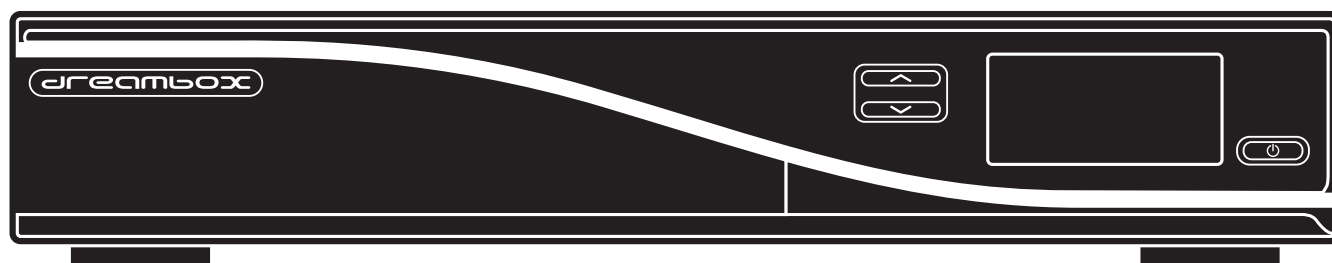


# dreambox



## DM7080 HD

### User Manual

Digital satellite receiver for free and encrypted Digital Video Broadcasting (DVB) with optional digital recording capability.

HDTV

Twin DVB-S2 Tuner  
2x Dreambox Tuner Slots

Gigabit Ethernet Port

contrasty OLED-Display

2x Common Interface  
2x Smartcard-Reader Dreamcrypt™

2x USB 2.0  
2x USB 3.0

HDMI®1.4a

Dreambox OS  
Dreambox API



dreambox  
discover more.

# Foreword

Dear customer,  
Congratulations on your new Dreambox DM7080 HD.

This manual should assist you to connect your dreambox, learning the basic operation and getting to know the additional multiple features.

Please note that the range of functions expands continuously by new software updates. If you updated the software of your dreambox or found some failure in the manual, please check if a new version is available in the download section of our website [www.leontechltd.com](http://www.leontechltd.com).

We hope that you take much pleasure in your new dreambox DM7080 HD.

The Dreambox DM7080 HD got the **CE**-Sign and fulfills all necessary EU-Norms.

DiSEqC™ is a trademark of EUTELSAT.

Dolby and the double-D symbol are trademarks of Dolby Laboratories.

HDMI®, the HDMI-Logo and “High Definition Multimedia Interface” are trademarks or registered trademarks of HDMI Licensing LLC.

Changes and printing errors reserved.

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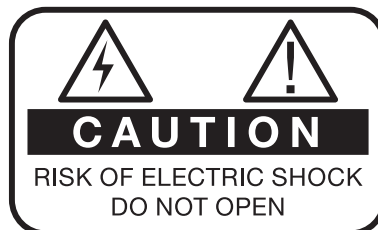
# Chapter 1

## Before initial operation of the receiver

### 1.1 Safety instructions

Please read the safety instructions completely and carefully, before using the Dreambox. The Manufacturer takes no responsibility for damages as a result of incorrect handling of the Dreambox.

- Allow enough space around the Dreambox for sufficient ventilation.
- Do not cover the top of the Dreambox and allow enough space to other devices. The louvers of the devices must be free at all times to allow sufficient heat transfer from inside the device.
- Never put vases or any other liquid filled containers on top of the device. Do not expose the device to dripping or splashing liquids.
- Do not place open flame sources, such as lit candles, on top of the device.
- The device may only be operated in moderate climate.
- Do not remove the cover. Risk of electric shock. If it is necessary to open the device please contact a trained professional.



- Do not put any metal things into the slots or ventilation openings.
- The installation of a hard disk /Tuner is only allowed by skilled personal or your local dealer.

Modifications and changes to the Dreambox lead to loss of warranty if not performed and documented by skilled personal. We recommend the installation of a hard disk by your local dealer. Unskilled installation of a hard disk leads to loss of warranty.

### Shut down

- In case your Dreambox is in use for a longer period of time disconnect the power plug from the power outlet.
- During thunder storm the unit should also be physically disconnected from the power outlet.

## Additional safety instructions

- (Dis-)Connecting to a LNB:  
Turn the Dreambox off before you connect or disconnect a cable coming from or going to a LNB.
- Connection to the cable wall box or terrestrial antenna:  
Before connecting or disconnecting your antenna cable to the Dreambox please turn it off.
- Connecting to a TV:  
Before connecting or disconnecting your Dreambox to/from a TV please turn it off.
- In case you notice any damage to the power cord or power plug immediately disconnect the device from the power outlet.
- In case the device was exposed to humidity immediately disconnect the device from the power outlet.
- In case you notice any serious damage to the outer shell of the device immediately disconnect the device from the power outlet.
- Do not expose the Dreambox to direct sunlight, lightning or rain.
- Grounding:  
The LNB cable must be grounded. The grounding system must meet SABS 061 requirements.
- Cleaning:  
Disconnect the mains power cord before cleaning the cover. Use a slightly damp cloth without cleaning agents.
- Connect the Dreambox only to suitable sockets. Do not allow overloads to occur.
- Please be careful that the batteries of your remote control are not exposed to heat, since they might explode.

## Disposal instructions

The packaging of the Dreambox only consists of reusable materials. Please recycle if possible.



This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

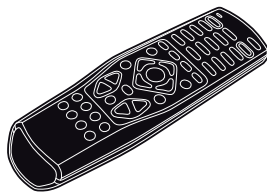
Please note that empty batteries and electric waste is not to be put into the regular garbage.

## 1.2 Packaging contents

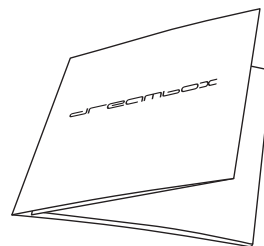
Please check the completeness of the box's contents.



Dreambox DM7080 HD



Remote control (Fig. similar)



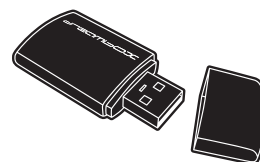
Quickguide



HDMI-Cable



Power cord



USB-WIFI Stick (Fig. similar)

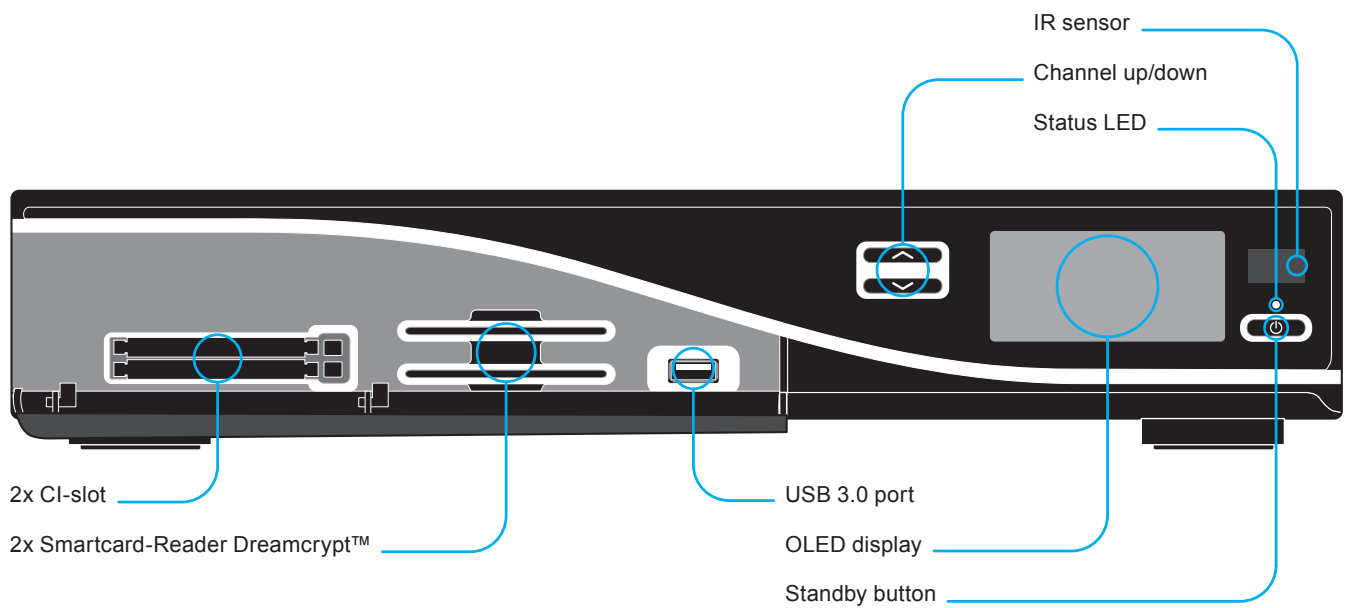


Screws for attachment of  
HDD



## 1.3 Views

### 1.3.1 Front view



**2 x CI-slot** You can insert a CI-Module of your choice in one of the CI-Slots. In order to remove the ci module, use the eject button on the right side of the CI-Slot.

**2 x Smartcard-Reader Dreamcrypt™** Insert your Dreamcrypt™ Smartcard with the golden chip facing down and forward into one of the two Smartcard reader slots.

**USB 3.0 Port** The USB 3.0 port is meant to connect USB 3.0 compliant devices. The extend of the supported devices depends on the software and is always under further development.

**Channel up/down** Using the channel-up and -down buttons you can switch the channels directly on your Dreambox.

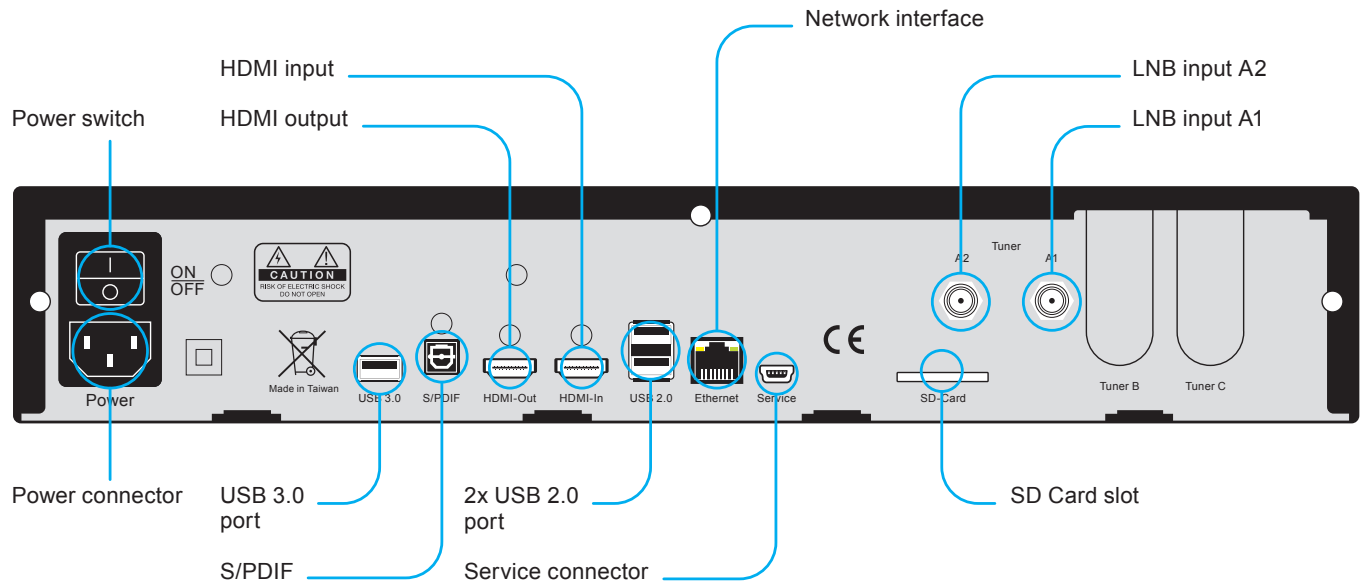
**OLED display** The OLED-Display shows all major information.

**IR sensor** The remote control sensor receives the infrared signals of the Dream Remote Control.

**Status LED** The Status-LED indicates the Standby-Status of your Dreambox.

**Standby button** The Standby-Button switches your Dreambox on and off.

### 1.3.2 Rear view



**Power switch** The main power switch shuts off power from your Dreambox.



**!!! IMPORTANT !!!** Before opening the device, always pull the power plug!

**Power connector** Plug the power cable into the main power socket. You must not connect the power plug to anything other than a socket that supplies 110V/60Hz or 230V/50Hz.

**1 x USB 3.0 port** The USB 3.0 Port is designed for devices that support the USB 3.0 standard. The amount of supported USB devices depends on the installed image (Software) and is still under development.

**S/PDIF optical audio** You can connect your Dreambox with an optical (Toslink) cable to your HiFi-Amplifier or DSP. The AC3 signal is also available at this port in case the selected channel transmits Dolby Digital signals.

**HDMI®-Out output** You can connect a TV to the HDMI® out of your Dreambox if your TV has the right input.

**HDMI®-In input** You can connect your HDMI® device with the right output.

**2 x USB 2.0 port** The USB 2.0 Port is designed for devices that support the USB 2.0 standard. The amount of supported USB devices depends on the installed image (Software) and is still under development.

**Network interface** The Communication Port is an Ethernet port. It is used to communicate with your Dreambox via HTTP, FTP, NFS, Telnet, SSH and Samba to access your recorded movies, to upload channel lists, etc. This port is also used to update the operating system of your Dreambox. Please use a regular patch cable to connect your Dreambox to your LAN.

**Service connector** The Service port is used to update the operating system. Please connect a mini-usb-to-usb-cable here.

**SD-Card Reader** Put your SD-card e.g. from your digital camera in here.

## **DVB-S2 Tuner (onboard)**

### **Sat-Tuner A1**

Connect the coaxial cable from your LNB here.

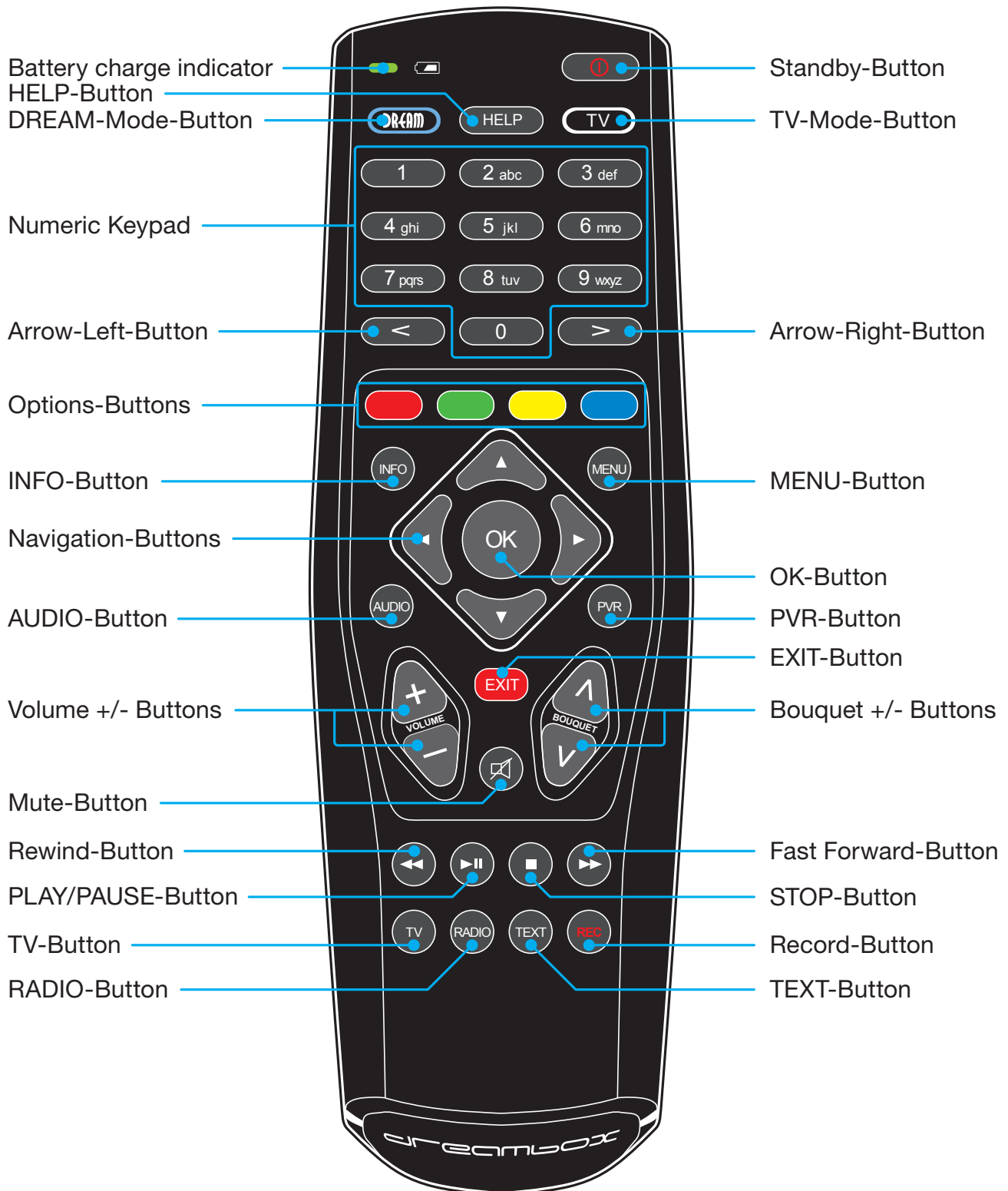
### **Sat-Tuner A2**

Connect the second coaxial cable from your LNB here. If you do not have a second cable from your LNB, you have the possibility to connect Sat Tuner A1 and Sat Tuner A2 with the help of the settings menu (see *chapter 7.1.7 Tuner B setup* on page 62). You **don't** need an external connection cable for that. Optionally you have more channels to choose from for parallel recordings.

**Tuner-Slot B** for optional tuners.

**Tuner-Slot C** for optional tuners.

## 1.4 Remote control



**Battery charge indicator** indicates the status of the battery voltage.

**Standby-Button** The **Standby-Button** switches your Dreambox on and off. (see *Chapter 3.1 Turning your Dreambox on and off* on page 17)

**DREAM-Mode-Button** The **DREAM-Mode-Button** switches your remote control into Dreambox control mode. It will shortly light up once you press the button.

**HELP-Button** Pressing the **HELP-Button** shows the help menu.

**TV-Mode-Button** The **TV-Mode-Button** switches your remote control into TV control mode to control your preprogrammed TV. It will shortly light up once you press the button. (see *Chapter 11 TV-Mode setup* on page 74)

**Numeric-Keypad** Enter a service number to directly access the option by using the **Numeric Keypad**. The service numbers are on the left side of the service list. The **Numeric Keypad** can also be used to enter the teletext page number when you are in TV-Control-Mode and if your TV is teletext capable. The TV station has to submit teletext information; otherwise this feature cannot be used.

**Arrow-Left- and Arrow-Right-Button** The **Arrow-Left** and **Arrow-Right-Button** enable you to jump back and forth between the last 20 channels you have watched. If you have selected a sub service (see *Chapter 3.6 Sub Services* on page 19) you can use these buttons to switch to the next sub service. Additionally these buttons can be used to delete characters during text input.

