



Dreambox DM 500S



User's Manual

Digital satellite receiver for free and encrypted DVB-TV Programs

Communication-Port
Smartcard Reader
Linux OS

Rev.1.0_rel.1.05_dd_eng

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Notice: The Dreambox DM500S is CE certified and fulfills all requirements of the EU-Standards.

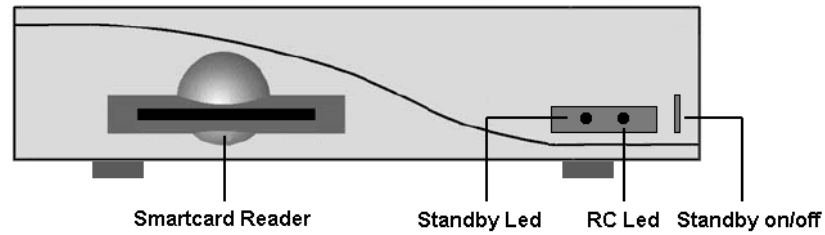
Issued: June 2004 Rev.1.0

Software: Release 1.05

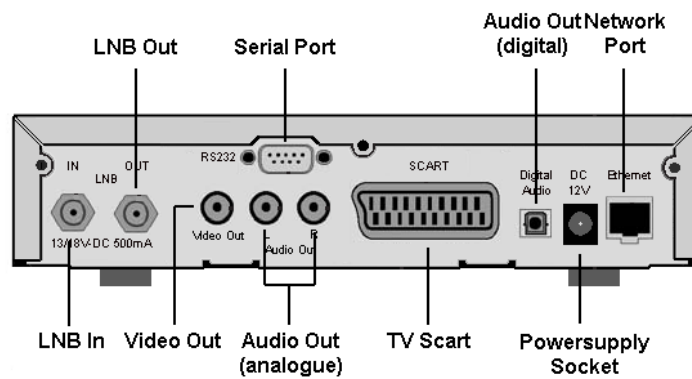
Alterations are subject to change without notice. E. & O. E.

2. Views

Frontview:



Rearview:



3. Description Frontview

3.1. Smartcard Reader

Plug in your Dreamcrypt Smartcard with the gold chip face downwards and inwards into the Smartcard Reader.

Dreamcrypt is a trademark of Dream-Multimedia-Tv GmbH

3.2. Standby Led

The Standby Led lits red, if the Dreambox is in Standby state.

3.3. RC Led

The green RC Led indicates received commands from the Remote Control.

3.4. Standby on/off

This Button switches the Standby-Mode on or off.

4. Description Rearview

4.1. LNB In

Connect the coaxial cable from your LNB here. Please switch the power off from the the Dreambox first.

4.2. LNB Out

Connect an analogue receiver here. Remember to shutdown your Dreambox into Standby-Mode, if you wish to view analogue TV.

4.3. Video Out

This Port provides the CVBS (Color Video Blanking Signal).

4.4. Serial Port

The Serial Port is mentioned to update the Operation system. Please connect a serial nullmodem cable here. See passage DreamUp - Software upgrade.

4.5. Audio Out (analogue)

Connect your Dreambox with an appropriate RCA/Cinch cable to your HiFi-Amplifier (e.g. AUX or Tape socket).

4.6. TV Scart

Connect your TV with an appropriate Scartcable to your Dreambox.

4.7. Audio Out (digital)

Connect your Dreambox with an appropriate optical (Toslink) cable to your HiFi-Amplifier or DSP. The Dreambox provides sample rates from 16, 22.05, 24, 32, 44.1, 48 kHz. The AC3 signal is also available at this socket, if the selected channel transmits Dolby Digital signals.

4.8. Powersupply Socket

Plug in here the Powersupply.

4.9. Network Port

The Network Port is an Communication Port, used to communicate with the Dreambox via HTTP, FTP, NFS, Telnet and Samba to access your recorded movies or to upload channel lists. This Port is also mentioned to update the Operation system. Please connect an appropriate patchcable. See passage DreamUp - Software upgrade.

5. Safety Instructions

Please read the Safety Instructions completely and carefully, before using the Dreambox. The Manufacturer takes no responsibility of incorrect handling of the Dreambox.

- Allow enough space around the Dreambox for sufficient ventilation.
- Do not cover the Dreambox's ventilation openings with items such as newspapers, tablecloths, curtains etc.
- Do not expose the Dreambox to dripping or splashing liquids.
- Do not place naked flame sources, such as lighted candles, on the Dreambox.
- Do not place any objects filled with liquids, such as vases, on the Dreambox.
- Do not connect or modify cables when the Dreambox is powered.
- Do not remove the cover. Risk of electric shock!
- Do not stick any metallic items into the slots or ventilation openings.
- Please note that the only way to isolate the Dreambox completely from the mains power supply is to unplug the mains powercord!
- If you do not use your Dreambox for a longer time, please disconnect it from the mains power.
- Please disconnect your Dreambox from the mains power during thunder or heavy storms.
- Connecting to the dish (LNB):
Disconnect the mains powercord before connecting or disconnecting the coaxial cable.
- Connecting to the TV:
Disconnect the mains powercord before connecting or disconnecting the Scartcable.
- Disconnect the mains powercord if the powercord is damaged.
- Disconnect the mains powercord if the Dreambox gets in contact with moisture or moisture has penetrated inside.
- Disconnect the mains powercord if you see any damage to the casing.
- Grounding:
The dish must be grounded.
The grounding system must match SABS 061.
- Cleaning:
Disconnect the mains powercord before cleaning the cover. Use a slightly damp cloth without cleaning agents.
- Connect the Powersupply only to suitable sockets 110-230V/50-60Hz. Do not allow overloads to occur.

WARNING!
Modifications and changes to the Dreambox lead to loss of warranty.

6. Delivering

The box of your DM 500S should contain the following items:

- 1 receiver Dreambox 500S
- 1 powersupply
- 1 remote control
- 1 user's manual (newest release @ <http://www.dream-multimedia-tv.de>)
- 2 batteries (1,5V Microcell / AAA)

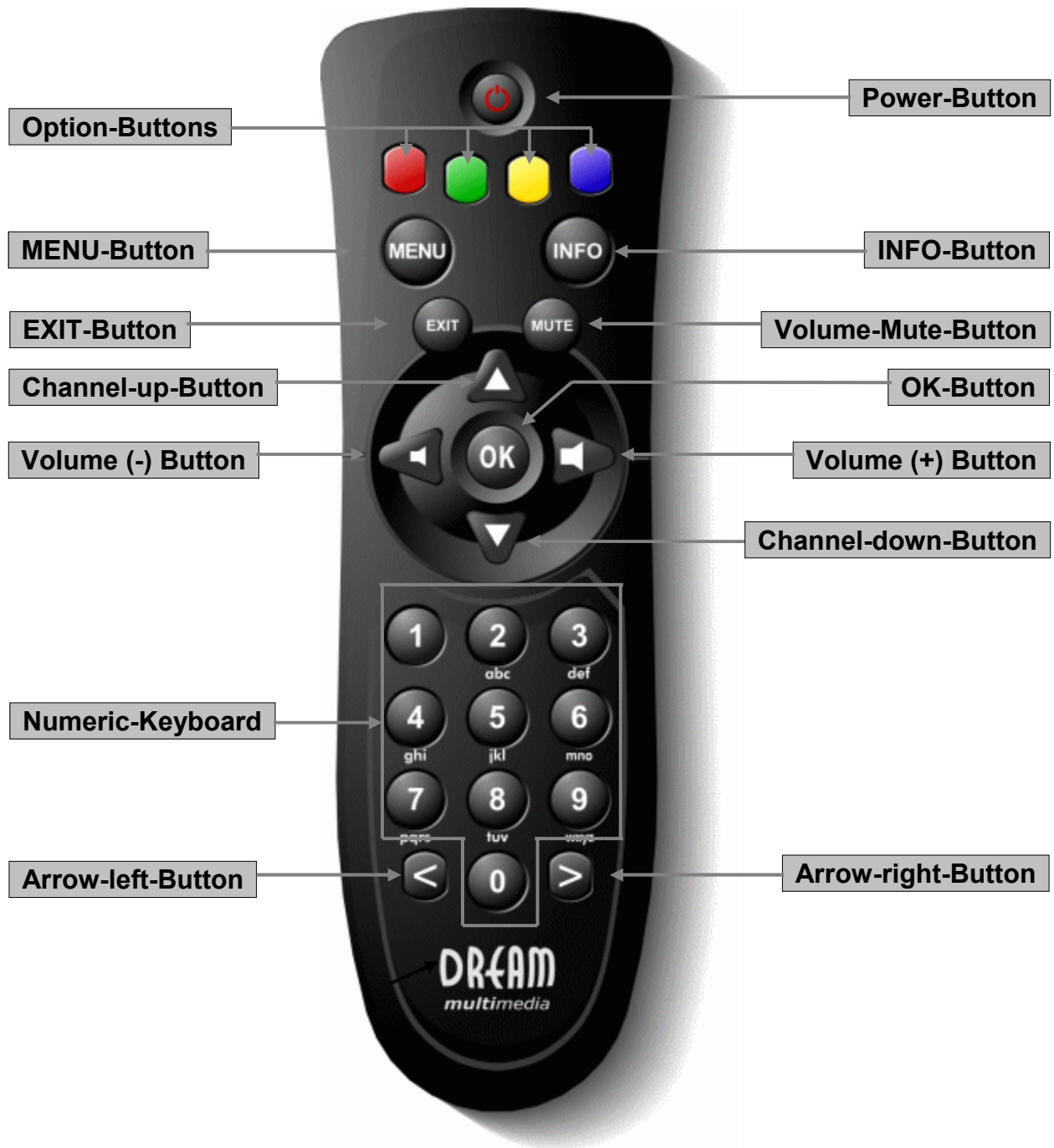
Optional parts:

- 1 wireless keyboard

7. Installation

- Insert 2 AAA (1,5V) batteries, taking care to observe the + and - markings indicated inside, into the Remote Control.
- Before using the Dreambox, please read the Safety Instructions.
- Connect the LNB with an appropriate coaxial cable to LNB In at your Dreambox.
- Connect the Dreambox with an appropriate scart cable to your television screen.
- Plug in the Powersupply into the Powersupply socket 12V/1A.
- If you use a switchable power socket, please shutdown your Dreambox into standby, before switching off the power socket.
- If you turn on your Dreambox for the first time, you will see the setup wizzard. The setup wizzard will guide you through the first time installation. You will be asked for your Tv norm, the regional settings and your language. Please choose and follow the instructions on the screen.
- Please notice that the videoformat is set by default to CVBS.
See passage A/V Settings.

8. Remote Control



9. Important Notes about Condition

All Functions of the Dreambox will be controlled via an OSD-Menu (On-Screen-Display). This makes the Condition of the Dreambox very easy for you. Possible Options are assigned by four colored dots or beams (red, green, yellow, blue) in the OSD-Menu and are activated with the Option-Buttons on the Remote Control.

Depending on the chosen Menu, these Options do change.



Pressing the **EXIT-Button** cancels all Operations.

During Menu and Channellist navigation the following Buttons are used to navigate:

Pressing the **OK-Button** enters a Menu and a TV or Radio service.

Channel-up-Button = upwards

Channel-down-Button = downwards

Volume (-) Button = left

Volume (+) Button = right



10. Remote Control description

POWER-Button

This Button switches your Dreambox on or off.
See passage Dreambox switching on / off.

Numeric-Keybord

Enter a Service number directly from the Numeric-Keybord. The Service numbers are shown on the left side of the Servicelist.

In the OSD-Mainmenu are numbers shown in front of the Option or Function, in this case you can enter the desired number to access the Option or Function directly without moving the Cursorbeam to it.

Arrow-Left-Button

Arrow-Right-Button

These Buttons enable to jump back- or forwards through the Playlist. The Playlist contains the last chosen Services and Movies, which have been selected.

Once having opened the Servicelist, you are able to jump at the Beginning or the End of the Servicelist or to the next Marker.

Volume-Mute-Button

This Button mutes the Volume. A crossed Speaker Symbol will appear on the TV Screen. Pressing it again or the Volume +/- Buttons, turns on the Audio.

EXIT-Button

This Button exits all Menus and aborts Operations.

Volume +/- Button

These Buttons increase (+) or decrease (-) the volume.

INFO-Button

This Button shows the EPG Information. Pressing this Button twice shows the Streaminformation-Menu.

Navigation-Buttons

These Buttons control the Cursor beam inside the Menus to reach the desired Option or Function.

OK-Button

This Button shows the Channellist if no OSD-Menu is shown. This button enters a chosen OSD-Menu Option or Function.

Option-Buttons

These Buttons activate the desired Options.

MENU-Button

This Button shows the OSD-Mainmenu or the Servicemenu inside an opened Channellist.

Channel-up-Button

This Button switches a Channel forward.

Channel-down-Button

This Button switches a Channel backward.

11. Dreambox switching on/off

Use the Power-Button to switch the Dreambox on or off. Unplug the Mains powercord to make the Dreambox completely powerless.

The Power-Button only works if no OSD-Menu is shown on the TV screen!

Press the Power-Button once to switch the Dreambox into Standby-Mode.



Press the Power-Button for at least 3 seconds. The Shutdown / Standby Menu appears.



Use the Navigation-Buttons up and down to choose an option. Press the OK-Button to activate.

reboot now:

The Dreambox restarts the Operationsystem.

goto standby:

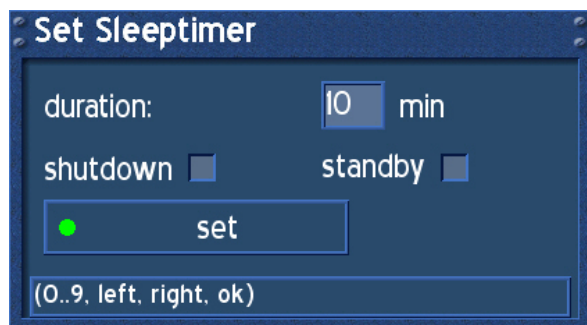
The Dreambox shuts down into Standby-Mode. The red Led lits.

set sleeptimer:

See passage Sleptimer.

12. Sleptimer

Press the Power-Button for at least 3 seconds, select "set sleptimer" to enter this menu.



Define a max. duration of 240 minutes. Define if the Dreambox should shutdown or should go into standby by setting a check into one of the checkboxes beside shutdown and standby with the OK-Button.

Press the green Option-Button to set Sleptimer.

13. OSD- Mainmenu

If no OSD-Menu is shown on the tv screen, the MENU-Button enters the OSD-Mainmenu.

Through this OSD-Mainmenu it is possible to activate the main options and functions. Use either the Navigation-Buttons followed by the OK-Button or press the desired number to enter the Option or Function.

To change the view of the OSD-Mainmenu go to Setup -> System Settings -> OSD Settings and check the checkbox "Show Mainmenu like Listbox". Exit all menus and reenter the OSD-Mainmenu.



TV mode:

Switches into TV-Mode.

Radio mode:

Switches into Radio-Mode.

Timer:

Opens the Timer window. All programmed Timerevents are available from here to edit or delete.

Setup:

Opens the Setup window. All relevant adjustments are available from here.

Information:

Opens the Information window. You will get here information about the currently selected service, called Streaminformation and about the Dreambox.

