

# Dreambox DM 500 HD



## Bedienungsanleitung

Digitaler Satellitenempfänger zum Empfang von freien und verschlüsselten DVB-Programmen mit optionaler digitaler Aufzeichnungsmöglichkeit.

DVB

HDTV

HDTV

Mit Netzwerk-Schnittstelle  
Anschluss für interne SATA Festplatte

Ethernet

10/100

DVB-S2 Tuner steckbar  
Smartcard Leser  
Linux OS

DVB-S2  
-  
Linux



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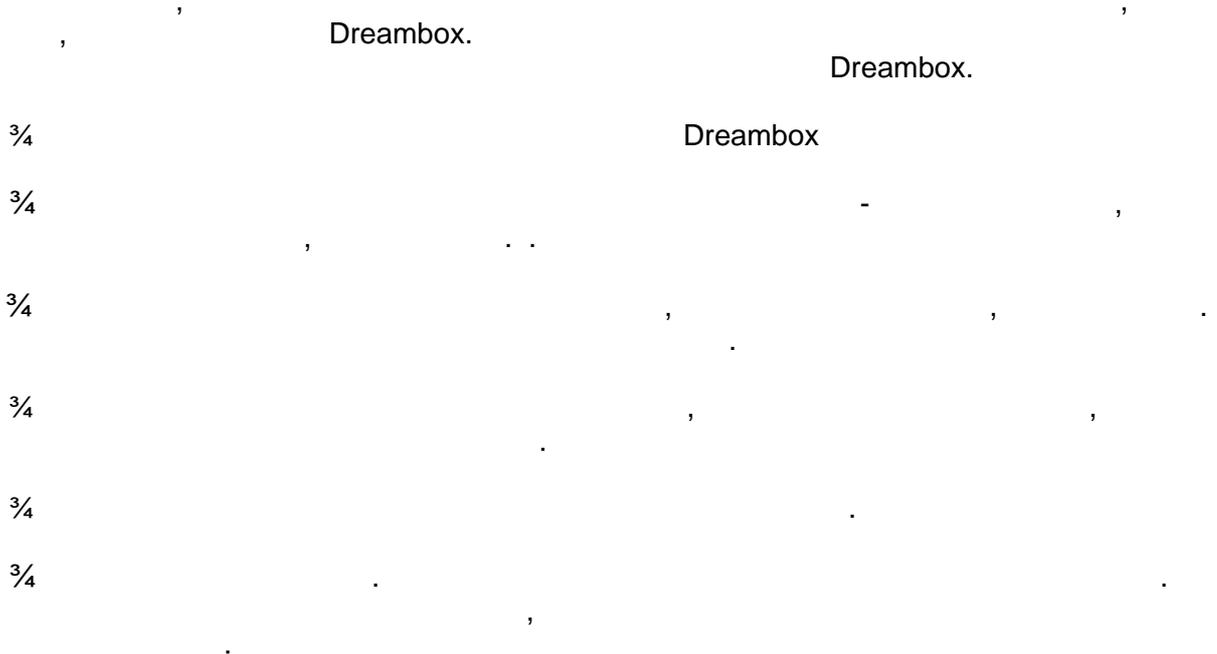
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: Dreambox DM 500 HD CE

1.

1.1



*Attention!*

Dreambox

$\frac{3}{4}$  Dreambox ,  
.  
 $\frac{3}{4}$  .  
 $\frac{3}{4}$  / Dreambox / LNB: LNB  
.  
 $\frac{3}{4}$  : / , Dreambox.  
 $\frac{3}{4}$  ,  
 $\frac{3}{4}$  ,  
 $\frac{3}{4}$  ,  
 $\frac{3}{4}$  Dreambox ,  
 $\frac{3}{4}$  LNB : SABS 061.  
 $\frac{3}{4}$  :  
 $\frac{3}{4}$  Dreambox .  
 $\frac{3}{4}$  .

Dreambox



1.2

:



Dreambox DM 500 HD



2 Batteries  
(1,5V Mignon / AA / LR6)



1  
DVE Modell: DSA-36W-12



1 Scart - Video/Audio

1 ( :  
<http://www.dream-multimedia-tv.de> )

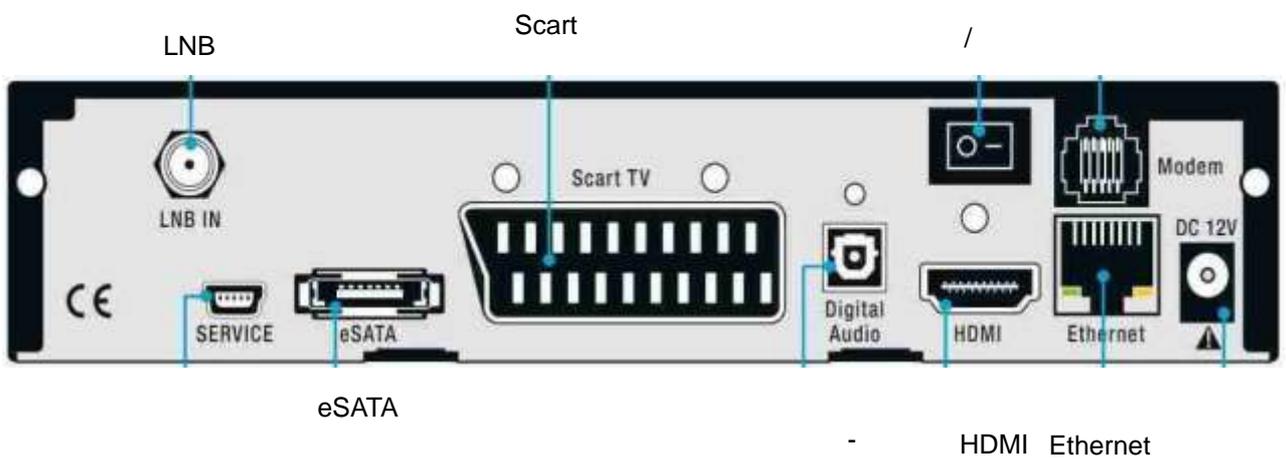


1



1 HDMI - HDMI

1.3



1.3.1

-  
- Dreamcrypt  
- Dreamcrypt – Dream-Multimedia.

**OLED-**

OLED

Dreambox.

1.3.2

**LNB (DVB-S )**

LNB.

**LNB (DVB-S )**

Dreambox

**(DVB-C/T )**

**(DVB-C/T )**

**eSATA**

SATA.

\_\_\_\_\_ :

Dreambox

**(RS232C, Sub-D, 9-pol.)**

**(Ethernet 10/100Mbit, RJ45)**

« » – Ethernet Samba. Dreambox (LAN).  
HTTP, FTP, NFS, Telnet Dreambox Dreambox

**DVI**

DVI,

**USB 2.0.**

USB 2.0

USB

USB 2.0.

**Scart**

Dreambox,

Scart.

