zu modifizieren, zu disassemblieren, zu dekompileieren oder andere Verfahren auf sie anzuwenden, um deren Quellcode oder deren Struktur zu erfahren oder Prozesse oder deren Zustandsrepräsentation unberechtigt in Erfahrung zu bringen oder zu beeinflussen. Gesetzliche Dekompilierungsrechte bleiben unberührt.
- 1.5. Der Digitelempfänger, das Wiedergabegerät (z. B. TV) und die Programmangebote sind ausdrücklich nicht Leistungsgegenstand. Zertifizierte Digitelempfänger sind im Handel erhältlich. Ihre Installat ion obliegt dem Nutzer. Im Falle technischer oder allgemeiner Probleme mit dem Digitelempfänger liegt die Verantwortung für den Kundenservice beim Hersteller des Digitelempfängers.
- 1.6. Die Anzahl und Zusammenstellung der Programmangebote kann sich während der Vertragslaufzeit ändern.
- 1.7. HDP behält sich vor, die zur Nutzung des HD+ Services sowie zu dessen Ergänzung oder Änderung erforderliche Software auf die HD+ Karte sowie den Digitelempfänger in unregelmäßigen Zeitabständen kostenfrei aufzuspielen oder dort vorhandene HD+ Software zu aktualisieren, zu ergänzen oder zu ändern. Unbeschadet der vorstehenden Regelungen ist die Haftung von HDP bei Datenverlusten auf den typischen Wiederherstellungsaufwand beschränkt.
- 1.8. HDP behält sich vor, HD+ Karten zu sperren bzw. nicht mehr zu unterstützen, die aufgrund von Rechtsverletzungen auch durch Dritte die unerlaubte Nutzung des HD+ Services bzw. eine Umgehung der Verschlüsselung ermöglichen. Eine Verlängerung des HD+ Services nach Ablauf der Freischaltung gemäß Ziffer 3.1 ist auf gesperrten bzw. nicht mehr unterstützten HD+ Karten nicht möglich.

### 2. Nutzerkreis und Nutzungsvoraussetzungen

- 2.1. Der HD+ Service steht natürlichen Personen im Alter von mindestens 18 Jahren zur Verfügung und ist ausschließlich für die private, nicht-gewerbliche Nutzung bestimmt. Die Nutzung außerhalb des privaten Haushalts bzw. die Weitergabe an Dritte zur Nutzung ist nicht gestattet.
  - 2.2. Voraussetzung für die Nutzung des HD+ Services ist eine digitaltaugliche Satellitenempfangsanlage, welche auf einen von HDP genutzten Satelliten ausgerichtet ist bzw. vereinzelt auch Kabel-Empfang (siehe [www.hd-plus.de/faq](http://www.hd-plus.de/faq)) sowie die Verwendung eines mit dem HD+ Logo gekennzeichneten Digitelempfängers und ein Wiedergabegerät (z. B. TV), die im Leistungsumfang jedoch nicht enthalten sind (vgl. Ziffer 1.5).
  - 2.3. Eine uneingeschränkte, vollumfängliche Nutzung des HD+ Services ist nur bei der Verwendung von HD+ zertifizierten Digitelempfängern möglich. Bei der Verwendung von Digitelempfängern ohne HD+ Zertifizierung kann es zu technischen Nutzungseinschränkungen des HD+ Services kommen, auch wenn HD+ zertifizierte Common-Interface-+ Empfangsmodule verwendet werden. Insbesondere kann es sein, dass die Entschlüsselung bzw. Darstellung einzelner Programmangebote nicht möglich ist. Der Nutzer hat deswegen gegenüber HDP weder einen Gewährleistungsanspruch noch ein Sonderkündigungsrecht.
- ### 3. Servicepauschale / Laufzeit und Verlängerung des HD+ Services
- 3.1. Im Rahmen von Vermarktungsangeboten, beispielsweise in Verbindung mit dem Kauf eines für HD+ zertifizierten Digitelempfängers, werden HD+ Karten ausgegeben, die bereits eine Freischaltung über mehrere Monate für den HD+ Service ohne weitere Kosten für den Nutzer beinhalten.