14. Infobar

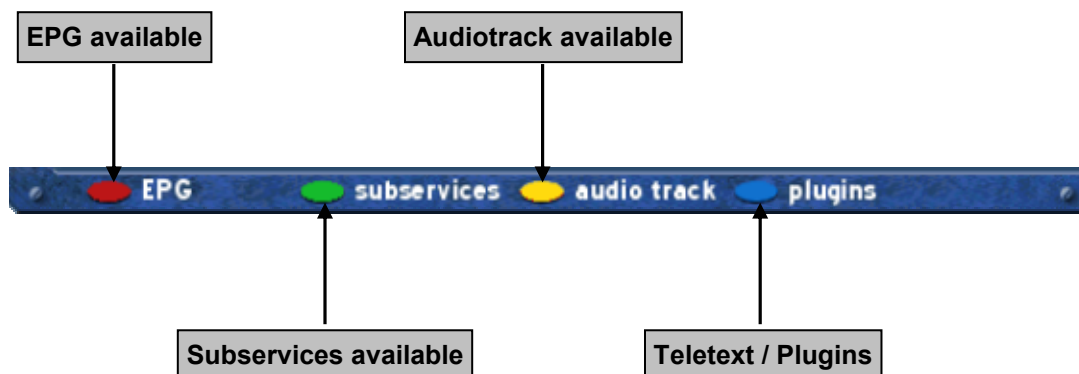
The Infobar appears and disappears by pressing the INFO-Button once, if no OSD-Menu is shown on your tv screen. The Infobar shows all necessary Information about the selected Service.



„**Crypted**“ appears orange, if the transmitted Service is crypted.

„**Aspect Ratio**“ appears orange, if the Service is transmitted in 16:9, the usual Aspect Ratio is 4:3.

„**Dolby Digital Program**“ appears orange, if the Service is transmitted with Dolby Digital Audiostream.



14.1. Infobar - EPG (Electronic Program Guide)

The red dot in the Infobar appears if the selected program transmits EPG informations.

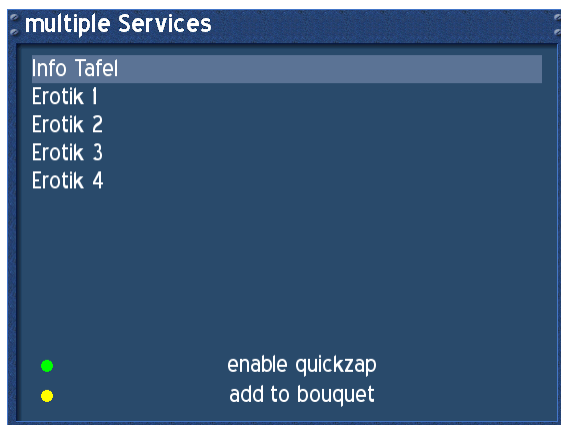


Press the red Option-Button to enter the EPG.

Press the OK-Button to view detailed Information.
Press the EXIT-Button to exit this menu.

14.2. Infobar - Subservices

The green dot in the Infobar appears if the selected program provides Subservices.



Press the green Option-Button to enter the menu „multiple services“.

Use the Navigation-Buttons up and down to choose a service. Press the OK-Button to enter the service.

enable quickzap:

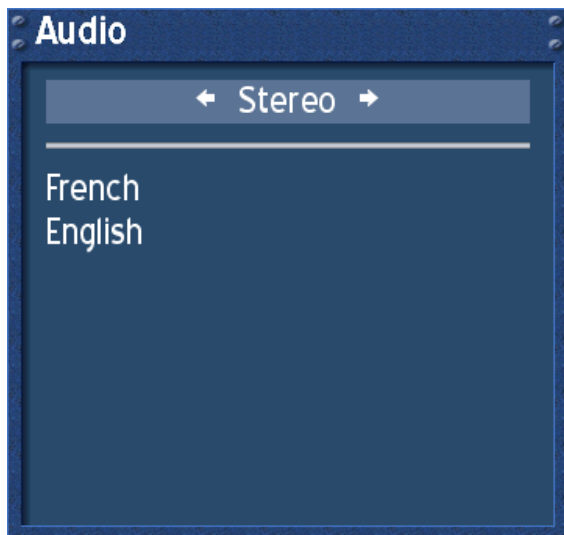
Press the green Option-Button to enable the quickzap mode. You can now choose a multiple Service using the Navigation-Buttons left or right without entering this menu. Press the green Option-Button to bring up this menu and press the green Option-Button again to deactivate the quickzap mode.

add to bouquet:

Press the yellow Option-Button to add the selected Service to a Bouquet of your choice. See passage Service Organising.

14.3. Infobar - Audio Track

The yellow dot in the Infobar appears if the selected Service transmits multiple Audio-Tracks.

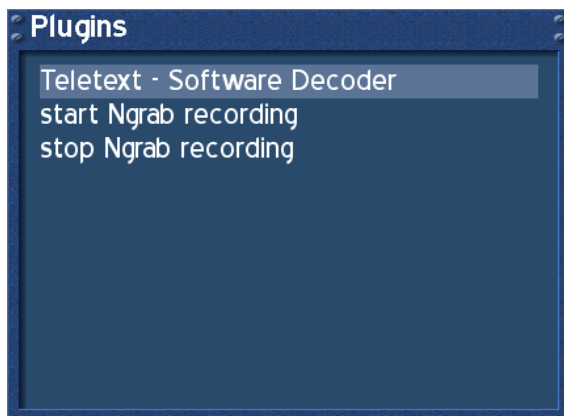


Use the Navigation-Buttons left or right to choose the different Audio-Modes, Left-Mono, Stereo, Right-Mono. Press the OK-Button to activate.

Use the Navigation-Buttons up or down to choose another Audio-Language. Press the OK-Button to activate.

14.4. Infobar - Plugins

The blue dot in the Infobar appears permanently



Use the Navigation-Buttons up or down to choose a Plugin. Press the OK-Button to activate.

Teletext - Software Decoder:

This Option activates the Teletext - Software Decoder. See passage Teletext - Software Decoder (TuxText) activating.

start/stop Ngrab recording:

These Functions are still under development. They are used to record a Service over the Network.

15. Setup - OSD Language

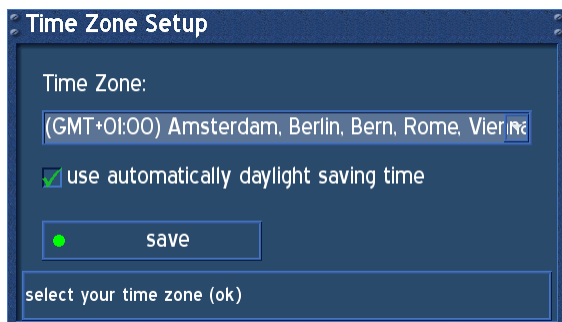
Press the MENU-Button to enter the OSD-Mainmenu.
Go to Setup -> System Settings -> OSD Language.



Use the Navigation-Buttons up or down to choose your language. Press the OK-Button to activate. Exit all menus and reenter.

16. Setup - Time Zone

Press the MENU-Button to enter the OSD-Main menu.
Go to Setup -> System Settings -> Time Settings -> Timezone Configuration.



Press the OK-Button to open the Dropdownlist. Use the Navigation-Buttons up or down to search for your Time Zone. Press the OK-Button to select.

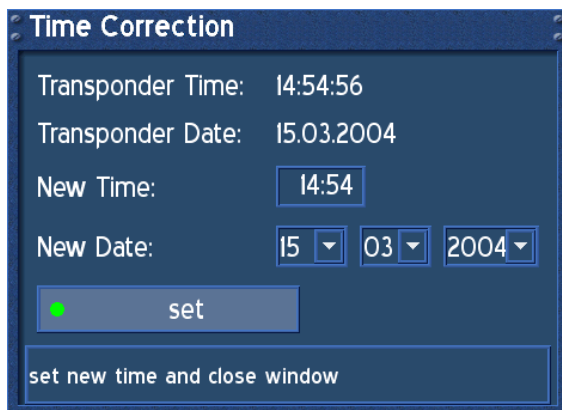
use automatically daylight saving time:

Check or uncheck the Checkbox with the OK-Button. If checked, the Time will be automatically adjusted for daylight saving changes.

Press the green Option-Button to save.

16.1. Setup - Time Correction

Press the MENU-Button to enter the OSD-Mainmenu.
Go to Setup -> System Settings -> Time Settings -> Time Correction.



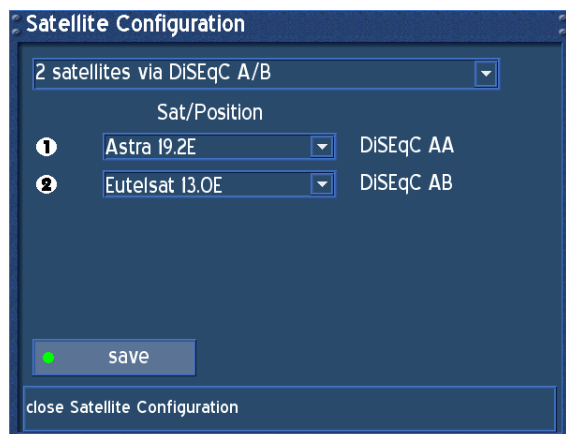
By entering this menu, please wait a second. The Dreambox tries to get the actual Time. The Transponder Time and Date will be automatically updated.

If this fails, enter the new Time and Date manually.

Press the green Option-Button to set the new Time and Date.

17. Satellite Configuration

Press the MENU-Button to enter the OSD-Mainmenu.
Go to Setup -> Service Searching -> Satellite Configuration.

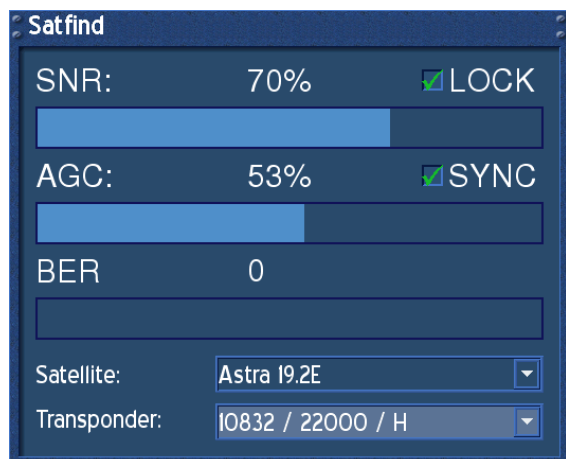


Navigate to the upper Dropdownlist and choose your appropriate Satellite Configuration and press the OK-Button. Choose your Satellites the Dish is adjusted to and press the green Option-Button to save configuration.

This Configuration might differ from yours.

18. Satfind

Press the MENU-Button to enter the OSD-Main menu.
Go to Setup -> Service Searching -> Satfind.



Choose from the lower Dropdownlists your preferred satellite and transponder.

Adjust the Dish towards the desired satellite until you have a high value on the Signal strength AGC and on the Signal quality SNR indicator. The BER should always indicate a value of zero if the Satellite is locked and synced.

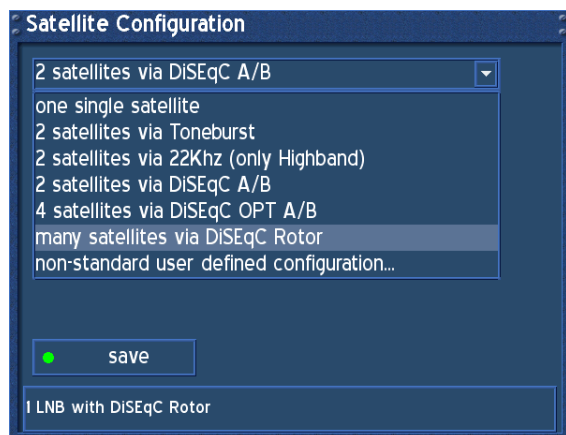
SNR: Signal to Noise Ratio
This Indicator shows the Quality of the Signal.

AGC: Automatic Gain Control
This Indicator shows the Strength of the Signal.

BER: Bit Error Rate
This Indicator shows the Errors Rate of the Signal.

19. Motor Setup

Press the MENU-Button to enter the OSD-Mainmenu.
Go to Setup -> Service Searching -> Motor Setup.



The 'Satellite Configuration' menu shows a dropdown list with the following options: '2 satellites via DiSEqC A/B', 'one single satellite', '2 satellites via Toneburst', '2 satellites via 22Khz (only Highband)', '2 satellites via DiSEqC A/B', '4 satellites via DiSEqC OPT A/B', 'many satellites via DiSEqC Rotor' (highlighted), and 'non-standard user defined configuration...'. A green 'save' button is at the bottom left, and a status bar at the bottom indicates '1 LNB with DiSEqC Rotor'.

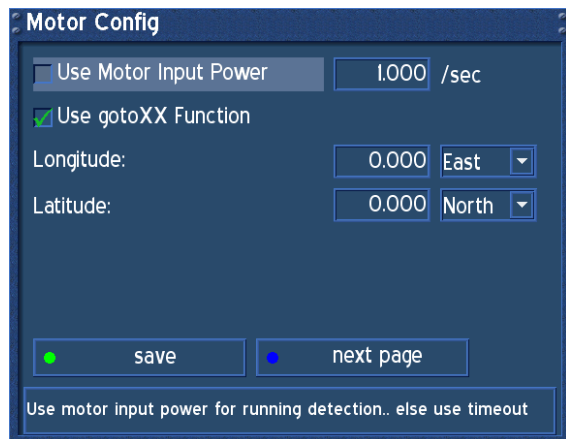
Before proceeding with the Motor Setup refer to passage Satellite Configuration and choose from the upper Dropdownlist "many satellites via DiSEqC Rotor" and press the OK-Button, if you setup a Motor for the first time.



This screen shows the 'many satellites via DiSEqC Rotor' configuration. It features a table with columns: Sat/Position, LNB, 22Khz, and Voltage. The table lists five satellites: Intelsat 701 (180.0E), Panamsat 9 (58.0W), Intelsat 805 (55.5W), Intelsat 706 (53.0W), and Intelsat 705 (50.0W). Each row has dropdown menus for LNB (set to 'O'), 22Khz (set to 'Hi/Lo'), and Voltage (set to 'H/V'). At the bottom are 'save' (green), 'new' (yellow), and 'erase' (red) buttons, and a status bar that says 'select your configuration here'.

Sat/Position	LNB	22Khz	Voltage
Intelsat 701 (180.0E)	O	Hi/Lo	H/V
Panamsat 9 (58.0W)	O	Hi/Lo	H/V
Intelsat 805 (55.5W)	O	Hi/Lo	H/V
Intelsat 706 (53.0W)	O	Hi/Lo	H/V
Intelsat 705 (50.0W)	O	Hi/Lo	H/V

All possible satellites will be listed. Press the green Option-Button to save this configuration.



The 'Motor Config' menu has two checkboxes: 'Use Motor Input Power' (unchecked) and 'Use gotoXX Function' (checked). Next to the first checkbox is a text field with '1.000 /sec'. Below are fields for 'Longitude:' (0.000) and 'Latitude:' (0.000), each with a directional dropdown (East and North respectively). At the bottom are 'save' (green) and 'next page' (blue) buttons, and a status bar that reads 'Use motor input power for running detection.. else use timeout'.

After saving the Configuration, choose (3) Motor Setup from the Menu Service Searching and press the OK-Button. The Menu Motor Config appears.

Refer to the Rotors Manual for correct values degrees/second. If unsure, set a check in front of "Use Motor Input Power" and enter the maximum current the Motor is using for turning to the Dish.