**Options-Buttons** All possible options are shown by the four colored dots/blocks (red, green, yellow, blue) and can be activated by the **Options-Buttons**. Depending on the menu you currently are in the options will change and will be named differently.

**INFO-Button** If no OSD menu is visible on the screen and you are in TV or RADIO-Mode, pressing the **INFO-Button** will reveal the EPG information of the chosen channel if it is available.

**MENU-Button** If you are in TV- or RADIO-Mode, pressing this button will bring up the OSD main menu. The OSD main menu has the following options:

You can switch to the needed option by pressing the **Navigation-Buttons** (▲▼). If you are in the service list, pressing the **MENU-Button** brings up the service menu. The shown options may vary depending on the service list you selected.

**Navigation-Buttons** In general the menus are controlled using the **Navigation-Buttons** on your remote control. To get into a submenu you have to press the **OK-Button**.

**OK-Button** By pressing the **OK-Button** you confirm a selection in the menu or service list navigation. If no OSD menu is present on your screen, the infobar is shown once you press the **OK-Button**.

**AUDIO-Button** Pressing the **AUDIO-Button** gives an overview of the provided audio tracks.

**PVR-Button** Pressing the **VIDEO-Button** shows the list of recordings.

**Volume +/- Buttons** The **Volume +/- Buttons** control the volume of the audio. Pressing + will make turn it up and pressing - will turn it down.

**EXIT-Button** You can leave all menus and service lists by pressing the **EXIT-Button**.

**Mute-Button** Pressing the **MUTE-Button** mutes the Volume. A crossed speaker symbol will appear on the TV screen. Pressing it again or pressing one of the **Volume +/- Buttons** brings back the audio. The **Mute-Button** deletes a character during text input.

**Bouquet +/- Buttons** Pressing the **Bouquet +/- Buttons** will jump back and forth between the bouquets.

**Rewind-Button** Use the **Rewind-Button** to rewind during playback of a recording.

**PLAY/PAUSE-Button** Use the **PLAY/Pause-Button** to pause or resume during playback of a recording or to activate Timeshift-Mode. Detailed information can be found in *Chapter 5 Hard disk operation* on page 36.

**STOP-Button** Use the **STOP-Button** to stop the playback of a recording or to stop the timeshift mode.

**Fast Forward-Button** Use the **Fast Forward-Button** to fast forward during playback of a recording.

**TV-Button** Pressing the **TV-Button** activates the TV-Mode.

**RADIO-Button** Pressing the **RADIO-Button** activates the RADIO-Mode.

**TEXT-Button** The **TEXT-Button** activates the Teletext.

**Record-Button** Use the **Record-Button** to start an instant recording. Detailed information can be found in *Chapter 5.3.1 Instant recording* on page 40.

## Important notes about operation

All functions of the Dreambox can be controlled via OSD-Menu (On-Screen-Display). This makes the handling of the Dreambox very easy for you. All options are indicated by four colored dots or beams (**red, green, yellow, blue**) in the OSD-Menu and can be started with the **Option-Buttons** on the Remote Control.

Depending on the chosen Menu, these options do vary.



In general the menus are controlled using the **Navigation-Buttons** (**▲▼◀▶**) on your remote control.

To get into a submenu you have to press the **OK-Button**.



All Menus and Service lists are closed with the **EXIT-Button**.

# Chapter 2

## Start-up

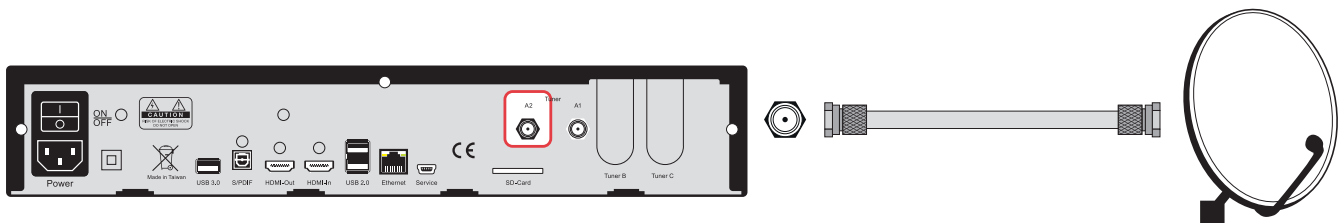
### 2.1 Connecting

Before using the Dreambox, please read the safety instructions under *Chapter 1.1 Safety instructions* on page 1.

In the following is described how to connect the dreambox to a Satellite-dish, a cable connection, a terrestrial connection, an a/v receiver, a tv-device and a network.

#### 2.1.1 Satellite Dish (DVB-S/S2)

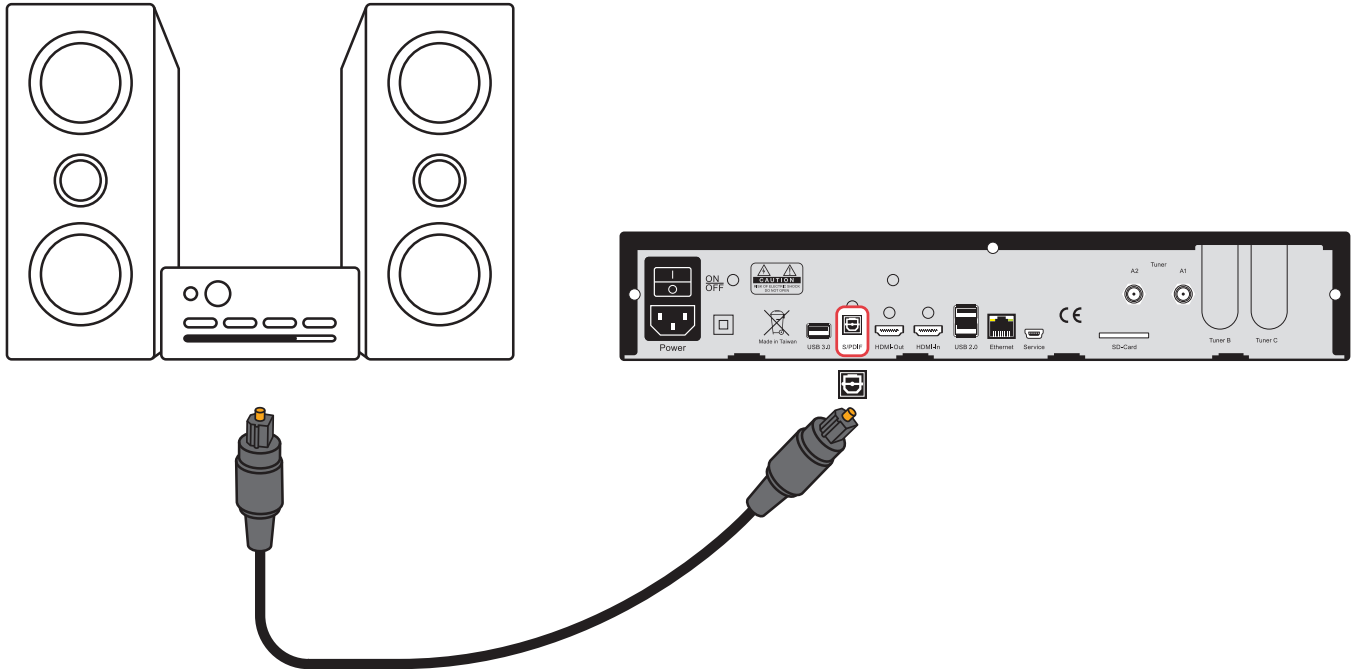
Connect the (LNB) with a suitable coax cable to the LNB-Input of your Dreambox. Detailed information can be found under *Chapter 1.3.2 Rear view* on page 5.



## 2.1.2 A/V Receiver

### Connection via optical fiber cable

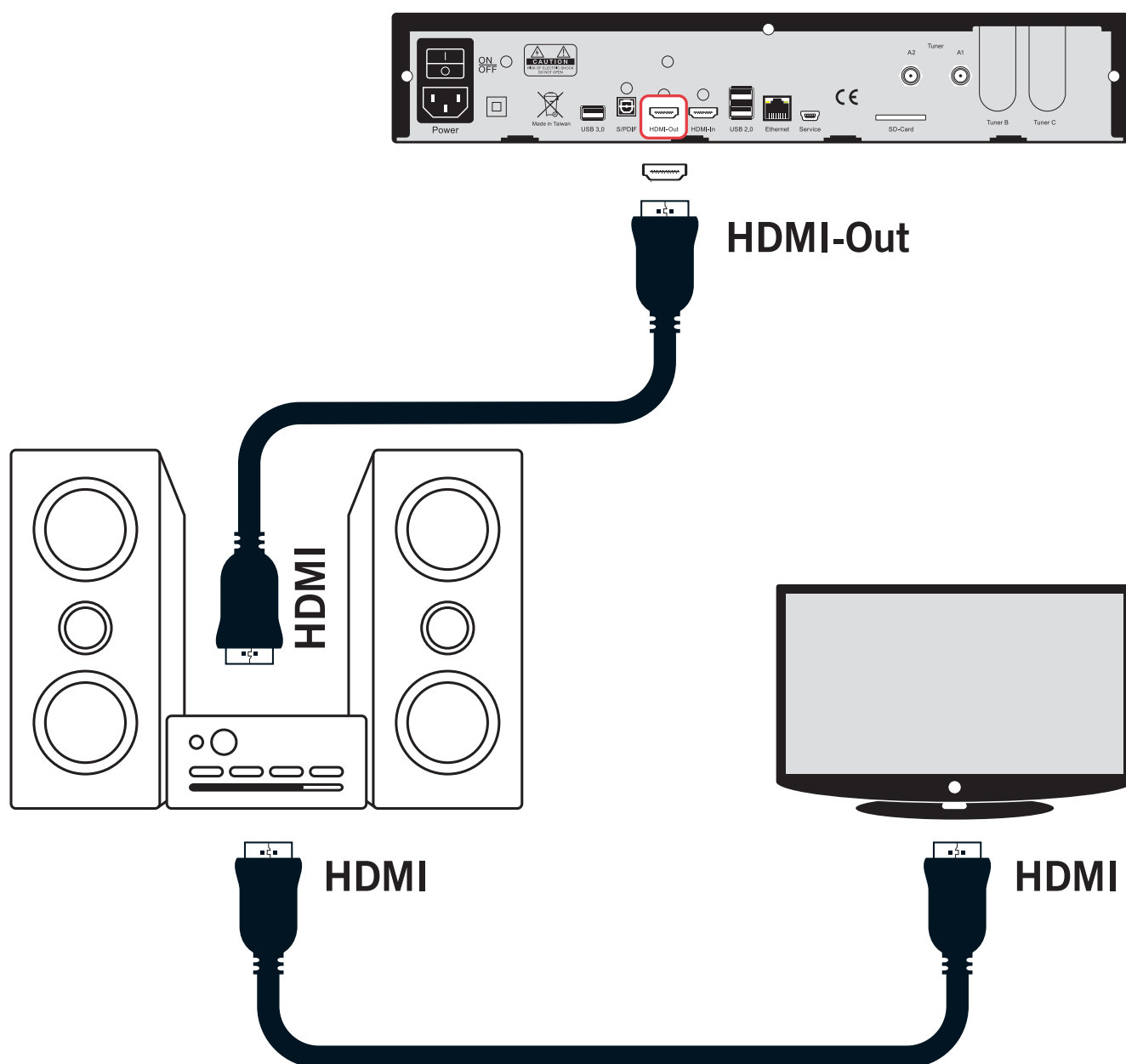
If your a/v receiver (amplifier) has a suitable optical S/PDIF Input, connect the connection jack **S/PDIF OPTICAL** at the Dreambox with an optical fiber cable (toslink) with the optical S/PDIF Input of your amplifier.





## Connection via HDMI cable

Use an hdmi-cable to connect the hdmi-out of your dreambox to an hdmi-input of the a/v receiver. After that take a second hdmi-cable for connecting the hdmi-out of your a/v receiver to the hdmi-input of the tv-device.



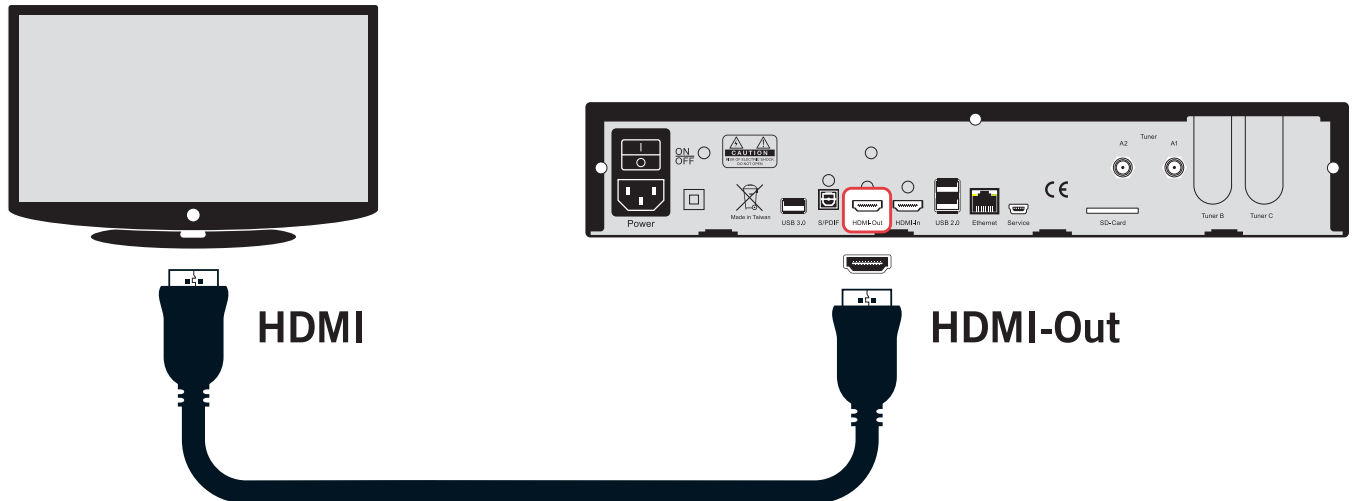
### 2.1.3 Television

#### HDMI

Connect the dreambox with the hdmi-cable to the TV-input of your television.

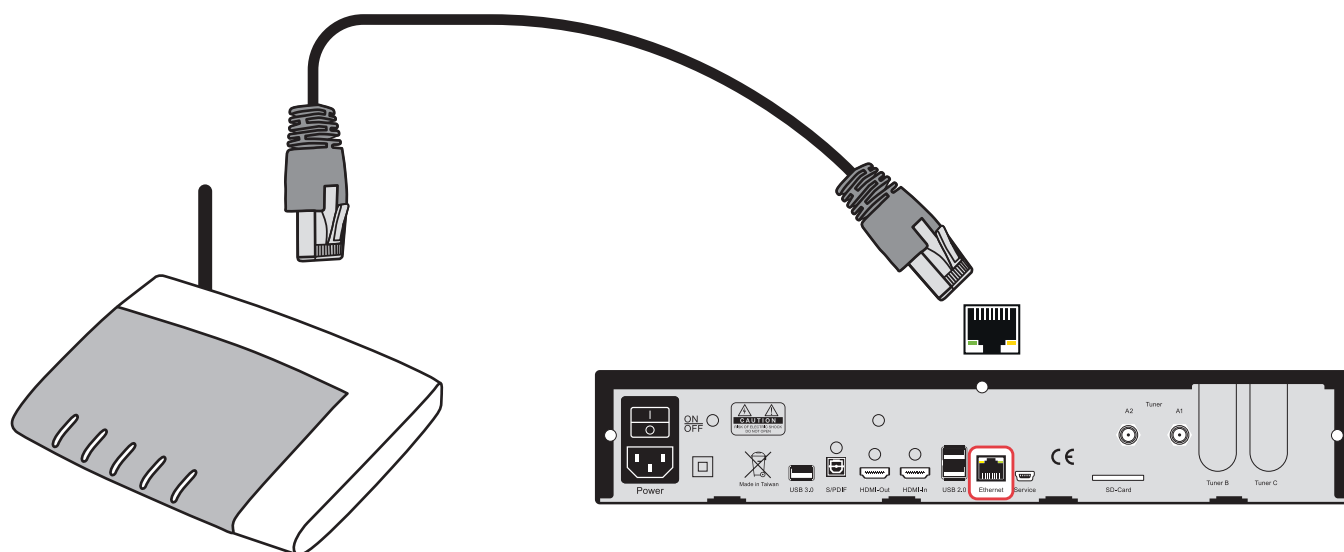


At least use the hdmi-interface for getting the best picture quality (through digital transmission). You can use the supplied HDMI cable for connecting the dreambox with the hdmi-input of your television.

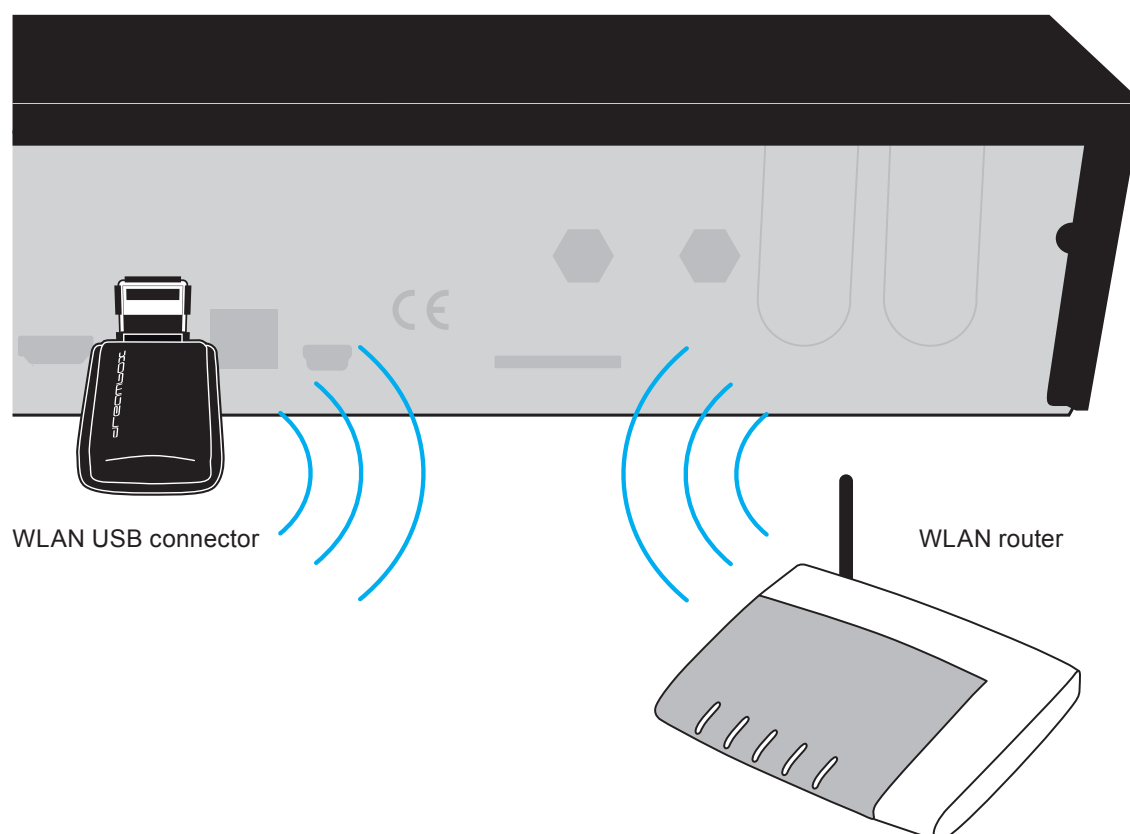


## 2.1.4 Network

### Connection via network cable



### Connection via WLAN-network



## 2.2 Turning the device on

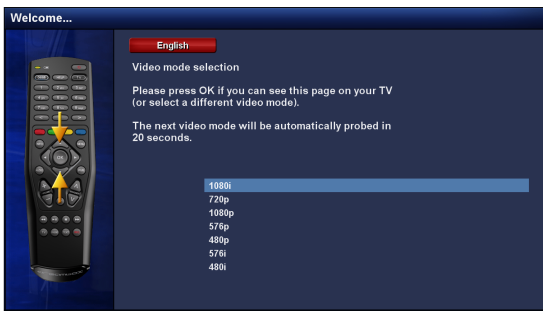
1. Place the batteries inside the battery compartment of the remote control keeping in mind the right polarity.
2. Plug in the power cable into the Dreambox and then into a 110V/60Hz or 230V/50Hz power socket.
3. Now turn on your dreambox.