Dreambox.  
230 /50

Dreambox

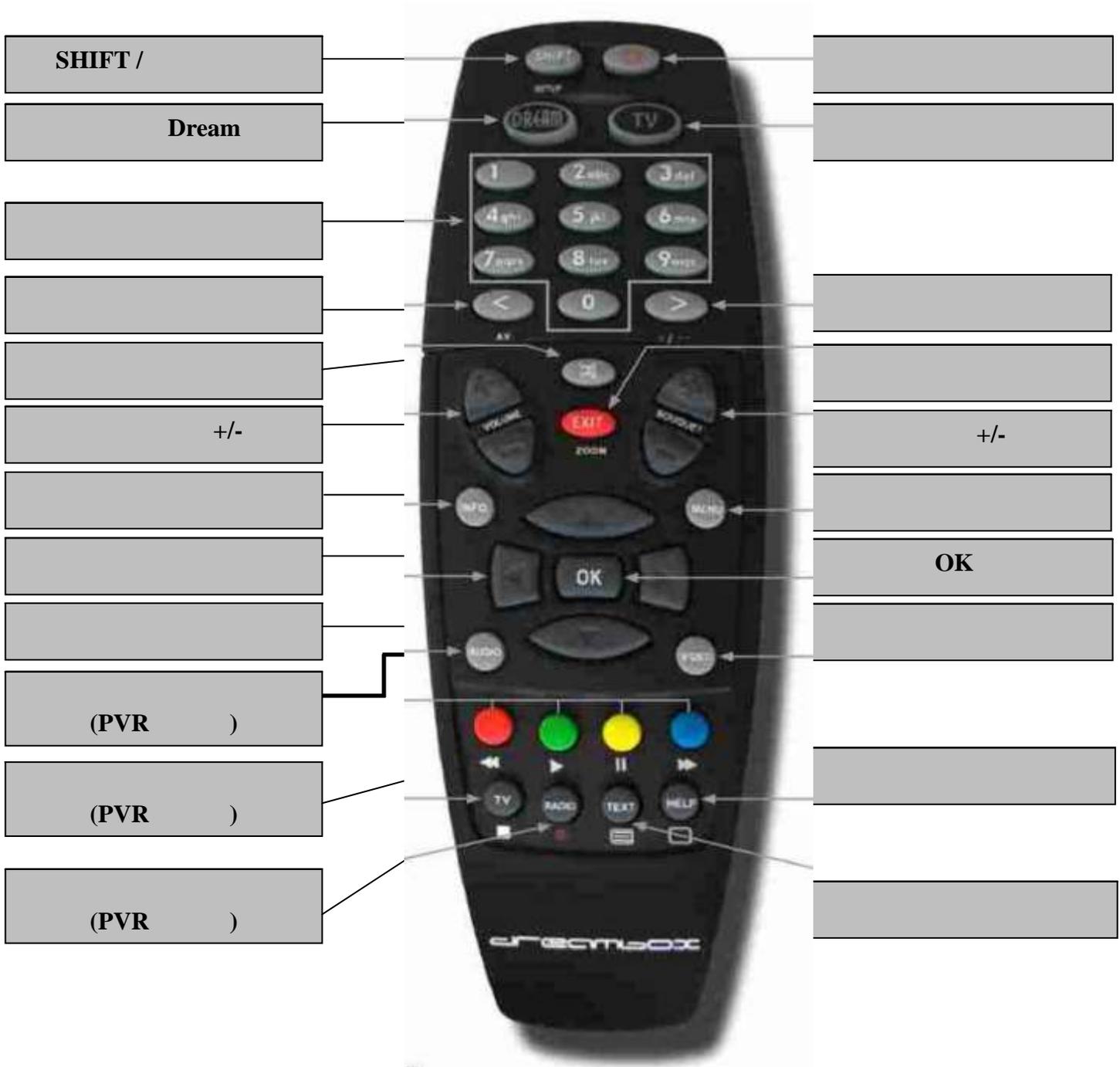
**(Toslink)**

Dreambox  
(DSP). AC3

(Toslink) Hi-Fi

Dolby Digital.

1.4



Dreambox  
(OSD).

( , , ; )

,

RADIO-

TV-

PVR

VIDEO.

PVR. ( 7.3.1 ).

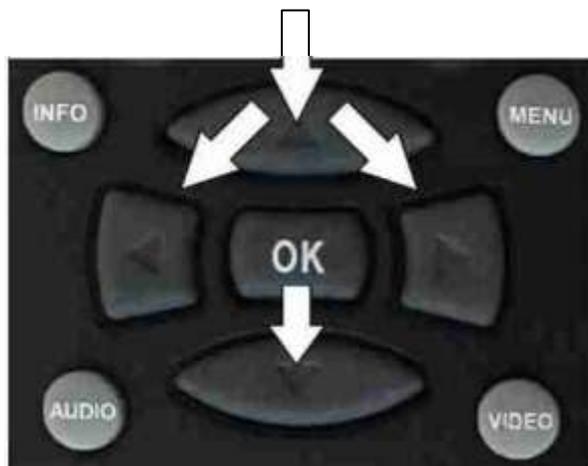


EXIT



Navigation-Buttons

OK



**SHIFT /**

**15.**

**4.1**

**Dream**

**15.**

Dreambox.  
***Dreambox***

Dreambox.

« » ,

( 4.6),



+/-,



+/-

+

-



+/-



OK

OK



TV RADIO,  
:



(PVR).

PVR



)

( , , , )

**(PVR )**

**(PVR )**

**TEXT-Button**

2.

2.1

$\frac{3}{4}$  2 AA (1,5V) «+» «-»  
», .

$\frac{3}{4}$  Dreambox, ( . **1.1** )

$\frac{3}{4}$  (LNB) Dreambox  
. **1.3.2** .

$\frac{3}{4}$  Dreambox DVI- Scart.

$\frac{3}{4}$  230 /50 . 110 /60

$\frac{3}{4}$  . . **4.1** , , Dreambox  
**Dreambox**

$\frac{3}{4}$  Dreambox ,  
.  
.  
.  
**3.**

$\frac{3}{4}$  , (CVBS) ,

3.

Dreambox.

3.1

10 Dreambox

OK

OK



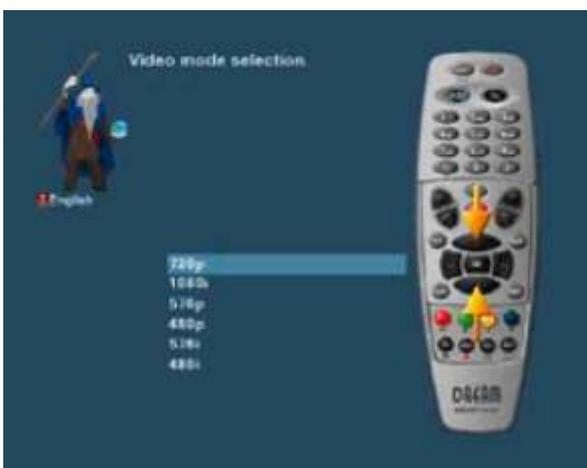
1. Scart.

Scart.

2. HDMI.

HDMI

OK



10.4

OK



Dreambox  
50  
20  
60  
OK.



OK

4.

4.1

### Dreambox

Dreambox.

Dreambox

OLED



3

Dreambox.

Dreambox

“Deep Standby”

“Standby/Restart”.

**OK.**

Dreambox

5



Dreambox



OK

Standby:

Dreambox

Restart:

Dreambox.

Deep Standby:

Dreambox.

4.2

0

20

4.3



OK

4.4

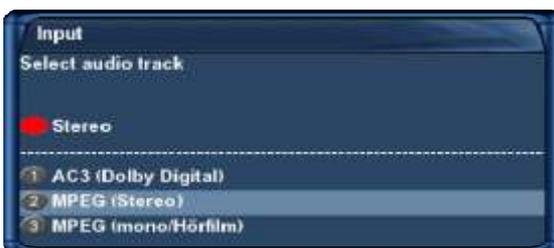


+/-

+

-

4.5



“Audio”.

OK

4.6



OK

4.7

4.8

4.9

OK.

"Subtitles"

OK

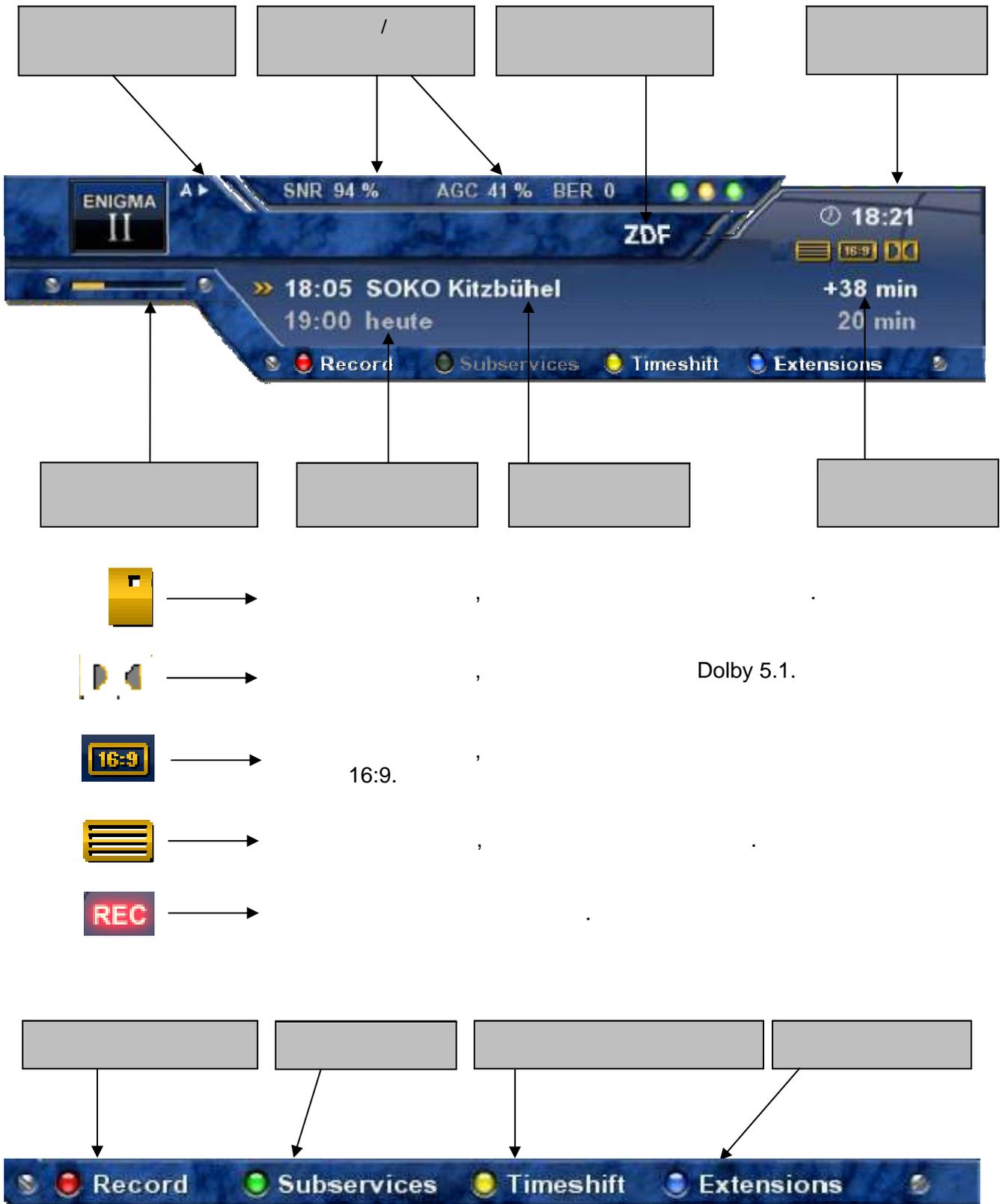


subtitles"

"Deactivate

4.10

OK,



5.