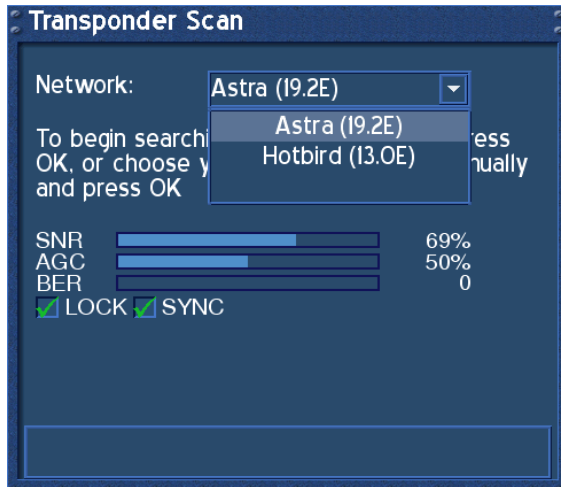
Visit the Website <http://www.heavens-above.com> to figure out your geographical location. Enter the values for Longitude and Latitude and press the green Option-Button to save.

Proceed to passage Automatic Multisat Scan.

20. Automatic Transponder Scan

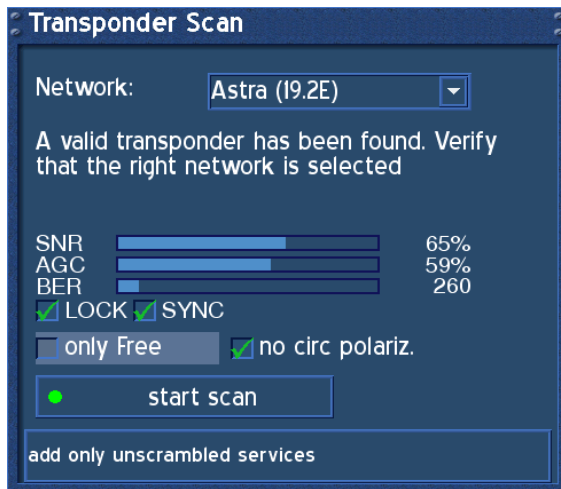
Press the MENU-Button to enter the OSD-Main menu.

Go to Setup -> Service Searching -> Automatic Transponder Scan.



The Automatic Transponder Scan scans one satellite after one which is configured.

Select the first satellite to scan and press the OK-Button.



Now choose to scan only Free services or not by setting a check or not. If your LNB is not a C-Band LNB, then let the check in the Checkbox in front of "no circ polariz."

Press the green Option-Button to start scan.

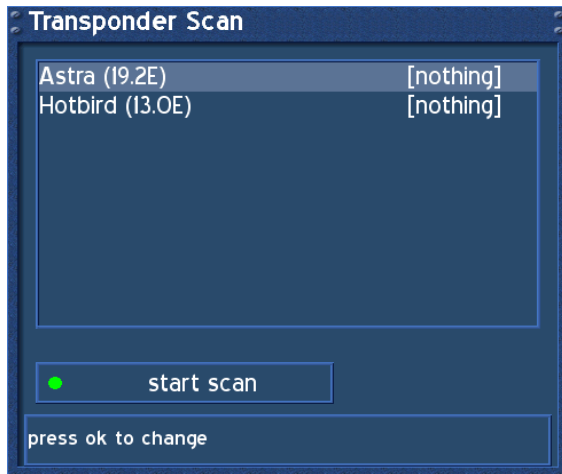


This window appears after scanning the satellite.

Press the OK-Button to proceed to the next satellite scan.

21. Automatic Multisat Scan

Press the MENU-Button to enter the OSD-Mainmenu.
Go to Setup -> Service Searching -> Automatic Multisat Scan.



The Automatic Multisat Scan is recommended for scanning all configured satellites at once.

By pressing the OK-Button on each satellite a coupler times, you set the scan method.

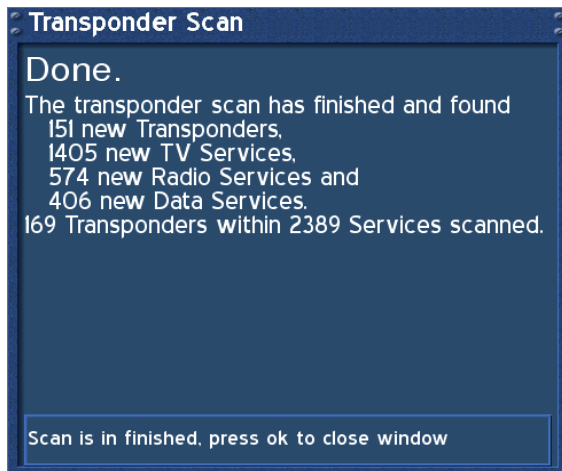
First: nothing, satellite will not be scanned

Second: all, services will be scanned

Third: only free, services will be scanned

Fourth: nothing, again

Press the green Option-Button to start scan.

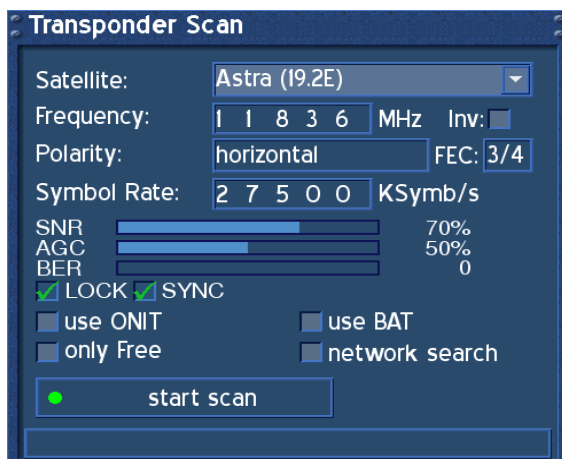


This window appears after scanning the satellites.

Press the OK-Button and answer no to the next question.

22. Manual Transponder Scan

Press the MENU-Button to enter the OSD-Main menu.
Go to Setup -> Service Searching -> Manual Transponder Scan.



The Manual Transponder Scan is recommended for scanning a specific Transponder that has not been found during Automatic Transponder Scan. New services will be added to the Servicelist.

Press the OK-Button on the upper Dropdownlist and choose the appropriate Satellite, press the OK-Button again to select.

Type in the correct Transponder Values in its fields.

Press the green Option-Button to start scan.

The scan results will be shown in the next window.

23. Transponder Edit

Press the MENU-Button to enter the OSD-Mainmenu.
Go to Setup -> Service Searching -> Transponder Edit.



This Menu keeps all known satellites the Dreambox scans for. If you recognize a missing satellite, add or edit the satellite.

Pressing the OK-Button on the sat-button, enters the Satellite Edit Menu.

Pressing the OK-Button on the add-button, adds a new frequency to the selected satellite.

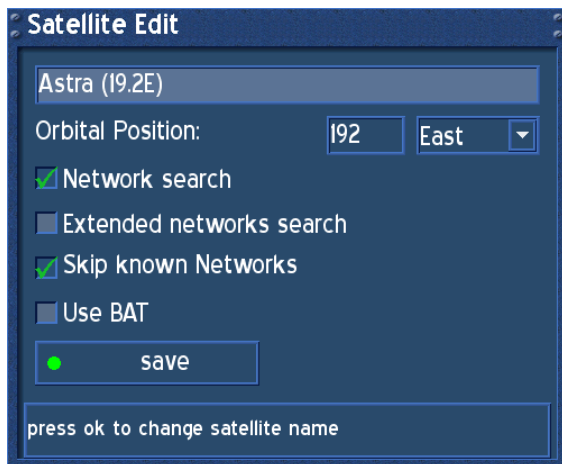
Pressing the OK-Button on the edit-button, edits the Transponder Values for the selected satellite.

Pressing the OK-Button on the remove-button, removes a transponder frequency from the selected satellite.

Pressing the green Option-Button adds a new satellite.

Pressing the red Option-Button deletes a satellite.

Follow the Instructions on the Statusbar.



Network search:

The NIT holds the Information about the Satellites and the TV/Radio- Programs.
(NIT = Network Information Table)

Extended network search:

Set a check to scan the NIT from other Transponders

Skip known Networks:

Unchecking this, decreases the satscan. The NIT will not be used.

Use BAT:

Bouquet Tables of the Provider will be used, if available.

(BAT = Bouquet Association Table)

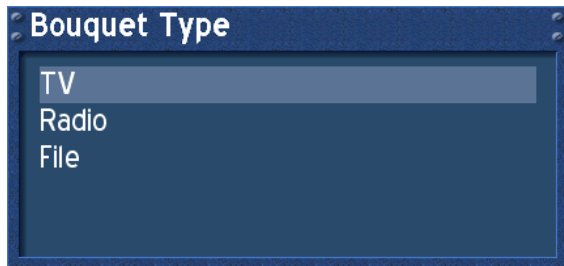
Press the green Option-Button to save.

24. Service Organising - create new Bouquet

The Bouquets are used to save your favorite services from the Main Servicelist into one simple bouquet. You can either add a TV or Radio Bouquet. In this example we only describe creating a TV Bouquet, because its always the same procedure.

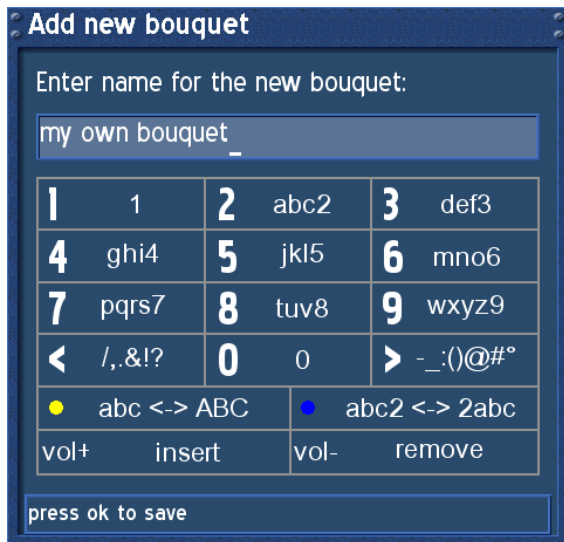
Press the MENU-Button to enter the OSD-Mainmenu.

Go to Setup -> Service Organising -> Create new Bouquet.



This Menu shows the Bouquet Types, the Dreambox allows you to add.

Select TV and press the OK-Button.



Enter a name of your choice with the Numeric-Keyboard on your Remote-Control.

Press the yellow Option-Button for lower or uppercase letters.

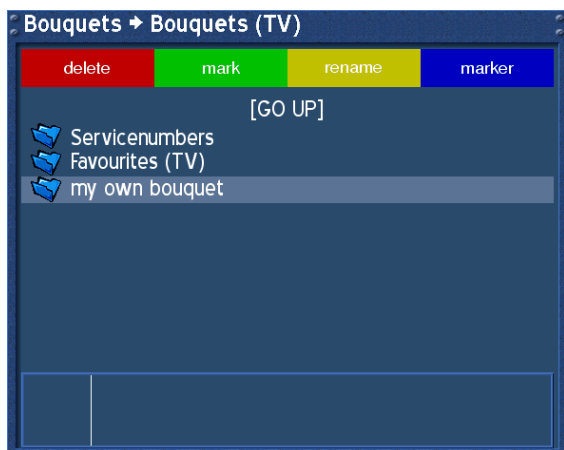
Press the blue Option-Button for numerics or letters to come first.

Press the Volume + Button to insert a letter or space.

Press the Volume - Button to remove a letter or space.

Press the OK-Button to save.

The System will guide you back to the Menu Service Organising.



To verify your created Bouquet, choose (3) Edit Bouquets from the Menu Service Organising and press the OK-Button. Choose from the next Menu Bouquets, Bouquets (TV) and press the OK-Button.

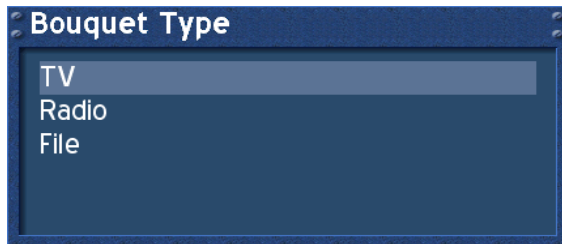
The Bouquet has been created.

Press the EXIT-Button to exit.

The System will guide you back to the Menu Service Organising.

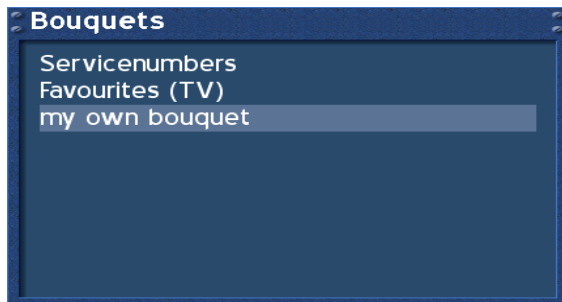
25. Service Organising - Add services to Bouquet

Press the MENU-Button to enter the OSD-Mainmenu.
Go to Setup -> Service Organising -> Add services to Bouquet.



This Menu shows the Bouquet Types, the Dreambox allows you to add services to.

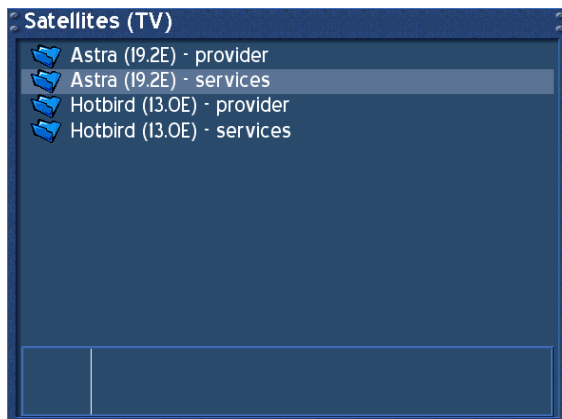
Select TV and press the OK-Button.



This Menu shows the System default Bouquets, Servicenumbers and Favorites (TV).

The Bouquet "my own bouquet" has been created one passage before.

Navigate to the created Bouquet and press the OK-Button.



This Menu shows all configured satellites.

You can either add services from the Provider list or add a service from the Serviceslist.

In our example we choose Astra (19.2E) - services to collect some services to add.

Navigate to Astra (19.2E) - services and press the OK-Button.



Now choose your desired services by navigating to them and pressing the OK-Button to select. All selected services do appear red.

To unselect a service, just press the OK-Button on it again.

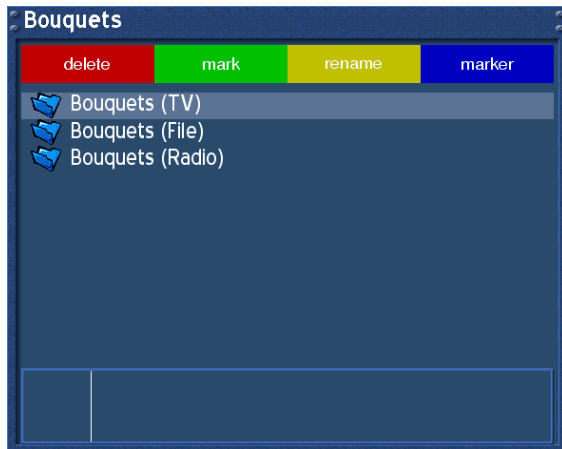
To finish selection press the EXIT-Button.

The System will guide you back to the Menu Service Organising.

To verify your selected services, choose (3) Edit Bouquets from the Menu Service Organising and press the OK-Button. Choose from the next Menu Bouquets, Bouquets (TV) and press the OK-Button. Navigate to your created bouquet and press the OK-Button.

26. Service Organising - Edit Bouquets

Press the MENU-Button to enter the OSD-Mainmenu.
Go to Setup -> Service Organising -> Edit bouquets.