If you are using a switchable power socket please shutdown your Dreambox into standby before switching off the power socket. Detailed information can be found under *Chapter 3.1 Turning your Dreambox on and off* on page 17.

Please note that the factory setting for the video format is CVBS (FBAS).

## 2.3 Start wizard

If you switch on your Dreambox for the first time, you will see the setup wizard. The setup wizard will guide you through the first time installation. Follow the instructions on the screen and use the **Navigation-Buttons** (▲▼◀▶) and the **OK-Button**. With the **red Options-Button** you can choose the desired language.



### Video output selection

You will be shown different video output modes for roughly 20 seconds, after you have connected and switched on your Dreambox. Once you see a clear picture on your TV screen press the **OK-Button** to select it. If you prefer a different output than the selected one you can use the **Navigation-Buttons** (▲▼) and the **OK-Button** to select it.

### Language selection

With the **Navigation-Buttons** (▲▼) choose your desired language and confirm with the **OK-Button**.

### Tuner

Detailed information about the tuner setup can be found in *chapter 7.1 DVB-S2 Tuner-Configuration* on page 56.

## **Default services list/Service scan**

Depending on your tuner configuration in the previous step, you might be offered to install default services lists. Otherwise you will be asked to perform a service scan. Detailed information about the service scan can be found in *Chapter [7.4 Automatic scan](#)* on page [64](#).

## **Parental Control**

Parental control makes it possible to lock selected channels. Detailed information can be found under *Chapter [4.8 Parental control](#)* on page [34](#).

## **Network**

The network wizard will assist you with the network setup of your Dreambox. Detailed information can be found under *Chapter [6.6 Network](#)* on page [51](#).

# Chapter 3

## Basic operation

### 3.1 Turning your Dreambox on and off

Your Dreambox has an idle mode and an standby mode. Both functions differ in their power consumption and the time which is needed until the box has booted.

- Idle about 1 Second (higher power consumption)
- Standby about 15 seconds (less power consumption)

#### Idle Mode

To put your Dreambox into Idle-Mode either press the **Standby-Button** on your remote control or directly on your Dreambox. In this mode the OLED-Display only shows the current time.

#### Standby

For putting your Dreambox into Standby-Mode, there are 3 options:

1. Holding down the **Standby-Button** on your remote control for three seconds.
2. Press the **MENU-Button**, with the **Navigation-Buttons** (▲▼) choose the option “*Standby / Restart*” and press the **OK-Button**. With the **Navigation-Buttons** (▲▼) choose the option “*Standby*” and press the **OK-Button**.
3. Alternatively you can push down the **Standby-Button** on your Dreambox for 5 seconds. If no OSD Menu is visible on the screen this will also put your dreambox into Standby-Mode. (If the OSD Menu is still open press the **EXIT-Button**).

All your settings will be saved now and your Dreambox goes into Standby-Mode afterwards (saves energy!). In this mode the OLED-Display doesn't display anything.

With the **Navigation-Buttons** (▲▼) choose the desired option and press the **OK-Button**.

**Sleep Timer** Put your Dreambox into Standby after a duration of time that can be chosen freely. (See [Chapter 3.13 Sleep timer](#) on page 29)

**Idle Mode** Puts your Dreambox into Idle mode.

**Restart** Your Dreambox will be rebooted.

**Standby** Puts your Dreambox into Standby-Mode.

## 3.2 Service selection

Pressing the **Navigation-Buttons** (◀▶) on your Dreambox remote control will take you to the previous or next service.

Pressing the **0** on the Numeric-Keypad will enable you to skip back and forth between the two most recently watched services. This feature is quite useful during commercial breaks since it enables you to watch another channel and quickly check if your movies is back on.

Using the **Navigation-Buttons** (◀▶) you can switch to the 20 last viewed services.

## 3.3 Changing channel using the service list



Pressing the **Navigation-Buttons** (▲▼) activates the service list.

With the **Navigation-Buttons** (▲▼) choose the desired service and press the **OK-Button**.

## 3.4 Controlling the volume

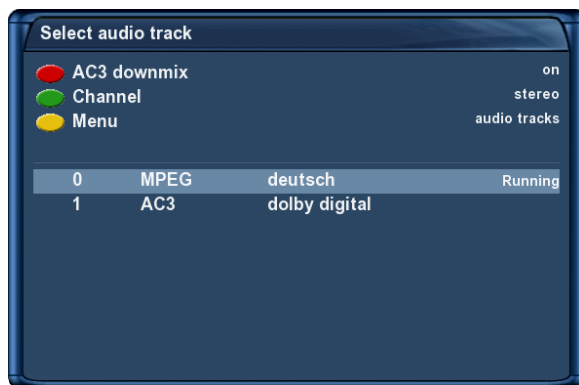


The **Volume +/- Buttons** control the volume of the audio. Pressing + will make turn it up and pressing - will turn it down.

Pressing the **MUTE-Button** mutes the volume. A crossed speaker symbol will appear on the screen.

## 3.5 Changing the audio track

Pressing the **AUDIO-Button** in TV or Radio Mode.



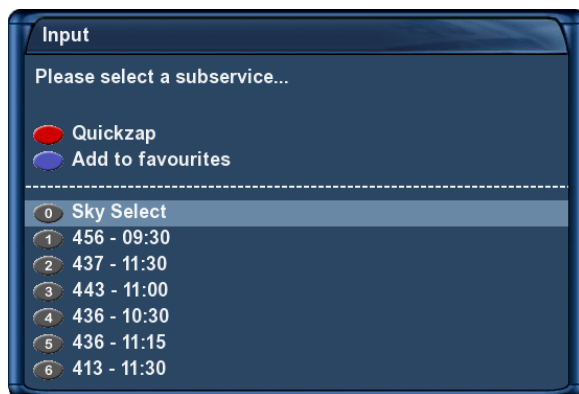
Use the **Navigation-Buttons** (▲▼) to move to desired audio track. Press the **OK-Button** to select.

The contents of this menu will vary from service to service.

**AC3-Downmix:** Press the **red Options-Button** to toggle “AC3-Downmix” (See [Chapter 6.4 A/V Settings](#) on page 50) on and off .

## 3.6 Sub Services

The green dot on the left side of “*Sub Services*” in the Infobar appears if the selected station transmits sub services.



Pressing the **green Options-Button** in TV or Radio mode will reveal the “sub services” *menu*. With the **Navigation-**

**Buttons** (▲▼) choose one of the sub services, then press the **OK-Button** to select.

You can use the **Arrow-Left-Right-Button** for switching to the next sub service.

## 3.7 TV/Radio switching

Pressing the **RADIO-Button** activates the RADIO-Mode. By pressing the **TV-** or **EXIT-Button** you can quit the RADIO-Mode.



## 3.8 Subtitles

Follow this steps:

1. In TV- or Radio Mode press the **AUDIO-Button**.
2. By pressing the **yellow Options-Button** a list with the available subtitles will show up.
3. With the **Navigation-Buttons (▲▼)** select a desired subtitle and press the **OK-Button** to activate.



The screenshot on the left shows you an example of how a subtitle looks.



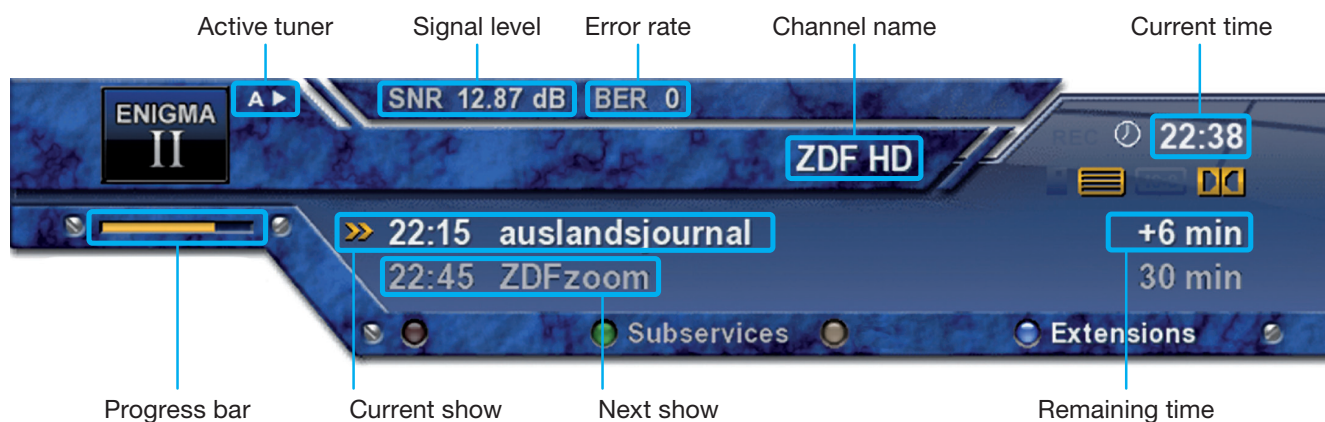
Note: Keep in mind that not every station offers subtitles. If no subtitles are available, the subtitle list will stay empty.

To deactivate subtitles follow this steps:

1. In TV- or Radio Mode press the **AUDIO-Button**.
2. By pressing the **yellow Options-Button** a list with the available subtitles will show up.
3. With the **Navigation-Buttons (▲▼)** select the activated subtitle and press the **OK-Button** to deactivate.

### 3.9 Infobar

The Infobar appears when switching a channel and shows all necessary information about the selected service. By pressing the **OK-Button** you can open the Infobar if needed!



Is highlighted yellow as soon as a show is broadcasted encrypted.



Is highlighted yellow as soon as a show is broadcasted in Dolby Digital.



Is highlighted yellow as soon as a show is broadcasted in 16:9 aspect ratio.



Is highlighted yellow as soon as a station transmits Teletext information.

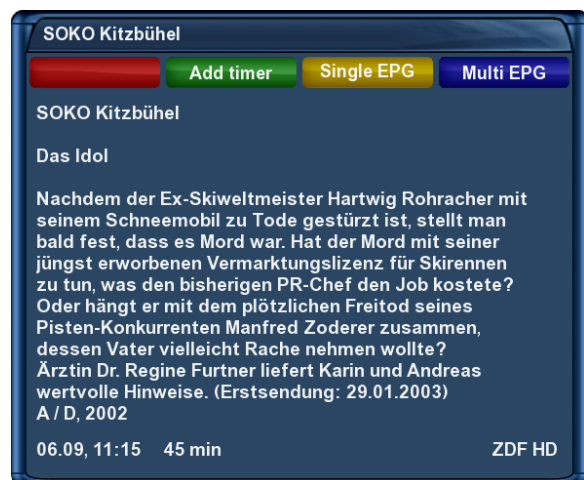


Lights up during the recording process.



## 3.10 Electronic Program Guide - EPG

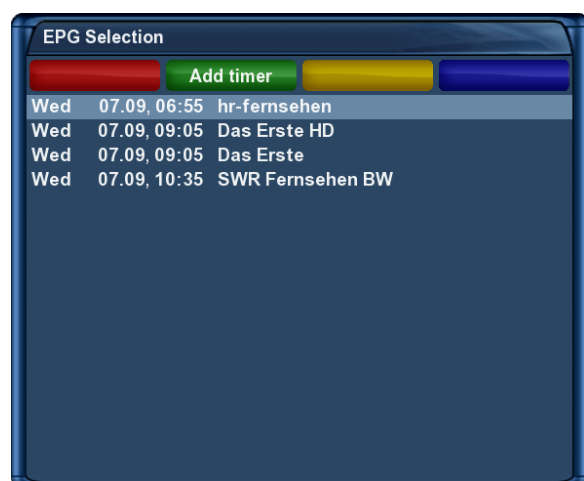
The Electronic Program Guide (EPG) shows information regarding the current tv service (similar to a TV guide).



By pressing the **INFO-Button** in TV-Mode you are supplied with detailed information about the current show and by pressing the **Navigationbutton** (►) afterwards about the next show.

Pressing the **yellow Options-Button** activates the “*Channel-EPG*” (see [Chapter 3.10 Single-EPG](#) on page 23) and pressing the **blue Options-Button** activates the “*Multi-EPG*” (see [Chapter 3.10 auf Seite 24](#)).

The Dreambox automatically searches for similar broadcasts in the background. If one or more similar broadcasts are found the label “*Similar*” will appear in the red window.



Pressing the **red Options-Button** opens a listing of similar broadcasts.

By pressing the **green Options-Button** you can set a timer for this rerun.

For additional information about recording by timer please see [Chapter 5.3.3 Recording by timer](#) on page 41.

## Single-EPG

In this view you are supplied with detailed information about the currently selected channel's programming.

Follow this steps:

1. Press the **INFO-Button**.
2. Press the **yellow Options-Button** for getting the "*Single-EPG*" view.

You can also access this view by pressing:

1. Press and hold the **INFO-Button** for about 2 seconds. With the **Navigation-Buttons** (▲▼) choose the option "*show single service-epg*" and press the **OK-Button**.

or

2. Press the **Navigation-Buttons** (▲▼) to open the services list. With the **Navigation-Buttons** (▲▼) choose one channel and then press the **Info-Button**. This way you can very quickly and easily access the Single-EPG of every service.



By pressing the **yellow Options-Button** you can either sort the "*Single-EPG*" alphabetically or by time.

By pressing the (◀) or (▶)-button you can switch to EPG of the previous or next service.

## Multi-EPG

Follow this steps:

1. Press the **Info-Button**.
2. Press the **blue Options-Button** for switching to “*Multi-EPG*” view.

Use the **blue** and **yellow Options-Buttons** to switch between the *now*, *next* and *more* views. Pressing the **green Options-Button** will give you the possibility to automatically copy the start and end time of the selected show into a recording timer.



If you have set the “*Multi bouquets*” option to “*yes*” (see [Chapter 6.2 Customize](#) on page 48) a selection of your bouquets will appear. Select the bouquet for which you want the Multi-EPG view.

This view shows the currently airing shows on the services listed in the left column. A progress bar showing the progress of the currently airing show is placed next to the service’s name.

With the **Navigation-Buttons** (▲▼) you can select a service, just like in the service list, and change to the selected service by pressing the **red Options-Button**.

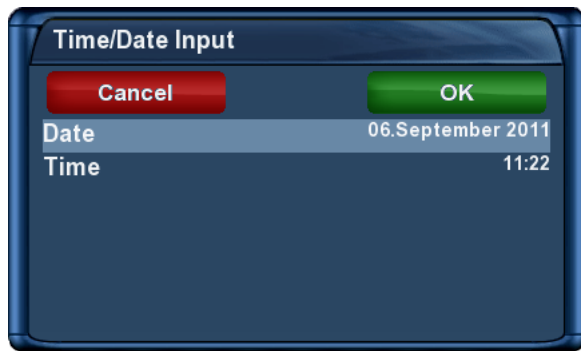


General overview of the following programming.



General overview of the upcoming programming for the following days. (Depending on the station up to one week).

## Time/Date Input



Press the **Menu-Button** in the Multi-EPG view.

A window will appear where you can enter a time and date.

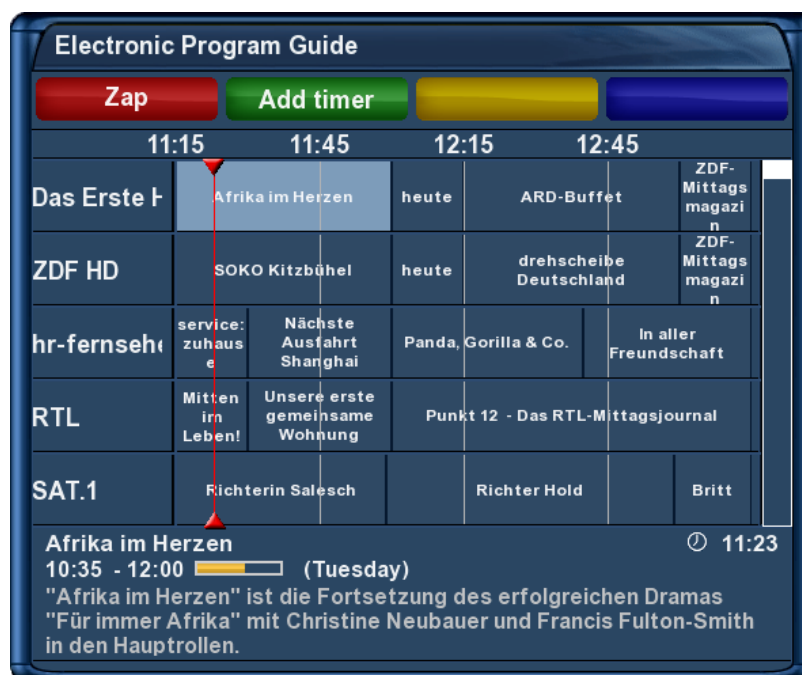
After you have entered the desired time and date press the **OK-Button** to activate your selection.

## Graphical Multi-EPG

You have another option to view the EPG of different services and successive shows. The Graphical Multi-EPG displays the EPG overview for the upcoming hours (can be set to 1-5 hours with the **Buttons 1-5** on the **Numeric-Keypad**) for the chosen bouquet.

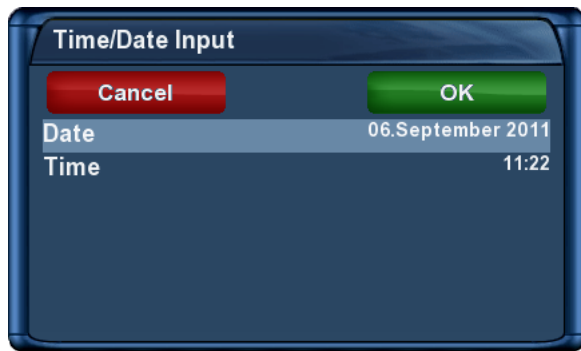
To access the Graphical Multi-EPG follow this steps:

1. Press the **blue Options-Button** or press+hold the **INFO-Button** for about 2 seconds.
2. With the **Navigation-Buttons** (**▲▼**) choose the option "*Graphical Multi-EPG*" and press the **OK-Button**.



