

UNiBOX

HD eco⁺

Instruction Manual

High Definition

Personal Video Recorder

Digital Satellite Receiver

The UNIBOX HD ECO+ digital receiver is fully compliant with the international Digital Video Broad-casting (DVB) standard, and thus is able to receive digital broadcasts of that standard.

1. Safety Precautions

This product has been manufactured to act in accordance with the international safety standards. Please read through the safety instructions carefully before using this product as the manufacturer takes no responsibility for any damages due to the consumer's misuse of the product.

1.1 Power Supply

- Use this product with the type of power supply that is indicated on the marking label. Its operating range is AC 90V~250V and 50/60Hz.
- Use an outlet that has surge suppression or ground fault protection.
- Do not overload a wall outlet, extension cord or adapter as this may result in electric fire or shock.
- Do not alter, bend, or twist the power cord or plug.
- Be sure to route the power supply cords so that they won't be walked on or pinched by items around it.
- Keep the power cord away from any heating appliances to avoid melting the cover vinyl.
- If the cord is damaged, do not plug in the product and be sure to get the cord replaced.
- When unplugging, grip the power plug, not the cord.

If any of the following occur, unplug the product from the outlet and contact authorized service personnel:

- The power cord or supply is damaged
- Liquids of any kind have been exposed to the product
- The product has been dropped or the casing has been damaged
- The product is not performing as it should
- If the product won't be used for a long period of time, unplug it

1.2. Exposure and Placement

Only operate the product in moderate temperatures.

Place the product indoors to avoid exposing it to lightening, rain or direct sunlight.

Do not expose any liquids or sources of open flame (such as candle flame) to the product.

Do not place the product near any heat emitting appliances. This may cause impairment in cooling.

Do not place the product on any unstable surface because it may fall and cause serious personal injuries and/or damage the product.

Always make sure the product has enough space around it for ample ventilation and heat transfer.

Do not place the product in a closed space (such as a cabinet) without suitable ventilation.

Be sure to place the product approximately 10 cm away from any appliances that are exposed to electromagnetic influences, such as a TV or a VCR.

Do not use any attachments or accessories that are not recommended by the manufacturer. This may cause hazards to the product, and will void the warranty..

1.3. Installation and Maintenance

Before connecting or disconnecting the satellite cable to the product, be sure that the product is unplugged. Failure to do so may cause damage to the LNB.

The LNB cable must be earthed to the system earth for the satellite dish.

Before connecting or disconnecting the cable from the TV, be sure that the product is unplugged. Failure to do so may cause damage to the TV.

Before cleaning the product, be sure that the product is unplugged.

Use a damp cloth (do not use any solvents) to clean the exterior of the product.

1.4. Warnings

Do not use this product near any flammable or explosive gases as this increases the risk of explosions.

Do not use the product if any liquids or foreign objects come in contact with it.

Turn the product off, disconnect the power cord, and contact your dealer.

Do not use the product since this could cause a fire or electric shock.

Do not operate this product or hold the power cord with wet hands as the risk of getting electronic shock is very high.

Unplug the product and disconnect the LNB cable during a thunderstorm or when left unattended and unused for long periods of time. This will prevent damage to the product due to lightening and power-surges.

Do not use this product when it is out of order. Continued use when defective can cause serious damage to it and you.

Do not put any alien items into or block the slots or ventilation openings of the product.

This can cause damage to the product and reduce the life span.

1.5. Warranty

Be aware that any adjustments or handling (such as, but not limited to opening the casing) other than what is specified here will void your warranty. Attempting to modify the product may result in fire, injury, electric shock, or other severe damage to you or the product.

Do not remove the cover, as there is risk of electric shock.

If it is absolutely necessary, please contact a trained professional.

Do not try to modify the product as this may cause fires, injuries, electronic shocks or other severe damage to you or the product.

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2. Introduction

The UNIBOX HD ECO+ digital receiver is fully compliant with the international Digital Video Broad- casting (DVB) standard, and thus is able to receive digital broadcasts of that standard.
For its operation you need an antenna, which must be installed appropriately.

