

Dreambox Two UltraHD

User Manual

Digital satellite receiver to receive free and encrypted DVB programs.

UltraHD

Twin DVB-S2x tuner

Gigabit network interface

WIFI 2.4 / 5 GhZ

Bluetooth

1x Smartcard-Reader Dreamcrypt™

1x Common Interface slot

1x USB 2.0

1x USB 3.0

HDMI 2.0 out

Dreambox OS

Dreambox API



Foreword

Dear Customer,
Congratulations on the purchase of your Dreambox Two UltraHD.

These operating instructions should help you to connect your Dreambox correctly to learn basic operation and also to get to know the numerous functions.

Please note that the functional scope of your Dreambox is constantly expanding through software updates. If you have updated the software of your Dreambox or find errors in the operating instructions, please have a look in the download area of our homepage www.leontechltd.com for an updated version. Operating instructions are available.

We hope you enjoy using your Dreambox Two UltraHD

The Dreambox bears the CE mark and fulfills all required EU standards.

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

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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.

- Make sure to have 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.
- A hard disk / tuner may only be installed or converted by trained personnel or a specialist dealer trained for this purpose.

Modifications or modifications to the device will void the guarantee if they are not carried out by a specialist dealer and are certified in writing. We recommend the installation of a hard disk by the specialist dealer. If the hard disk is incorrectly installed, the warranty will expire.

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 o. before you connect or disconnect a cable coming from or going to a LNB.
- 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



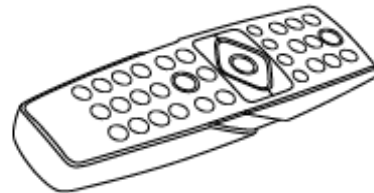
the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop o. 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

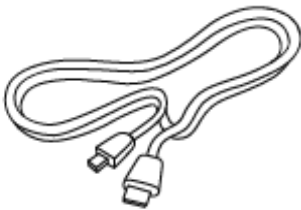
Please check the completeness of the box's contents.



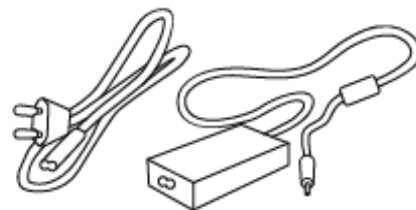
Dreambox TWO ultraHD



Remote control Dreambox RCU



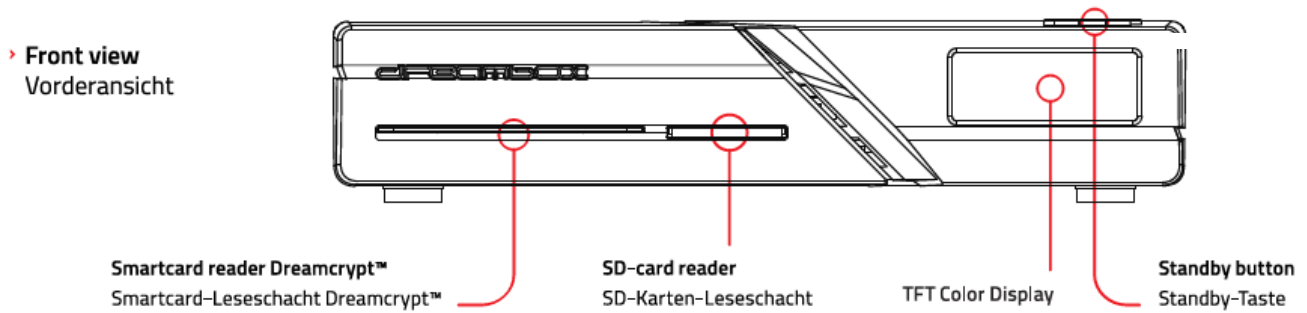
HDMI cable
HDMI-Kabel



Power cord / power plug
Stromanschlusskabel / Netzteil

1.3 Views

1.3.1 Front view



1x smart card reader Insert your Dreamcrypt smart card with the chip facing downwards and forwards into the smart card reader.

IR-Sensor receives the infrared signals from your Dreambox remote control.