Using the **Navigation-Buttons** (**▲▼◀▶**) you can browse the shows. More detailed information about the selected show is displayed in the bottom part of the EPG. You can directly set a timer for the selected show, by just pressing the **green Options-Button**.

## Time/Date Input



Press the **Menu-Button** in the Multi-EPG view.

A window will appear where you can enter a time and date.

After you have entered the desired time and date press the **OK-Button** to activate your selection.

## 3.11 Teletext (Videotext)

1. Press the **Text-Button**.
2. Choose "*TeleText*" and press the **OK-Button**.

You are now in Teletext-Mode. You can quit this mode by pressing the **EXIT-Button**.

Keep in mind that not every station transmits Teletext!

### Teletext - regular navigation

If you are viewing any Teletext page you can enter the interactive mode by pressing the **OK-Button**. Use the **Navigation-Buttons** (▲▼) to select a text page number and press the **OK-Button** to call this page. You don't need to type in a text page number in this mode, but it is still possible.

**Bouquet + Button** toggle between double high from the upper half, double high from the lower half and full view text page.

**Bouquet - Button** Open Favorites Management.

**TV-Button** to activate or deactivate the PIG-Mode (Picture in Graphics). Same view from Text page and Program picture. (best results are show on 16:9 TV's during 4:3 transmission).

**RADIO-Button** Press this button a couple of times to toggle the view between transparent-mode and normal mode.



Teletext Konfigurationsmenü:

If the Teletext page 100 is shown you can press the **MENU-Button** to enter the Teletext configuration menu.

You have the following options:

**Scale filter and Scale filter zoom** You can choose between following scale options:

- bilinear
- anisotropisch
- scharf
- schärfer
- deaktiviert

**Brightness** Here you can adjust the brightness of your Teletext. Press the **Navigation-Buttons** (◀▶) to adjust the brightness.

**Contrast** Here you can adjust the contrast of your Teletext. If you press the **Navigation-Button** (◀) the Teletext is getting darker, when pressing the **Navigation-Button** (▶) it's getting brighter.

**Transparency** Here you can adjust the transparency value of your Teletext. Press the **Navigation-Buttons** (◀▶) to adjust the alpha value.

**Text level** Press the **Navigation-Buttons** (◀▶) to choose one of the following supported TeleText-Versions (1.0, 1.5, 2.5, 3.5).

**Region** Press the **Navigation-Buttons** (◀▶) to choose the character set for your region.

**Position and size** Enter values for (left, top, right, bottom) with the **Numeric-Keypad** or press the **TEXT-Button** for visual movement of the TeleText and changing the size. In graphical mode you can adjust the height by pressing the **Bouquet +/- Button** and the width by pressing the **Volume +/- Taste**. With the **Navigation-Buttons** (▲▼◀▶) you can move the TeleText on the screen.

**Display edges** Show first and last column.

**Splitting Mode** Choose mode for splitted screen view.

**Picture and TeleText** TV picture on the left and TeleText on the right side of your TV.

**TeleText and Picutre** TeleText on the left and TV picture on the right side of your TV.

**TeleText in Bild** TeleText will be shown as small picture in graphics (pig). Position and size (see "Position and size").

**Background caching** If you switch off background caching, searching for the page will not start before you entered the last number.

**Debug** Debug-messages are saved to /tmp/dbttcp.log.



### 3.12 Picture-in-Picture mode (PiP)

The Dreambox has a so called PiP-Function. With PiP you can display a small TV picture on top of the main big TV picture.

Double press the **blue Options-Button** to activate Picture-in-Picture mode.



activated Picture-in-Picture mode

The main TV picture is now additionally displayed as a small PiP in the upper right corner of your screen and the last watched service is displayed in the main big TV picture. In **PiP mode** you will always hear the sound from the main TV picture.

By pressing the **blue Options-Button** you can choose between the following options:

**Disable Picture in Picture: (blue Options-Button)** Choose the option to turn the **PiP mode** off. The little PiP will disappear and only the main TV picture is displayed on your screen.

**Move Picture in Picture: (green Options-Button)** Choose the option to move or resize the small PiP. You can move the position of the small PiP by using the **Navigation-Buttons (▲▼◀▶)** Use the **Bouquet +/- Buttons** to resize the small PiP.

Press the **Exit-Button** to discard your changes or the **OK-Button** to save the settings and return to the current TV show.

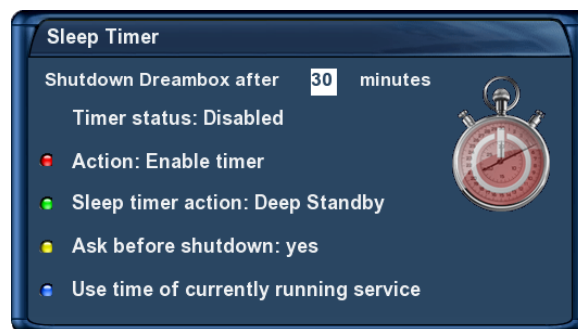
**Swap services: (yellow Options-Button)** Choose the option to swap the main TV picture and the small PiP. The small PiP becomes the main TV picture and vice versa.

### 3.13 Sleep timer

Using the sleep timer you can put your Dreambox into standby or turn it off after a predetermined amount of time.

Follow this steps:

1. Press the **Menu-Button** to open the main OSD menu.
2. With the **Navigation-Buttons** (▲▼) choose the option “*Standby / Restart*” and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲▼) choose the option “*Sleep timer*” and press the **OK-Button**.



Sleep timer

**Shutdown Dreambox after** Set the number of minutes after you wish the predetermined shutdown action to be executed.

**Timer-Status** Set this option to “*enabled*” to activate a set sleep timer or to “*disabled*” to deactivate a set sleep timer. Press the **red Options-Button** to change the status.

**Sleep timer action** Select “*Standby*” to completely turn off you Dreambox or “*Idle mode*” to put it into idle mode. Press the **green Options-Button** to toggle the sleep timer action.

**Ask before shutdown** If this option is set to “*Yes*” a safety window will appear once the sleep timer is executed asking you if you really want to turn off your Dreambox. Press the **yellow Options-Button** to toggle this option.

**Use time of currently running service** Press the **blue Options-Button** to take over the remaining time of the service as shutdown time.

Once you have set all options to your liking press the **OK-Button** to save your settings. A short note will tell you that the sleep timer has been activated.

# Chapter 4

## Edit the channellist

What is a bouquet?

A bouquet can be thought of something like a folder. Every channel equals a page in this folder and the pages are sorted into categories.

This way you can create a bouquet called “*Kids*”, for example, under which you “*file*” all children’s stations. Another example would be to create a bouquet called “*Sports*” where you put all sports channels. This way you can create several topic related bouquets.



You can delete channels only in the *favorites view*!

You cannot delete the channels in the “*All*” view. The idea of the “*All*” view is to keep an internal list of all available stations. If you start a new channel search the result would be saved to the “*All*” view for example. Your favorites bouquet will stay untouched. This way you can easily add newly found channels from the “*All*” list to your favorites bouquet. To see how it is done refer to [Chapter 4.2 Add a service to favorites](#) on page 31.

### 4.1 Adding a bouquet

To be able to add a bouquet you have to set the “*Allow multiple bouquets*” option to “*yes*”. (Refer to [Chapter 6.2 Customize](#) on page 48).

1. Press the **Navigation-Buttons** (▲▼) to open the channellist.
2. Press the **blue Options-Button** to switch to the bouquet view.
3. By pressing the **Menu-Button** the “*Channellist menu*” will open up.
4. With the **Navigation-Buttons** (▲▼) choose the option “*add bouquet*” and press the **OK-Button**.
5. Use the **Numeric-Keypad** on your remote control to enter the name for the new bouquet. The according letters are printed on button. The **Mute-Button** deletes a character.
6. Press the **OK-Button** to add the new bouquet to your favorites list. You will be taken back to the “*Channellist menu*”.

## 4.2 Add a service to favorites

If you want to add a service to your **Favorites-view** you can choose from services in the **All-, Satellites- and Provider-views**. You can switch views by pressing the **red, green, yellow and blue Options-Buttons**. At this point we only describe the process from the **All-Bouquet** since it is the same for the others.

1. Press the **Navigation-Buttons** (▲▼) to open the channellist.
2. Press the **red Options-Button** to switch to the “*All*” view.
3. With the **Navigation-Buttons** (▲▼) choose the **MENU-Button** to open the “*Channellist menu*”.
4. With the **Navigation-Buttons** (▲▼) choose the option “*add service to bouquet*” and press the **OK-Button**.

If you are using more than one bouquet this option is named “*add service to bouquet*” instead and you will get a list of your bouquets afterwards. You can choose to which bouquet you want to add the currently selected service. If you are using only one bouquet which is the factory default, the service will be added to your favorites list.

## 4.3 Adding multiple services to a bouquet

You can select multiple services from the “*All-view*” to be added to the currently selected bouquet.

1. Press the **Navigation-Buttons** (▲▼) to open the channellist.
2. Use the **Bouquet +/- Buttons** to switch to the desired bouquet to which you want to add channels. As an alternative you can press the **blue Options-Button** and select the desired bouquet. After that select a service and switch to it by pressing the **OK-Button**.
3. By pressing the **MENU-Button** the “*Channellist menu*” will open up.
4. With the **Navigation-Buttons** (▲▼) choose the option “*enable bouquet edit*” and press the **OK-Button**, the “*Allview*” will open up.
5. All services that are in the selected bouquet for which you just enabled the option “*enable bouquet edit*” are highlighted in red. With the **Navigation-Buttons** (▲▼) choose a desired service and press the **OK-Button** to select. The service will be highlighted red. Using this method you can select additional services that you want to add to the bouquet. Once you have selected all services that you want to add, press the **Menu-Button**. The “*Channellist menu*” will open up.
6. With the **Navigation-Buttons** (▲▼) choose the option “*End bouquet edit*” and press the **OK-Button**.

All highlighted services will now be added to the bouquet that you selected in the beginning. If you are only using one bouquet, which is the default setting, the selected services will be added to your favorites list.

## 4.4 Remove a service from favorites

1. Press the **Navigation-Buttons** (▲▼) to open the channellist.
2. With the **Navigation-Buttons** (▲▼) choose the channel you want to delete.
3. By pressing the **MENU-Button** the “*Channellist menu*” will open up.
4. With the **Navigation-Buttons** (▲▼) choose the option “*remove service*” and press the **OK-Button**.  
The selected service will be deleted from your favorites list.

## 4.5 Moving a service to favorites

1. Press the **Navigation-Buttons** (▲▼) to open the channellist.
2. By pressing the **MENU-Button** the “*Channellist menu*” will open up.
3. With the **Navigation-Buttons** (▲▼) choose the option “*enable move mode*” and press the **OK-Button**.
4. With the **Navigation-Buttons** (▲▼) choose the service you want to move and press the **OK-Button**.  
The service will be highlighted in red.
5. With the **Navigation-Buttons** (▲▼) move the channel to the desired position and press the **OK-Button**, to place the service at its new position. You can move services as long as the move mode is activated.
6. Press the **Navigation-Buttons** (▲▼) to open the channellist.
7. With the **Navigation-Buttons** (▲▼) choose the option “*disable move mode*” and press the **OK-Button**.

## 4.6 Adding a marker to favorites

With the help of markers you will be able to switch fast to a certain position within a bouquet.

Follow this steps:

1. Press the **Navigation-Buttons** (▲▼) to open the channellist.
2. Use the **Bouquet +/- Buttons** to switch to the desired bouquet to which you want to add markers.  
As an alternative you can press the **blue Options-Button** and select the desired bouquet. Afterwards choose a channel with the **Navigation-Buttons** (▲▼). The marker will be added above the selected service.
3. By pressing the **MENU-Button** the “*Channellist menu*” will open up.
4. With the **Navigation-Buttons** (▲▼) choose the option “*Add Marker*” and press the **OK-Button**.
5. Use the **Numeric-Keypad** on your remote control to enter the name for the new bouquet. The according letters are printed on button. The **Mute-Button** deletes a character.

6. Press the **OK-Button**, to add the marker to your favorites list.

If you have added two markers use the **Arrow-Left** and **Arrow-Right-Buttons** to jump between those two markers.

## 4.7 Alternative services

In case you are using two different types of tuners in your Dreambox, for example a DVB-S and a DVB-T tuner, you can link services that you receive on both tuners in the “*alternative services*” list.

Every services resides on a so called transponder. A transponder contains a number of services.

Example: ZDF-Transponder via satellite

This transponder contains the services: 3sat, Kika, ZDF, ZDFdokukanal, ZDFinfokanal, ZDFtheaterkanal



Services of ZDF-Transponder

If you now start a recording or enable the PiP function on “ZDF” only the services on the same transponder on this tuner are available any more.

The unavailable services will be marked grey in the services list, once a service on one of the tuners is in use either by recording or by PiP. (see [Chapter 3.12 Picture-in-Picture mode \(PiP\)](#) on page 28. If you now want to view or record a different service that is not on the ZDF-Transponder it has to be linked to the corresponding service on the free (other) tuner.

How to link services will be explained in the following steps.

1. Press the **Navigation-Buttons** (▲▼) to open the channellist.
2. With the **Navigation-Buttons** (▲▼) choose the service for which you want to add an Alternative.
3. By pressing the **MENU-Button** the “*Channellist menu*” will open up.
4. With the **Navigation-Buttons** (▲▼) choose the option “*Add alternatives*” and press the **OK-Button**. The “*All view*” opens up.
5. With the **Navigation-Buttons** (▲▼) choose the service for which the Alternative should be added and press the **OK-Button**.

The service will be highlighted in red. Using this method you can select additional services that you want to add. Once you have selected all services that you want to add, press the **Menu-Button**. The “*Channellist menu*” will open up.

6. With the **Navigation-Buttons** (▲▼) choose the option “*End alternatives edit*” and press the **OK-Button**.

## 4.8 Parental control

Parental control makes it possible to lock selected channels.

Follow this steps:

1. Press the **Menu-Button** to open the main OSD menu.
2. With the **Navigation-Buttons** (▲▼) choose the option “*Setup*” and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲▼) choose the option “*Parental control*” and press the **OK-Button**.

### Lock a service

1. With the **Navigation-Buttons** (▲▼) choose the option “*Enable parental control*” and switch to “*yes*” with the **Navigation-Buttons** (◀▶).
2. With the **Navigation-Buttons** (▲▼) choose the option “*Parental control type*” and choose between the options “*Whitelist*” and “*Blacklist*” with the **Navigation-Buttons** (◀▶).

Whitelist means that all channels NOT in the parental control list will be locked.

Backlist means that all the channels in the parental control list will be locked.

3. With the **Navigation-Buttons** (▲▼) choose the option “*Edit Channellist*” and press the **OK-Button**.
4. Press the **Navigation-Buttons** (▲▼) to select the first letter of the channel that you want to lock or allow and press the **OK-Button**.

In this example we decided to lock the service called “**ProSieben**”. Accordingly we selected the “P” as the first letter. The *Parental control services Editor* will open up. All services beginning with the letter “P” are shown.

5. With the **Navigation-Buttons** (▲▼) choose the service “*ProSieben*” and press the **OK-Button**. A symbolized padlock will appear in front of the channel letting you know that it can only be watched when the right pincode is entered.

If you have selected whitelist under the “*Parental control type*” then this channel will be the only one that can be viewed without entering the right pincode.

## Change service pin

1. With the **Navigation-Buttons** (▲▼) choose the option “*Change service pin*” and press the **OK-Button**.
2. With the **Numeric-Keypad** enter a 4-digit Pincode. You have to enter the new pincode twice to ensure you didn’t make any typing errors. If you already created a pincode earlier you will be prompted to enter the old pincode and afterwards the new one.

You will see a notice that the pincode has been changed. If the entered pincode was false you will see this notice. Press the **OK-Button** to get back into the “*Change service pin*” menu and to enter the correct new pincode twice.

3. Press the **OK-Button** to get back into the Parental control menu.

## Protecting the parental lock setup

Additionally you have the option to protect the parental control menu using a pincode.

Setting the “*Protect setup*” option to “*yes*” you will only be able to change parental control setting after you have entered the correct pincode.



1. Once you entered the wrong pincode three times in a row you have to wait 15 minutes before you can try again.
2. You can use two different pincodes to protect the setup and the service list.



# Chapter 5

## Hard disk operation

### 5.1 Installation-Guide

This chapter describes how to install a 3,5" SATA Hard disk in your Dreambox DM7080 HD.

Please always adhere to ESD (Electrostatic Discharge) regulations when handling electronic devices.

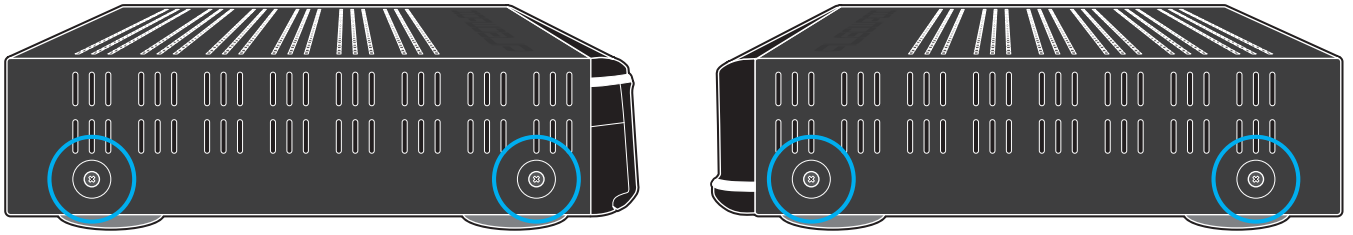
- Make sure that you are grounded.
- Do not open the device in your living room or in any other rooms with carpeting or any other flooring that can carry an electrostatic charge.
- Remove all connection from the device.
- Only open the device with the tools depicted in this manual.
- Try to avoid direct contact with the main circuit board.

If all this doesn't mean anything to you or if you have too many questions, please contact your dealer or technician.

Also notice the warranty notes in *Chapter 1.1 Safety instructions* on page 1.