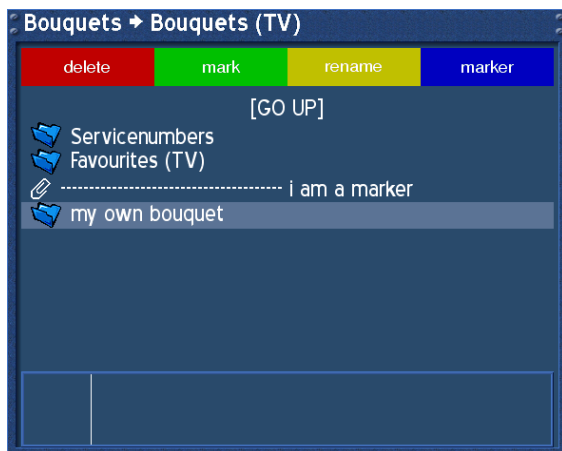


In this Menu you can only rename the selected Bouquet Type by pressing the yellow Option-Button.

Choose a Bouquet Type you wish to edit a Bouquet from.

In our example we do choose Bouquets (TV) to edit.

Press the OK-Button.



Press the red Option-Button to delete a selected Bouquet.

Press the green Option-Button to highlight a Bouquet and direct it to another place in the list. Press the green Option-Button again to release.

Press the yellow Option-Button to rename a selected Bouquet.

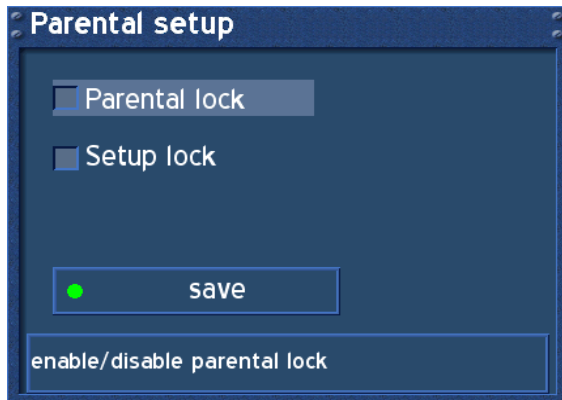
Press the blue Option-Button to set a marker between two Bouquets. A marker is used to place visual remarks. You can create as many markers as you want.

The same functions can be applied inside a Bouquet. Press the OK-Button to enter a Bouquet.

Press the EXIT-Button to exit.

27. Parental Lock

Press the MENU-Button to enter the OSD-Mainmenu. Go to Setup -> Parental Lock.
Parental lock is used to lock services of your choice inside the Servicelist against access.
Setup lock is used to lock the Menu Setup against access.



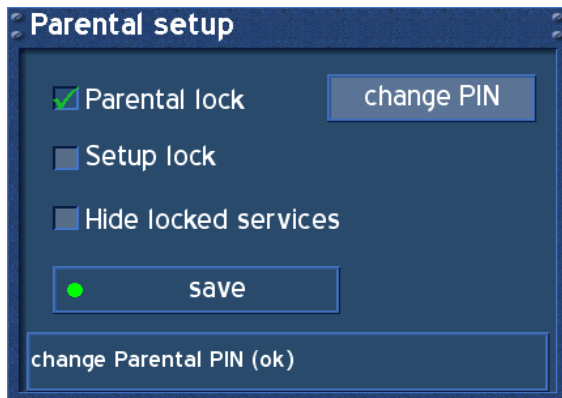
The Parental setup requires a four digit code of your choice called PIN for Parental lock and Setup lock.

Attention:

Loosing this PIN requires a “Flash Erase” of the Operationsystem to reset to factory defaults. See passage Dreambox resetting to factory defaults (flash erase).

27.1. Parental lock enable / disable

Press the MENU-Button to enter the OSD-Mainmenu.
Go to Setup -> Parental Lock.



To enable Parental lock, set a check in front of “Parental lock”. The Button “change PIN” appears. Navigate to this Button and press the OK-Button to enter a PIN your choice. Reenter the PIN.

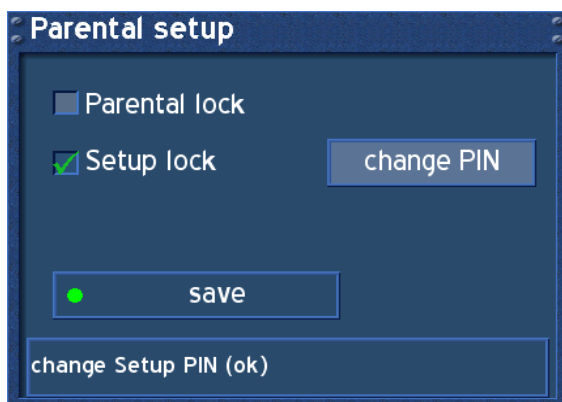
If you don't want to see locked services inside the Servicelist, set a check in front of “Hide locked services”.

To disable Parental lock, uncheck the checkbox from “Parental lock” and enter the PIN to verify.

Press the OK-Button to save.

27.2. Setup lock enable / disable

Press the MENU-Button to enter the OSD-Mainmenu.
Go to Setup -> Parental Lock.



To enable Setup lock, set a check in front of “Setup lock”. The Button “change PIN” appears. Navigate to this Button and press the OK-Button to enter a PIN of your choice. Re-enter the PIN.

To disable Parental lock, uncheck the checkbox from “Setup lock” and enter the PIN to verify.

Press the OK-Button to save.

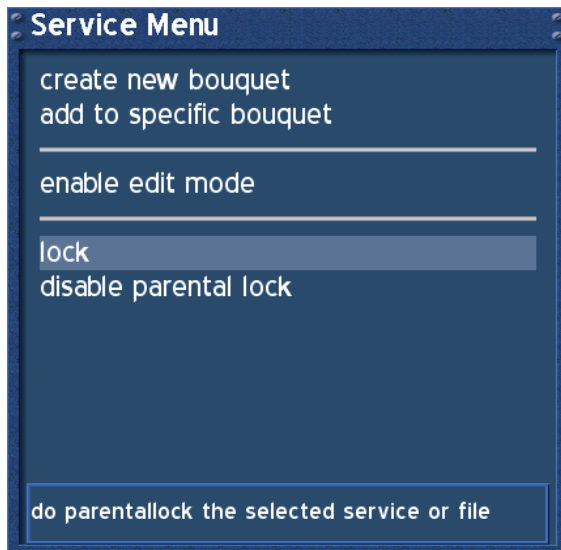
28. Services locking / unlocking



Press the TV-Button to bring up the Servicelist.

Choose the Service you want to lock / unlock and press the MENU-Button.

You can lock / unlock services in any Servicelist. Press the desired Option-Button to enter either **All Services**, **Satellites**, **Providers** or **Bouquets**.



After pressing the MENU-Button the Service Menu appears. Navigate to the option "lock" / "unlock" and press the OK-Button to lock / unlock the selected service.



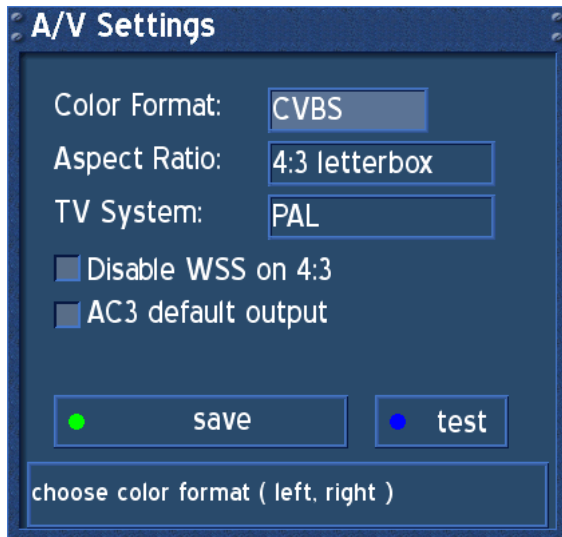
Beside the selected service appears the Symbol for a locked service.

If you want to view / unlock this service next time you select it, you will be asked for the PIN.

Enter the PIN to view / unlock this service. After unlocking the Service, the Symbol for a locked service will disappear.

29. A/V Settings

Press the MENU-Button to enter the OSD-Mainmenu.
Go to Setup -> Sytem Settings -> A/V Settings.



test:

Using the blue Option-Button shows a coupler of testpictures. Press 1 – 8 to view the diffrent testpictures. Press any other button to exit the testmode.

The Dreambox has no built-in Dolby Digital Decoder, AC3 signals are not available on the analogue socket, therefore you need an external Dolby Digital Amplifier to adjust the Volume.

Press the green Option-Button to save.

Use ether the Navigation-Buttons left and right or the OK-Button to change or set the Values.

Color Format:

CVBS(FBAS), **RGB** (Red, Green, Blue seperated), **SVideo** (Color- and Brightnes signal seperated) and **YPbPr** (Component signal e.g. for Projectors).

Aspect Ratio:

4:3 letterbox (standard), (16:9 programs will be displayed on 4:3 TV's with black beams at top and bottom)

4:3 panscan (16:9 programs will be zoomed to full high on 4:3 TV's, parts of the picture on the left and right side will cut off)

16:9 (programs transmitted in 16:9 will be displayed automatically in 16:9, on 4:3 TV's the picture will be reduced in height)

always 16:9 (for 16:9 TV's, on 4:3 TV's the picture will be reduced in height)

TV System:

PAL, PAL+PAL60, Multinorm and NTSC

Select the Norm your TV supports.

We suggest to choose Multinorm.

disable WSS on 4:3:

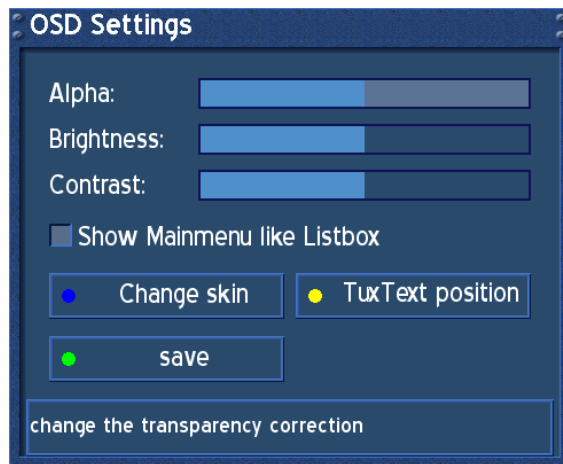
Set a check into the Checkbox to disable zooming on some 16:9 TV's during 4:3 transmissions.

AC3 default output:

If a program is transmitted with an AC3 Audio-Track (e.g. Dolby Digital), the Dreambox switches automatically to this Audio-Track. The AC3 Signal will only be available at the optical socket.

30. OSD Settings

Press the MENU-Button to enter the OSD-Mainmenu.
Go to Setup -> System Settings -> OSD Settings.



Use the Navigation-Buttons left or right to decrease or increase the selected slider.

Alpha:

Setup how much the tv picture should be visible through the OSD.

Brightness:

Setup the Brightness of the OSD.

Contrast:

Setup the Contrast of the OSD.

Show Mainmenu like Listbox:

Set a check into Checkbox to enable listboxview of the OSD-Mainmenu.

Change skin:

Setup a new skin. See passage Change Skin.

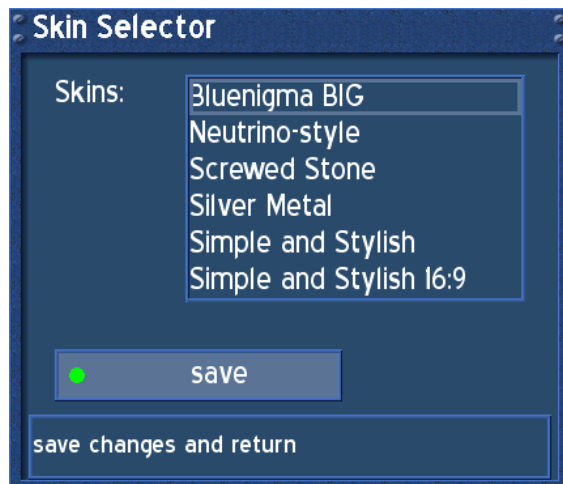
TuxText position:

Setup the TuxText position. See passage TuxText position.

Press the green Option-Button to save.

30.1. Skin Setup

Press the MENU-Button to enter the OSD-Main menu.
Go to Setup -> System Settings -> OSD Settings -> Change Skin.



A skin changes the appearance of the OSD.

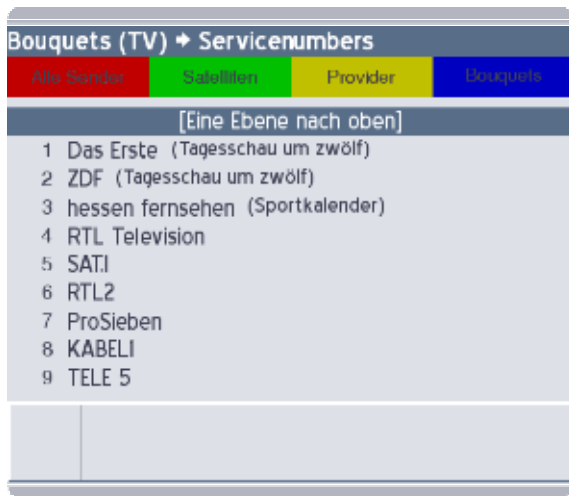
The defaultskin is Screwed Stone.

Please take a look at passage Available Skins to make yourself a picture of this.

Navigate to a Skin of your choice and press the OK-Button to activate.

The Dreambox will ask you to restart the Operationsystem to apply the new skin.

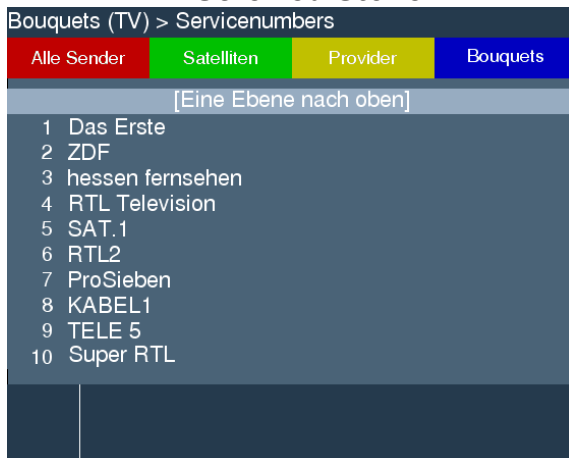
30.2. Available Skins



Bluenigma BIG



Screwed Stone



Simple and Stylish



Neutino-Style



Silver Metal

Simple and Stylish 16:9 has the same look like **Simple and Stylish**, but is optimized for 16:9 TV's.

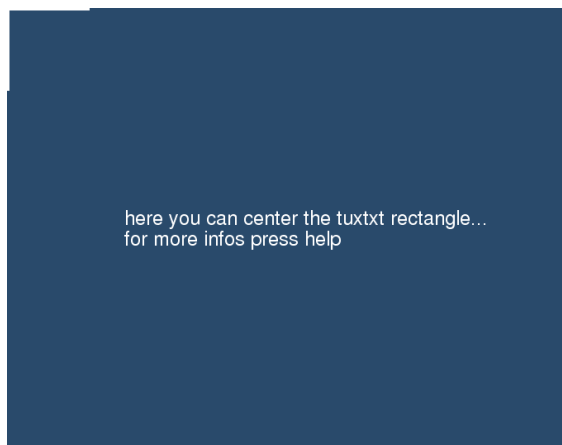
30.3. TuxText position

Press the MENU-Button to enter the OSD-Mainmenu.

Go to Setup -> Sytem Settings -> OSD Settings, press the yellow Option-Button (TuxText position).

What is TuxText? TuxText is a Plugin (additional Software), which allows the Dreambox to decode the digital Teletext. TuxText is more faster and easier to use.