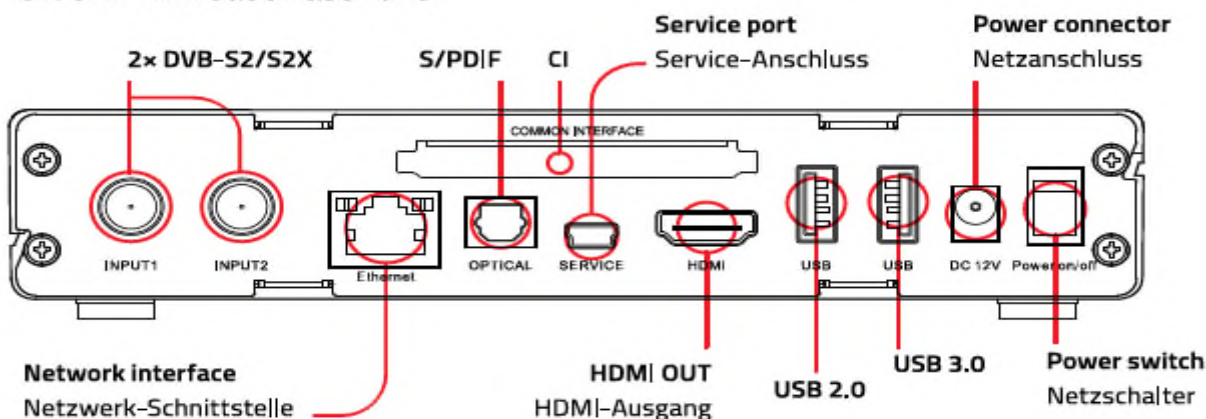
SD-Card reader

standby button switches your Dreambox on or off

Status LED indicates the standby status of the Dreambox.

1.3.2 Rear view

S2/S2X Twin Sat SiLabs Tuner



LNB-Input (2x DVB-S2x Tuner) Connect the coaxial cable from your LNB here.

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

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.

Power switch The main power switch shuts o. power from your Dreambox.

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

1x 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.

1x 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.

1x CI Slot You can insert a Common Interface - Module of your choice in one of the CI-Slots.

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-tousb-cable here.

Power supply connector Plug the power cable of the power supply that came with your Dreambox into power outlet. Connect your power supply to your Dreambox. You must not connect the power plug of the power supply to anything other than a socket that supplies 230V/50Hz.

Chapter 2

Start-up

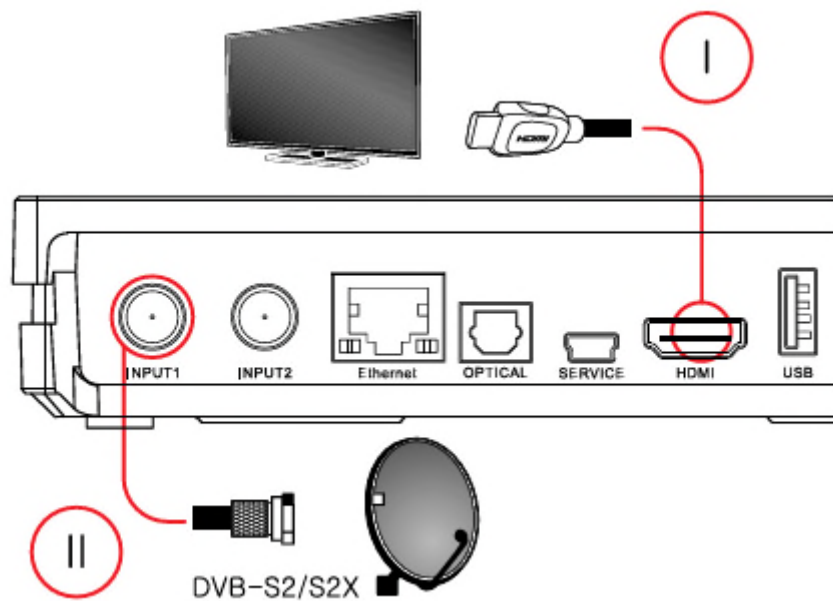
2.1 Connecting

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 , 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.



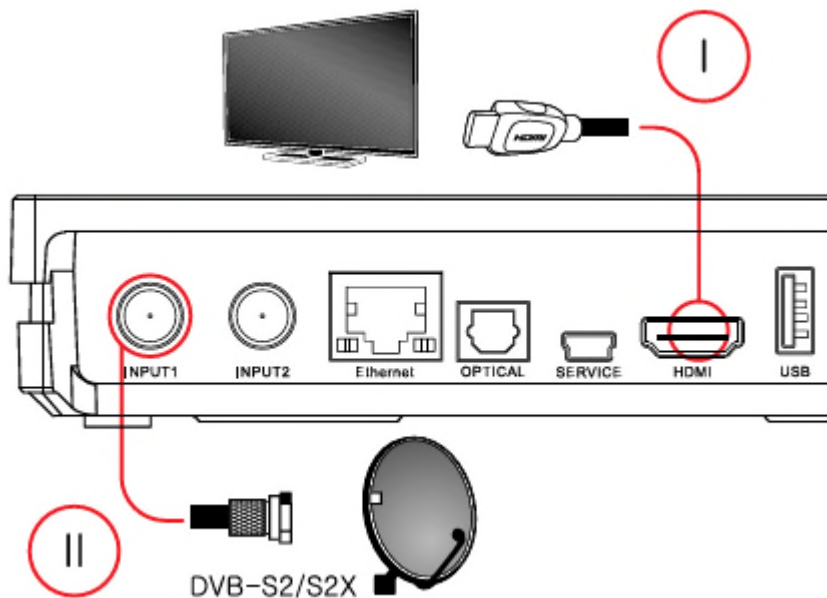
2.1.2 Connection via HDMI cable

HDMI (I)

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.