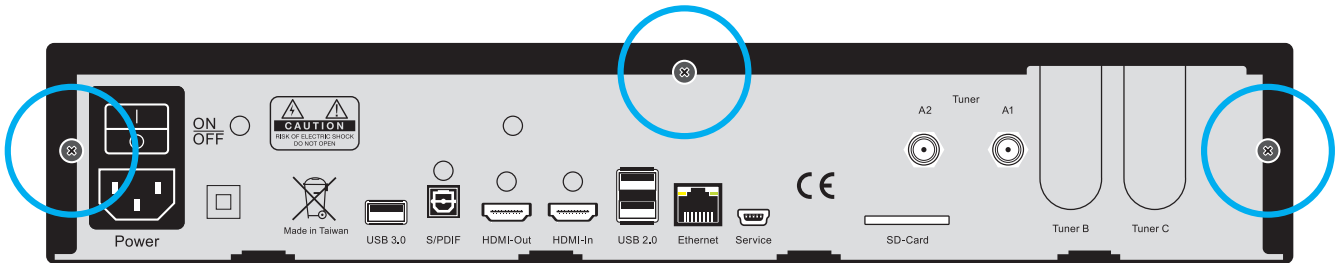
## Opening the device

1. Unscrew the screw(s) on the left and right side of your Dreambox.



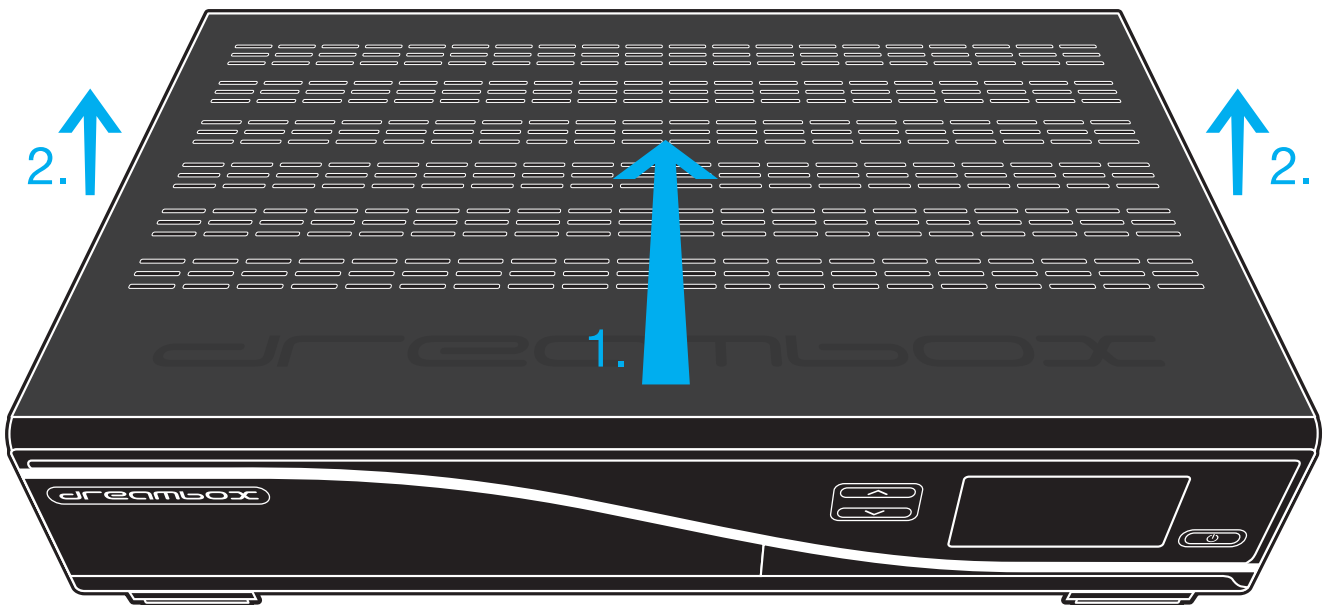
Remove screw(s) on the left and right side

2. Remove the screw(s) on the rear panel, marked on the picture.



Remove marked screw(s) on the rear panel

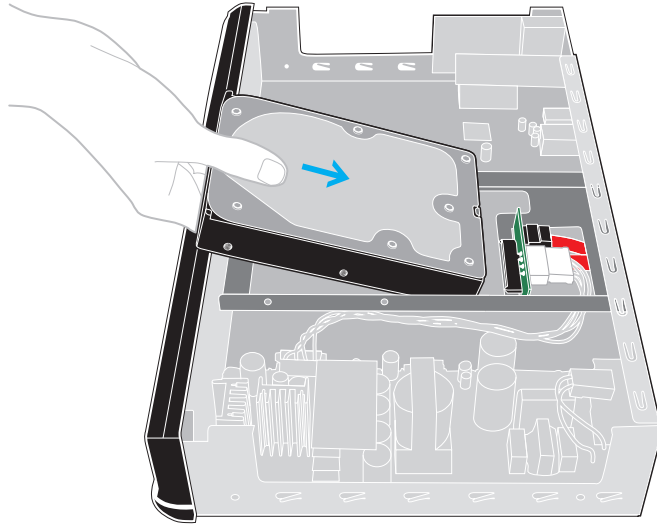
3. Pull the the cover backwards first (1.) and lift it afterwards (2.).



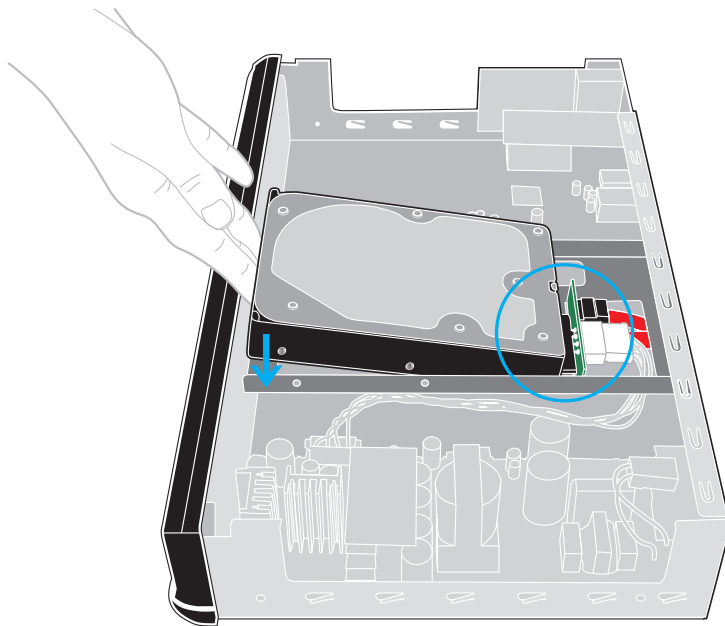
Lift cover off

## Installation of a 3,5" SATA Hard disk

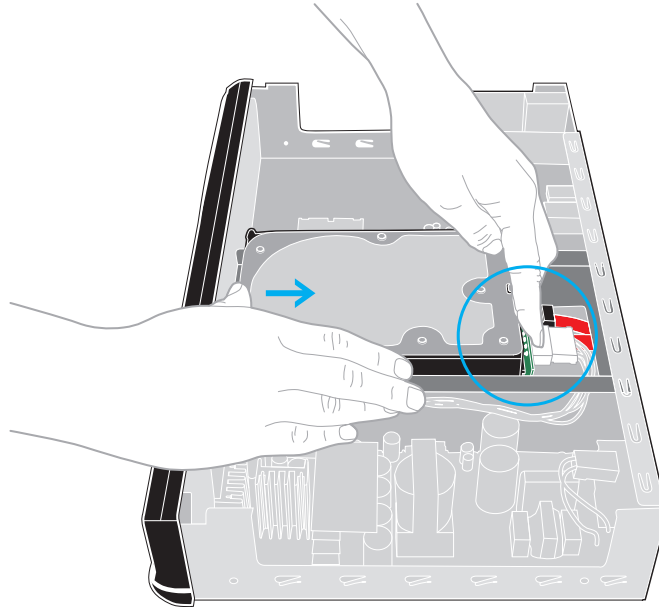
1. Place the hard disk into the hard disk cage, ensure that the connection port is pointing towards the back of the dreambox. Place the hard disk carefully into the plug of the hard disk cage.



Placing hdd to hard disk cage (Fig. 1)

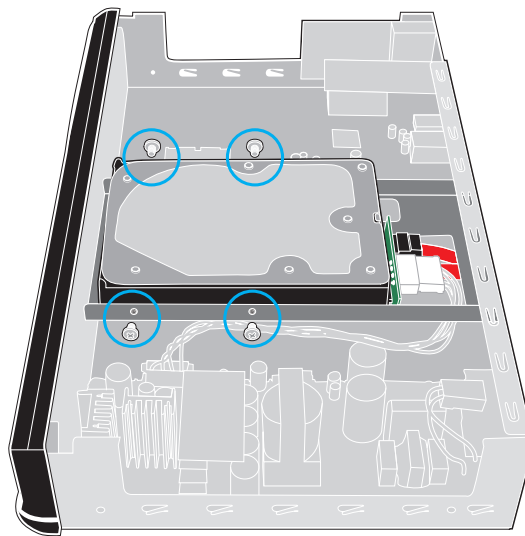


Placing hdd to hard disk cage (Fig. 2)



Placing hdd to hard disk cage (Fig. 3)

2. Now you need a Phillips-tip screwdriver and four screws for mounting the hdd. Tighten the hard disk with the four screws on the left and right side of the hard disk cage (see figure 4).



Placing hdd to hard disk cage (Fig. 4)

3. Reassamble your Dreambox by following the guide (see *Chapter 5.1 Opening the device* on page 37) backwards.
4. Reattach all necessary cables to your Dreambox making sure that you connect the power cord as last.



Before you can use your hard disk for recordings it has to be initialized by the box as described in *Chapter 5.2.1 Initialization* on page 40.

## 5.2 Management

1. Press the **Menu-Button** to open the main OSD menu.
2. With the **Navigation-Buttons** (▲▼) choose the option “*Setup*” and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲▼) choose the option “*System*” and press the **OK-Button**.
4. With the **Navigation-Buttons** (▲▼) choose the option “*Storage devices*” and press the **OK-Button**.
5. By pressing the **blue Options-Button** you enter the “*Harddisk setup*”.

You now can set the duration of time after which the harddisk will be put into standby-mode. You can select from:

- No standby
- 10 or 30 Seconds
- 1, 2, 5, 10, 20 or 30 Minutes
- 1, 2 or 4 Hours

Once you have selected the desired time press the **OK-Button** or the **green Options-Button** to get back into the harddisk menu.

### 5.2.1 Initialization

1. Press the **Menu-Button** to open the main OSD menu.
2. With the **Navigation-Buttons** (▲▼) choose the option “*Setup*” and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲▼) choose the option “*System*” and press the **OK-Button**.
4. With the **Navigation-Buttons** (▲▼) choose the option “*Storage devices*” and press the **OK-Button**.
5. With the **Navigation-Buttons** (▲▼) choose your harddisk. If you have installed another hard disk this option will differ from the one depicted!
6. By pressing the **red Options-Button** you will initialize (format) the hard disk. After you confirm the safety question the initialization process starts.



**!!! WARNING !!! All data stored on the HDD will be lost.**

## 5.3 Recording

### 5.3.1 Instant recording

Press the **Record-Button**.

You have five available options.

1. Add recording (indefinitely)
2. Add recording (stop after current event)
3. Add recording (enter recording duration)
4. Add recording (enter recording endtime)
5. Don't record

Use the **up/down-Buttons** to navigate to your desired selection and press the **OK-Button** to select.

A ongoing recording is indicated by a flashing symbol in the Infobar (see *Chapter 3.9 Infobar* on page 21). During a recording you can watch another service, view a previously recorded movie or add an additional recording.

The number of simultaneous recordings depends on the number of installed tuners and on the number of services residing on a transponder (see *Chapter 4.7 Alternative services* on page 33) . It is possible to make up to eight simultaneous recordings.

Pressing the **Up/Down-Buttons** on your remote control activates the service list. The recording continues in the background. Once a recording is started, no matter if manually or by timer (see *Chapter 5.3.3 Recording by timer* on page 41) it will be signaled by a note on the screen.

If all tuner are used for recording or by the Picture-in-Picture mode and you are trying to access a service that is not on one of the recorded transponders you will get the “*No free tuner*” message.

### 5.3.2 Stop recording

Switch to the service which recording you want to stop.

1. Press the **Record-Button**.
2. With the **Navigation-Buttons** (▲▼) choose the option “*Stop recording*” and press the **OK-Button**.

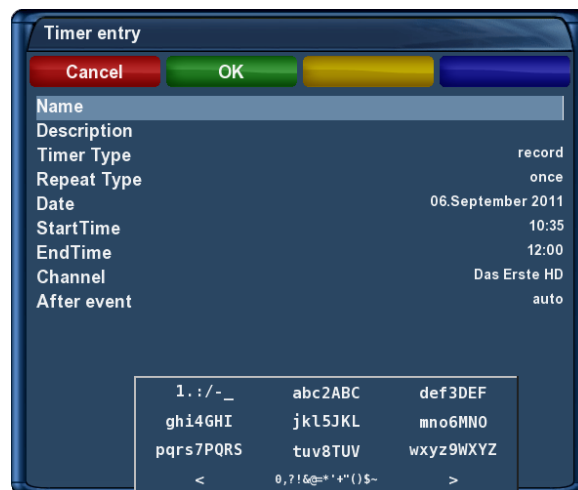
If you have only one active recording it will be stopped immediately. If more than one recording is active you will given the choice which recording you want to stop.

### 5.3.3 Recording by timer

With the help of a timer you can record shows to your hard disk (if you have a hard disk installed). You are offered two different ways to program a timer, the manual way or via the EPG.

#### Manual programming

1. Press the **Menu-Button** to open the main OSD menu.
2. With the **Navigation-Buttons** (▲▼) choose the option “*Timer*” and press the **OK-Button**.
3. Press the **green Options-Button** to add a new timer.



Add Timer

You can choose between two different timer types. “*Record*” to record the desired show or “*Zap*” to automatically switch to the service.

As repeat type you can choose between “*once*” and “*repeated*”.

The repeat type “*repeated*” offers you the following options:

- daily
- weekly with choice of weekday
- Monday through Friday
- user defined (for each day from Monday through Sunday)

For all four options you can set a date for the first execution of the timer You can decide what should happen after the recording finishes by selecting the “*After event*” option. You can choose between

**auto** to keep your Dreambox in the same state as before the recording

**do nothing** to keep your Dreambox turned on after the recording

**go to idle mode** to put your Dreambox into idle mode

**go to standby** to shutdown your Dreambox once the timer is done

Set your desired option by pressing the **Navigation-Buttons** (▲▼ and ◀▶) and press the **green Options-Button** to save the timer.

## Programming via EPG

Change into one of the EPG views in chapter (as described in *Chapter 3.10 Electronic Program Guide - EPG* on page 22). By pressing the **green Options-Button** you have the option to automatically add the selected show with its start and end time as a timer. All other options are the same as in the manually added timer. Press the **green Options-Button** to save the timer. You will be taken to the “Timer Editor” menu.



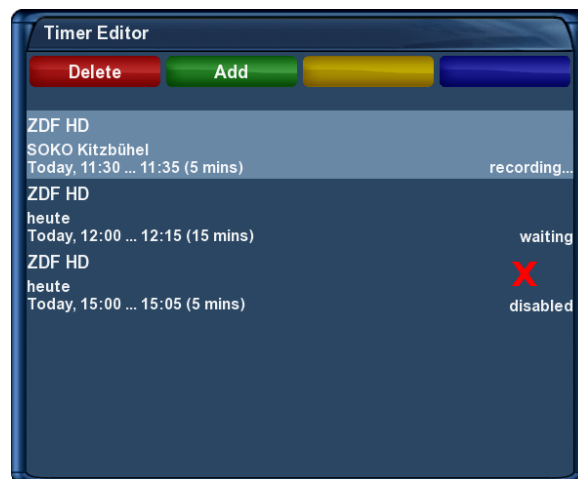
Choose service which you want to record



fill text

## Timer Editor

1. Press the **Menu-Button** to open the main OSD menu.
2. With the **Navigation-Buttons** (▲▼) choose the option “*Timer*” and press the **OK-Button**.



Timerlist

Pressing the **red Options-Button** will delete a timer. The **green Options-Button** adds a timer, the **yellow Options-Button** toggles active on and off (only possible in waiting status) and the **blue Options-Button** removes finished timers from the list.

With the **Navigation-Buttons** (▲▼) choose an existing timer and press the **OK-Button** to edit.

The status of a timer is shown on the right side:

**waiting** means: still coming up

**recording** means: recording right now

**done** means: recording finished

**the red X** indicates that a timer was deactivated



If you pressed the **blue Options-Button** you will be asked if you really want to delete the finished timer. Use the **Navigation-Buttons** (▲▼) to select. Press the **OK-Button** to activate.



Your Dreambox will be turned on 5 minutes before the recording if a recording is supposed to start while the Dreambox is in Standby mode.

### 5.3.4 Timeshift

Press the **PLAY/PAUSE-Button** to pause the screen (video and audio will pause). The recording will continue in the background. You can fast-forward and rewind while recording as long as you have already recorded at least 1 minute long.

Press the **PLAY/PAUSE-Button** again to resume watching. This way you won't have to miss anything ever again if you quickly have to catch a phone call.

The Timeshift-Mode can be exited by pressing the **Stop-Button**.

To ensure the Timeshift-Mode is not stopped by accident you will be asked if you want to quit the Timeshift-Mode.

Use the **Navigation-Buttons** (▲▼) to select. Press the **OK-Button** to activate.

## 5.4 Watch a recording (Playback)

1. Press the **PVR-Button** to get to the selection of recordings.
2. Use the **Navigation-Buttons** (▲▼) to select a recording. Press the **OK-Button** to start playing it.



List of recordings

During replay you can see the control symbols in the Infobar. Press the **Navigation-Buttons** (▲▼) or press the **PVR-Button**, to get back to the list of recordings.

If you have previously watched the movie you will be asked to continue where you left off when you start watching it the next time. If you do not make a selection within 10 seconds the window will disappear and the movie starts from the beginning.

In PVR-Mode the Options-Buttons are mapped as described below:

**Rewind-Button** = Rewind

**PLAY/PAUSE-Button** = Pause and Play

**STOPP-Button** = Stop

**Fast Forward-Button** = Fast Forward

Keep in mind that you have to be in the PVR-Mode to use these options. You can check this by pressing the **OK-Button**. The Infobar will reveal and should show the depicted control symbols. If they are not shown you simply have to press the **PVR-Button**.

The infobar mustn't be shown for using the playback functions.

For leaving playback mode follow this steps:

1. Press the **STOPP-Button**.
2. You will be asked if you want to stop the replay of the recording. If you choose "Yes" you will be taken back to the last channel you were watching.

### **Skipping in a recording**

Button	Time
Button 1	15 sec. back
Button 4	1 min. back
Button 7	5 min. back

**Skip backward**

Button	Time
Button 3	15 sec. forward
Button 6	1 min. forward
Button 9	5 min. forward

**Skip forward**

### **Spooling in a recording**

The following speeds for spooling in a recording are available:

- Forward (**Fast Forward-Button**): 2x,4x,8x,16x,32x,48x,64x,128x
- Back (**Rewind-Button**): 8x,16x,32x,48x,64x,128x

Every press on the button increases the speed by one step.

## **5.5 Setting a marker (Bookmarks)**

Fast forward to the point where you want to add a marker and press the **0** on the **Numeric-Keypad**.

This will set a marker at the desired point.

The red dashes in the timeline correlate to a marker.



Infobar Movieplayer with Markers

## Skip to a marker

You can directly skip to a previously set marker during playback.

Press the **Arrow-Left-Button** to skip to the previous marker and press the **Arrow-Right-Button** to skip to the next marker.

To delete a marker skip to it as described above and press the **0** on the **Numeric-Keypad**.

## 5.6 Delete a recording

1. Press **PVR-Button**, to get to the selection of recordings.
2. With the **Navigation-Buttons** (**▲▼**) choose a recording and press the **Menu-Button**.
3. With the **Navigation-Buttons** (**▲▼**) choose the option “*delete*” and press the **OK-Button**. You will be asked if you want to delete the recording. As a control feature the name of the recording is displayed as well. Choose “*Yes*” and you will be taken back to the selection of recordings.