- EPG

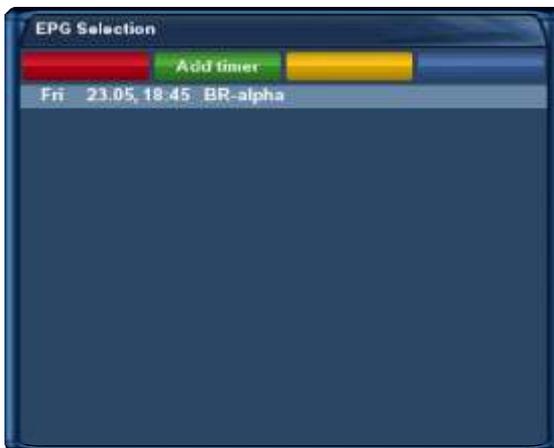


"Channel-EPG" ( 5.1),

"Multi-EPG" ( 5.2).

Dreambox

"Similar".



7.3.3

5.1

EPG



1.  
2.

2  
/

EPG

5.2 -EPG

now, next more.



bouquets" "Yes" ( 10.2), "Multi  
Multi-EPG.



5.2.1 5.2.1

/



EPG.

Multi-

OK



Multi-EPG

20:15.

20:15.

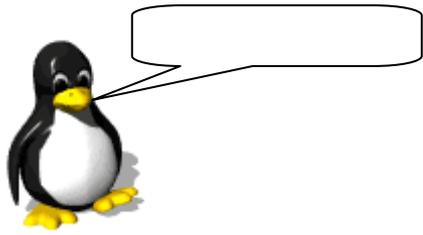
:

6.

?

« »

« »



favorites!

“All”.

“All” –

“All”.

(favourites)

“All”

6.2.

6.1



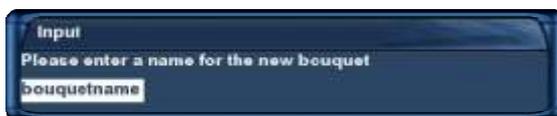
multiple bouquets".

"Allow 10.2.



"Channellist menu".

"add bouquet".



/

OK

(favourites).  
"Channellist menu".

6.2

All, Satellites Provider, Favourites,

All, . . .



menu".

All.

"Channellist



to bouquet"

"add service to bouquet".

"add service

favourites.

6.3

All



/

+/-

OK.



"Channellist menu".

"enable bouquet edit".

All.



/

OK

"Channellist menu".



"End bouquet edit".

( ),  
favourites.

6.4



menu".

"Channellist



"remove service".

favourites.

6.5



/  
menu".

“Channellist



OK

“enable move mode”



OK.



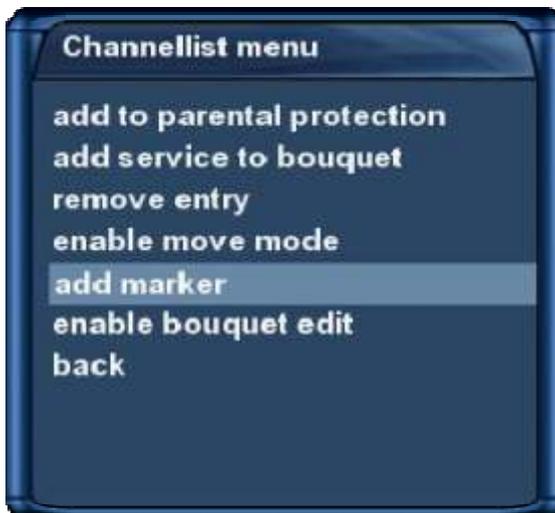
OK

"Channellist menu"  
"disable move mode", OK.

6.6



/  
+/-



"Channellist menu".  
"add marker".



/

**OK**  
(favourites).  
"Channellist menu".



6.7

“Setup” OK

1. “Parental lock” OK

3/4 “Parental control setup”.

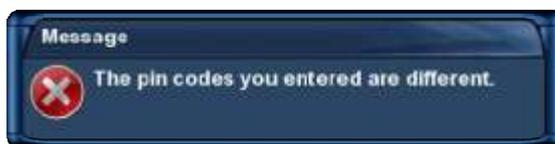
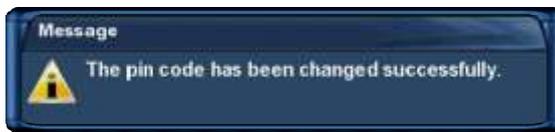


“Enable parental control” “yes”.

“Parental control type” (blacklist) (whitelist).



“Change service pin” OK



pin"



OK.

"Edit services list"

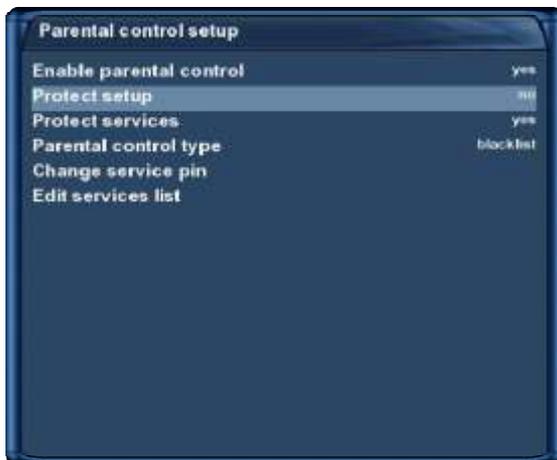


OK.

"sportdigital.tv".  
"S"



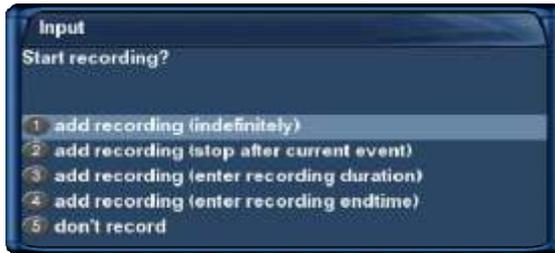
S.  
"sportdigital.tv" OK.



"yes", "Protect setup"

7.3

7.3.1

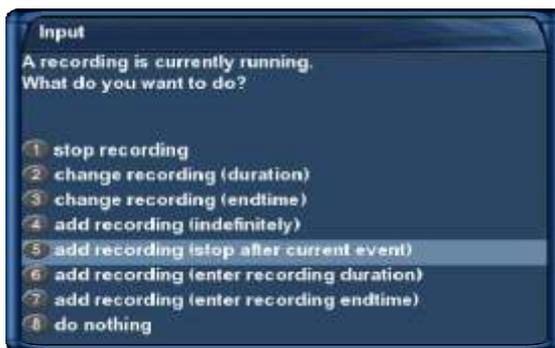


- ( )  
 - ( )  
 ) ( )  
 - ( )  
 - ( )

/  
OK

4.10)

SDTV HDTV.



/

7.3.3)

1  
: ZDF-  
"ZDF".

: 3sat, Kika, ZDF, ZDFdokukanal, ZDFinfokanal, ZDFtheaterkanal

7.3.2



"Stop recording"

OK

7.3.3

).

"Timer"

OK

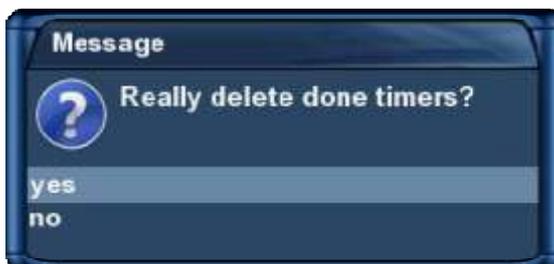
EPG.



"Timer Editor".

OK.