  - 3.2. Im Übrigen fällt für die Nutzung des HD+ Services eine Servicepauschale zu den jeweiligen besonderen Bedingungen an.
  - 3.3. Die Laufzeit der Nutzung des HD+ Services beginnt mit Aktivierung der HD+ Karte. Aktiviert wird eine Karte, wenn sie in den dafür vorgesehenen Schacht eines für HD+ zertifizierten Digitelempfängers steckt und ein HD+ Programm damit erstmals entschlüsselt wird bzw. mit Verlängerung und Freischaltung durch den Nutzer

- 3.4. Rechtzeitig vor Ablauf der jeweiligen Freischaltung des HD+ Services wird der Nutzer durch eine Einblendung auf dem Wiedergabegerät auf Ablauf und eventuell mögliche Verlängerungs- bzw. Neukaufoptionen für die Nutzung des HD+ Services aufmerksam gemacht. Die Freischaltung einer HD+ Karte sollte erst nach Einblendung auf dem Wiedergabegerät verlängert werden. Andernfalls kann sich der Zeitraum einer bestehenden Freischaltung verkürzen. Der Erwerb einer HD+ Karte beinhaltet jedoch nicht den Anspruch auf Verlängerung derselben.
- 3.5. Die Programmangebote und Services Dritter und deren Empfang bzw. Nutzung können gesonderte Kosten auslösen, für die der Nutzer selbst verantwortlich ist.
- 4. Beachtung von Urheberrechten**
- 4.1. Die HD+ Software und die HD+ Karte sind rechtlich geschützt. Soweit Programme von Lizenzgebern zur Anwendung kommen, ist deren Eigentum in gleichem Umfang geschützt. Die unerlaubte Vervielfältigung oder Verbreitung der HD+ Software oder der HD+ Karte und/oder deren Nachahmung wird HDP durch zivil-, gegebenenfalls auch strafrechtliche Maßnahmen verfolgt.
- 5. Rechte und Pflichten des Nutzers**
- 5.1. Jeder Nutzer des HD+ Services trägt selbst die Verantwortung für die bestimmungsgemäße Nutzung; der Nutzer hat insbesondere sicherzustellen, dass jugendgefährdende Sendeinhalte nur dem gesetzlich zugelassenen Personenkreis zugänglich sind.
- 5.2. Der Nutzer darf den HD+ Service nicht missbräuchlich nutzen und ist verpflichtet, seine HD+ Karte vor Verlust und Missbrauch zu schützen. Der Nutzer darf insbesondere keine Eingriffe in die HD+ Software vornehmen oder vornehmen lassen, um beispielsweise den unberechtigten Empfang von verschlüsselten Programmangeboten zu ermöglichen. Auch die Benutzung von Vorrichtungen zur Umgehung der Verschlüsselung ist verboten. Solche Missbräuche können zivil- und strafrechtlich verfolgt werden. Auf Ziffer 6 und Ziffer 7.3 wird verwiesen.
- 5.3. Ersetzt HDP die HD+ Karte aufgrund einer vom Nutzer zu vertretenden Beschädigung oder eines Verlustes, hat dieser Schadensersatz zu leisten.
- 5.4. Wird die Bereitstellung des HD+ Services aufgrund von Eingriffen in die Software oder Hardware des Nutzers beeinträchtigt oder unterbrochen, die HDP nicht zu vertreten hat, ist der Nutzer nicht zur Rückerstattung einer bereits entrichteten Servicepauschale berechtigt. Dies gilt auch, wenn die HD+ Karte beschädigt wurde oder abhanden gekommen ist.
- 6. Freistellung**
- 6.1. Der Nutzer haftet gegenüber HDP für die Einhaltung der in den Ziffern 4 und 5 aufgeführten Pflichten. Er stellt HDP von sämtlichen Ansprüchen Dritter frei, die infolge einer schuldhaften Verletzung dieser Pflichten und/oder schädigender Handlungen des Nutzers gegen HDP geltend gemacht werden und leistet Ersatz für darüber hinausgehende Schäden einschließlich der Kosten für eine eventuell erforderliche Rechtsverfolgung und -verteidigung.