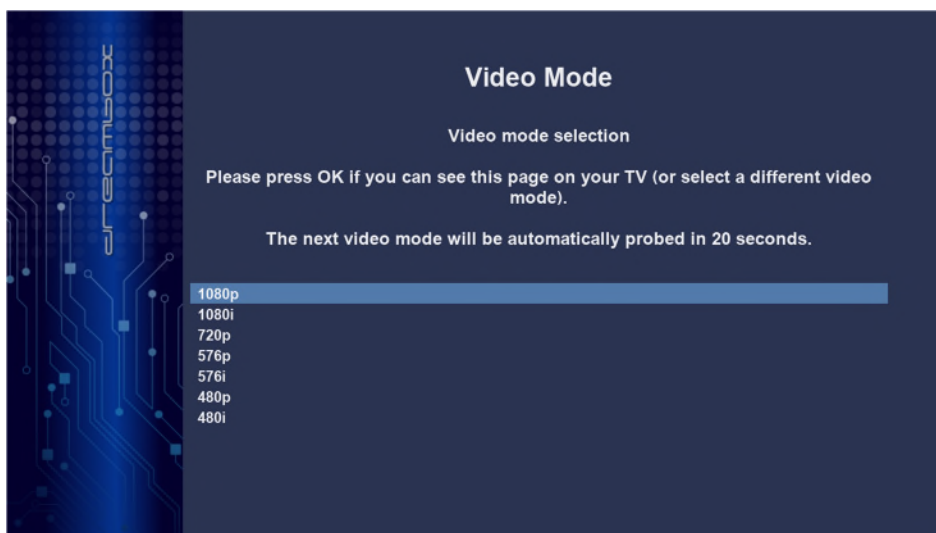


2.2 Turning the device on

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 supplied power supply and connect it to the Dreambox. The power plug has to be plugged 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 10.

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 [6.1 DVB-S2 Tuner-Configuration](#) on page [38](#)

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 [6.4 Automatic scan](#) on page [Seite 46](#).

Parental Control

Parental control makes it possible to lock selected channels. Detailed information can be found under Chapter [4.7 Parental control](#) on pag [26](#).

Network

The network wizard will assist you with the network setup of your Dreambox. Detailed information can be found under Chapter [5.6 Network](#) on page [33](#).

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.

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!)



Das *Standby / restart*-Menu.

Use the **navigation buttons (▲▼)** to select the desired option and confirm with the **OK button**.

Sleep Timer Put your Dreambox into Standby after a duration of time that can be chosen freely. (See Chapter 3.12 Sleep timer on page 22)

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 Change 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 5.4 A/V Settings on page 31) 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 these 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 how a subtitle looks.



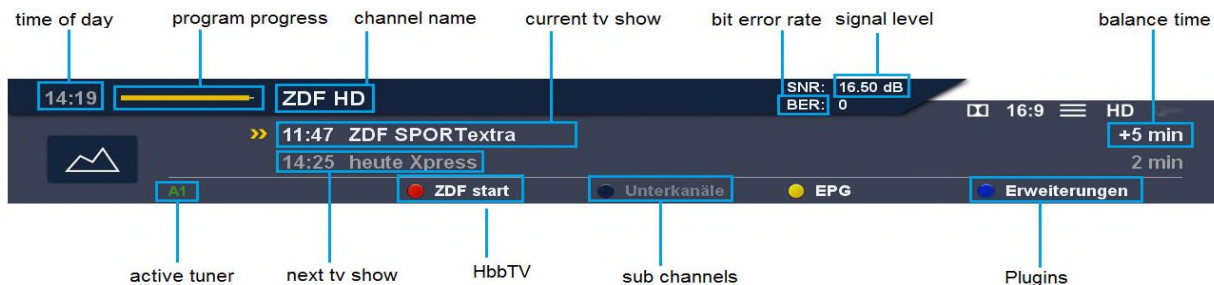
Note: Keep in mind that not every station offers subtitles. If no subtitles are available, the subtitle list will be empty.





To deactivate subtitles follow these 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!



-  will be highlighted in yellow when the tv show is broadcasted encrypted
-  will be highlighted in yellow when the tv show is broadcasted in Dolby Digital
- 16:9** will be highlighted in yellow when the tv show is broadcasted with an aspect ratio of 16:9
-  will be highlighted in yellow when the channel supports teletext
-  flashes when the dreambox is recording

3.10 EPG – Electronic Program Guide

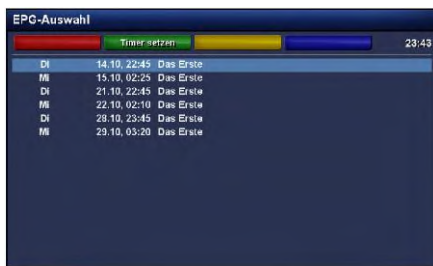
The Electronic Program Guide (EPG) shows information regarding the current tv service (similar to a TV guide).



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

Pressing the **yellow Options-Button** activates the “Channel-EPG” (see Chapter 3.10 Single-EPG on page 19) and pressing the **blue Options-Button** activates the “Multi-EPG” (see Chapter 3.10 auf Seite 19).