- waiting :
- recording :
- done :
- X



OK



"Zap"

. "Record"

"once" "repeated"

"repeated"

:

3/4

3/4

3/4

3/4

standby" ,  
 "After event".  
 Dreambox ,  
 Dreambox

"do nothing"  
 "Go to deep"

/

/

### EPG



EPG,

5.

"Timer Editor".

"Timer".

OK

### 7.3.4

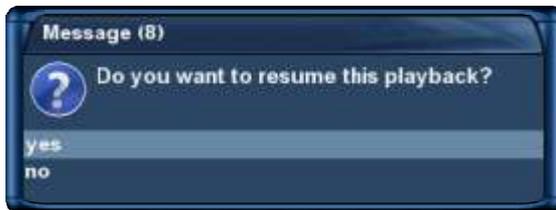


OK

7.4

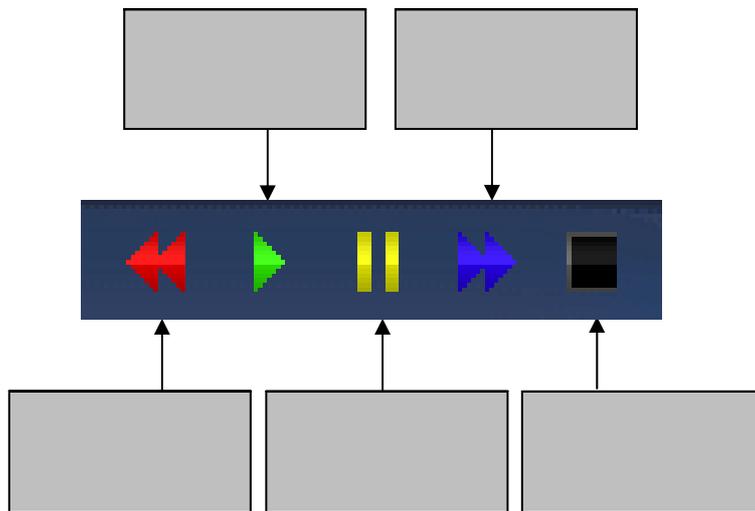


OK



10

(PVR)



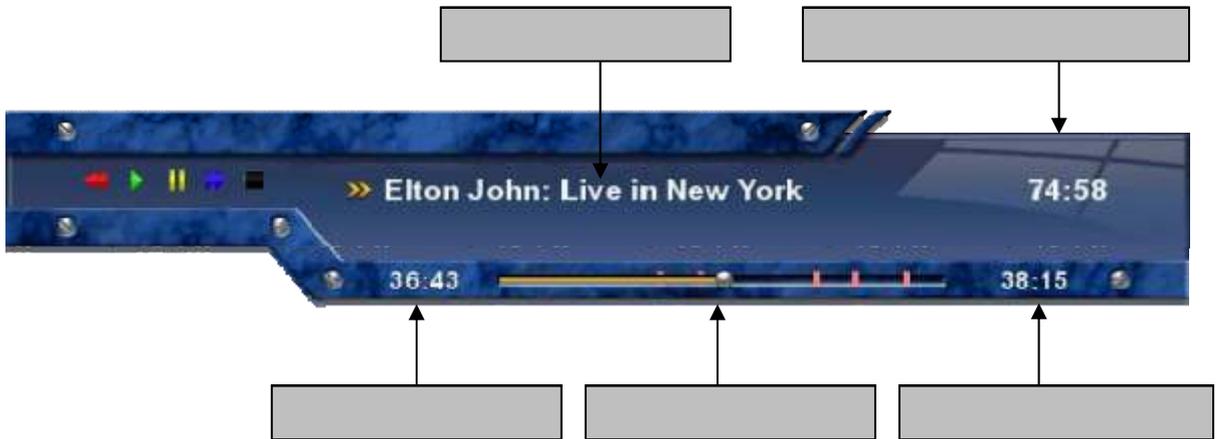
PVR.

OK.



=  
=  
=  
=  
=

PVR.



PVR

"Yes",

1	10	3	10
4	1	6	1
7	5	9	5

:

$\frac{3}{4}$  ( ): 2x,4x,8x,16x,32x,48x,64x,128x

$\frac{3}{4}$  ( ): 8x,16x,32x,48x,64x,128x

7.5

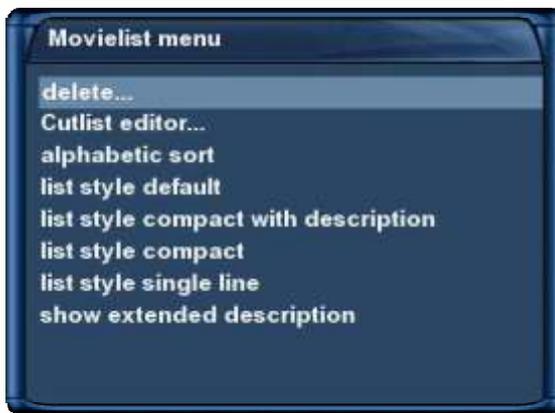
( )

0



0

7.6



OK

"Delete"



"Yes"

## 7.7



1.

2.

$\frac{3}{4}$  -

$\frac{3}{4}$

$\frac{3}{4}$

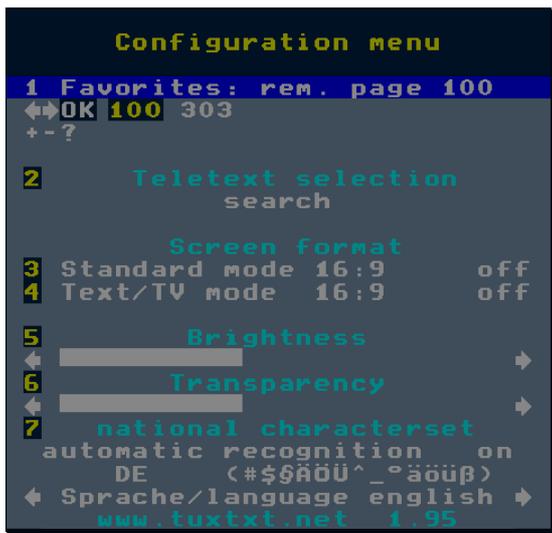
$\frac{3}{4}$

$\frac{3}{4}$



8.

! :  
- :  
OK.  
OK  
+  
-  
). 16:9 ( 4:3).  
100-



\_\_\_\_\_ :  
Teletext - Selection:

"Search"

OK

OK

Screen format:

Standard mode 16:9 = on/off

16:9.

OK

Text/TV mode 16:9 = on/off

16:9,

PIG

OK

4:3

VCR A/V.

4:3,

Brightness:

Transparency:

National character set:

= on/off

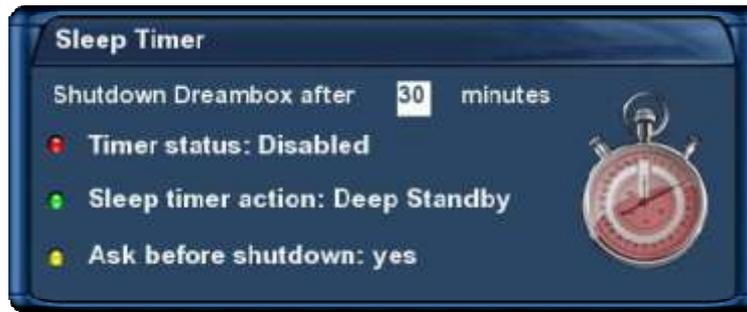
OK

[www.tuxtxt.net](http://www.tuxtxt.net)

9.

Dreambox

“Sleep Timer”.



Shutdown Dreambox after:  
Dreambox

Timer status:

“enabled”

“disabled”

Sleep timer action:

“Deep Standby”

Dreambox

“Standby”

Ask before shutdown:

“Yes”,

Dreambox.

OK



10.

10.1

1. "Setup" OK

"System" OK

$\frac{3}{4}$  "System".

2. "Language..." OK

$\frac{3}{4}$  "Language".



OK

10.2

1. "Setup" OK
- "System" OK
- $\frac{3}{4}$  "System".
2. "Customize..." OK



Margin before record (minutes):

Margin after record:

Show blinking clock in display during recording:

OLED

Infobar timeout:

1 10

"no timeout".



Recordings always have priority:

“Yes”, Dreambox

“No”,

Show positioner movement:

“yes”.

Enable multi bouquets:

“Yes”

Change bouquets in quickzap:

“Yes”,

Alternative radio mode:

“Yes”

Action on long powerbutton press:

menu” “immediate shutdown”.

– “show shutdown

10.3

1. "Setup" OK  
    "System" OK  
    3/4 "System".
2. "Timezone..." OK



"Time zone".

/

## 10.4

/

1. "Setup" OK  
"System" OK  
¾ "System".
2. "A/V settings..." OK



**Video output:**



DVI

"Output type" DVI Dreambox, DVI.



DVI-PC

PC.

TFT "Output type" DVI Dreambox, "Mode"

Scart

"Output type" Scart Dreambox, Scart.