2.1 Main Features

- 400 MHz MIPS Processor Linux Operating System Media Player
- Downloadable Plug-ins supported
- 2 x Smartcard Readers
- 1 x Common Interface
- MPEG2 / H.264 Hardware Decoding
- 2 x DVB-S2 Tuners
- 8 character dot matrix VFD
- 1024MB NAND Flash
- 512MB DDR SDRAM
- 10/100MB Ethernet Interface
- 2 x USB 2.0
- 1 x RCA
- 1x HDMI
- 1 x SCART
- S/PDIF for digital bit stream out (optical) EPG supported
- Automatic & Manual Service Scan supported
- Multiple LNB control (DiSEqC) supported
- Skin change supported

2.2 Product Descriptions

Rear Panel



- | | |
|-------------------|--|
| 1. LNB IN | A satellite cable can be connected. |
| 2. AUDIO R | Connects to TV using RCA cable. |
| 3. VIDEO | Connects to TV using RCA cable. |
| 4. HDD BRACKET | HDD racket. |
| 5. LOOP OUT | A satellite cable can be connected to other satellite tuner. |
| 6. AUDIO L | Connects to TV using RCA cable. |
| 7. S/PDIF Optical | Connects to a digital audio system using S/PDIF cable. |
| 8. TV SCART | A SCART connector is provided for TV using SCART cable. |
| 9. HDMI | Connects to TV using a HDMI cable for audio and video signals. |
| 10. ETHERNET | Connects the LAN network |
| 11. USB PORT | Connects the USB memory stick or external HDD |
| 12. DC 12V = 4A | Connects external power supply 12V |

Front Panel



2.3 Remote Controller



POWER	To switch the receiver in and out of stand-by mode.
TIMER	Sets sleep timer
0-9	Enters a service number for service change or to specify values for menu options.
< / >	Next / Previous channel
MENU	Displays the Main Menu
INFO	Displays the service information box.
▲/▼/□/□	Navigates Up/Down and Left/Right on the menu options.
OK	OK
GUIDE	Open EPG
PVR	Used to open movie list
PLUGIN	Used to open a plugin list
EXIT	Exits the current menu option into the live mode, or switches one step back of the menu.
PIP	Used to open Picture in Picture
VOL +/-	Adjust the audio volume.
CH +/-	Navigates through the scanned channel list
AUDIO	Displays the audio track option to choose (e.g. AC3, Stereo)
MUTE	Mutes the audio
REW	Fast Rewind
PLAY/PAUSE	Play and Pause
FF	Fast Forward
REC	Displays the recording menu.
FILE LIST	Displays the list of recordings stored on the internal HDD if any.
STOP	Stops playing of a recording and goes to the live mode.
RADIO	Displays the Radio channel list.
FAV	Displays favorite channel list
SUBT	Displays the subtitle of the current channel if the channel provides subtitle.
TEXT	Teletext
WWW	Displays the web browser
SETUP	Open SETUP menu
LAN	Open NETWORK menu
HELP	Open HELP menu

2.4 Conditional Access

Amongst the channels that are scanned via UNIBOX HD ECO+, some channels can be properly tuned in only with the corresponding Smartcard. UNIBOX HD ECO+ provides two Smartcard Reader slots and users need to purchase those Smartcards that are required for viewing such subscription based services.

2.4.1 Insertion of Smartcard

- ① Open the door on the right side.
- ② Insert Smartcard as in the following instruction.
- ③ Make sure that the Smartcard remain inserted while viewing.

2.4.2 Insertion of CAM (Conditional Access Module)

There are several Conditional Access Systems (CAS) that UNIBOX HD ECO+ supports. To be able to watch channels that are encrypted in such CAS as Nagravision, NDS, Irdeto, Viaccess, etc, users need to purchase a CAM that is corresponding to each CAS, as well as Smartcard to decrypt those encrypted channels.

- ① Insert a Smartcard into the CAM as in the below picture.
- ② Once the Smartcard inserted into the CAM, insert the CAM into the CI slot.
- ③ Make sure that the CAM remains inserted while viewing.