- 7. Rechte und Pflichten von HDP**
- 7.1. HDP wird den Nutzer von einer nicht nur unwesentlichen vorübergehenden Leistungseinstellung oder -beschränkung unterrichten. Diese Mitteilungspflicht besteht nicht, wenn die Unterrichtung nach den jeweiligen Umständen objektiv vor Beginn der Leistungseinstellung oder -beschränkung nicht möglich ist oder die Beseitigung bereits eingetretener Unterbrechungen verzögern würde.
- 7.2. HDP behält sich vor, ohne weitere Ankündigung Wartungs- und Instandhaltungsarbeiten an ihren technischen Anlagen zur Aufrechterhaltung bzw. Verbesserung des HD+ Services durchzuführen. In diesem Wartungsfenster kann es zu Unterbrechungen oder Beeinträchtigungen beim Empfang der Programmangebote kommen, die den Nutzer jedoch nicht zur Minderung berechtigen.
- 7.3. Bei einem Verstoß gegen diese Nutzungsbedingungen oder dem begründeten Verdacht eines Verstoßes durch den Nutzer, insbesondere im Sinne der vorstehenden Ziffern 4 und 5, ist HDP nach eigenem Ermessen berechtigt:
- 7.3.1. den Nutzer vorübergehend oder dauerhaft von der Nutzung des HD+ Services auszuschließen und/oder
- 7.3.2. das Nutzungsverhältnis außerordentlich gemäß Ziffer 10.1 zu kündigen.
- 7.4. HDP wird den Nutzer vor Ausschluss oder Kündigung abmahnen, wenn nicht der Verstoß so schwer wiegt, dass HDP eine Fortsetzung des Nutzungsverhältnisses nicht zumutbar ist.
- 7.5. Bei einem auf dem Verschulden des Nutzers beruhenden Nutzungsausschluss gemäß Ziffer 7.3 bleibt der Nutzer auch für den Zeitraum des Nutzungsausschlusses und der Leistungsunterbrechung zur Zahlung der Vergütung verpflichtet.
- 8. Gewährleistung**
- 8.1. HDP erbringt Leistungen unter Inanspruchnahme von Kommunikationsnetzen oder technischen Einrichtungen Dritter, die sich außerhalb der Kontrolle von HDP befinden. Zeitweilige Beschränkungen, Beeinträchtigungen oder Ausfälle des HD+ Services aufgrund von Einflüssen, die HDP nicht zu vertreten hat, kann HDP darum nicht ausschließen. HDP übernimmt insbesondere keine Gewähr dafür, dass bestimmte Programmangebote zu einem bestimmten Zeitpunkt empfangen werden können; dies gilt nicht, soweit HDP eine Störung zu vertreten hat.
- 8.2. Der Nutzer erkennt an, dass die Qualität der entschlüsselten bzw. zugänglich gemachten Programmangebote einerseits von der durch Dritte bereitgestellten Signalqualität und andererseits von der Leistungsfähigkeit der vom Nutzer eingesetzten Wiedergabegeräte abhängig ist und beides außerhalb des Verantwortungsbereiches der HDP liegt. Der Nutzer erkennt ebenfalls an, dass die Aufnahme und Wiedergabe aufgezeichneter Programmangebote durch Dritte eingeschränkt werden kann.
- 8.3. HDP weist darauf hin, dass Softwareprogramme nicht so entwickelt werden können, dass sie für alle Anforderungen fehlerfrei laufen.
- 8.4. HDP behebt im Rahmen der bestehenden technischen und betrieblichen Möglichkeiten alle ihr gemeldeten Störungen des HD+ Services, für deren Behebung es nicht des Austauschs der HD+ Karte bedarf, unverzüglich. Die Kosten für die Inanspruchnahme des Kundendienstes von HDP trägt der Nutzer. Vorübergehende Beeinträchtigungen des Empfanges durch atmosphärische Störungen oder Sender-, oder Satelliten-/Kabelnetzausfall berechtigen den Nutzer nicht zur Minderung.