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.

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 these 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 5.2 Customize on page 30) 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 **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).



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 Telex. If you press the Navigation-Button (J) 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 +/- Button**. 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 Picture TeleText will be shown as small picture in graphics (pig). Position and size (see "Position and size").

Background caching If you switch o. 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 Sleep timer

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

Follow these 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 o. 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 o. 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, 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 30.

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 5.2 Customize on page 29).

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**.
2. 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 green. 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 entry” and press the **OK-Button**.
The selected service will be deleted from your favorites list.

4.5 Moving a service in favorites list

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 green.
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 Parental control

Parental control makes it possible to lock selected channels.

Follow these 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 “Services and Recordings” and press the OK-Button.
4. 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 “Protect services” and switch to “yes” with the **Navigation-Buttons (◀▶)**.
3. 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.
4. With the **Navigation-Buttons (▲▼)** choose the option “Edit services list” and press the **OK-Button**.
5. 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.
6. 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.

4.8 Common Interface

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 “Devices” and press the **OK-Button**.
4. With the **Navigation-Buttons** (▲ ▼) choose the option “Common-Interface” and press the **OK-Button**.

Reset This option 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 inserted.

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 depends 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 bit rate support

You can set if your CI-Module can process high bit rates (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.

Chapter 5

Setup

5.1 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.

5.2 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.

5.2.1 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.

5.2.2 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)

5.3 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 (JI)** 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.

5.4 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 “Picture and Sound” 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 o. 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 your 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 (JI) 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 a.ect on all channels. With the Navigation-Buttons (JI) 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.

5.6 Network

5.6.1 Connect 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.
3. With the **Navigation-Buttons (▲ ▼)** choose the option “Network Setup” and press the OK-Button.
4. 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.



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.

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.

5.6.2 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

5.7 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 “Picture and Sound” 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**.

5.8 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 “System” and press the **OK-Button**.
4. 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 6

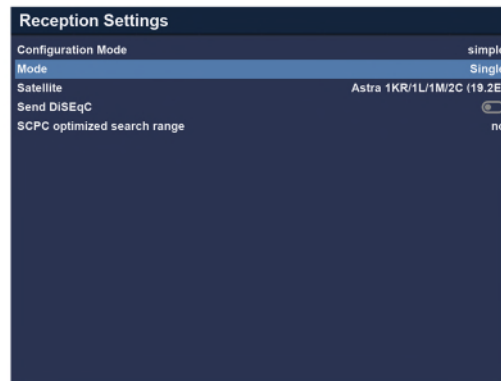
Service searching

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/T2) in your dreambox and how to perform a service scan.

6.1 DVB-S2 Tuner-Configuration

6.1.1 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.



Follow these 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 "Services and Recordings" and press the **OK-Button**.
4. With the **Navigation-Buttons (▲ ▼)** choose the option "Service Searching" and press the **OK-Button**.
5. With the **Navigation-Buttons (▲ ▼)** choose the option "Tuner configuration" and press the **OK-Button**.

6. With the **Navigation-Buttons** (▲ ▼) choose the option “DVB-S2 Tuner” and press the **OK-Button**.
7. With the **Navigation-Buttons** (▲ ▼) choose the option “Mode”.
8. With the **Navigation-Buttons** (◀ ▶) choose the option “Single”.
9. With the **Navigation-Buttons** (▲ ▼) choose the option “Satellite”.
10. With the **Navigation-Buttons** (◀ ▶) choose the desired Satellite.
11. Press the **OK-Button** to save this settings.

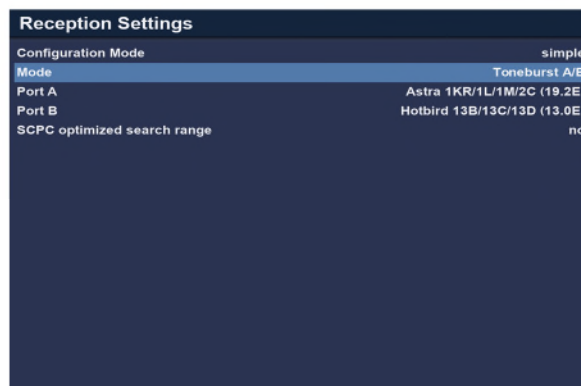
You are taken back to the “Choose tuner” menu.



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

6.1.2 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 these 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 “Services and Recordings” and press the **OK-Button**.
4. With the **Navigation-Buttons** (▲ ▼) choose the option “Service Searching” and press the **OK-Button**.
5. With the **Navigation-Buttons** (▲ ▼) choose the option “Tuner configuration” and press the **OK-Button**.