## 5.7 Movielist options

Follow this steps:

1. Press the **PVR-Button**, to access the Movielist.
2. Press the **Menu-Button**.

## Sorting options

You have the choice between two different sorting options:

1. Alphabetic sort
2. Sort by date

# List styles

You have the choice between different list styles:



List style default



List style default with extended description



List style single line



List style compact



List style compact with description

# Chapter 6

## Setup

### 6.1 Language

1. If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.
2. With the **Navigation-Buttons** (▲▼) choose the option “*Setup*” and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲▼) choose the option “*System*” and press the **OK-Button**.
4. With the **Navigation-Buttons** (▲▼) choose the option “*Language*” and press the **OK-Button**.
5. With the **Navigation-Buttons** (▲▼) choose your desired language and press the **OK-Button** in order to activate.

### 6.2 Customize

1. Press the **Menu-Button** to open the main OSD menu.
2. With the **Navigation-Buttons** (▲▼) choose the option “*Setup*” and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲▼) choose the option “*System*” and press the **OK-Button**.
4. With the **Navigation-Buttons** (▲▼) choose the option “*Customize*” and press the **OK-Button**.

#### Setup modes

There are three different user modes: **Simple**, **Intermediate** and **Expert**.

This gives you the possibility to set the level of options to your needs. Intermediate is the default setting. We will not explain the expert mode in detail in this manual.

#### 6.2.1 Simple Mode

**Shutdown when no button has been pressed for** Set dreambox into standby mode when no button has been pressed for a configured time. You can choose between 1-5 hours or disable this feature.

**Margin before record (in Minutes)** Set the desired forerun in minutes for a recording.

**Margin after record** Set the desired lag in minutes for a recording.

**Show blinking clock in display during recording** Select whether you want the time in the OLED-Display to blink during a recording or not.

**Infobar timeout** Set the desired time after which you want the Infobar to disappear. You can choose between one and ten seconds or “no timeout”.

**Show event-progress in channel selection** Show progress bar for each event in channel list.

### 6.2.2 Intermediate mode:

These settings supplement the settings in simple mode.

**Automatic wakeup from standby for zap timers** If this option is set to “**Yes**” your Dreambox will wakeup from standby even for zap-timers and not only for recordings.

**Recordings always have priority** If this option is set to “**Yes**” your Dreambox will automatically switch to the service which is supposed to be recorded in case there is a conflict with an existing timer. If you set this option to “**No**” you will be asked if you want to switch to the service which is supposed to be recorded.

**Text subtitle presentation** You can choose between the options “**black box**” or “**drop shadow**”.

**Show positioner movement** If you own a satellite dish with a positioner you can see a flashing symbol of a satellite dish on your screen if you set this option to “**yes**”.

**Enable multi bouquets** Set this option to “**Yes**” if you want to use multiple bouquets.

**Multi-EPG bouquet selection** Enable this option if you want to be able to choose the bouquet before the Multi-EPG is displayed.

**EPG cache time span** You can choose how many days in the future the EPG should be cached. Available options: 7, 14, 21, 28 days.

**Change bouquets in quickzap** If this option is set to “**Yes**” you will automatically be taken to the next bouquet while changing channels once you have reached the end of one bouquet.

**Alternative radio mode** Set this option to “**Yes**” if you want the handling in the Radio mode to be the same as in the TV mode.

**Action on long powerbutton press** Set your desired option what is supposed to happen if you push the Standby-Button for a few seconds. The possible options are “**show shutdown menu**” and “**immediate shutdown**”.

**Action on short powerbutton press** Set your desired option what is supposed to happen if you push the Standby-Button shortly. The possible options are “**show shutdown menu**”, “**immediate shutdown**” and “**standby**”.

**Position of finished Timers in Timerlist** You can choose the position of finished timers in the Timerlist overview. Available options: “**at end**” or “**at beginning**”.

**Use legacy virtual subservices detection** In normal case not needed (just for some broken cable providers...). Please try the normal mode first)

## 6.3 Timezone

1. Press the **Menu-Button** to open the main OSD menu.
2. With the **Navigation-Buttons** (▲▼) choose the option “*Setup*” and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲▼) choose the option “*System*” and press the **OK-Button**.
4. With the **Navigation-Buttons** (▲▼) choose the option “*Timezone*” and press the **OK-Button**.
5. With the **Navigation-Buttons** (◀▶) choose your timezone and press the **OK-Button**. Alternatively press the **green Options-Button** to save the setting or the **red Options-Button** to discard them.

## 6.4 A/V Settings

1. Press the **Menu-Button** to open the main OSD menu.
2. With the **Navigation-Buttons** (▲▼) choose the option “*Setup*” and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲▼) choose the option “*System*” and press the **OK-Button**.
4. With the **Navigation-Buttons** (▲▼) choose the option “*A/V Settings*” and press the **OK-Button**.

### Video output

This option selects to which output the video signal will be sent to.

**HDMI** If you have connected your TV to the HDMI output of your Dreambox set the “**Output type**” option to “**HDMI**”.

### Modus

Use the **Navigation-Buttons** (◀▶) to select the desired screen resolution

### Display 4:3 content as:/Display 16:9 content as:

**Pillarbox** 4:3 shows will be shown in full height on a 16:9 screen and you will have black bars on both sides.

**Pan&Scan** 4:3 shows will be shown in full width on a 16:9 screen and a bit will be cut off on the top and bottom.

**Just Scale** 4:3 shows will be shown in full height on a 16:9 screen and are stretched to fit the width of your screen.

**Nonlinear** Only the outer parts of the picture are stretched to prevent the center from being distorted. You will still have a full screen picture.

**AC3 default** If a program is transmitted with an AC3 audio track (e.g. Dolby Digital), the Dreambox switches automatically to this audio track. Volume control of AC3 signals only works if “*AC3 downmix*” is activated. Please keep in mind that *AC3 downmix* will disable the output of real AC3 signals on every audio out, even on the S/P DIF output.

**AC3 downmix** If you're watching a show with a AC3 audio track it will be changed into a stereo signal. Set this option to *"yes"* if you have an AV-Receiver that does not support Dolby Digital.

**General AC3 Delay** With this option you can adjust a delay of the AC3 signal. This might be helpful, if the sound (on activated AC3 output) is to hear sooner or later than the picture. The adjusted value has affect on all channels. With the **Navigation-Buttons** (◀▶) you can adjust a delay in 25ms-Steps.

**General PCM Delay** With this option you can adjust a delay of the PCM signal. This might be helpful, if the sound (on activated AC3 output) is to hear sooner or later than the picture. The adjusted value has affect on all channels. With the **Navigation-Buttons** (◀▶) you can adjust a delay in 25ms-Steps.

**Convert AC3+ to AC3** You can choose between the following options:

**always** The AC3+ stream will be always converted to a AC3 stream.

**controlled by HDMI** If the connected HDMI device supports the format AC3+, the AC3+ signal will be forwarded without altering it, otherwise the AC3+ stream will be converted to a AC3 stream.

**OSD visibility** With the **Navigation-Buttons** (◀▶) you can change the transparency of the gui.

**Scaler sharpness** With the **Navigation-Buttons** (◀▶) you can change the sharpness of the screen.

## 6.5 OLED-Display

1. Press the **Menu-Button** to open the main OSD menu.
2. With the **Navigation-Buttons** (▲▼) choose the option *"Setup"* and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲▼) choose the option *"System"* and press the **OK-Button**.
4. With the **Navigation-Buttons** (▲▼) choose the option *"Display Setup"* and press the **OK-Button**.

Now you can set the brightness of the OLED-display for standby and operation mode.

### Operation

1. With the **Navigation-Buttons** (▲▼) choose the option *"Operation"*.
2. With the **Navigation-Buttons** (◀▶) choose the brightness of the OLED-Display for operation mode.

### Idle Mode

1. With the **Navigation-Buttons** (▲▼) choose the option *"Idle Mode"*.
2. With the **Navigation-Buttons** (◀▶) choose the brightness of the OLED-Display for idle mode.

## 6.6 Network

### 6.6.1 Connection via network cable

#### Adapter-Settings

1. Press the **Menu-Button** to open the main OSD menu.



2. With the **Navigation-Buttons** (▲▼) choose the option “*Setup*” and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲▼) choose the option “*Network*” and press the **OK-Button**.
4. With the **Navigation-Buttons** (▲▼) choose the option “*Network Setup*” and press the **OK-Button**.
5. Use the **Navigation-Buttons** and the **Numeric-Keypad** to change the settings.

**Wired** This option toggles the integrated ethernet interface on and off.

## Manually setting an IP address

These settings are only needed if you want to configure your Network manually.

1. With the **Navigation-Buttons** (▲▼) choose the cable based network “*Wired*” and press the **OK-Button**.
2. Press the **yellow Options-Button**.
3. With the **Navigation-Buttons** (▲▼) choose the option “*Method (IPv4)*” and press the **OK-Button**.
4. With the **Navigation-Buttons** (◀▶) choose the option “*manual*” and press the **OK-Button**.

**Address (IPv4)** Enter the IP address here.

Free IP-Addresses: *192.168.0.2 - 192.168.0.254*

**Mask (IPv4)** Enter the subnet mask (Usually 255.255.255.0).

**Gateway (IPv4)** Enter the router’s IP address here, if the Dreambox is connected to the Internet by a router.

Usually this is: *192.168.0.1*

To save the settings and activate the network connection press the **OK-Button**.

## DNS-Settings

1. With the **Navigation-Buttons** (▲▼) choose the cable based network “*Wired*” and press the **OK-Button**.
2. Press the **blue Options-Button** to open the DNS-Settings dialog.

The colored buttons in this menu are mapped to the following functions:

**red Options-Button** Delete selected nameserver.

**green Options-Button** Add IPv4-nameserver.

**yellow Options-Button** Add IPv6-nameserver.

**blue Options-Button** Skip changes.

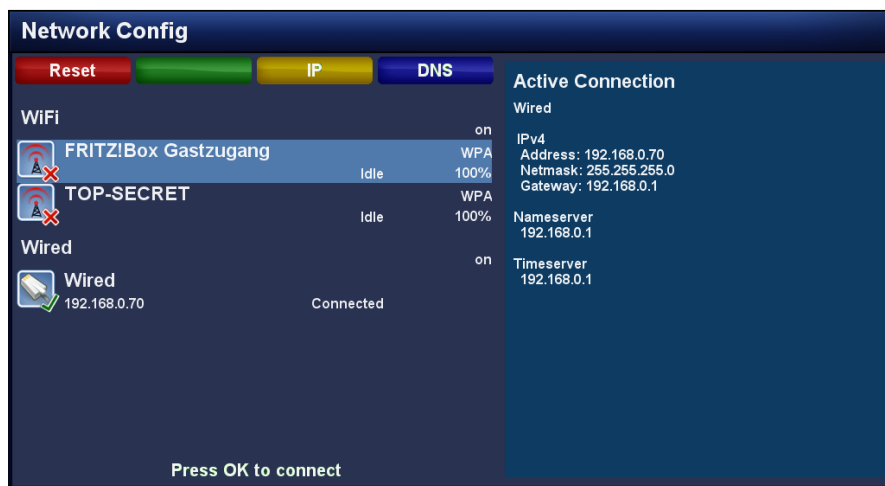
**Nameserver** Enter the DNS-Server’s IP address here. DNS is used to translate a Domain name to an IP address. Normally, if the Type is set to LAN, there is no need for a DNS entry. If the Dreambox is connected to the Internet over a router, enter the router’s IP address here.



Note: If you have set the “*Method (IPv4)*” option to “*dhcp*” you won’t have to enter anything here since this will be done automatically.

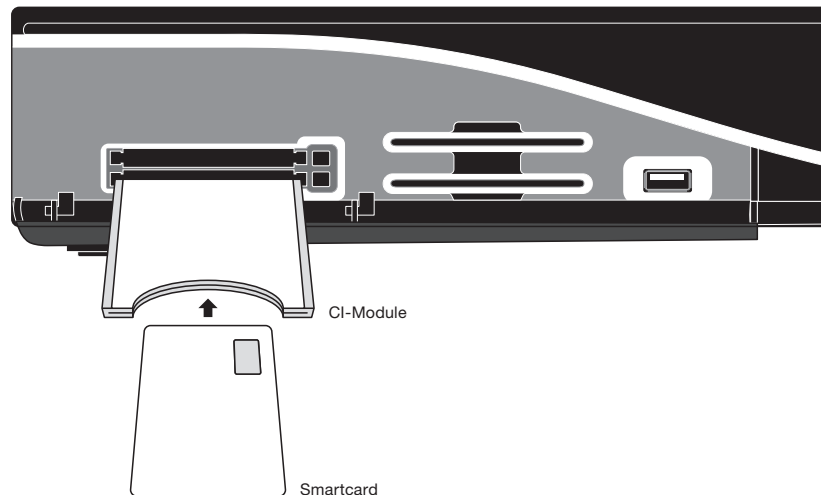
## 6.6.2 Integrated wireless (WLAN)

1. Press the **Menu-Button** to open the main OSD menu.
2. With the **Navigation-Buttons (▲▼)** choose the option “*Setup*” and press the **OK-Button**.
3. With the **Navigation-Buttons (▲▼)** choose the option “*Network*” and press the **OK-Button**.
4. With the **Navigation-Buttons (▲▼)** choose the option “*Network Setup*” and press the **OK-Button**.
5. Please put your WiFi-USB-Stick in one of the USB ports of your Dreambox.
6. A new menu entry “**WiFi**” will show.
7. With the **Navigation-Buttons (▲▼)** choose the option “**WiFi**”.
8. Press the **green Options-Button** to scan for available WiFi-networks.
9. With the **Navigation-Buttons (▲▼)** choose the WiFi-network you want to connect and press the **OK-Button**.
10. You will be asked to enter the password by which the WiFi-network is secured. Please take care that the password is case-sensitive. Use the **Numeric-Keypad** to enter the password.
11. If the connection has been successful, the status will switch from “**idle**” to “**Connected**”.



found Wireless Networks

## 6.7 Common-Interface



Use of the ci slot

1. Press the **Menu-Button** to open the main OSD menu.
2. With the **Navigation-Buttons** (▲▼) choose the option “*Setup*” and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲▼) choose the option “*Common-Interface*” and press the **OK-Button**.

**Reset** This options resets your CI-Module. This function is needed if you are experiencing trouble with one of your encrypted services.

**Init** This option initializes an inserted Smartcard. It is recommended to insert the CI-Module with the Smartcard already in it.

**No module found** No CI-Module is inserted into the slot. If you have inserted one the name and firmware version will show. Navigate to this option and press the **OK-Button** to get to the extended options of the inserted CI-Module. The option strongly depend on the type of module inserted and therefore will not be explained in detail. Refer to the user’s manual of your CI-Module for additional information on this topic.

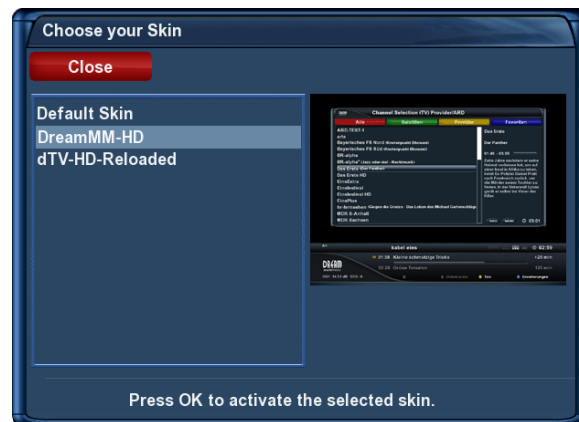
**Can decrypt multiple services** You can set if your CI-Module can decrypt multiple services or not. Please note that not every CI Module supports this feature. Check the instruction manual of your CI-Module for information about this feature. The “*Auto*” option only works with so called Alphacrypt Modules. The **Exit-Button** will quit this menu.

**High bitrate support** You can set if your CI-Module can process high bitrates (30.000). Please note that not every CI Module supports this feature. Check the instruction manual of your CI-Module for information about this feature.

## 6.8 Skin

1. Press the **Menu-Button** to open the main OSD menu.

2. With the **Navigation-Buttons** (▲▼) choose the option “*Setup*” and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲▼) choose the option “*System*” and press the **OK-Button**.
4. With the **Navigation-Buttons** (▲▼) choose the option “*Skin*” and press the **OK-Button**.



Skin Selection

The name of the default skin is “*Default Skin*”.

With the **Navigation-Buttons** (▲▼) choose your desired skin and press the **OK-Button**.

To fully activate the skin the system needs to be restarted. Use the **Navigation-Buttons** (▲▼) to select your desired option and press the **OK-Button**.

## 6.9 Factory reset

1. Press the **Menu-Button** to open the main OSD menu.
2. With the **Navigation-Buttons** (▲▼) choose the option “*Setup*” and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲▼) choose the option “*Factory Reset*” and press the **OK-Button**.

You will be asked if you really want to reset all your settings to the factory defaults. If you select “*yes*” all your settings and bouquets will be lost. Afterwards your Dreambox will be restarted automatically.

# Chapter 7

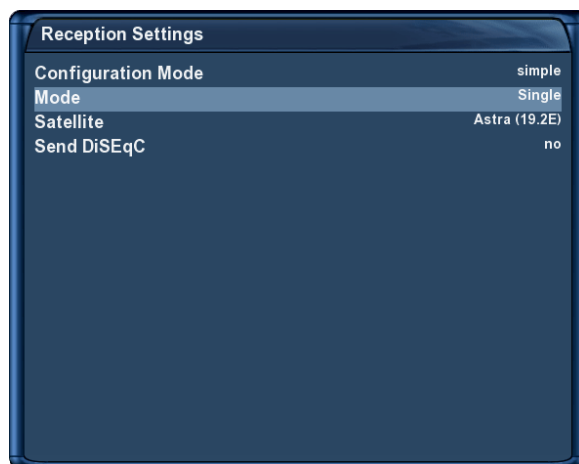
## Service searching

In this chapter you will learn how to setup the tuner configuration for the reception with a satellite-dish (DVB-S/S2), via cable television (DVB-C) or via digital terrestrial television (DVB-T) in your dreambox and how to perform a service scan.

### 7.1 DVB-S2 Tuner-Configuration

#### 7.1.1 Single satellite – direct connection

Use this type of configuration if you want to receive a single satellite with a Single Universal LNB. The coax cable is directly connected from your Dreambox to the LNB.



Single satellite – direct connection

Follow this steps:

1. Press the **Menu-Button** to open the main OSD menu.
2. With the **Navigation-Buttons** (▲▼) choose the option “*Setup*” and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲▼) choose the option “*Service searching*” and press the **OK-Button**.
4. With the **Navigation-Buttons** (▲▼) choose the option “*Tuner configuration*” and press the **OK-Button**.
5. With the **Navigation-Buttons** (▲▼) choose the option “*DVB-S2 Tuner*” and press the **OK-Button**.
6. With the **Navigation-Buttons** (▲▼) choose the option “*Mode*”.

7. With the **Navigation-Buttons** (◀▶) choose the option *“Single”*.
8. With the **Navigation-Buttons** (▲▼) choose the option *“Satellite”*.
9. With the **Navigation-Buttons** (◀▶) choose the desired Satellite.
10. Press the **OK-Button** to save this settings.