- 9. Haftung**
- 9.1. HDP haftet nur, soweit HDP, ihren Erfüllungsgehilfen und/oder gesetzlichen Vertretern ein vorsätzliches oder grob fahrlässiges Verhalten zur Last fällt.
- 9.2. Bei leicht fahrlässig verursachten Schäden haftet HDP nur, wenn eine wesentliche Vertragspflicht verletzt wurde oder ein Fall des Verzugs oder der Unmöglichkeit vorliegt. In diesen Fällen ist die Haftung auf den typischen vorhersehbaren Schaden begrenzt.
- 9.3. Soweit es zu zeitweiligen Beeinträchtigungen beim Empfang der Programmangebote kommen sollte, die außerhalb des Einflussbereiches von HDP liegen, insbesondere bei einem Ausfall des Signals, den HDP nicht zu vertreten hat, haftet HDP nicht.

- 9.4. HDP ist nicht verantwortlich für die von ihr entschlüsselten zugänglich gemachten Programmangebote und deren Inhalte.
- 9.5. Eine gesetzlich vorgeschriebene, verschuldensunabhängige Haftung von HDP, insbesondere eine Haftung nach Produkthaftungsgesetz sowie eine gesetzliche Garantief Haftung, bleibt von den vorstehenden Haftungseinschränkungen unberührt. Gleiches gilt für die Haftung von HDP bei schuldhafter Verletzung von Leben, Körper oder Gesundheit eines Nutzers. Die verschuldensunabhängige Haftung gemäß § 536a BGB ist ausgeschlossen, wenn HDP dem Nutzer eine HD+ Karte überlässt.
- 9.6. Die Ziffern 9.1, 9.2 und 9.5 umfassen sämtliche vertraglichen und gesetzlichen Ansprüche, die wegen der Nutzung des HD+ Services geltend gemacht werden können.
- 10. Kündigung des Vertrages und Änderung des HD+ Services**
- 10.1. Der Vertrag über die Nutzung des HD+ Service läuft für die jeweils vereinbarte Dauer ab Aktivierung der HD+ Karte. Eine Verlängerung setzt voraus, dass die HD+ Karte nicht gem. Ziffer 1.8 gesperrt ist. Unberührt hiervon bleiben etwaige außerordentliche Kündigungsrechte.
- 10.2. Der Nutzer kann nicht außerordentlich kündigen, weil sich die Anzahl oder Zusammenstellung der Programmangebote, welche der Nutzer mithilfe der HD+ Software entschlüsseln kann, während der Vertragslaufzeit ändert.
- 10.3. Kündigt HDP den HD+ Service nach Abmahnung im Fall der Ziffer 7.3, kann HDP Schadensersatz nach den gesetzlichen Vorschriften fordern.
- 11. Datenschutz**
- 11.1. Einzelheiten zur Datenverarbeitung sind im Datenschutzmerkblatt enthalten (siehe [www.hd-plus.de/datenschutz](http://www.hd-plus.de/datenschutz)).
- 12. Schlussbestimmungen**
- 12.1. HDP ist berechtigt, ihre Rechte und Pflichten aus diesem Vertrag ganz oder teilweise auf einen zur ordnungsgemäßen Fortführung des Vertrages geeigneten Dritten zu übertragen. Der Nutzer ist in diesem Fall berechtigt, das Vertragsverhältnis mit Wirksamkeit zum Zeitpunkt der Übertragung zu kündigen.
- 12.2. Es gilt das Recht der Bundesrepublik Deutschland. Die Anwendung von UN-Kaufrecht ist ausgeschlossen. Informationen zur zuständigen Verbraucherschlichtungsstelle nach § 36 des Gesetzes über die alternative Streitbeilegung in Verbrauchersachen (VSBG): Für Streitigkeiten aus den Vertragsverhältnissen zu HD+ ist die All- gemeine Verbraucherschlichtungsstelle des Zentrums für Schlichtung e.V., Straßburger Straße 8, D-77694 Kehl am Rhein, <https://www.verbraucher-schlichter.de>, zuständig. Wir sind grundsätzlich bereit, an Streitbeilegungs- verfahren bei der Allgemeinen Verbraucherschlichtungsstelle teilzunehmen.

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