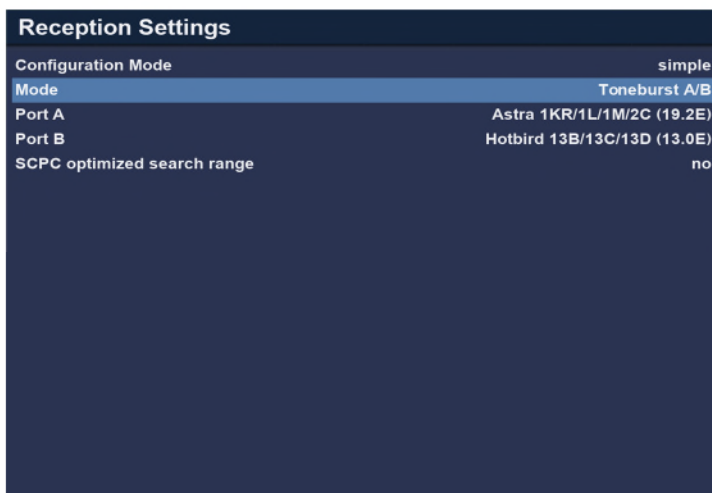
6. With the **Navigation-Buttons** (▲ ▼) choose the option “DVB-S2 Tuner” and press the **OK-Button**.
7. With the **Navigation-Buttons** (▲ ▼) choose the option “Mode”.
8. With the **Navigation-Buttons** (◀ ▶) choose the option “Toneburst A/B”.
9. With the **Navigation-Buttons** (▲ ▼) choose the option “Port A”.
10. With the **Navigation-Buttons** (◀ ▶) choose the desired Satellite.
11. With the **Navigation-Buttons** (▲ ▼) choose the option “Port B”.
12. With the **Navigation-Buttons** (◀ ▶) choose the desired Satellite.
13. 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.

6.1.3 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 these steps:

1. Press the **MENU-Button** to open the main OSD.

2. With the **Navigation-Buttons** (▲ ▼) choose the option “Setup” and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲ ▼) choose the option “Services and Recordings” and press the **OK-Button**.
4. With the **Navigation-Buttons** (▲ ▼) choose the option “Service Searching” and press the **OK-Button**.
5. With the **Navigation-Buttons** (▲ ▼) choose the option “Tuner configuration” and press the **OK-Button**.
6. With the **Navigation-Buttons** (▲ ▼) choose the option “DVB-S2 Tuner” and press the **OK-Button**.
7. With the **Navigation-Buttons** (▲ ▼) choose the option “Mode”.
8. With the **Navigation-Buttons** (◀▶) choose the option “DiSEqC A/B”.
9. With the **Navigation-Buttons** (▲ ▼) choose the option “Port A”.
10. With the **Navigation-Buttons** (◀▶) choose the desired Satellite.
11. With the **Navigation-Buttons** (▲ ▼) choose the option “Port B”.
12. With the **Navigation-Buttons** (◀▶) choose the desired Satellite.
13. Press the **OK-Button** to save this settings.

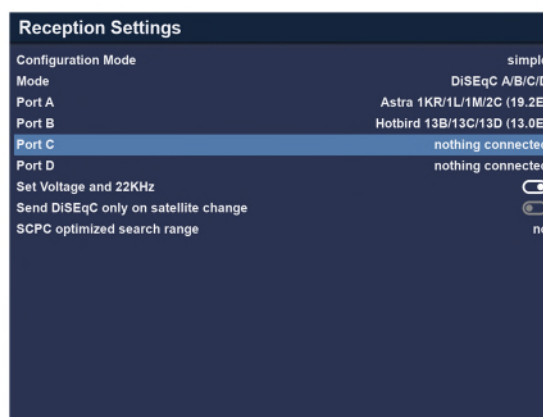
Make sure you know which satellite is connected to which input on the Toneburst switch. If you do not find any services in the transponder scan later, exchange the two satellites in this list and try again.



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

6.1.4 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.



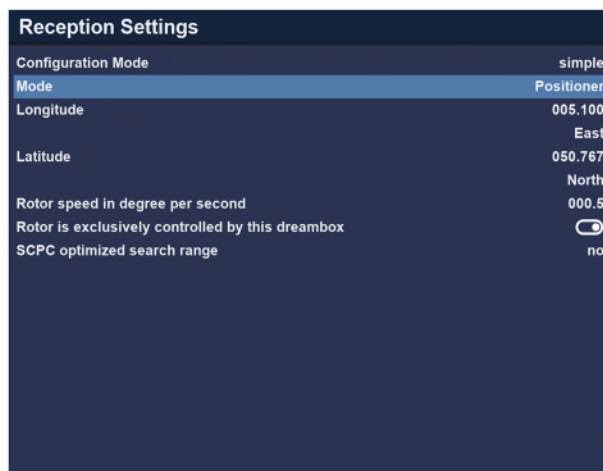
Follow these steps:

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 “Services and Recordings” and press the **OK-Button**.
4. With the **Navigation-Buttons (▲▼)** choose the option “Service Searching” and press the **OK-Button**.
5. With the **Navigation-Buttons (▲▼)** choose the option “Tuner configuration” and press the **OK-Button**.
6. With the **Navigation-Buttons (▲▼)** choose the option “DVB-S2 Tuner” and press the **OK-Button**.
7. With the **Navigation-Buttons (▲▼)** choose the option “Mode”.
8. With the **Navigation-Buttons (◀▶)** choose the option “DiSEqC A/B/C/D”.
9. With the **Navigation-Buttons (▲▼)** choose the option “Port A”.
10. With the **Navigation-Buttons (◀▶)** choose the desired Satellite.
11. With the **Navigation-Buttons (▲▼)** choose the option “Port B”.
12. With the **Navigation-Buttons (◀▶)** choose the desired Satellite.
13. With the **Navigation-Buttons (▲▼)** choose the option “Port C”.
14. With the **Navigation-Buttons (◀▶)** choose the desired Satellite.
15. With the **Navigation-Buttons (▲▼)** choose the option “Port D”.
16. With the **Navigation-Buttons (◀▶)** choose the desired Satellite.
17. 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.

6.1.5 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.

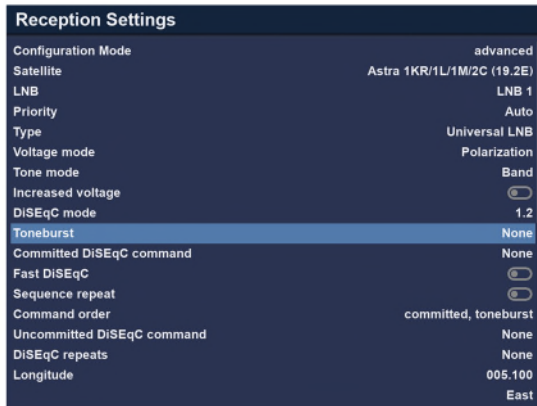
The rest is done automatically by your Dreambox with build-in USALS. USALS is a model for calculating the position of all satellites in orbit with a margin of error less than 0.1 degrees. USALS was developed by the Stab company. Everything is done automatically and does not require any technical know-how.

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

6.1.6 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.



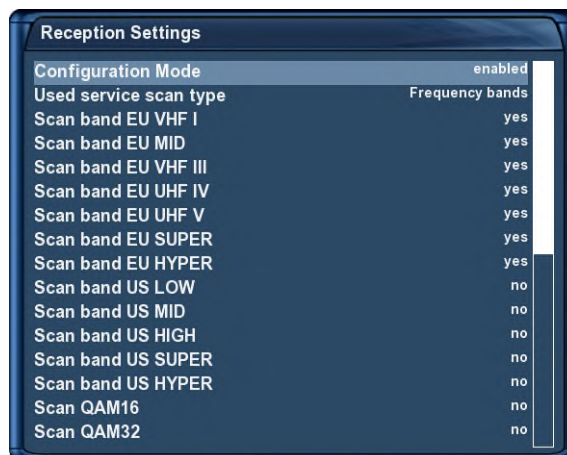
Stab Positioner without USALS

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 "Services and Recordings" and press the **OK-Button**.
4. With the **Navigation-Buttons (▲ ▼)** choose the option "Service Searching" and press the **OK-Button**.
5. With the **Navigation-Buttons (▲ ▼)** choose the option "Tuner configuration" and press the **OK-Button**.
6. With the **Navigation-Buttons (▲ ▼)** choose the option "DVB-S2 Tuner" and press the **OK-Button**.
7. With the **Navigation-Buttons (▲ ▼)** choose the option "Configuration".
8. With the **Navigation-Buttons (◀▶)** choose the option "Extended".
9. With the **Navigation-Buttons (▲ ▼)** choose the option "Satellite".
10. With the **Navigation-Buttons (◀▶)** choose the desired Satellite.
11. With the **Navigation-Buttons (▲ ▼)** choose the option "LNB".

12. Press the **Navigation-Button** (▶).
13. With the **Navigation-Buttons** (▲▼) choose the option “DiSEqC-Modus”.
14. With the **Navigation-Buttons** (◀▶) choose the option “1.2”.
15. With the **Navigation-Buttons** (▲▼) choose the option “Use usals for this sat”.
16. With the **Navigation-Buttons** (◀▶) choose the option “No”.
17. With the **Navigation-Buttons** (▲▼) choose the option “Stored position”.
18. 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.
19. Press the **OK-Button** to save this settings.

6.2 DVB-C Tuner-configuration



DVB-C Tuner-configuration

Follow these 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 “Services and Recordings” and press the **OK-Button**.
4. With the **Navigation-Buttons** (▲▼) choose the option “Service Searching” and press the **OK-Button**.
5. With the **Navigation-Buttons** (▲▼) choose the option “Tuner configuration” and press the **OK-Button**.
6. 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.