This Menu is used to adjust the Position of the TuxText. Maybe the Clock does not appear or the Textpages are not shown in the middle of the screen.



Press the HELP-Button for more information.

The red Option-Button enables the Top left Point of the rectangle.

The green Option-Button enables the Bottom right Point of the rectangle.

Use the Navigation-Buttons down/right for the Top left rectangle and up/left for the Bottom right rectangle to adjust.

Press the OK-Button to exit

Attention:

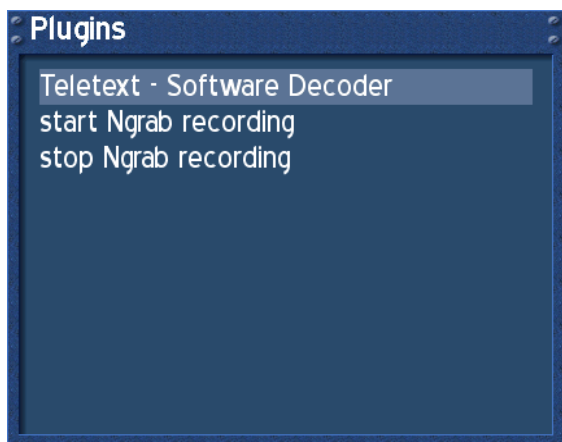
If you don't see any rectangle, then they are out of range. Please adjust the rectangle into the middle of the screen.

31. Teletext - Software Decoder (TuxText) activating



Press the OK-Button to bring up the Infobar. The blue Option-Button activates the Plugins menu.

Please remember, not every service provides Teletext Information!



Press the OK-Button to activate the "Teletext - Software Decoder" (TuxText).

TuxText interactive Navigation:

Press the OK-Button to enter the interactive mode. Use the Navigation-Buttons to select a textpage and press the OK-Button to call this site. You don't need to type in a Textpagenumber in this mode.

Press the EXIT-Button to exit.

TuxText viewing options:

Press the Volume-Mute-Button a couple of times to switch to alpha-mode, invisible-mode and full-mode. The alpha-mode shows the picture from the running program through the Textpages. The invisible-mode shows the complete picture from the running program without exiting the TuxText. The full-mode brings back the Textpage.

Press the Volume + Button to toggle between double high from the upper half, double high from the lower half and full view Textpage.

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

TuxTxt Konfigurationsmenu:

Press the MENU-Button to enter the TuxText Konfigurationsmenu. We are sorry, at the moment, this menu is only available in german.

Teletext – Auswahl:

Use the Navigation-Button left or right to choose another Teletext provider from the current Transponder and press the OK-Button to view.

Bildschirmformat (Aspect Ratio):

16:9 im Standard-Modus = ein/aus (16:9 during Standard-Mode = enable/disable)

Enabling this, shows the TuxText in 16:9 Aspect Ratio. Press the OK-Button to enable or disable. Default is disabled.

16:9 im TextBild-Modus = ein/aus (16:9 during TextPicture-Mode = enable/disable)

Enabling this, switches the TV to 16:9 Aspect Ratio if the PIG-Mode is activated with the Volume - Button. Press the OK-Button to enable or disable. Default is disabled

Attention:

On some older 4:3 TV's these Modes may not work. If enabled, it could happen, that your TV switches away from the VCR or A/V socket. The reason is a technical problem. The Switchsignal on the Scartconnector is at PIN 8 using 12 Volts. Using a 16:9 Aspect Ratio switches the PIN 8 to 6 Volts, which some older 4:3 TV's can not handle. If you are using a 4:3 TV, we suggest not to enable these Modes.

Helligkeit (Brightness):

Anzeige 1/3 reduzieren = ein/aus (Display 1/3 reducing)

Enabling this, reduces the Brightness by 1/3. It makes the Display of the TuxText more smoother. If you are watching Teletext Subtitles it's recommended to disable. Press the OK-Button to disable or enable. Default is enabled.

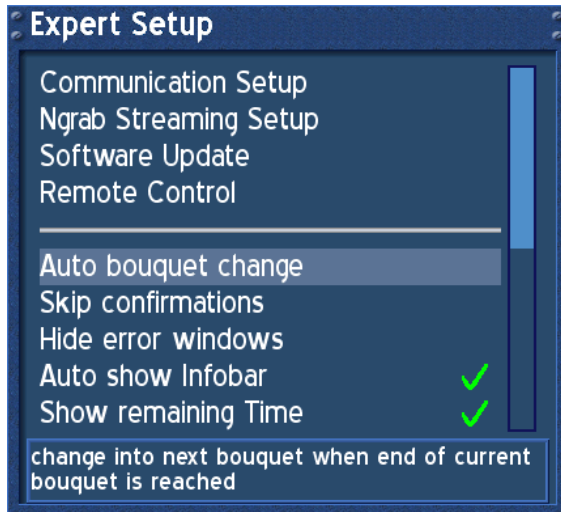
nationaler Zeichensatz (national Codepage):

automatische Erkennung = ein/aus (automatic detection = enable/disable)

The national Codepage detection is used to display the Teletextpages with the right letters for your location. Press the OK-Button to disable or enable. Default is enabled. If disabled, use the Navigation-Buttons left or right, to choose your Codepage.

32. Expert Setup

Press the MENU-Button to enter the OSD-Mainmenu.
Go to Setup -> Expert Setup.



Auto bouquet change:

Press the OK-Button to set a toggle. If you reach the end of a Bouquet, the Dreambox switches to the next Bouquet.

Skip confirmations:

Press the OK-Button to set a toggle. No more confirmation windows will be shown. Be careful with this Option. The System doesn't ask anymore, if you would like to see the recorded movie after stopping recording. nor if you would like to really delete a movie.

Hide error windows:

Press the OK-Button to set a toggle. All error windows will not be shown. E.g. Service not found.

Auto show Infobar:

Press the OK-Button to set a toggle. Every time a new program starts, the Infobar will be shown automatically.

Show remain Time:

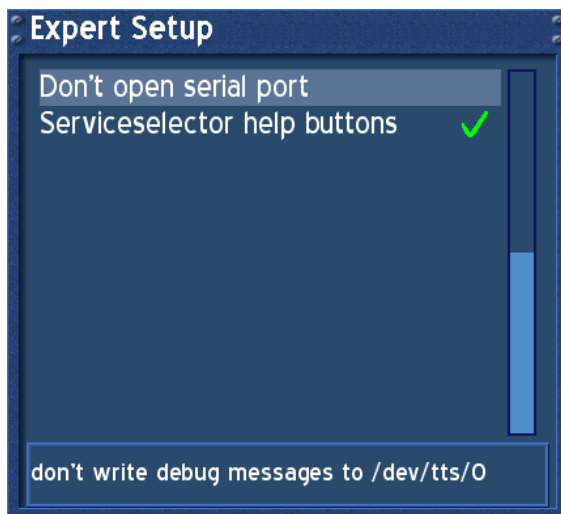
Press the OK-Button to set a toggle. The remain Time of the running program will be shown instead of the complete Time.

Don't open serial port:

Press the OK-Button to set a toggle. The Dreambox does not post anymore debug messages to the console.

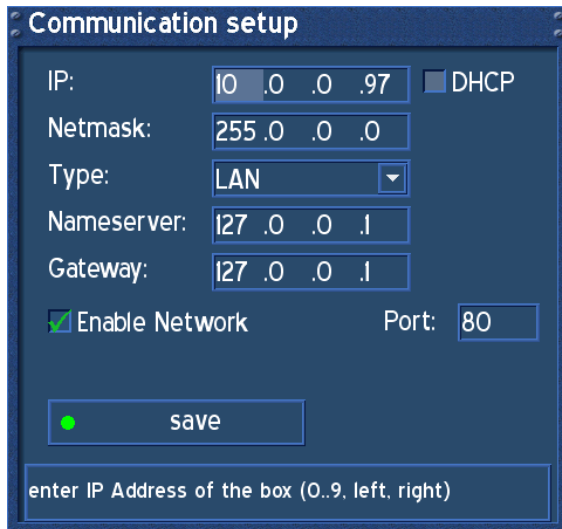
Serviceselector help buttons:

Press the OK-Button to unset the toggle. The Serviceselector help buttons won't be shown.



32.1. Communication (Network, LAN Setup)

Press the MENU-Button to enter the OSD-Main menu.
Go to Setup -> Expert Setup -> select Communication Setup.



Communication setup

IP: 10 .0 .0 .97 ☐ DHCP

Netmask: 255 .0 .0 .0

Type: LAN

Nameserver: 127 .0 .0 .1

Gateway: 127 .0 .0 .1

☒ Enable Network Port: 80

save

enter IP Address of the box (0..9, left, right)

DHCP:

Setting a check enables the Dreambox to use a DHCP (Dynamic Host Control Protocol) Server for IP Configuration. Please be shure if you have a DHCP server in your LAN before checking.

Enable Network:

Setting a check enables the Network. Default is disabled.

Port 80:

Enter a Port of your choice to configure the HTTP Port for the Dreambox's Web Interface. Default is Port 80.

Use the Navigation-Buttons and the Numeric-Keyboard to set the Values.

IP:

Enter the IP-Address here. The IP-Address is used to specify the Host IP-Address.

Netmask:

Enter the Netmask here. The Netmask is used to find an Host IP-Address in its Subnet.

Type:

LAN (Local Area Network); Connection to the home Network. Default is LAN.

WAN/PPPoE (Wide Area Network) / (Point-to-Point Protocol over Ethernet); Direct Connection to the Internet, (e.g. DSL Modem direct connected to the Dreambox). Please proceed to next passage for WAN settings.

Nameserver:

Enter the DNS-Server IP-Address here. DNS is used to translate a Domainname 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.

Gateway:

Enter the Router's IP-Address here, if the Dreambox is connected to the Internet over a Router.

Press the green Option-Button to save.

32.2. Communication (Network, WAN (DSL) Setup)

Press the MENU-Button to enter the OSD-Mainmenu.
Go to Setup -> Expert Setup -> Communication Setup.

Communication setup

IP: 10 .0 .0 .97 ☐ DHCP

Netmask: 255 .0 .0 .0

Type: WAN(PPPoE) T-DSL

Login: defaultuser

Password: *****

☒ Enable Network Port: 80

☒ WWW ☒ Telnet ☒ Samba ☒ FTP

save

press ok to change connection type

Navigate to Type, press the OK-Button and select WAN(PPoE). Use this Type of Connection only, if the Dreambox is connected directly to a DSL-Modem.

T-DSL is used to enter the Account information only for german T-Com users.

Login:

Enter the Loginname provided from your ISP (Internet Service Provider).

Password:

Enter the Password provided from your ISP.

The Dreambox provides firewall functionalities on the following Ports:

80 HTTP, 23 Telnet, 137, 138, 139 Samba and 21 FTP. Uncheck the desired Checkbox to allow incoming connections.

32.3. NGrab Streaming Setup

Press the MENU-Button to enter the OSD-Main menu.
Go to Setup -> Expert Setup -> Ngrab Streaming Setup.

Ngrab Server

Srv IP: 192 .168 .0 .40

Srv Port: 4000

Srv MAC: 00:00:00:00:00:00

detect MAC Address

save

enter IP Address of the Ngrab Server (0..9, left, right)

Ngrab Server is used to record a movie over the Network to another PC. First install the Ngrab Server Software on a PC and configure it referring the manual from the Software.

Srv IP:

Enter the IP-Address of the PC on which the Ngrab Server Software runs.

Srv Port:

Enter the Server Port-Address which is configured in the Ngrab Server Software.

Srv MAC:

The Ngrab Server Software must be started and configured, before detecting the MAC-Address of the PC. Press the blue Option-Button to start detecting.

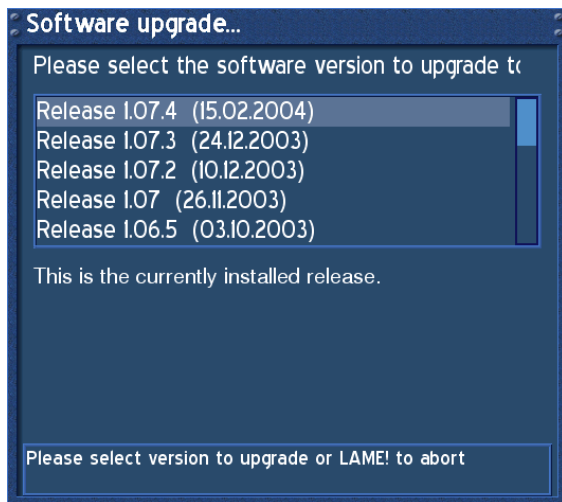
The MAC-Address is used for the WOL (Wake On LAN) funktion, which must be supported by the PC's NIC (Network Interface Card). This is a pretty good feature, because you can configure a PC to use full APM (Advanced Power Management). The PC awakes upon access through the NIC and the Ngrab recording starts.

Press the green Option-Button to save.

32.4. Software Update over Internet

Press the MENU-Button to enter the OSD-Main menu.

Go to Setup -> Expert Setup -> Software Update -> select Internet Update.

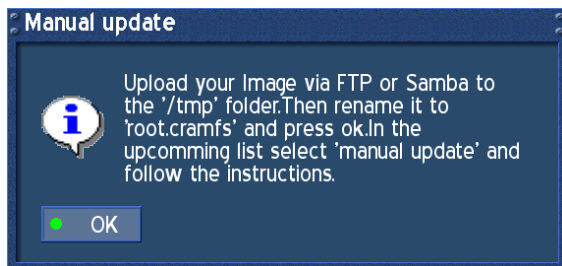


The Internet Update function only works, if you have configured the Network, and the Dreambox is connected to either a Router or a DSL-Modem. This window shows the currently installed Software. The latest release is allways on top of this list. Select your Software upgrade by pressing the OK-Button and follow the instructions on the screen.

32.5. Software Update manual

Press the MENU-Button to enter the OSD-Main menu.

Go to Setup -> Expert Setup -> Software Update -> select Manual Update.



The manual Software upgrade is used, if the Dreambox is not connected to the Internet, but has the Network configured for LAN.

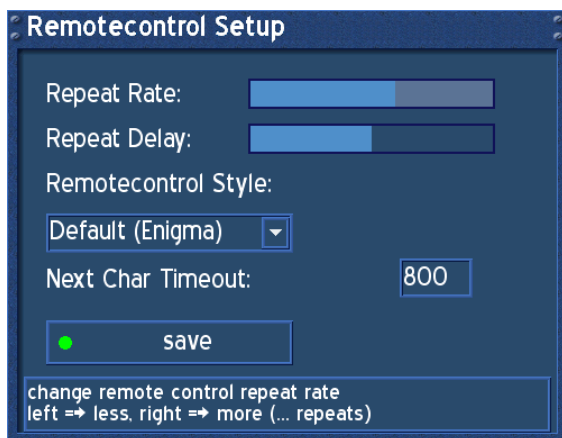
Download an image from <http://www.dm500.com>

Follow the Instructions from this window.

32.6. Remote Control

Press the MENU-Button to enter the OSD-Main menu.

Go to Setup -> Expert Setup -> Remote Control.



This Menu is used to customize the Remote Control to your needs. Use the Navigation-Buttons left or right to adjust the Repeat Rate and Delay.

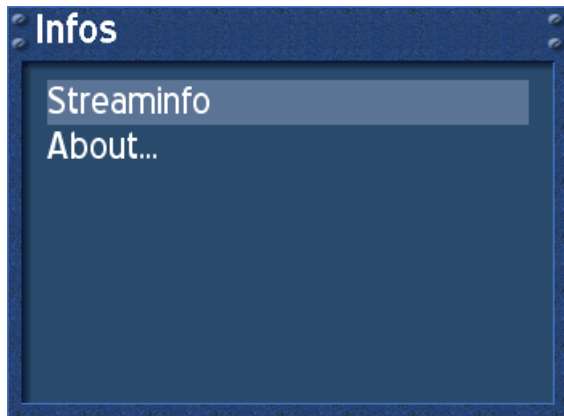
Navigate to Remotecontrol Style to select another Style.