**Mode:**

DVI. /

**Refresh Rate:** (

DVI).

. 50 60 .

**Display 4:3 content as:**

Pillarbox

4:3 16:9

Pan&Scan

4:3 " " 16:9

Just Scale

4:3 16:9

Nonlinear

**AC3 default:**

AC3 ( . . Dolby Digital), Dreambox

S/PDIF. AC3 "AC3 downmix" AC3 "AC3 downmix".

**AC3 downmix:**

AC3 "yes", Dolby Digital.

“Scart”:



**Mode:**

Scart

PAL, NTSC, Multi.

“Scart”.

**Aspect ratio:**

**Automatic (Standard)**

4:3 4:3, 16:9 16:9.

**4:3**

Display 16:9 content as:

Letterbox

16:9 4:3

Pan&Scan

16:9 4:3

Just Scale

4:3 16:9

**16:9 und 16:10:**

Display 4:3 content as:

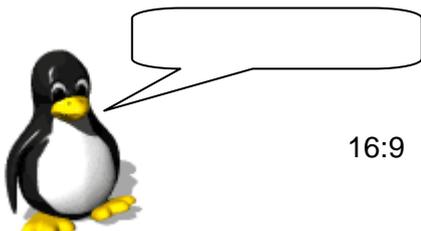
**Color format:**

- CVBS (FBAS),
- RGB ( , , ),
- SVideo ( )

**WSS on 4:3:**

4:3 16:9

“System”.



16:9 4:3

### 10.5 OLED-

1. "Setup" OK  
"System" OK  
3/4 "System".
2. "Display setup..." OK



OLED

"Standby" –

"Yes",

"Invert" OLED

"System".



Use DHCP:

, Dreambox IP DHCP  
 IP DHCP

IP Address:

IP

Netmask:

( 255.255.255.0).

Gateway:

IP , Dreambox

Nameserver:

IP DNS . DNS LAN, DNS IP IP  
 , Dreambox

**Activate the network:**

**OK**

1. "Setup" **OK**

"System" **OK**

<sup>3</sup>/<sub>4</sub> "System".

2. "Network..." **OK**

3. "Nameserver setup..." **OK**

Nameserver:

IP DNS . DNS LAN, DNS  
 IP IP , Dreambox

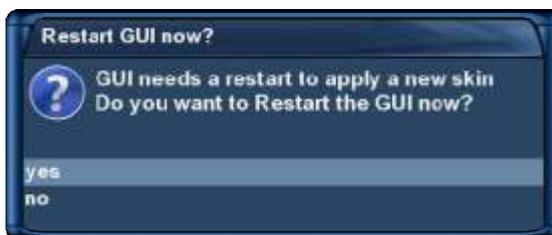
10.7

OSD ( ).

1. "Setup" OK  
    "System" OK  
     $\frac{3}{4}$  "System".
2. "Skin" OK  
     $\frac{3}{4}$  "Skin".



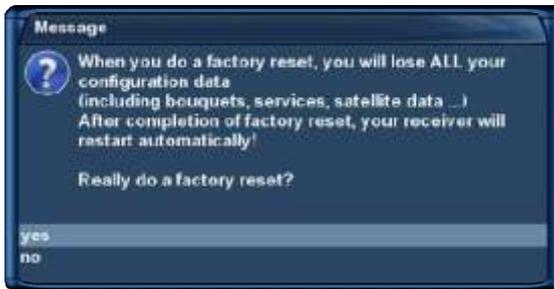
OK



OK

10.8

- |    |                                |    |
|----|--------------------------------|----|
|    | “Setup”                        | OK |
| 1. | “System”                       | OK |
|    | $\frac{3}{4}$ “System”.        |    |
| 2. | “Factory reset...”             | OK |
|    | $\frac{3}{4}$ “Factory reset”. |    |



“yes”,

Dreambox

11.

11.1 DVB-S

1. "Setup" OK
  1. "Service searching..." OK
    - $\frac{3}{4}$  "Service searching".
  2. "Tuner configuration" OK
    - $\frac{3}{4}$  "Choose tuner".
  3. OK , "Socket A"



11.1.1

–

(DVB-S)

11.1 Dreambox LNB. LNB. DVB-S



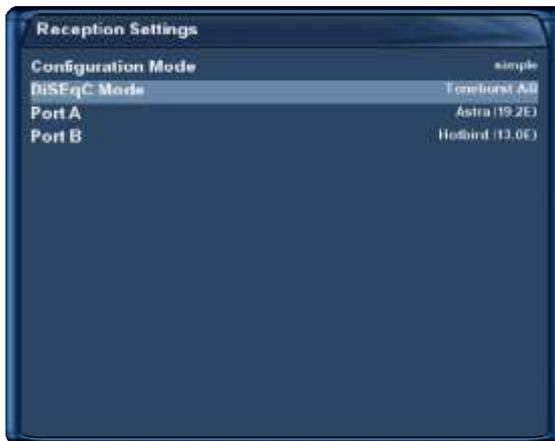
“Satconfig”. / “DiSEqC-Mode” / “Single”.



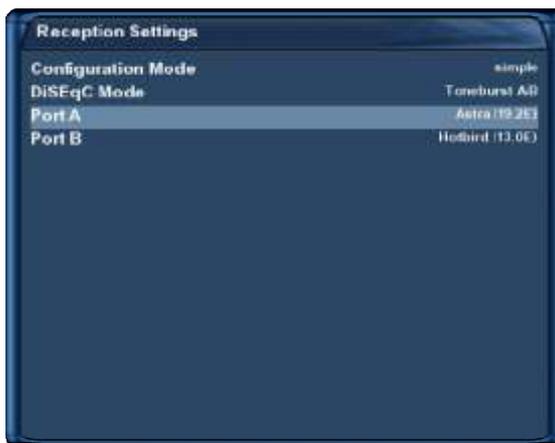
“Satellite”. OK “Select slot”.

### 11.1.2 Toneburst A/B (DVB-S)

LNB.  
Toneburst  
11.1  
LNB  
Toneburst  
DVB-S  
Dreambox.



“Satconfig”.  
/ “DiSEqC-Mode” / “Toneburst A/B”.



A B  
Toneburst  
OK

11.1.3

DiSEqC A/B (DVB-S)

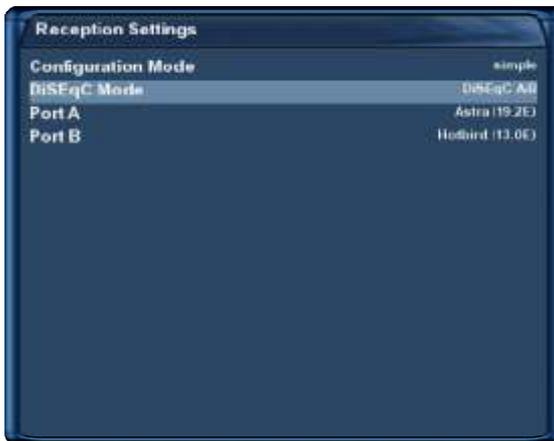
LNB

11.1

DVB-S

LNB.

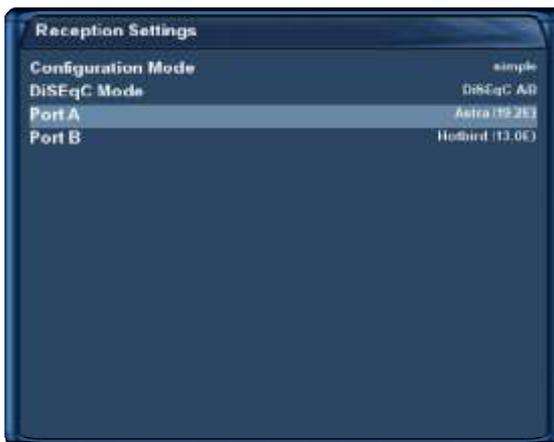
Multiswitch



"Satconfig".

"DiSEqC-Mode"

"DiSEqC A/B".



A B

Toneburst

OK

11.1.4

DiSEqC A/B/C/D (DVB-S)

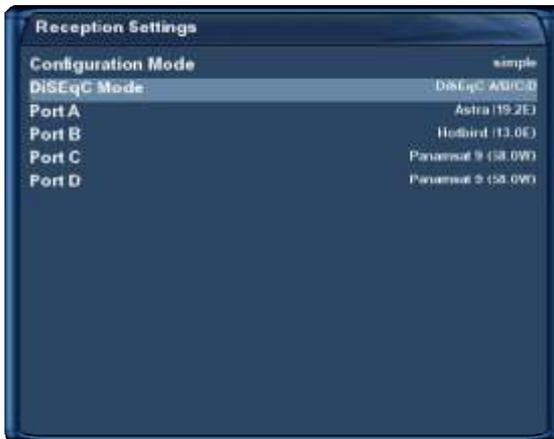
LNB

11.1

DVB-S

LNB.