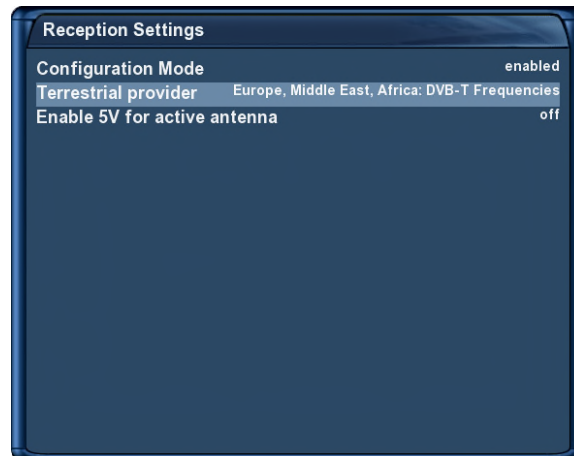
1. With the **Navigation-Buttons** (▲ ▼) choose the option “Used service scan type”.
2. With the **Navigation-Buttons** (◀▶) choose the option “Frequency bands”.
3. Press the **OK-Button** to save this settings.

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.

6.3 DVB-T Tuner-configuration



DVB-T Tuner-configuration

Follow these steps:

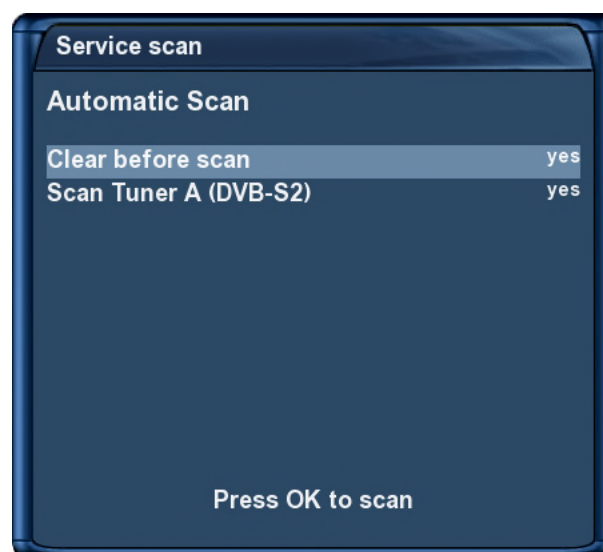
1. Press the Menu-Button to open the main OSD menu.
2. With the **Navigation-Buttons** (▲ ▼) choose the option “Setup” and press the **OK-Button**.
3. With the **Navigation-Buttons** (▲ ▼) choose the option “Services and Recordings” and press the **OK-Button**.

4. With the **Navigation-Buttons** (▲ ▼) choose the option “Service Searching” and press the **OK-Button**.
5. With the **Navigation-Buttons** (▲ ▼) choose the option “Tuner configuration” and press the **OK-Button**.
6. With the **Navigation-Buttons** (▲ ▼) choose the “DVB-T/T2 Tuner” and press the **OK-Button**.
7. With the **Navigation-Buttons** (◀ ▶) choose your region.
8. 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”.
9. Press the **OK-Button** to save this settings.

6.4 Automatic scan

Follow these 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 “Services and Recordings” and press the **OK-Button**
4. With the **Navigation-Buttons** (▲ ▼) choose the option “Service Searching” and press the **OK-Button**
5. With the **Navigation-Buttons** (▲ ▼) choose the option “Automatic scan” and press the **OK-Button**.
6. 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”.
7. 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.



You can see the progress of the scan here.



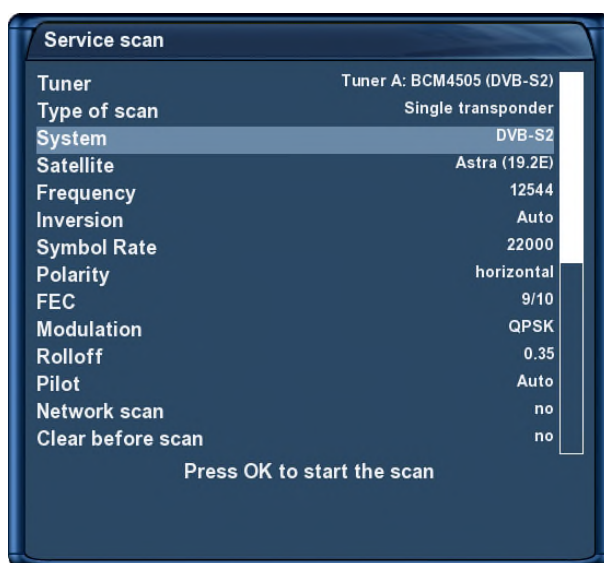
The scan is done once you see this menu. It shows how many channels were found during the scan

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 “Services and Recordings” and press the **OK-Button**.
4. With the **Navigation-Buttons** (▲ ▼) choose the option “Service Searching” and press the **OK-Button**.
5. 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.

Systeminformation

7.1 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

7.2 About (Hard- and Software)

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



Hardware- und Software-Informationen

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 8

Updating the software

8.1 Backing up your setting

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**.

8.2 Restore 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**.

8.3 Updating a new software

8.3.1 With browser

Requirements:

- PC with browser like Firefox, Opera, Internet Explorer
- latest Software for your Dreambox, download at <http://www.dreambox.de>
- 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 o. 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 display.
7. After a few seconds the text or alternatively an IP-Adress, e.g. <http://192.168.0.80> should appear in the 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 o.ers 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 Display 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:
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 14](#)).