Change the Value „Next Char Timeout“ for your needs. Try this setting.

Press the green Option-Button to save.

33. Information - Streaminfo / About

Press the MENU-Button to enter the OSD-Main menu.
Go to Information.

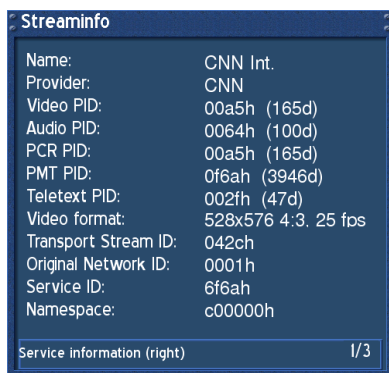


Press the OK-Button to enter the Streaminfo.

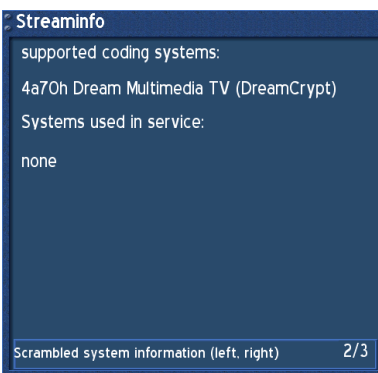
Use the Navigation-Button right to open the following windows. Use the Navigation-Button left to go back.

Navigate to "About" and press the OK-Button to enter.

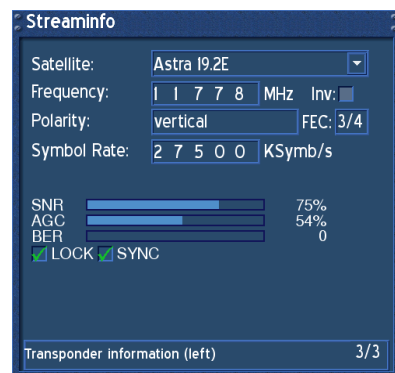
Press the EXIT-Button to exit.



This window shows detailed Information about the chosen Service.



This window shows Information about supported and used coding systems.



This window shows technical Information about the chosen Service.



This window shows the Manufacturer Product Type.

Processor Type
Frontend Type

And the currently installed Software Release.

Press the green Option-Button to exit.

34. DreamUp - Software upgrade

!!!! Very important, please read this passage completely, before starting upgrading !!!!

Dreamup and the Images (Software) for the DM500S are available at our Website www.dm500.com.

***Remove all cables from the Dreambox.
Connect only the serial and the Patchcable.
The Mainspowercord is disconnected.***


You need a Windows PC with a serial port (COM1 or COM2) and an Ethernet card. Connect the Ethernet card with the Dreambox Communication port using a Crossover Patchcable. Connect the serial ports with a serial nullmodem cable.

How to figure out the IP-Address in Windows (W98,W2K,XP) :

Click Start -> Run -> type in "Command" -> press Return.

A Dosbox opens. Type at the Dosprompt "ipconfig /all" and press Return. The IP-Address will be listed. If you have more than one Ethernet adapter listed, then take the first adapter. If you don't see an IP-Address, maybe you have no Ethernet card installed or configured. Refer to Windows Help or consult a Technician for assistance.

```
Ethernetadapter "LAN-Verbindung":  
Verbindungsspezifisches DNS-Suffix:  
Beschreibung. . . . . : 3Com EtherLink 10/100 PCI TX NIC <3C905B-TX>  
Physikalische Adresse . . . . . :  
DHCP-aktiviert. . . . . : Nein  
IP-Adresse. . . . . : 10.0.0.2  
Subnetzmaske. . . . . : 255.0.0.0  
Standardgateway . . . . . :  
DNS-Server. . . . . :  
Primärer WINS-Server. . . . . :
```



Note the IP-Address and Subnetmask.

34.1. DreamUp - Preparing DreamUp

Start the Software DreamUp2.14b on your PC.

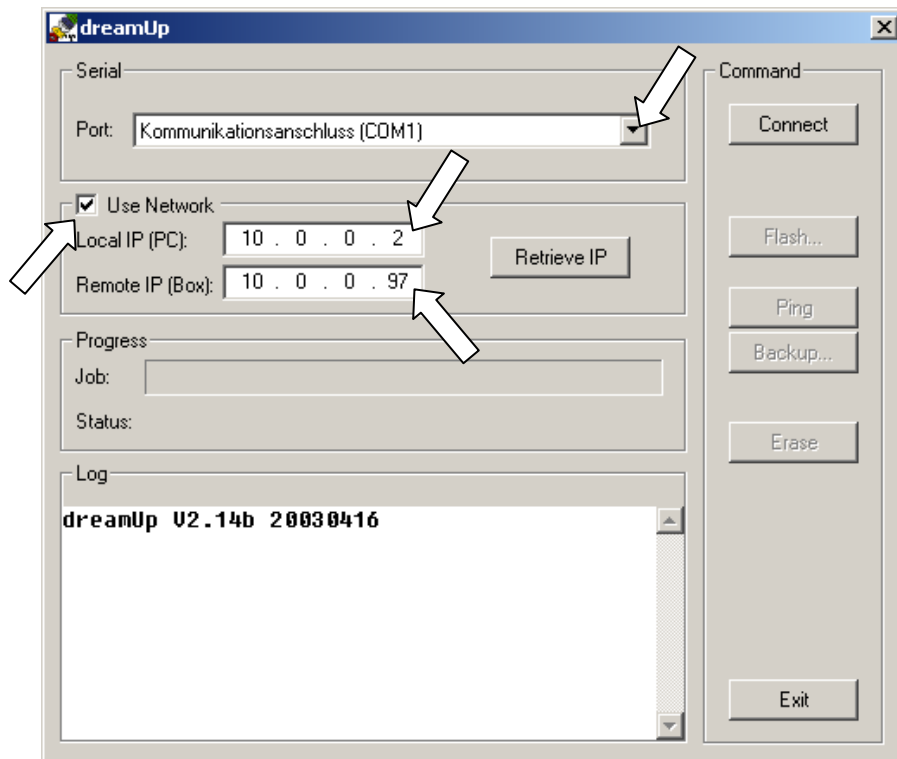
Choose the COM Port, which is connected to the Dreambox.

Make shure the Checkbox „**Use Network**“ is checked. If not, the Software connects only serial.

Type in the IP-Address from your PC „**Local IP (PC)**“.

Type in an IP-Address „**Remote IP (Box)**“ for the Dreambox, e.g. 10.0.0.97.

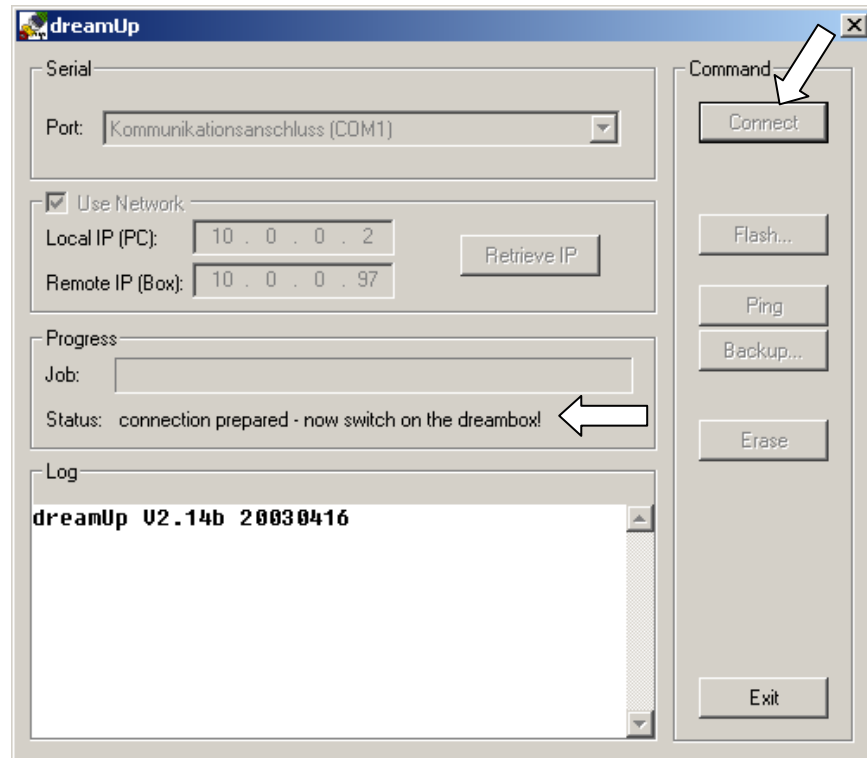
Make sure the IP-Address is not assigned to another Computer in your LAN, if the Dreambox is connected over a Hub, Switch or Router with an normal Pathcable.
If you are using a Crossover Patchcable to connect, then the IP-Address is not that important, but it must match to the chosen Subnetmask.



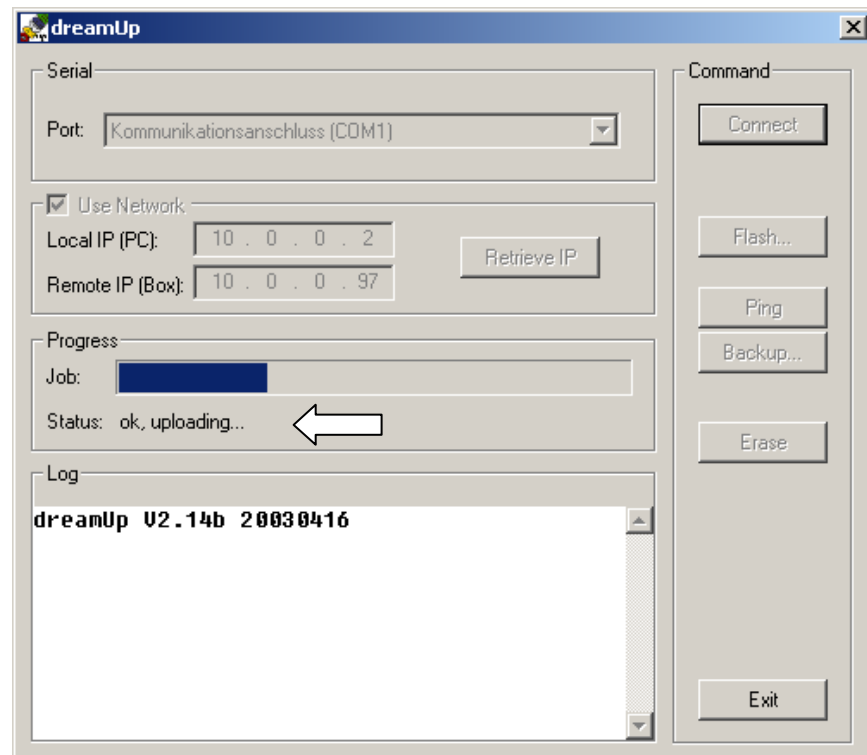
Dreamup is now prepared for flashing the image.

34.2. DreamUp - Establish a Connection

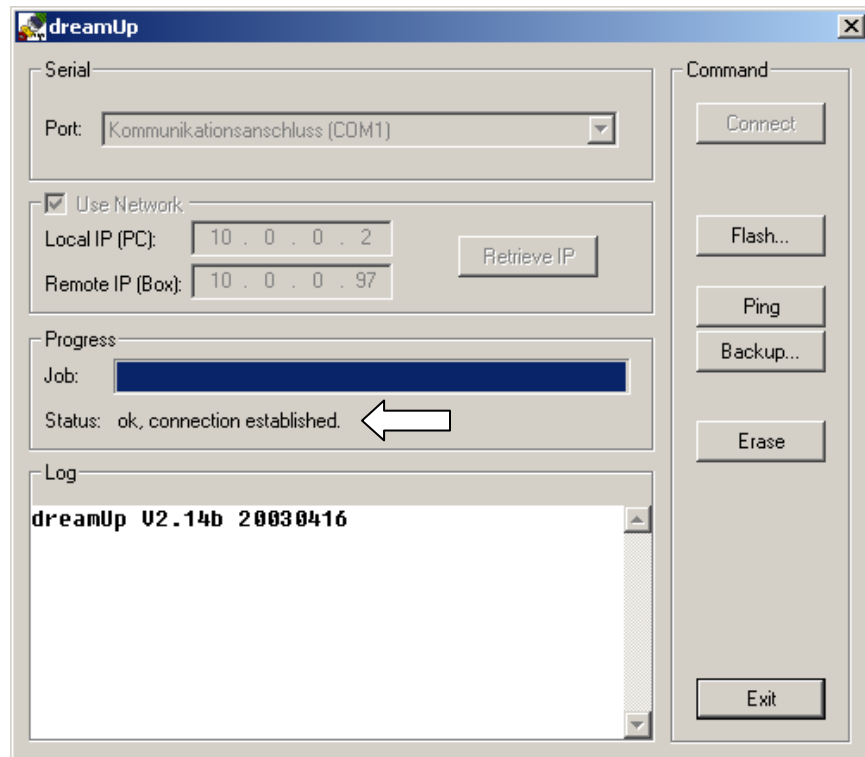
Click on the Connect-Button.



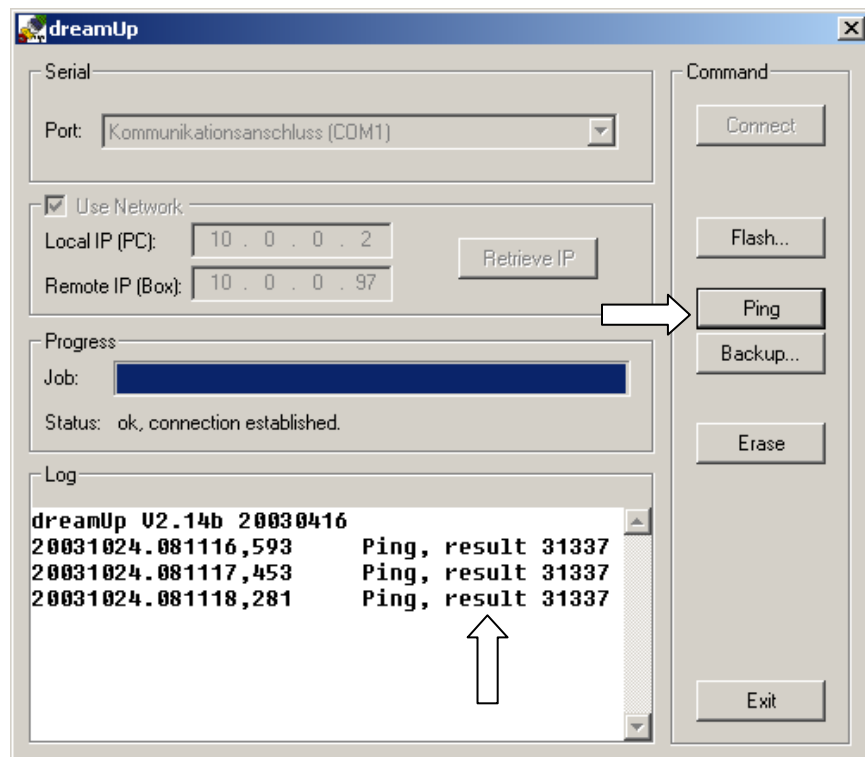
Dreamup tells you, that the Connection is prepared
Plug in NOW the Mainspowercord into the Dreambox.