2.5 Technical Specifications

Front Panel

Display: 8-digit Dot Matrix VFD display displaying channel names, icons and program information

1x Smartcard Reader Slot

1x Common Interface:

1x USB 2.0

Buttons: 6 (Power, OK, Volume Up/Down, Channel Up/Down)

Rear Panel

Power Input

Sat-IF input/output: 2 x F-type socket

1 x Scart socket

1 x HDMI

1x Standard optical (S/PDIF)

1x USB2.0

1x LAN connection 10/100Mbit/s

Power

Mains voltage: 95~250 / 50~60 V/Hz

Power consumption: 65/35/1 W

(Max./typ. operation/stand-by)

RF

RF range: 950~2,150 MHz

Modulation, FEC, de-multiplexer: DVB-S/DVB-S2 standard

Video

Video resolution: CCIR601 (720 x 576 lines), 576p, 720p, 1080i, 1080p@30

Video decoding: MPEG-2, MPEG-4 compatible

Input data rate: 2~45 MSymb/s

S/N: > 53 dB

Audio

Decoding: AC3, MPEG-4(AAC-HE), MPEG-1 Layer1, 2 and 3

Sampling rate: 32 / 4.1 / 48 KHz

S/N: > 65 dB

LNB

LNB supply (horiz/vert): 14 / 18 ; Max. 400mA

Control signal: 22 KHz ; ToneBurst ; DiSEqCTM1.0 / 1.1 / 1.2

General

Dimensions (W x H x D): 230 x 47 x 210 mm

Weight (without HDD): App. 2 KG

3. Installation of UNIBOX HD ECO+

This chapter will guide you through the whole installation process of UNIBOX HD ECO+. Please read each section carefully to make sure that the system runs properly.

3.1 Connecting Satellite Cables

UNIBOX HD ECO+ is integrated with triple satellite tuners, and one of the first steps is to connect satellite cable(s) to UNIBOX HD ECO+ in order to gain optimal signal quality. You can either choose one of the following connection methods depending on the equipment you have.

A. Two Separate Satellite Cables

In case you have three separate satellite cables providing different broadcast signals, you can configure TUNER1, TUNER2, Input independently.

B. Connecting TV via HDMI Cable

For the sake of the best picture quality, especially for digital TV, HDMI connection is recommended. Most HDTVs have HDMI connectors to ensure the highest picture quality. In the rear panel of UNIBOX HD ECO+ one HDMI connector is available for this purpose. Connect your TV to UNIBOX HD ECO+ using a HDMI cable.

C. Connecting TV via Component Cable

The secondly recommend TV connection for digital TV is via component cable (YPbPr). However, unlike the HDMI connection which delivers audio and video signal at the same time, YPbPr connection requires additional audio connection either via RCA cable (Stereo L/R) or S/PDIF.

NOTE: When you have an A/V receiver with S/PDIF digital audio input, this connection is recommended to enjoy the best audio quality, especially for the Dolby Digital sound.

D. Connecting TV via RCA (Video) Cable

UNIBOX HD ECO+ provides Composite video connection as well. Composite cable has normally three connectors at the both end; one Video (Yellow) and two Audio (White/Red). Connect your TV to UNIBOX HD ECO+.

E. Connecting TV (and VCR) SCART Cable

In case your TV is analogue TV, SCART cable is the most common method. Connect your TV to UNIBOX HD ECO+ using SCART cable.

3.2 Connecting Power

A power code is provided as one of the basic accessories of UNIBOX HD ECO+.

- Connect the power cord to the connector at the rear panel of UNIBOX HD ECO+.
- Connect the power cord to a power outlet.
- Turn on the power switch at the rear panel.

NOTE: AC input condition

- Nominal Voltage Range: 100~240 VAC
- Maximum Voltage Range: 90~264 VAC
- Nominal Frequency: 50/60 Hz
- Maximum Frequency Range: 47~63 Hz

3.3 Power ON/OFF

[Press POWER 'Standby/Restart']