Chapter 9

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 6.1 | Review settings (see <i>chapter 6</i> <i>DVB-S2 Tuner-Configuration on page 37</i>) |
| Beamlike blackouts in the video | Dish aligned incorrectly | Realign dish |
| | Heavy rain or snow | Remove snow from dish |
| | Dish aligned incorrectly | Realign dish |
| | Dish is too small | Install larger dish |
| No reception on a channel that was working before | An obstacle between dish and satel-lite (e.g. house or tree) | Reposition dish so it has a clear “view” towards the satellite |
| | Dish aligned incorrectly or faulty | Check dish |
| | Channel is transmitted in a new slot | Start service scan (see <i>chapter 6</i> <i>Service searching on page 37</i>) |
| The transmission of the channel was terminated | | |
| | | |
| You cannot record anything any- recordings more | Hard disk is full | Delete no longer needed |
| 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 | Reboot Dreambox |

Chapter 10

Technical data

- Dreambox OS
- Dreambox API
- 53.000 DMIPS 6 Core Prozessor
- MPEG2 / H.265 Hardware decoding (DVB compliant)
- 1x Smartcard-Reader (Dreamcrypt™)
- 1x HDMI 2.0 Connector
- 10/100/1000 MBit/s compatible Gigabit Ethernet Port
- 1x USB 2.0 Port
- 1x USB 3.0 Port
- Micro SD-Card Reader
- Mini-USB Service-Port
- Twin DVB-S2x
- 2 GByte DDR4 RAM
- 16 GByte Flash
- S/P-DIF
- External 12V Power-Supply
- EPG-Supportg (Electronic Program Guide)
- Integrated Teletext
- Support for DiSEqCTM 1.0/1.1/1.2, USALS, Unicable

Additional information:

DVB-S Tuner with DVB-S2x:

Input Frequenzy 950 ... 2150 MHz

Demodulation DVB-S (QPSK); DVB-S2x ((8PSK,QPSK)

Symbolrate DVB-S: 2 ... 45 Mbaud/s, SCPC/ MCPC

DVB-S2: 10 – 31 Mbaud/s (8PSK) , 10 –30 Mbaud/s (QPSK)

Videode decoder:

Videocompression MPEG-2 und MPEG-1 compatible, H.265

Video Formats 4:3 / 16:9

Letterbox for 4:3 TV-Device

Audio decoder:

Audiocompression MPEG-1 & MPEG-2 Layer I and II

Audio Mode Dual (main/sub), Stereo

Sampling rate 32 kHz, 44.1 kHz, 48 kHz, 16 kHz, 22.05 kHz, 24 kHz

output digital:

Output Levell 0,5 Vss an 75 W

Sample Data Filtering 32 kHz, 44.1 kHz, 48 kHz

S/P-DIF Output optical, Toslink

output video:

Output Level FBAS 1 Vss +/- 0.3 dB 75 Ω

Teletext based on ETS 300 472 Standard

WIFI und BT:

| WIFI | MODE | FREQUENZ | MAX . LEISTUNG (dBm) |
|-----------|----------|-----------------|----------------------|
| | 802.11b | | 16 |
| 2.4 GHz | 802.11g | 2400MHz-2483MHz | 15 |
| | 802.11n | | 14 |
| | 802.11a | | 13 |
| 5 GHz | 802.11n | 5150MHz-5845MHz | 12 |
| | 802.11ac | | 10 |
| BLUETOOTH | MODE | FREQUENZ | MAX . LEISTUNG (dBm) |
| 2.4 GHz | CLASS 2 | 2402MHz-2480MHz | 0 |

Mini-USB Service-Connector:

Function: Update of Firmware

Ethernet:

Gigabit compatible Ethernet-Port

Function: Update of Firmware

WIFI:

2.4 GHz 2400MHz-2483MHz

5 GHz 5150MHz-5848MHz

Bluetooth:

2.4GHz Class2 2402MHz-2480MHz

USB:

1x USB 2.0 Host Anschluss

1x USB 3.0 Host Anschluss

SD-Card reader**LNB power and polarisation per tuner:**

LNB Current 400mA 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-o. at Standby-Mode

Count of active satellite position:

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

Input voltage:

External power-supply: Input:

100-240V AC / 50-60Hz / 1,2A MAX

Output:

12V = / 2A

Physical specification:

Ambient Temperature +15°C...+35°C

Humidity < 80%

Size (W x D x H): 173 mm x 96 mm x 35 mm

Kapitel 11

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
- 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)
- 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

Chapter 12

Contact & Support Information

Headquarter & Distribution:

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

Technical Support

[E-Mail: support@dreambox.de](mailto:support@dreambox.de)

Tel.: +49 (0)180 - 3 44 11 30 990
0,09 euro/min from germany, mobile tari.s max. 42 ct/min

on the phone:

Mo. – Fr. 9:00 – 15:00 Uhr

Website:

Weblink: <http://www.leontechltd.com>

Support Forum:

Weblink: <http://www.leontechltd.com/board>