After Dreamup has connected to the Dreambox, the other Buttons appear in black letters. You can now use them.

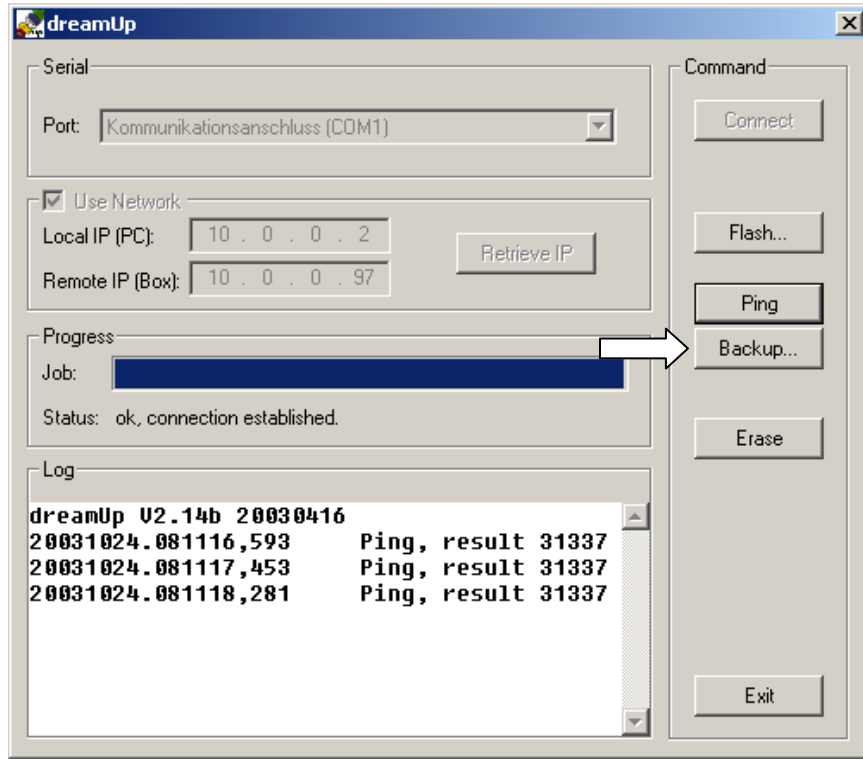


Click on the Ping-Button to test the Ethernet Connection. You will notice the Ping result in the Log window. If not, please check your Network configuration.

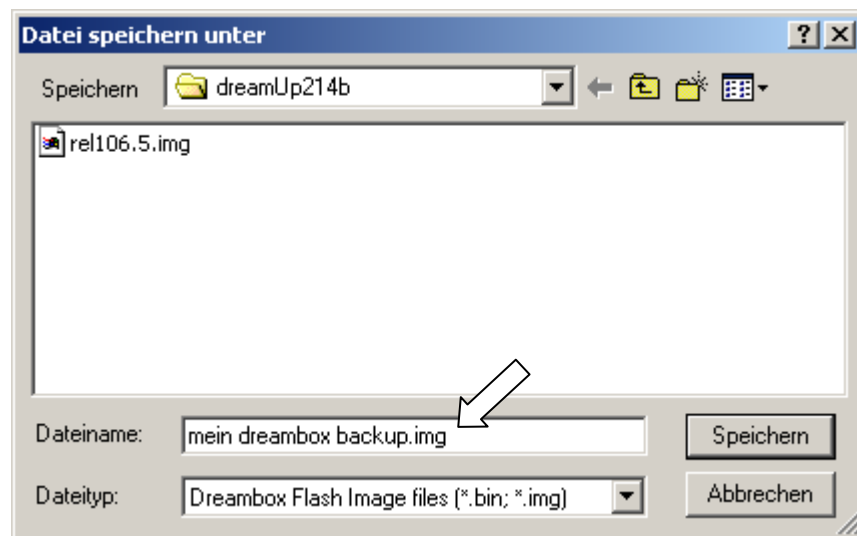


34.3. DreamUp - Backup Software

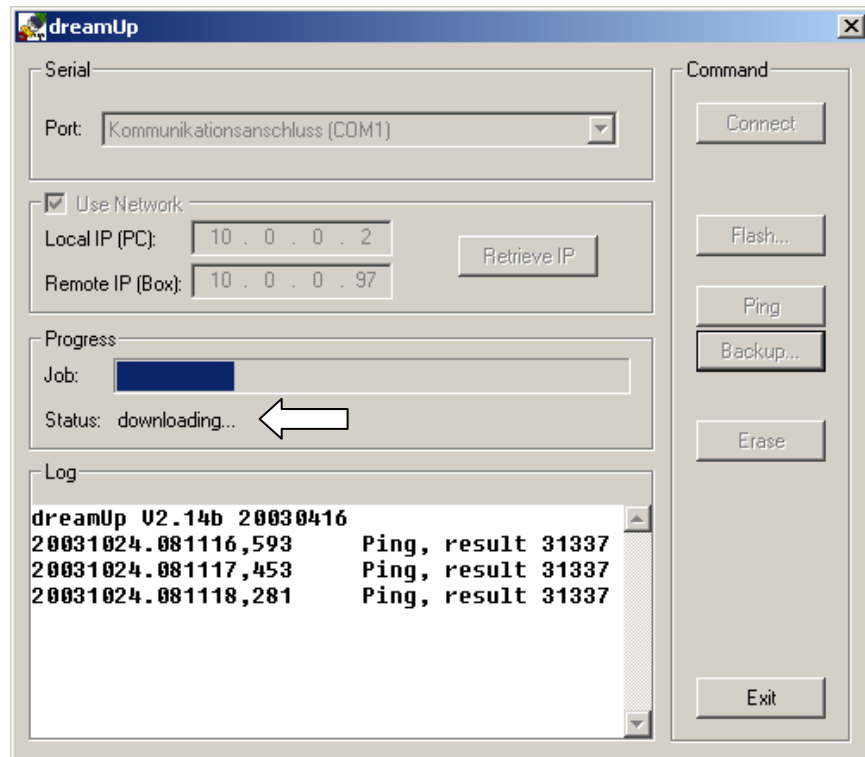
Clicking on the Backup-Button saves the complete installed Software with all your settings.



The file window opens. Type in any name of your choice plus the extension .img or .bin.



After clicking on the Save-Button the Software will be downloaded from your Dreambox.
Watch the Progress bar and Status.



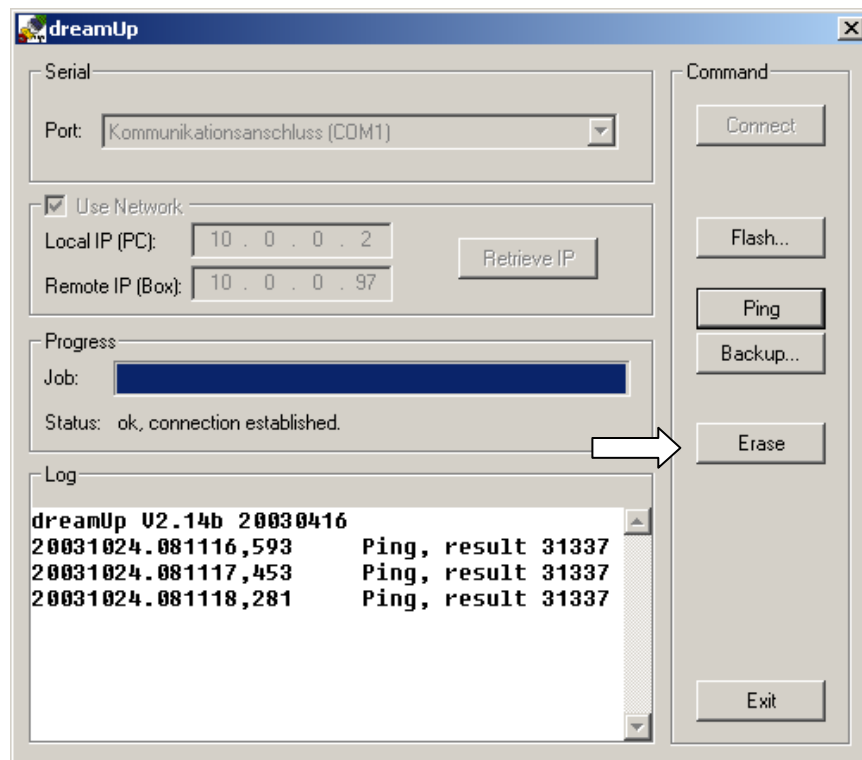
You get a message from Dreamup after downloading has been finished.
With result 0, everything is ok.



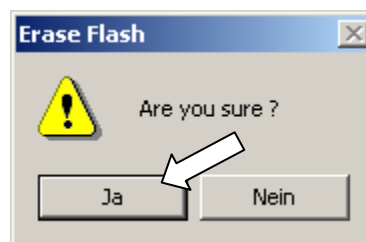
Click on the OK-Button to quit.

34.4. DreamUp - Erasing Software

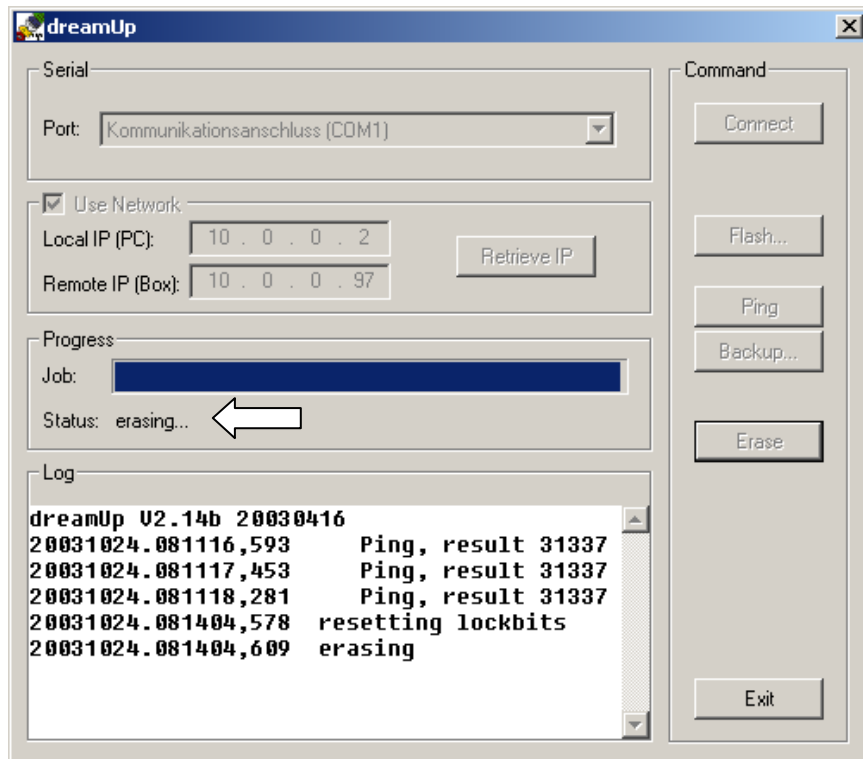
Click on the Erase-Button to erase the currently installed Software.
This is sometimes, but not always necessary.



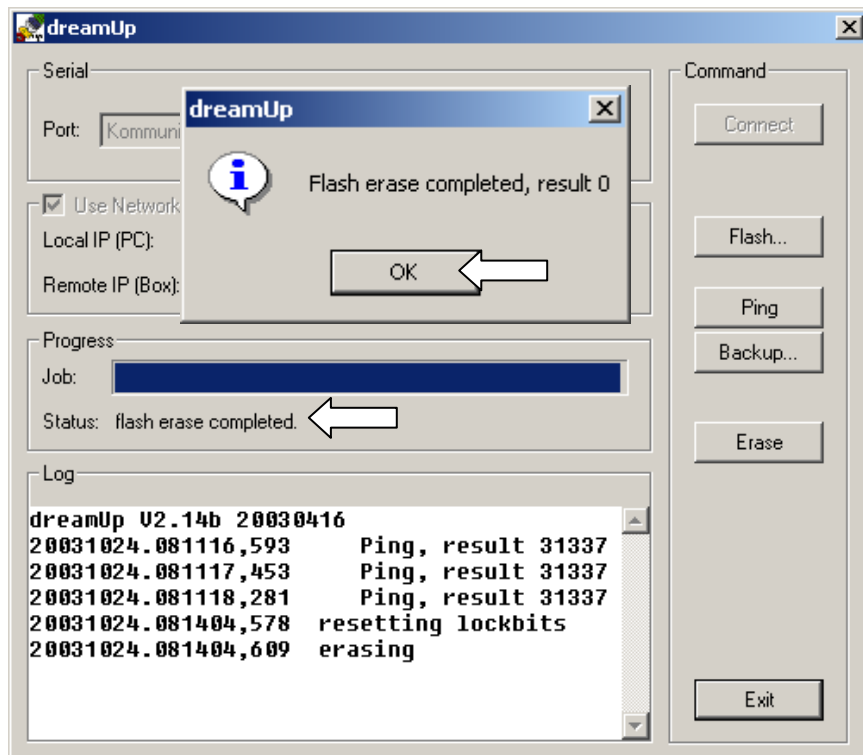
You will get a security question from DreamUp, if you are sure. Click on the Yes-Button.



Watch the Progress bar and Status.

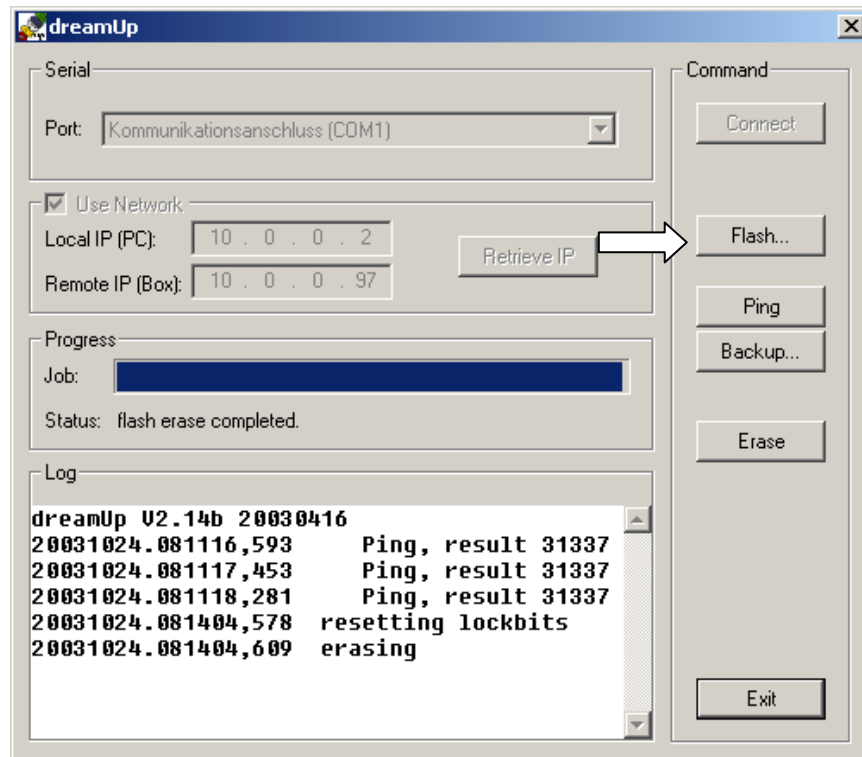


After erasing the Software, Dreamup tells you that everything is ok with a flash erase result 0. Click on the OK-Button to quit.