Multiswitch



"Satconfig".

"DiSEqC-Mode"

"DiSEqC A/B/C/D".



A, B, C D

Toneburst

OK

11.1.5 USALS (DVB-S)

11.1

DVB-S

Dreambox LNB. LNB.



“DiSEqC-Mode” /

“Satconfig”.

“Positioner”.

<http://www.heavens-above.com>

above.com.



Dreambox

USALS.

USALS –

0.1  
Stab.

. USALS

11.1.6

USALS (DVB-S)

11.1 USALS DVB-S Dreambox LNB. LNB.



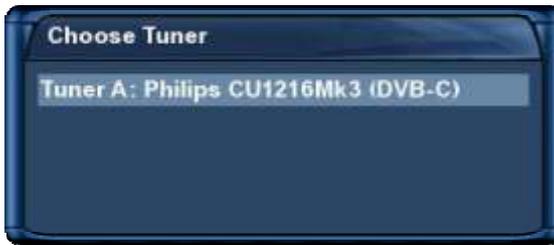
“Satconfig”.  
/ “advanced”.  
“Satellite”. /  
“Satellite”  
/ “DiSEqC-Mode” / “1.2”.



“Use usals for this sat”  
“no”  
“Stored position”

11.2 DVB-C

1. "Setup" OK  
 "Service searching..." OK  
 $\frac{3}{4}$  "Service searching".
  2. "Tuner configuration" OK  
 $\frac{3}{4}$  "Choose tuner".
  3. "Choose Tuner" DVB-C  
 OK  
 $\frac{3}{4}$  "Reception settings".
- service scan type" "Frequency bands" / "Used  
 OK  
 "Select slot".





/ service scan type" "Frequency steps". "Used

Frequency scan step size (kHz):

OK

"Select slot".



/ service scan type" "Provider". "Used

OK

"Select slot".

11.3 DVB-T

- 1. "Setup" OK
- 3/4 "Service searching..." OK
- 3/4 "Service searching".
- 2. "Tuner configuration" OK
- 3/4 "Choose tuner".



- 3. OK DVB-T
- 3/4 "Reception settings".



- / "Enable 5V for active antenna"
- "On".
- OK

11.4

- |    |                        |    |  |
|----|------------------------|----|--|
|    | "Setup"                | OK |  |
| 1. | "Service searching..." | OK |  |
|    | ¾ "Service searching". |    |  |
| 2. | "Automatic scan"       | OK |  |
|    | ¾ "Automatic scan".    |    |  |



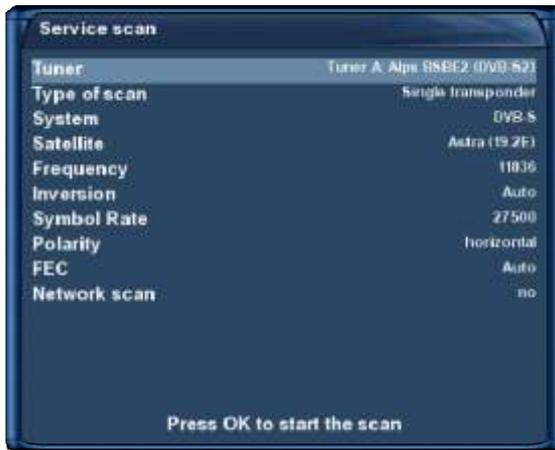
- |               |                     |
|---------------|---------------------|
| "Yes",        | "Clear before scan" |
| "No",         |                     |
| /             |                     |
| "Satellites". | "New".              |
|               | /                   |
| OK            |                     |



OK

11.5

1. "Setup" OK  
    "Service searching..." OK  
     $\frac{3}{4}$  "Service searching".
2. "Manual scan" OK



"Service scan".

OK

12.

12.1

Dreambox

“Games/Plugins”

OK



OK

“Backup/Restore”

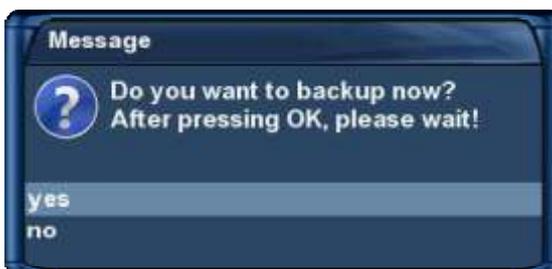


“only /etc/enigma2 directory”.

“Backup Mode”

“Harddisk”.

“Backup Location”



“yes”.

“Execution finished”.

12.2

12.1,



“yes”.

12.3

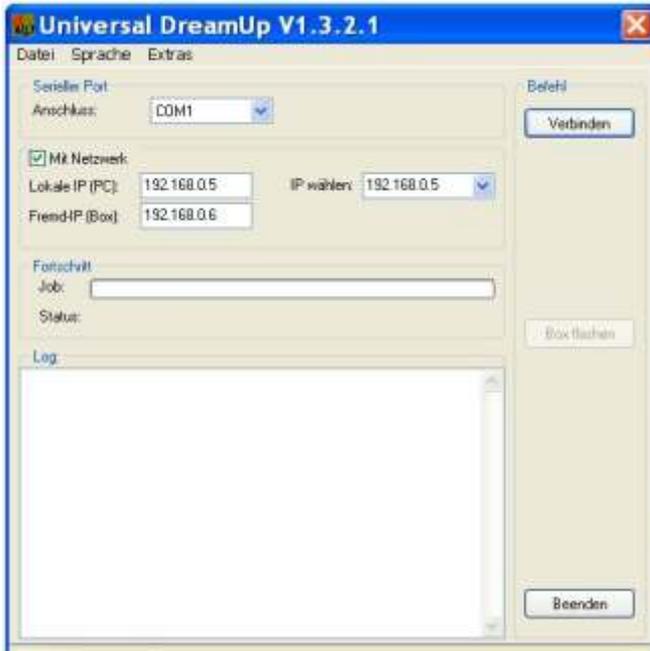
12.3.1

DreamUP

Dreambox DM 800 HD PVR?

:  
 3/4  
 3/4 DreamUP (  
<http://www.dream-multimedia-tv.de>  
 3/4 1 -  
 3/4 1 ( )

Windows



Dreambox.

DreamUP .

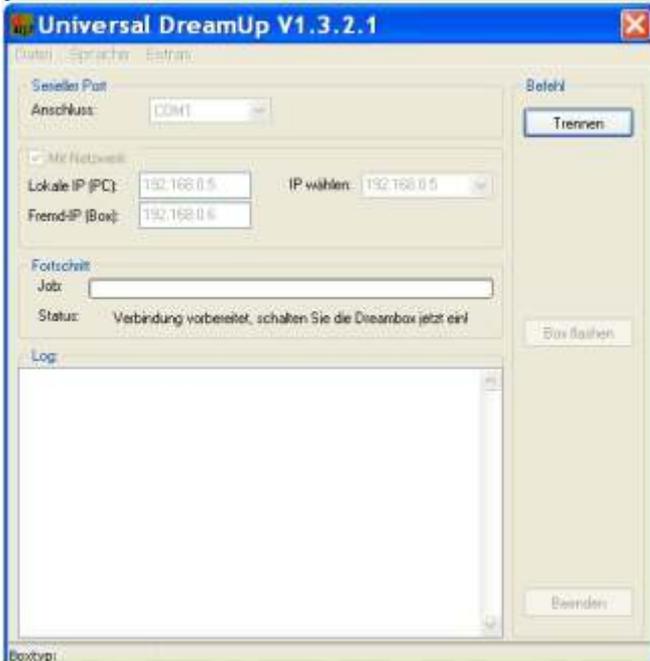
COM1 COM2

“Use

Network”, Dreambox

30 .

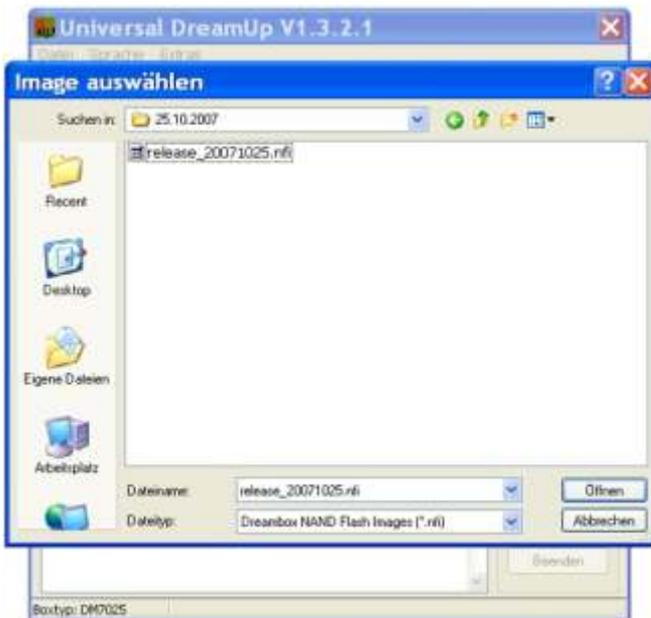
IP  
 “Local IP (PC)” IP Dreambox  
 “Foreign-IP (Box)”.