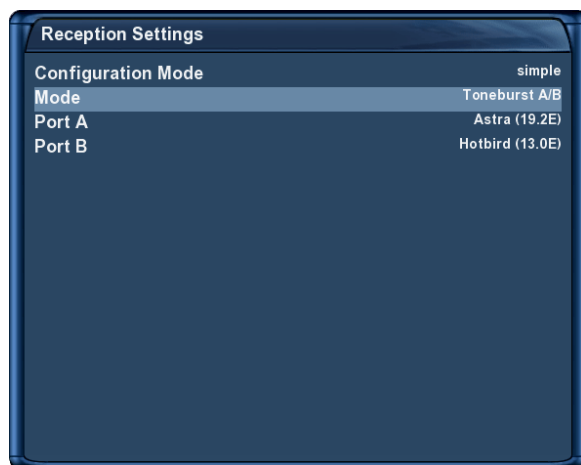
You are taken back to the *“Choose tuner”* menu.



If you have trouble with *“Tune failed”* messages please set the *“Send DiSEqC only on sattelite change”* to *“yes”*.

### 7.1.2 Two satellites via Toneburst A/B

Use this type of configuration if you want to receive two satellites from one LNB each. It does not matter if you use one or two dishes to achieve this. Connect the two coax cables from the two LNBs to a so-called Toneburst switch and connect the coax cable from the Toneburst switch to your Dreambox.



Two satellites via Toneburst

Follow this steps:

1. Press the **Menu-Button** to open the main OSD menu.
2. With the **Navigation-Buttons** (▲▼) choose the option *“Setup”* and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲▼) choose the option *“Service searching”* and press the **OK-Button**.
4. With the **Navigation-Buttons** (▲▼) choose the option *“Tuner configuration”* and press the **OK-Button**.
5. With the **Navigation-Buttons** (▲▼) choose the option *“DVB-S2 Tuner”* and press the **OK-Button**.
6. With the **Navigation-Buttons** (▲▼) choose the option *“Mode”*.
7. With the **Navigation-Buttons** (◀▶) choose the option *“Toneburst A/B”*.
8. With the **Navigation-Buttons** (▲▼) choose the option *“Port A”*.

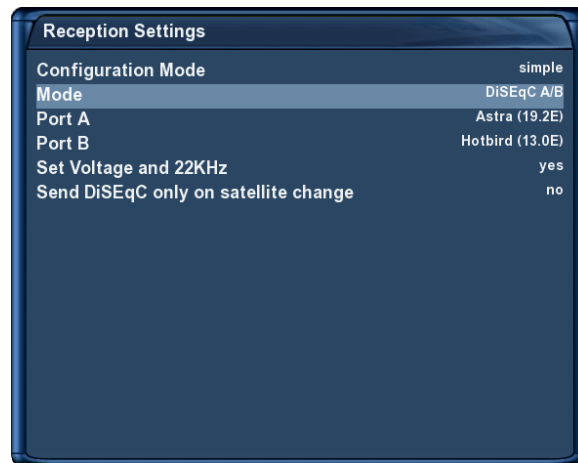
9. With the **Navigation-Buttons** (◀▶) choose the desired Satellite.
10. With the **Navigation-Buttons** (▲▼) choose the option “*Port B*”.
11. With the **Navigation-Buttons** (◀▶) choose the desired Satellite.
12. Press the **OK-Button** to save this settings.

Make sure you know which satellite is connected to which input on the Toneburst switch. If you do not find any services in the transponder scan later, exchange the two satellites in this list and try again.

### 7.1.3 Two satellites via DiSEqC A/B

Use this type of configuration if you want to receive two satellites from one Twin Universal or Quad Universal LNB. It does not matter if you use one or two dishes to achieve this.

In this case the LNBs are connected to a so-called Multiswitch from which the signal is via coax cabled to the satellite receivers (Dreamboxes) in your household.



Two satellites via DiSEqC A/B

Follow this steps:

1. Press the **Menu-Button** to open the main OSD menu.
2. With the **Navigation-Buttons** (▲▼) choose the option “*Setup*” and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲▼) choose the option “*Service searching*” and press the **OK-Button**.
4. With the **Navigation-Buttons** (▲▼) choose the option “*Tuner configuration*” and press the **OK-Button**.
5. With the **Navigation-Buttons** (▲▼) choose the option “*DVB-S2 Tuner*” and press the **OK-Button**.
6. With the **Navigation-Buttons** (▲▼) choose the option “*Mode*”.
7. With the **Navigation-Buttons** (◀▶) choose the option “*DiSEqC A/B*”.
8. With the **Navigation-Buttons** (▲▼) choose the option “*Port A*”.

9. With the **Navigation-Buttons** (◀▶) choose the desired Satellite.
10. With the **Navigation-Buttons** (▲▼) choose the option “Port B”.
11. With the **Navigation-Buttons** (◀▶) choose the desired Satellite.
12. Press the **OK-Button** to save this settings.

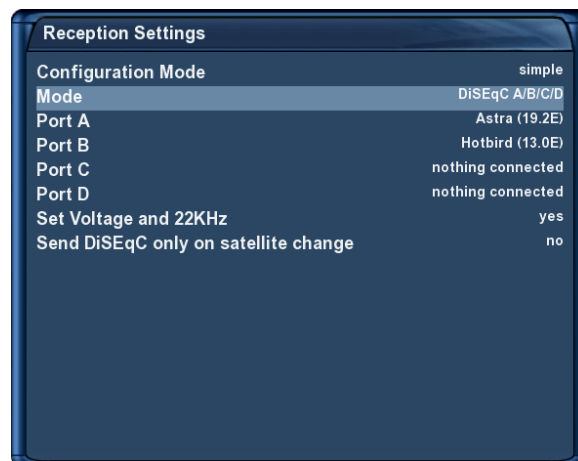
Make sure you know which satellite is connected to which input on the Toneburst switch. If you do not find any services in the transponder scan later, exchange the two satellites in this list and try again.



If you have trouble with “Tune failed” messages please set the “Send DiSEqC only on satellite change” and “Set voltage and 22KHz” to “yes”.

#### 7.1.4 Four satellites via DiSEqC A/B/C/D

Use this type of configuration if you want to receive four satellites from one Single Universal or Twin Universal LNB for four or eight parties. It does not matter if you use one or two dishes to achieve this. In this case the LNBs are connected to a so-called Multiswitch from which the signal is via coax cabled to the satellite receivers (Dreamboxes) in your household.



Four satellites via DiSEqC A/B/C/D

Follow this steps:

1. Press the **Menu-Button** to open the main OSD menu.
2. With the **Navigation-Buttons** (▲▼) choose the option “Setup” and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲▼) choose the option “Service searching” and press the **OK-Button**.
4. With the **Navigation-Buttons** (▲▼) choose the option “Tuner configuration” and press the **OK-Button**.
5. With the **Navigation-Buttons** (▲▼) choose the option “DVB-S2 Tuner” and press the **OK-Button**.
6. With the **Navigation-Buttons** (▲▼) choose the option “Mode”.

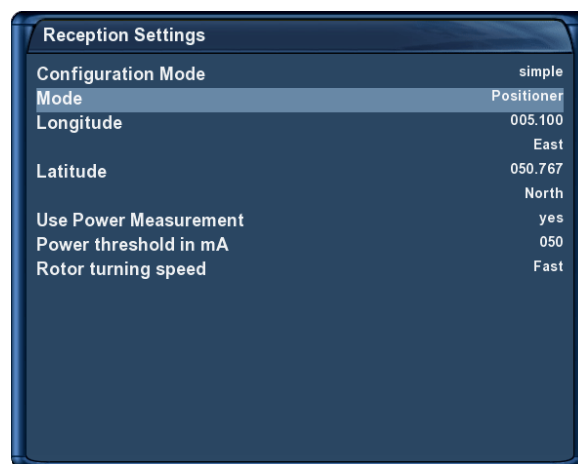


7. With the **Navigation-Buttons** (◀▶) choose the option “*DiSEqC A/B/C/D*”.
8. With the **Navigation-Buttons** (▲▼) choose the option “*Port A*”.
9. With the **Navigation-Buttons** (◀▶) choose the desired Satellite.
10. With the **Navigation-Buttons** (▲▼) choose the option “*Port B*”.
11. With the **Navigation-Buttons** (◀▶) choose the desired Satellite.
12. With the **Navigation-Buttons** (▲▼) choose the option “*Port C*”.
13. With the **Navigation-Buttons** (◀▶) choose the desired Satellite.
14. With the **Navigation-Buttons** (▲▼) choose the option “*Port D*”.
15. With the **Navigation-Buttons** (◀▶) choose the desired Satellite.
16. Press the **OK-Button** to save this settings.

Make sure you know which satellite is connected to which input on the Toneburst switch. If you do not find any services in the transponder scan later, exchange the mentioned satellites in this list and try again.

### 7.1.5 Stab Positioner using USALS

Use this type of configuration if you want to receive many satellites with a Stab positioner from a Single Universal LNB. The coax cable is directly connected from your Dreambox to the LNB.



Stab Positioner using USALS

This menu is meant for a Stab positioner. You only have to enter the geographical details of your residence. At <http://www.heavens-above.com> you can find the coordinates of your residence.

The rest is done automatically by your Dreambox with build-in USALS. USALS is a model for calculating the position of all satellites in orbit with a margin of error less than 0.1 degrees. USALS was developed by the Stab company. Everything is done automatically and does not require any technical know-how.

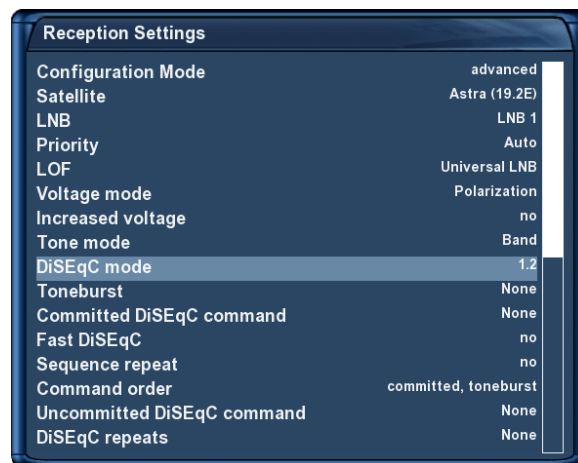
Follow this steps:

1. Press the **Menu-Button** to open the main OSD menu.

2. With the **Navigation-Buttons** (▲▼) choose the option “*Setup*” and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲▼) choose the option “*Service searching*” and press the **OK-Button**.
4. With the **Navigation-Buttons** (▲▼) choose the option “*Tuner configuration*” and press the **OK-Button**.
5. With the **Navigation-Buttons** (▲▼) choose the option “*DVB-S2 Tuner*” and press the **OK-Button**.
6. With the **Navigation-Buttons** (▲▼) choose the option “*Mode*”.
7. With the **Navigation-Buttons** (◀▶) choose the option “*Rotor*”.
8. With the **Navigation-Buttons** (▲▼) choose the option “*Longitude*”.
9. Use the **Numbers 0-9** to enter the coordinates of your residence.
10. With the **Navigation-Buttons** (▲▼) choose the option “*Latitude*”.
11. Use the **Numbers 0-9** to enter the coordinates of your residence.
12. Press the **OK-Button** to save this settings.

### 7.1.6 Stab Positioner without USALS

Use this type of configuration if you want to receive many satellites without a Stab positioner from a Single Universal LNB. The coax cable is directly connected from your Dreambox to the LNB.



Stab Positioner without USALS

Follow this steps:

1. Press the **Menu-Button** to open the main OSD menu.
2. With the **Navigation-Buttons** (▲▼) choose the option “*Setup*” and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲▼) choose the option “*Service searching*” and press the **OK-Button**.

4. With the **Navigation-Buttons** (▲▼) choose the option “*Tuner configuration*” and press the **OK-Button**.
5. With the **Navigation-Buttons** (▲▼) choose the option “*DVB-S2 Tuner*” and press the **OK-Button**.
6. With the **Navigation-Buttons** (▲▼) choose the option “*Configuration*”.
7. With the **Navigation-Buttons** (◀▶) choose the option “*Extended*”.
8. With the **Navigation-Buttons** (▲▼) choose the option “*Satellite*”.
9. With the **Navigation-Buttons** (◀▶) choose the desired Satellite.
10. With the **Navigation-Buttons** (▲▼) choose the option “*LNB*”.
11. Press the **Navigation-Button** (▶).
12. With the **Navigation-Buttons** (▲▼) choose the option “*DiSEqC-Modus*”.
13. With the **Navigation-Buttons** (◀▶) choose the option “*1.2*”.
14. With the **Navigation-Buttons** (▲▼) choose the option “*Use usals for this sat*”.
15. With the **Navigation-Buttons** (◀▶) choose the option “*No*”.
16. With the **Navigation-Buttons** (▲▼) choose the option “*Stored position*”.
17. Enter position of the selected satellite which is saved in the positioner by using the **Numeric Keypad**. Refer to the instruction manual of your positioner for the number of the saved position.
18. Press the **OK-Button** to save this settings.

### 7.1.7 Tuner B setup

The same setup possibilities that applied for Tuner A also apply for Tuner B. There are some additional configuration options, as described as follows

**Equal to socket A** Use this setting if Tuner B should use the same settings as Tuner A.

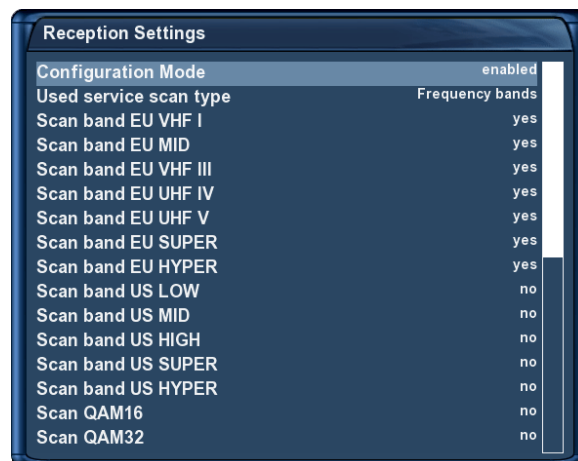
**Nothing connected** Use this option if no cable is attached to Tuner B.

**Secondary cable from motorized LNB** Use this option if you are using a positioner with a Twin- or Quad LNB and have 2 cables from the LNB connected to the LNB1 and LNB2 in. Tuner A controls the positioner and using Tuner B you can continue watching TV on the same satellite while recording. All others are grayed out.

## 7.2 DVB-C Tuner configuration

Follow this steps:

1. Press the **Menu-Button** to open the main OSD menu.
2. With the **Navigation-Buttons** (▲▼) choose the option “*Setup*” and press the **OK-Button**.



DVB-C Tuner configuration

3. With the **Navigation-Buttons** (▲▼) choose the option “*Service searching*” and press the **OK-Button**.
4. With the **Navigation-Buttons** (▲▼) choose the option “*Tuner configuration*” and press the **OK-Button**.
5. With the **Navigation-Buttons** (▲▼) choose the “*DVB-C Tuner*” and press the **OK-Button**.

## Frequency bands

This type of searching scans the frequencies used by most cable providers. This setting is the default.

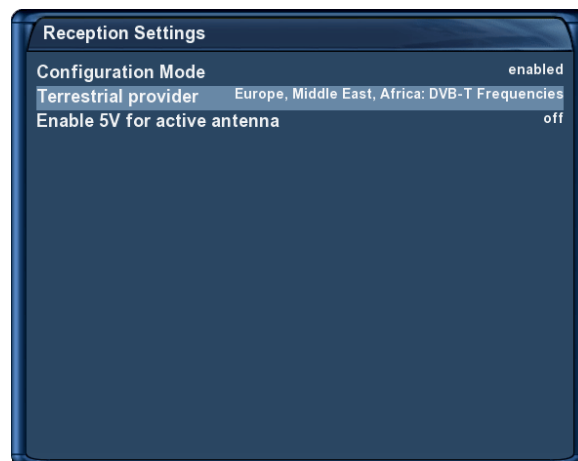
1. With the **Navigation-Buttons** (▲▼) choose the option “*Used service scan type*”.
2. With the **Navigation-Buttons** (◀▶) choose the option “*Frequency bands*”.
3. Press the **OK-Button** to save this settings.

## Frequency steps

This type of searching scans the set frequencies step by step in a set increment.

1. With the **Navigation-Buttons** (▲▼) choose the option “*Used service scan type*”.
2. With the **Navigation-Buttons** (◀▶) choose the option “*Frequency Steps*”.
3. With the **Navigation-Buttons** (▲▼) choose the option “*Frequency scan step size (kHz)*”.
4. Use the **Numeric-Keypad** to set the step increment.
5. Press the **OK-Button** to save this settings.

The same setup possibilities apply if you are using a second DVB-C tuner in your Dreambox (see [Chapter 7.2 DVB-C Tuner configuration](#) on page 62).



DVB-T Tuner-Configuration

## 7.3 DVB-T Tuner-Configuration

Follow this steps:

1. Press the **Menu-Button** to open the main OSD menu.
2. With the **Navigation-Buttons** (▲▼) choose the option “*Setup*” and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲▼) choose the option “*Service searching*” and press the **OK-Button**.
4. With the **Navigation-Buttons** (▲▼) choose the option “*Tuner configuration*” and press the **OK-Button**.
5. With the **Navigation-Buttons** (▲▼) choose the “*DVB-T Tuner*” and press the **OK-Button**.
6. With the **Navigation-Buttons** (◀▶) choose your region.
7. If you have connected an active antenna and you want to run the antenna without its original power supply set the “*Enable 5V for active antenna*” option to “*On*”.
8. Press the **OK-Button** to save this settings.

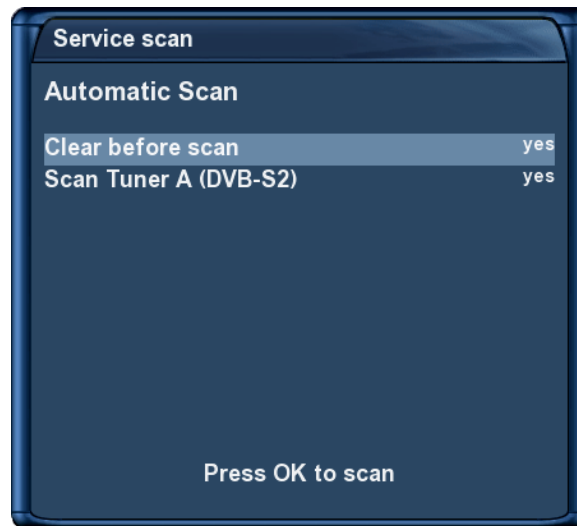
The same setup possibilities apply if you are using a second DVB-T tuner in your Dreambox (see *Chapter 7.3 DVB-T Tuner-Configuration* on page 64).

## 7.4 Automatic scan

Follow this steps:

1. Press the **Menu-Button** to open the main OSD menu.
2. With the **Navigation-Buttons** (▲▼) choose the option “*Setup*” and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲▼) choose the option “*Service searching*” and press the **OK-Button**.

4. With the **Navigation-Buttons** (▲▼) choose the option “*Automatic scan*” and press the **OK-Button**.
5. Set all tuners with which you want to search to “*yes*”. Use the **Navigation-Buttons** (▲▼) to choose the tuner and the **Navigation-Buttons** (◀▶) to switch to “*yes*”.
6. Press the **OK-Button** to start the scan.



Automatic scan

Use the **Navigation-Buttons** (▲▼◀▶) to set the “*Clear before scan*” option to “*Yes*” if you want to delete all services before the scan starts. Otherwise leave the setting to “*No*” which results in only new services being added to the channel list. In order to find the new services, follow this steps:

1. Press the **Navigation-Buttons** (▲▼) to open the channellist.
2. Press the **green Options-Button** to access the “*Satellites*” view.
3. With the **Navigation-Buttons** (▲▼) choose the option “*New*” and press the **OK-Button**.