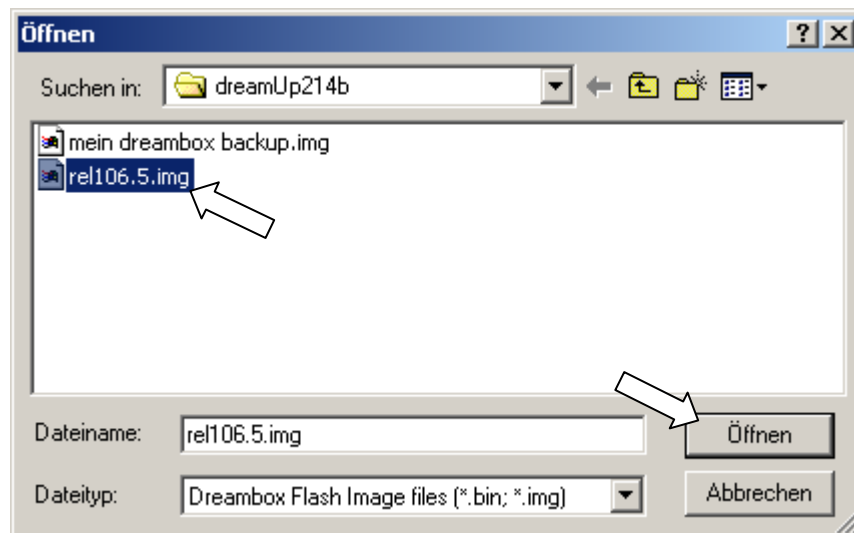


34.5. DreamUp - Flashing Software

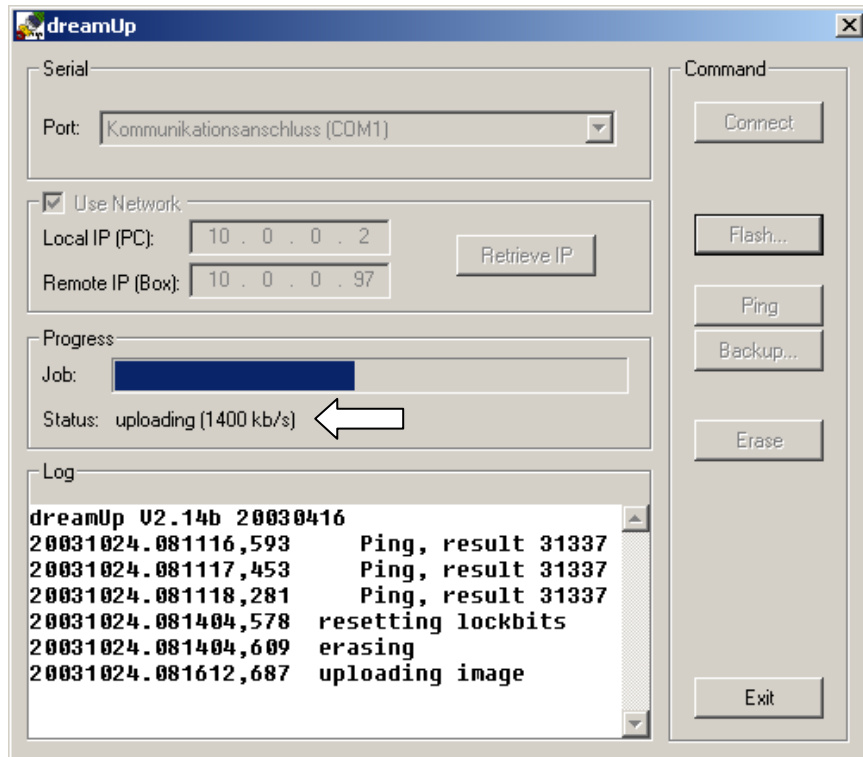
Click on the Flash-Button to select an Imagefile (Software).



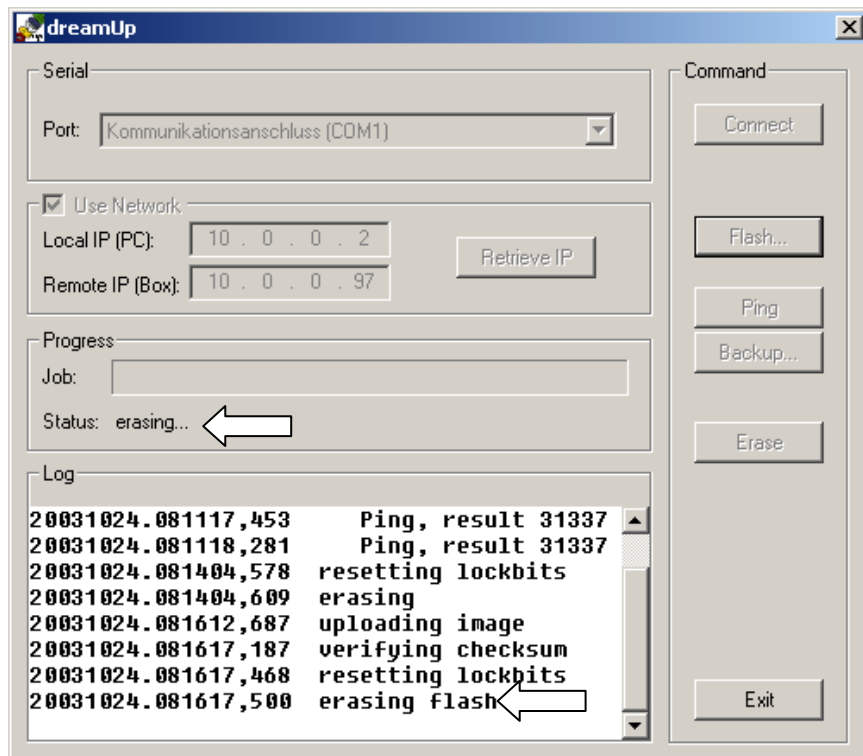
Choose an imagefile and click on the Open-Button.



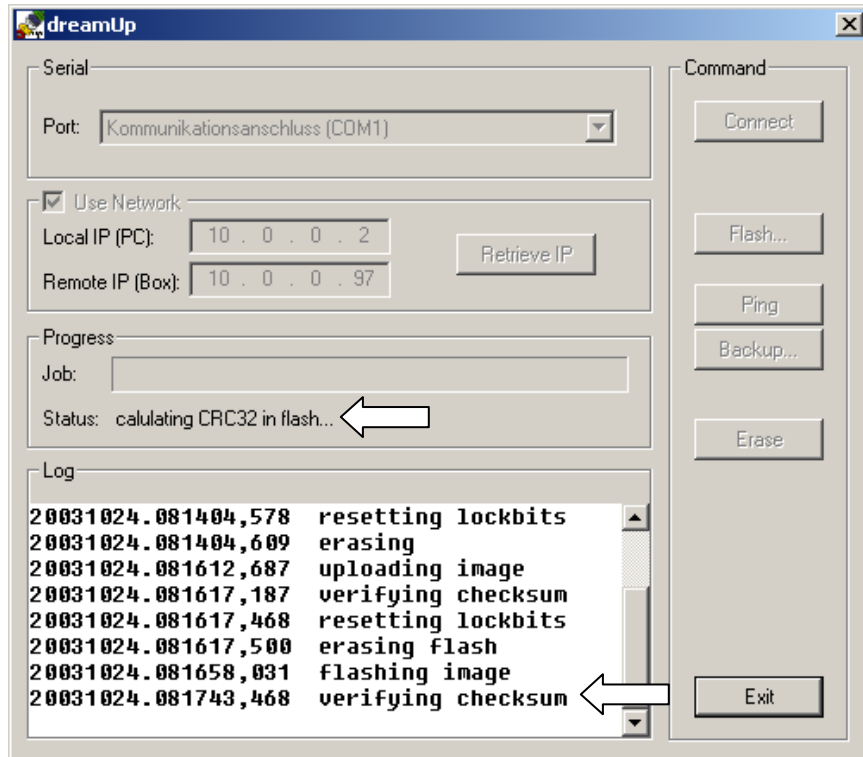
After clicking on the Open-Button, the image will be immediately uploaded to the Dreambox.
Watch the Progress bar, the Status and Log window.



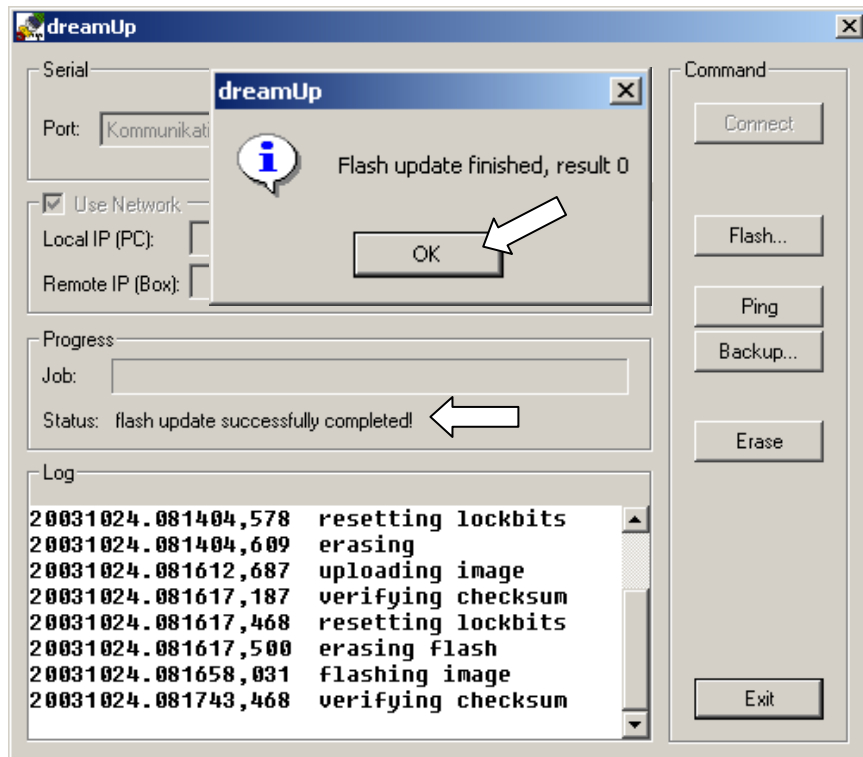
After the upload is completed the flash will be erased.
Watch the Status and Log window.



The image will be verified after flashing.



The flash procedure is completed, if you get a Flash update finished result 0.
Click on the OK-Button to quit.



35. Technical Data

250 MHz IBM PowerPC Processor (350 Mips)
Linux open source (most parts under the terms of GPL, accordingly expandable)- Supports Linux Standard API (Direct-FB, Linux-FB, LIRC)
1 x Smartcard-Reader
MPEG2 Hardware decoding (fully DVB compliant)
Common available NIMs (DVB-S, DVB-T, DVB-C)
100 MBit full duplex Ethernet Interface
V.24/RS232 Interface
32 MByte of RAM
unlimited channel lists for TV/Radio
channel-change time < 1 second
full automatic service scan
supports directly bouquet-lists (indirect unlimited)
supports EPG (electronic program guide)
supports videotext (insertion)
various applications such Web-Browser or Mail-clients
supports multiple LNB-Switching control (supports DiSEqC)
fully adaptable OSD in many languages (skin-support)
SPDIF Interface for digital bit stream out (AC-3 / DTS)
1 x Scart-interface (fully controlled by software)
Audio Cinch Out
Video Cinch Out

DBS-Tuner:

Frequency Range 950 2150 MHz
Signal Level - 65 dBm - 25 dBm
Signal-to-Noise Level 12 dB max.
DBS-Tuner Input Connector F-Type female
Input Impedance 75 Ohm
AFC +/- 3 MHz
Demodulation Shaped QPSK
Input Symbol rate 2 45 Mbaud/s, SCPC / MCPC
FEC Viterbi and Reed-Solomon
Viterbi rate 1/2, 2/3, 3/4, 5/6, 7/8, automatic assimilation
Roll-off Factor 35 %
Demultiplexing according ISO 13818-1

Video decoder:

Video Compression MPEG-2 and MPEG-1 compatible
Video Standard PAL G/ 25 Hz
Video Formats 4:3 / 16:9
Footage 16:9, automatic assimilation for 16:9 TV-Device (over Scart)
Letterbox precolating for 4:3 TV-Device

Audio decoder:

Audiocompression MPEG-1 & MPEG-2 Layer I and II
Audio Mode Dual (main/sub), Stereo
Frequency: 32 kHz, 44.1 kHz, 48 kHz, 16 kHz, 22.05 kHz, 24 kHz

Output analogue:

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 (AC3)

Video parameter:

Output Level FBAS 1 Vss +/- 0.3 dB on 75 Ohm

TV-Scart:

Output: FBAS,RGB,S-VHS over OSD selectable

Serial Interface RS 232:

Typ RS232 bidirectional
Bitrate 115,2 kBit/s max.
Plug Connector SUB-D-9
Function Update of Firmware and Preprogramming

Ethernet:

100 MBit compatible, bi-directional interface
Function Update of Firmware and Preprogramming

LNB power and polarisation:

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 1.0/1.2 SAT POSITION / SAT OPTION
DiSEqC - Rotor Control

Power consumption:

< 20W (in operation, horizontal polarization / 400mA LNB current)
< 11W (in operation, without LNB)

Input voltage:

110 - 230V / 50-60 Hz alternating acurrent +/- 15%, external Powersupply

Physical specification:

Ambient Temperature +15°C...+35°C
Humidity < 80%
Size (W x D x H): 196 mm x 130 mm x 40 mm
Weight: 450g

36. Contact & Support Information

Headquarter & Distribution:

Dream-Multimedia-Tv GmbH
Pierbusch 24
D-44536 Lünen
Germany

Technical Support:

E-Mail: support@dream-multimedia-tv.de

Webseite:

Weblink: <http://www.dream-multimedia-tv.com>

Support Forum:

Weblink: <http://www.dream-multimedia-tv.de/board/index.php>

Software Support (actual images):

Weblink DM500: <http://www.dm500.com>

37. Warranty card



Warranty card

Model Type:

Serial No.:

Mac No.:

(Serial and Mac No. is located at the back of your Dreambox)

Customer Address:

Name:.....

Street:

Country:

Postcode: Town:

Reseller Address:

Name:.....

Street:

Country:

Postcode: Town:.....

Stamp: Date of purchase:.....

DREAM - Service-paper

Please fill out this form clearly and completely. Send it back to your dealer/distributor of your country.

It is very important that you write in clear letters - this accelerates the procedure and makes it more simple.

Without copy of invoice no service-works will be effected.

Please do only return defective parts (no accessories)

Customer-no.	_____	Date of return:	_____
Name/Company	_____	Given name:	_____
Responsible person:	_____	Telephone:	_____
Street:	_____	Fax:	_____
Country/Zip code/Place	_____	E-mail:	_____
Returned article: (name of type)	_____	Serial-no.:	_____
Equipment (e.g. HDD)	_____	Soft-ver.:	_____

Dream - contact datas

contacted person:	_____
communication by../at..)	_____

Description of mistake / order (please in detailed form and clear letters):

An execution of order can only be effected with detailed description of mistake - statement "defect" is not clear enough information - in this case we should return box without repairing

reason of return:

<input type="checkbox"/>	guarantee repair	<input type="checkbox"/>	other: _____
<input type="checkbox"/>	fee required repair		

By my signature I declare that I agree to repairs up to 30,- € without any consultation with Dream-Multimedia-TV.
This order will not be effected without signature.

Place/Date/Signature

Notice: Please pack the unit in plastic-bag or foil. Please use original packing, if it doesn't exist anymore use a thick padded box - so we avoid scratches on display and box. Thank you very much.