“Connect”  
 Dreambox.

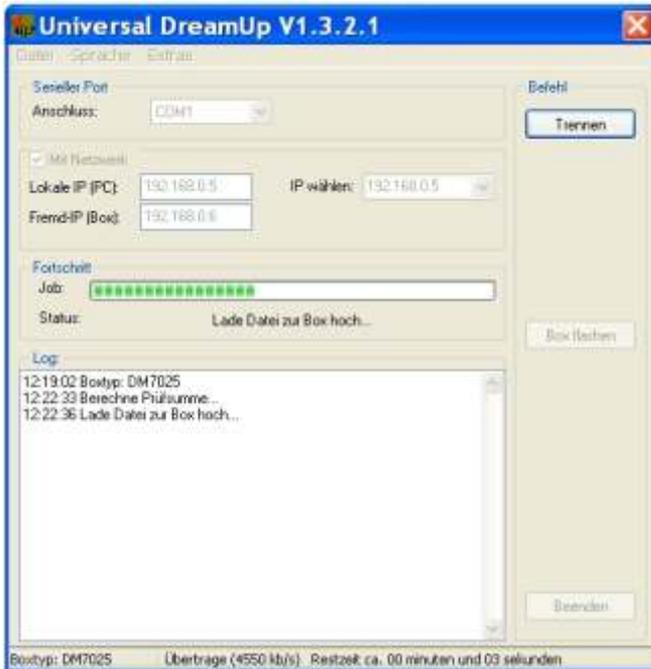


Dreambox.

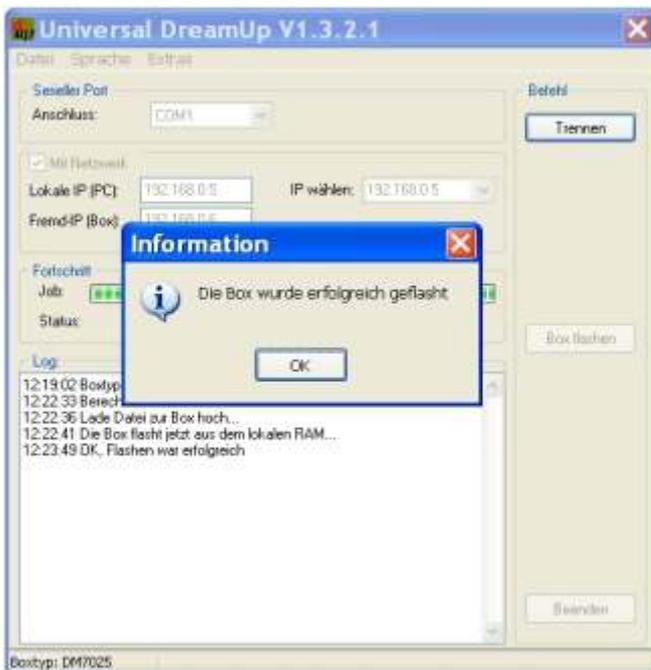


"Flash Box".

"Open".



Dreambox.



successfully".

"OK"

"Box was flashed

"Exit".

12.3.2

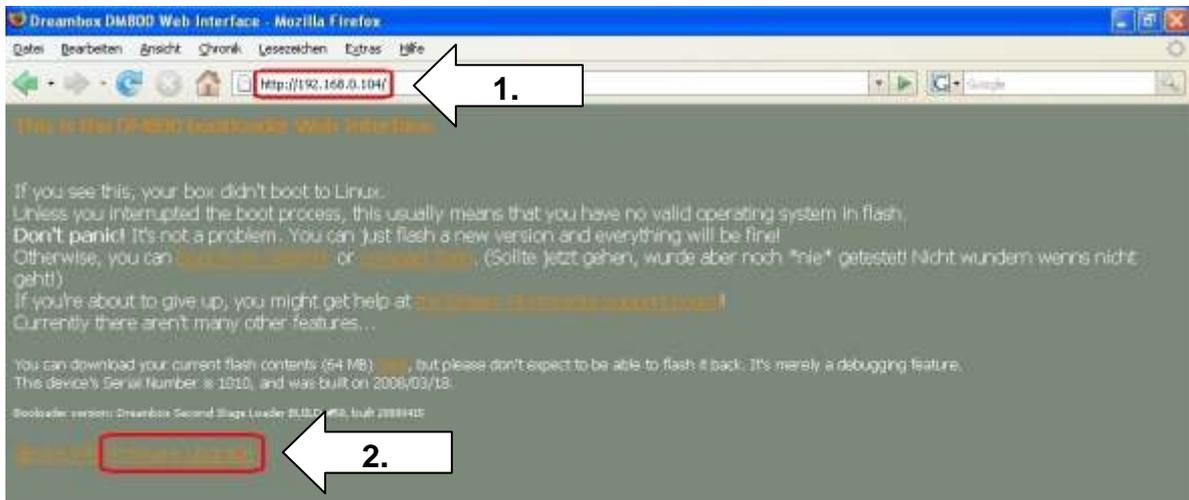
:  
 3/4 - , Firefox Internet Explorer  
 3/4 Dreambox [www.dream-multimedia-tv.de](http://www.dream-multimedia-tv.de)  
 3/4 1  
 3/4 DHCP  
 3/4 1 ( DHCP )  
 , \*.IMG! \*.NFI DM800.  
 DHCP  
 HyperTerminal.  
 Dreambox  
 / / , Dreambox  
 , Dreambox,  
 2- Dreambox.  
 DHCP  
 , IP Dreambox.  
 Dreambox. Shutdown/Standby "Deep  
 Standby". !  
 1. Dreambox.



2. **\*\*\* STOP \*\*\***.  
 . Dreambox (Waiting-Mode).
3. IP **\*\*\* STOP \*\*\***.  
 "DHCP", Dreambox DHCP . ,

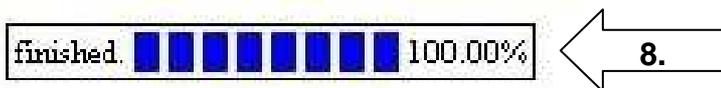
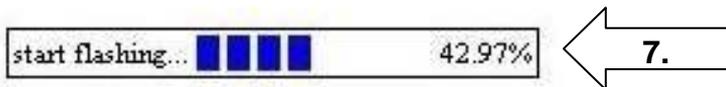
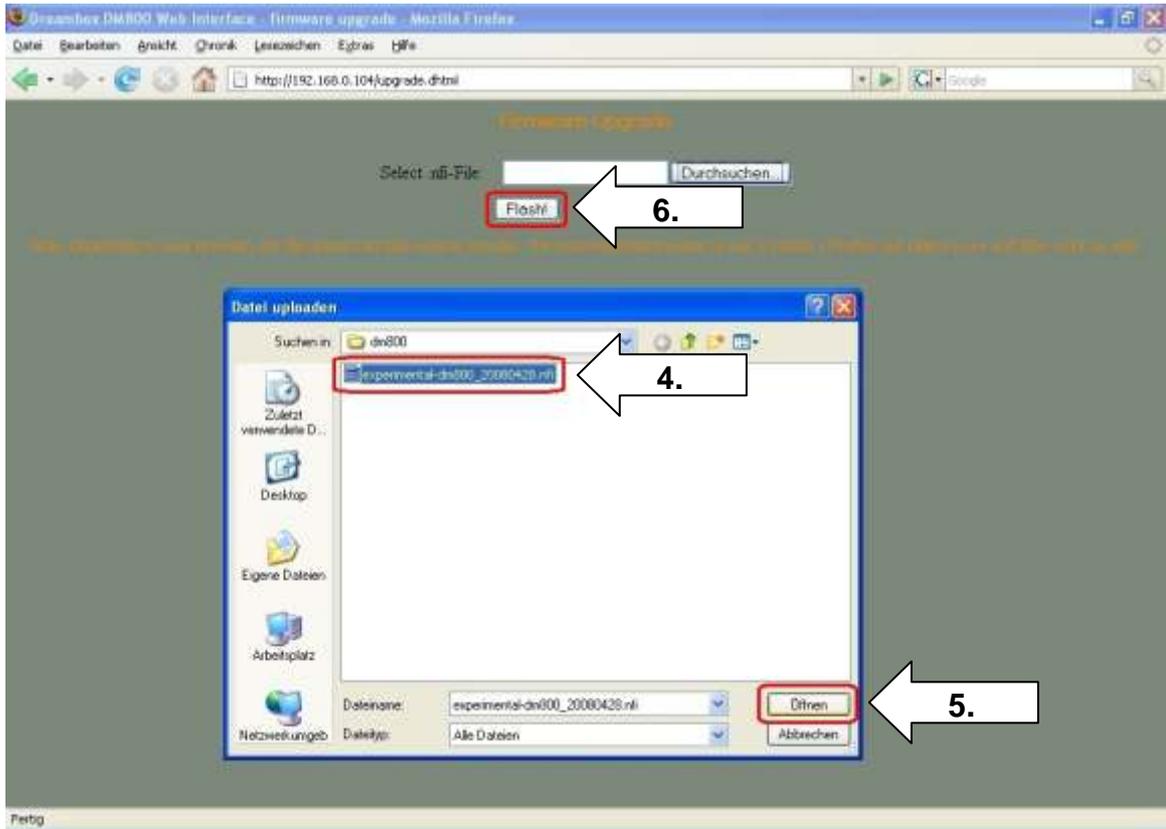
- DHCP IP ,
- IP ,
- Firefox Internet Explorer .
1. IP , : "http://IP-Address"  
 ("IP-Address" IP , OLED Dreambox).  
 IP , :
- <http://192.168.0.104>