Now you see all new services, which were added by the scan.



The search will only be run once if you are using two tuners of the same type (2x DVB-S/S2, 2x DVB-T or 2x DVB-C) since the service list is the same for both of them. It is not necessary to run the search separately for each tuner.



You can see the progress of the scan here.



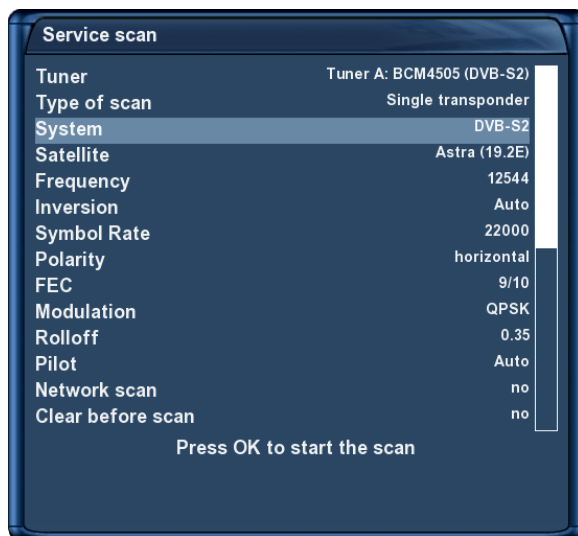
The scan is done once you see this menu. It shows how many channels were found during the scan.

Press the **OK-Button** to store the found channels or the **EXIT-Button** to cancel.

## 7.5 Manual scan

Follow this steps:

1. Press the **Menu-Button** to open the main OSD menu.
2. With the **Navigation-Buttons** (▲▼) choose the option “*Setup*” and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲▼) choose the option “*Service searching*” and press the **OK-Button**.
4. With the **Navigation-Buttons** (▲▼) choose the option “*Manual scan*” and press the **OK-Button**.



Manual scan

With the **Navigation-Buttons** (▲▼) choose the tuner on which you want to run the manual service scan. All other options can be changed by using the **Navigation-Buttons** (▲▼◀▶). Press the **OK-Button** to start the manual scan.



# Chapter 8

## Systeminformation

### 8.1 Service

This window shows detailed technical information about the current service.



channel information

Follow this steps:

1. Press the **MENU-Button** in order to open the main menu.
2. Navigate to the option “Information” and press the **OK-Button**.  
The “Information” menu will open up.
3. Navigate to the option “Service” and press the **OK-Button**.

Press one of the four Options-Buttons to get the following information:

**red** Serviceinfo

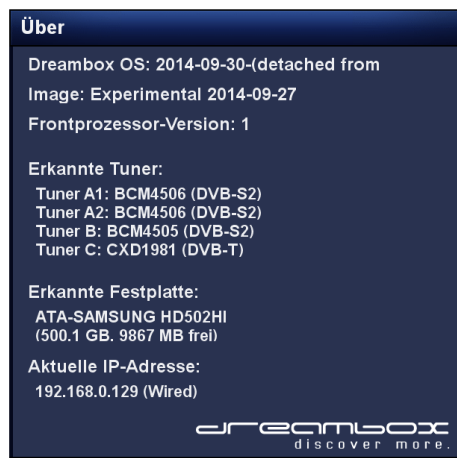
**green** PIDs

**yellow** Transponder

**blue** Tuner status

## 8.2 About (Hard- and Software)

This window shows all relevant information about the Hard- and Software of your Dreambox.



Hardware- and Software-Information

Follow this steps:

1. Press the **MENU-Button** in order to open the main menu.
2. Navigate to the option “Information” and press the **OK-Button**.  
The “Information” menu will open up.
3. Navigate to the option “About...” and press the **OK-Button**.

# Chapter 9

## Updating the software

### 9.1 Backing up your settings

Before installing newer software on your Dreambox you should backup your settings, otherwise they will be lost.

1. Press the **Menu-Button** to open the main OSD menu.
2. With the **Navigation-Buttons** (▲▼) choose the option “*Setup*” and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲▼) choose the option “*Software management*” and press the **OK-Button**.
4. With the **Navigation-Buttons** (▲▼) choose the option “*Backup system settings*” and press the **OK-Button**.

### 9.2 Restoring your settings

1. Press the **Menu-Button** to open the main OSD menu.
2. With the **Navigation-Buttons** (▲▼) choose the option “*Setup*” and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲▼) choose the option “*Software management*” and press the **OK-Button**.
4. With the **Navigation-Buttons** (▲▼) choose the option “*Restore system settings*” and press the **OK-Button**.

## 9.3 Updating a new software

### 9.3.1 With browser

Requirements:

- PC with browser like Firefox, Opera, Internet Explorer
- latest Software for your Dreambox, downloadable under [www.leontechltd.com](http://www.leontechltd.com)
- 1 networkcable
- DHCP-Server

If you connect your dreambox directly to the pc you need a “*Cross-Over*” networkcable, if you connect your Dreambox to a switch/hub/router you need a (“*common*” networkcable - a so-called patchcable. If your dreambox will not start anymore, you are able to get running again with the help of the so called “*Rescue Loader*”.

The following steps assume you have a DHCP server. Usually dhcp-server is activated by default in delivery condition of your router.

First of all, power down the Dreambox to standby and then switch it off by the power switch on the back. Idle mode is not enough! Follow these steps:

1. Press the **Menu-Button** to open the main OSD menu.
2. With the **Navigation-Buttons** (▲▼) choose the menu “*Standby/Restart*” and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲▼) choose the option “*Standby*” and press the **OK-Button**.
4. Please wait until your dreambox is in standby mode.
5. Press and hold the **Standby-Button** at the frontpanel.
6. The text “**Enter setup?**” should appear in the OLED-display.
7. After a few seconds the text **http://dm7080** or alternatively an IP-Adress, e.g. *http://192.168.0.80* should appear in the OLED-Display. If you still see “*DHCP*” instead of the above mentioned addresses, the box still searches for a dhcp-server in your network. Please wait a few seconds.

If there is no ip-address after about 30 seconds, check your dhcp-server settings and the cabling of your network.

8. You can release the **Standby-Button** now. Your dreambox is now in “*Maintenance mode*”.

In maintenance mode the Rescue-Loader of your dreambox offers the following functions:

- Online Recovery - The latest available software will be downloaded from the Internet and directly installed.
- Show Information about the hardware

- Install new software
- Backup your dreambox

Now, open a browser on your PC (Firefox, Opera, Internet Explorer).

1. Enter the address from the OLED-Display **http://dm7080** or "**http://IP-Adress**".  
"**IP-Adress**" has to be replaced by the ip-address shown in the display of your box.

In our example it would look like this:

**http://dm7080**

2. Click on "**Online recovery**" on the given site in your Browser.
3. Click on "**GO**" to start the recovery process. Your dreambox will try to download and install the latest software now. If there is no internet connection available at this moment, it will try to install the software from a previous recovery session.



The progress bar only works with activated Javascript. Make sure that Javascript is activated in your Browser.

4. After the recovery process has been finished, click on "**Click here to reboot**". Your dreambox will reboot and after a few seconds the installation wizard welcomes you. (See chapter [2.3 Start wizard](#) on page [15](#)).

# Chapter 10

## Troubleshooting

Problem	Possible cause	Solution
No audio, no video, OLED-Display lit	Faulty wiring	Check wiring and connections
	Faulty LNB	Exchange LNB
	Wrong Tuner setting	Review settings (see <i>chapter 7.1 DVB-S2 Tuner-Configuration on page 56</i> )
	Dish aligned incorrectly	Realign dish
Beamlike blackouts in the video	Heavy rain or snow	Remove snow from dish
	Dish aligned incorrectly	Realign dish
	Dish is too small	Install larger dish
	An obstacle between dish and satellite (e.g. house or tree)	Reposition dish so it has a clear “view” towards the satellite
No reception on a channel that was working before	Dish aligned incorrectly or faulty	Check dish
	Channel is transmitted in a new slot	Start service scan (see chapter 11)
	The transmission of the channel was terminated	_____
You cannot record anything anymore	Hard disk is full	Delete no longer needed recordings
Remote control is not working	Batteries are inserted incorrectly	Remove batteries and check polarity
	Batteries are empty	Insert new batteries
	Wrong remote control mode (Dream-Mode, TV-Mode)	Press Dream-Mode or TV-Mode button
	Software is not reacting	Reboot Dreambox
Dreambox does not react	Dreambox is locked up	Reboot Dreambox

# Chapter 11

## TV-Mode setup

With the Dreambox remote control you have the possibility to control the dreambox and your tv device with only one remote control. In order that your tv device reacts to the signals of the remote control, you have to program it before.

There are 3 options for programming the rcu:

1. Programming with Code
2. Programming by Learning function
3. Programming by Scan function

Please read the steps of each programming method carefully, before you proceed.

### Programming with Code

In this programming method a manufacturer-specific code is used (refer to device list on [www.leontechltd.com](http://www.leontechltd.com)).

1. Press the **OK-Button** and the **TV-Mode-Button** for ~ 3 seconds.
2. Enter the desired 3-digit Code 000-999 with the **Numeric-Keypad**. Now press the Mute- or Volume Button in order to check if the tv device responds to the just entered code. If there is no response, please try it again with the next code from the list, according to the steps above.
3. If none of the given codes is suitable, please proceed with the chapter *“Programming by Scan function”*.



If no code is entered within 6 seconds or the **TV-Mode-Button** is pressed, the remote control will exit the programming mode automatically.

### Programming by Scan function

In this programming method the dreambox rcu sends every second another shutdown-code to the tv device, until the tv shuts off. Use this method of programming, if the *Programming with Code* wasn't successfully, or the vendor of your specific tv device isn't listed.

1. Press the **OK-Button** and the **TV-Mode-Button** for ~ 3 seconds.

2. Enter **777** with the **Numeric-Keypad**, in order to start the scan mode and point the rcu (with ir-sensor) into the direction of your tv device.
3. As soon as the tv device shuts down (Hint: Depending on the type of your tv device, this can last some minutes), immediately press the **OK-Button** to store the current code and leave the scan-mode.

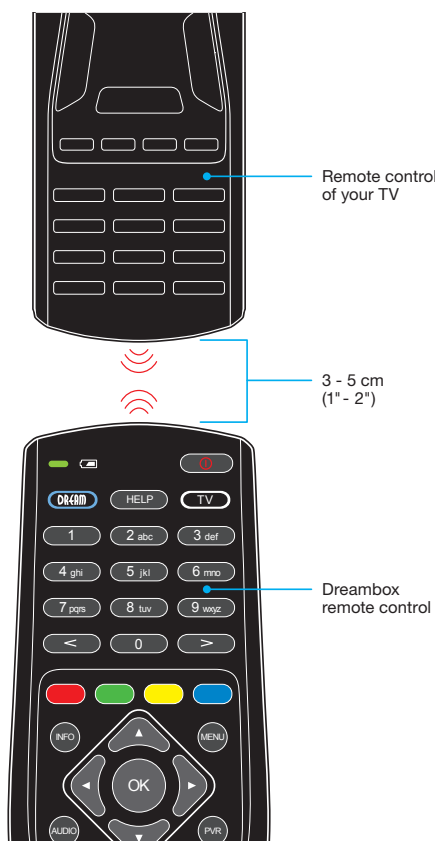


If no code is entered within 6 seconds or the **TV-Mode-Button** is pressed, the remote control will exit the programming mode automatically.

## Programming by Learning function

In this programming method the functions of the keys of your tv-remote control unit can be adopted to the dreambox rcu one-on-one. Only the **DREAM-** and the **TV-Mode-Button** couldn't be programmed.

1. Press the **OK-Button** and the **TV-Mode-Button** for ~ 3 seconds.
2. Enter **888** with the **Numeric-Keypad**, in order to start the Learning function.
3. Press the desired button on the dreambox rcu, (except the **DREAM-** and the **TV-Mode-Button**) which you want to program.
4. Place the dreambox rcu and the tv-device rcu towards each other at a distance of ~ 3-5 cm.



5. Press the desired button on the tv-device rcu for 2-3 seconds. Release this button, it is now programmed.



6. If you want to program another Button or you made a mistake during programming, just repeat this process starting from step 3.



If no code is entered within 6 seconds or the **TV-Mode-Button** is pressed, the remote control will exit the programming mode automatically.

## Dreambox-Mode and TV-Mode

### Dreambox-Modus

Press the **DREAM-Mode-Button** in order to activate the Dreambox-Mode in your rcu. Use the two DIP-Switches in the battery compartment on the back, if you are going to use more than one dreambox in a single room.

### TV-Mode

By pressing the **TV-Mode-Button** the remote control unit switches to the tv-mode and the last stored rcu-code is used. Now you can use the dreambox rcu instead of the tv-device rcu in order to control your tv-device.

## Duration of lighting of the Dreambox-Symbol

You can adjust (in seconds) the duration of how long the dreambox-symbol at the bottom is lit-up after you once pressed a button on the rcu.

1. Press the **OK-Button** and the **DREAM-Mode-Button** for ~ 3 seconds. The **DREAM-Mode-Button** flashes 3 times.
2. Press one of the keys 0-9 on the **Numeric-Keypad**. 0 means “off”, 1-9 means the time in seconds.

## Factory reset

To reset the remote control to the factory defaults, follow these steps:

1. Press the **TV-Mode-Button** and the **OK-Button** until the **TV-Mode-Button** lights up.
2. Press **999** on the **Numeric-Keypad**.

# Chapter 12

## Technical data

- Dreambox OS
- Dreambox API
- 7000 DMIPS Dual Core Processor
- MPEG2 / H.264 Hardware decoding (DVB compliant)
- 2x Smartcard-Reader (Dreamcrypt™)
- 2x DVB Common-Interface
- 2x HDMI®1.4a (1x Input, 1x Output)
- 10/100/1000 MBit/s compatible Gigabit Ethernet Port
- Internal SATA Connector: Support for all regular hard disks (2,5" and 3,5" SATA)
- 2x USB 2.0 port (2x rear)
- 2x USB 3.0 High Speed port (1x front, 1x rear)
- SD-Card Reader
- Mini-USB Service-Port
- OLED-Display
- Twin DVB-S2 Tuner
- 2x Plug&Play Tuner slots for optional tuners
- 2 GByte RAM
- 4 GByte Flash
- S/P-DIF
- EPG-support (Electronic Program Guide)
- Integrated Teletext
- Support for DiSEqC™ 1.0/1.1/1.2 and USALS
- Multi-Language OSD

## **Additional info:**

### **DVB/S2-Tuner:**

supports DVB-S2 Broadcast Services profile

Frequency Range: 950 - 2150 MHz

Demodulation DVB-S (QPSK) EN 302 307

Signal Level Input - 65 dBm...- 25 dBm

Noise factor 12 dB max.

DBS-Tuner Input Connector F-Type female

Input Impedance 75 Ohm

AFC-Capture range: +/- 3 MHz

Demodulation Shaped QPSK und 8PSK

FEC Viterbi and Reed-Solomon

Viterbi rates 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9

Roll-off Factor 35 %

### **Common-Interface:**

Common-Interface, Power Consumption max. 0,3A/5V

### **Video decoder:**

Video Compression MPEG-2 and MPEG-1 compatible, H.246

Videostandard PAL G/ 25 Hz, NTSC

Video Formats 4:3 / 16:9

Letterbox for 4:3 TV-Device

### **Audio decoder:**

Audiokompression MPEG-1 & MPEG-2 Layer I and II, MP3

Audio Mode Dual (main/sub), Stereo

Frequency 32 kHz, 44.1 kHz, 48 kHz, 16 kHz, 22.05 kHz, 24 kHz

### **Output analog:**

Output Level L/R 0,5 Vss on 600 Ohm

THD > 60 dB (1 kHz)

Crosstalk < -65 dB

### **Output digital:**

Output Level 0,5 Vss on 75 Ohm

Sampled Data Filtering 32 kHz, 44.1 kHz, 48 kHz

S/PDIF-Output optical, Toslink

### **Output Video:**

Outputlevel FBAS 1 Vss +/- 0.3 dB an 75  $\Omega$

Teletext after ETS 300 472 Standard

### **Mini USB service connector:**

Function: Update of Firmware

**Ethernet:**

10/100/1000 MBit/s compatible Gigabit Ethernet-Port

Function: Update of Firmware

**USB:**

USB 2.0 port (2x)

USB 3.0 port (2x)

**SATA-Interface:**

Connector for internal 3,5" Harddisk

**LNB power and polarisation per tuner:**

LNB Current 500mA max. ; short-circuit-proof

LNB Voltage vertical < 14V without load, > 11,5V at 400mA

LNB Voltage horizontal < 20V without load, > 17,3V at 400mA

LNB-shut-off at Standby-Mode

**Count of active satellite position:**

DiSEqC™ 1.0/1.1/1.2 and USALS (Rotor Control)

**OLED-Display:**

The colored OLED display has an expected lifetime up to 55.000 hours at 50% brightness and 25°C ambient temperature.

**Input voltage:**

110/230V / 50/60 Hz AC voltage +/- 15%

**Physical specification:**

Ambient Temperature +15°C...+35°C

Humidity < 80%

Size (W x D x H): 372 mm x 232 mm x 75 mm

# Chapter 13

## Features

- Single-EPG (Electronic Program Guide): sortable by date or alphabetically
- Automatic search for additional air dates of a show and easy recording them by timer
- Multi-EPG: graphically and text-based
- up to 8 simultaneous recording (4 for each Transponder)
- Timeshift
- List of recordings: sortable by date or alphabetically and free choice of different views
- Timer programming manually or by EPG
- Individually configurable timers, e.g. single or recurring timers
- DiSEqC™ 1.0/1.1/1.2 and USALS
- Channel change in less than a second
- Start wizard for initial setup
- Pre-installed service list for DVB-S
- unlimited channellist for TV/Radio
- Support of favorite lists
- full automatic channel scan
- DVB/Teletext subtitle
- Integrated Teletext with level 2.5 support
- Radiotext / RaSS (Infos at [www.rass.tv](http://www.rass.tv))
- Parental control
- Sleptimer
- Easy expansion of the base function with the use of Plugins
- Remote controllable via Web-Interface and streaming of the TV-/Radio stations to any PC connected to the Dreambox through network

- mp3 playback
- Skinable OSD in many languages

# Chapter 14

## Contact & Support Information

### Headquarter & Distribution:

Leontech Limited  
10/F, North Point Goodview Centre  
4 Kam Hong Street  
North Point  
Hong Kong

### Technical Support

**Dealer's Hotline:** (Dealers only)

Tel.: +49 (0)180 - 3 44 11 30 992

Fax: +49 (0)180 - 3 44 11 30 993

You can reach the technical support hotline for dealer's from:

Mo - Fr. 09:00 am - 04:00 pm

**Technical Hotline:**

Tel.: +49 (0)180 - 3 44 11 30 990

Fax: +49 (0)180 - 3 44 11 30 991

You can reach the technical support hotline from:

Mo - Fr. 09:00 am - 04:00 pm

E-Mail: [support@dream-property.net](mailto:support@dream-property.net)

**Website:**

Weblink: [www.leontechltd.com](http://www.leontechltd.com)

**Support Forum:**

Weblink: [www.leontechltd.com/board](http://www.leontechltd.com/board)