2. "firmware upgrade"



- "Search..."  
 \*.nfi  
 \*.img!  
 "FLASH!"  
 100%.  
 JavaScript





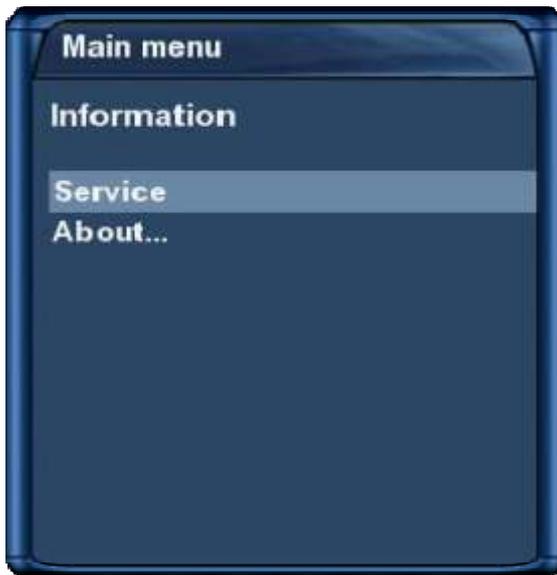
Dreambox, . Dreambox . Dreambox, . Dreambox.

13.

13.1

"Information"

OK



OK

"Information".

"Service"



=  
= PID  
=  
=

OK

13.2

( )

“Information”

OK



OK

“Information”.

“About...”



OK

Dreambox.

14.

	LNB	LNB
		11.1 ( . )
	( . . )	
		11) ( . )
		_____
	(Dream , )	Dream
		Dreambox
Dreambox	Dreambox	Dreambox

15.

: [www.dream-multimedia-tv.de](http://www.dream-multimedia-tv.de)



15.1

$\frac{3}{4}$

$\frac{3}{4}$

SHIFT /

3

$\frac{3}{4}$

$\frac{3}{4}$

$\frac{3}{4}$

10

16.

- ¾ 300 MHz MIPS
- ¾ Linux
- ¾ MPEG2 / H.264 (DVB )
- ¾ 1 x -
- ¾ 10/100 Ethernet
- ¾ SATA : eSATA (2,5" SATA)
- ¾ 2x USB 2.0
- ¾ DVI
- ¾ V.24/RS232
- ¾ OLED-
- ¾ (DVB-S, DVB-C, DVB-T)
- ¾ , Plug&Play
- ¾ 256
- ¾ 64
- ¾ S/P-DIF
- ¾ 1 x Scart (RGB, FBAS S-Video)
- ¾ 12 (DVE Modell: DSA-36W-12)

:

**DBS-Tuner with DVB-S2:**

Frequency Range: 950 - 2150 MHz  
 Demodulation DVB-S (QPSK); DVB-S2 ((8PSK,QPSK)  
 Symbolrate DVB-S: 2 ... 45 Mbaud/s, SCPC/ MCPC  
 DVB-S2: 10 – 31 Mbaud/s (8PSK) , 10 –30 Mbaud/s (QPSK)

**DBS-Tuner without DVB-S2:**

Frequency Range 950 - 2150 MHz  
 Demodulation DVB-S (QPSK)  
 Signal Level - 65 dBm - 25 dBm  
 DBS-Tuner Input Connector F-Type female  
 Input Impedance 75 Ohm  
 Loop Through interner Loop Trough  
 AFC +/- 3 MHz  
 DVB-S:Viterbirates 1/2, 2/3, 3/4, 5/6, 7/8, automatical adjustment (K=7)  
 Roll-off Factor 35 %

**DVB/C-Tuner (plugable):**

Input/Loop through Connector IEC 169-24, Female  
 Frequency Range 50 - 870 MHz  
 Signal Level Input -20 - 25dBm  
 Demodulation QAM  
 Constellation 16, 32, 64, 128 and 256 QAM  
 Input Symbol Rate 7.252 Msps max.

**DVB/T-Tuner (plugable):**

Input/Loop through Connector: IEC 169-24, Female/Male  
 Frequency Range: VHF(174 ~ 230MHz), UHF(470 ~ 862MHz)  
 Signal Level Input: -78 - 20dBm  
 Aerial supply: 5V, max. 100mA  
 Demodulation: OFDM  
 Carrier Mode: 2k and 8k hierarchical/non-hierarchical  
 Constellation: QPSK, 16 and 64 QAM  
 Guard Interval: 1/4, 1/8, 1/16 and 1/32

**Video decoder:**

Video Compression MPEG-2 and MPEG-1 compatible, H.264  
 Video Formats 4:3 / 16:9  
 Letterbox percolating for 4:3 TV-Device

**Audio decoder:**

Audio compression MPEG-1 & MPEG-2 Layer I and II  
 Audio Mode Stereo, Dolby Digital  
 Frequency: 32 kHz, 44.1 kHz, 48 kHz, 16 kHz, 22.05 kHz, 24 kHz

**Analog output:**

Output Level L/R 0,5 Vss on 600 Ohm  
 THD > 60 dB (1 kHz)  
 Crosstalk < -65 dB

**Digital output:**

Output Level 0,5 Vss on 75 Ohm  
 Sampled Data Filtering 32 kHz, 44.1 kHz, 48 kHz  
 S/P-DIF-Output optical (AC3)



**Video output:**

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

**Video parameter:**

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

Teletext filter in conformity with ETS 300 472 Standard

**TV-Scart:**

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

**Serial Interface RS 232:**

Type 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

**SATA port:**

Connection of an internal 2,5" SATA hard disk

or connect an external hard disk on the eSATA connector

**USB:**

2x USB 2.0 Host Connector

**LNB power and polarization per tuner:**

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

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

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

LNB shut-off at Standby-Mode

**Count of active satellite positions:**

DiSEqC V1.0/1.1/1.2/1.3 (USALS)

**OLED-Display:**

The OLED will lose its brightness after roughly 40.000 hours of operation.

If the loss of brightness is too strong after this period, the OLED can be replaced with a new one.

**Power consumption:**

< 15W on 12V

**Input voltage:**

DC12V +/- 15%

**Externes power supply: (DVE Modell: DSA-36W-12)**

Input:

110-240V AC / 50-60Hz / 0,6A

Output:

12V = / 2,0A

**Physical specification:**

Ambient Temperature +15°C...+35°C

Humidity < 80%

Size (W x D x H): 374 mm x 230 mm x 75 mm

Weight: 2,2 kg without HDD

17.

¾ Single-EPG ( ):  
¾  
¾ -EPG:  
¾  
¾ :  
¾ EPG  
¾  
¾ DiSEqC 1.0/1.1/1.2/1.3 (USALS)  
¾  
¾  
¾ DVB-S  
¾  
¾  
¾ DVB/  
¾ 2.5  
¾ / Rass ( [www.rass.tv](http://www.rass.tv))  
¾  
¾  
¾ /  
¾ , Dreambox  
¾ MP3  
¾

18.

:

Dream-Multimedia  
Sales and distribution through Visoduck Discount GmbH  
Pierbusch 24-26  
44536 Lünen  
Germany

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Fax: +49 (0)180 - 368 43 98 - 001 (0,09 /min.)

:

Mo - Fr. 09:00 am - 12:00 pm and 01:00 pm - 03:00 pm

:

Tel.: +49 (0)180 - 368 43 99 - 777 (0,09 /min.)  
Fax: +49 (0)180 - 368 43 99 - 778 (0,09 /min.)

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Mo - Fr. 09:00 am - 12:00 pm and 01:00 pm - 03:00 pm

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E-Mail: [info@prodigi.kz](mailto:info@prodigi.kz)

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-

:

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

:

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

(

):

Weblink DM 800 HD PVR: <http://www.dm800.de>

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19.

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<http://www.dream-multimedia-tv.de/deutsch/downloads.php>

20. Menu overview