There are several ways to turn your UNIBOX HD ECO+ ON or OFF

• Complete Power Shutdown

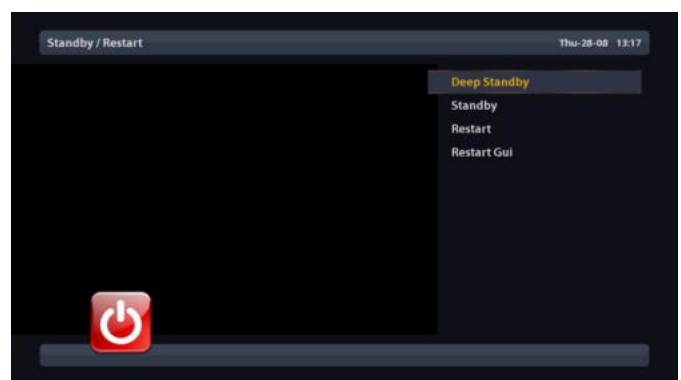
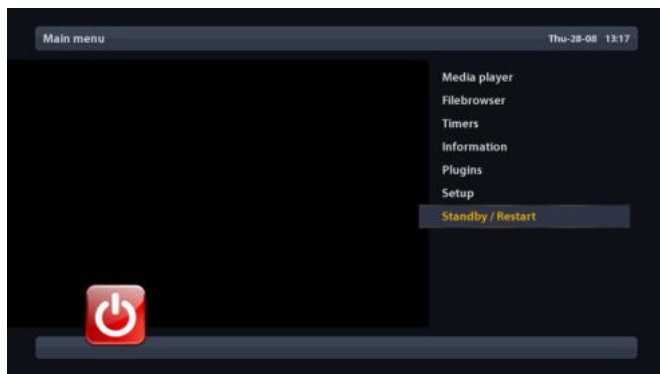
There is a Power Switch in the rear panel and once it is ON, you do not need to turn it on or off each time. It takes a longer time to boot the system if you turned it off by this switch.

• Standby Mode

POWER key is normally used to turn the power of UNIBOX HD ECO+ on or off. If you press POWER, it instantly switches your UNIBOX HD ECO+ off or on. In this mode, the system is not completely shut down and thus it takes a shorter time to turn it on and off.

• Deep Standby Mode

Deep Standby is used to reduce the standby power consumption. UNIBOX HD ECO+ is designed to be energy efficient and to guarantee the power consumption to be under 1W in the deep standby mode.



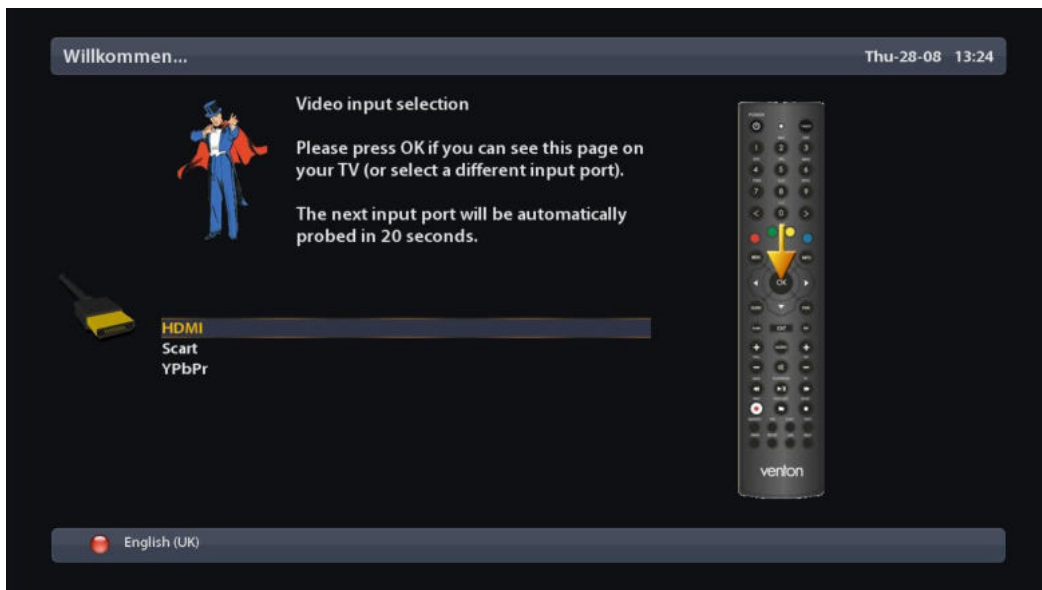
3.4 First Time Installation

When you turn on UNIBOX HD ECO+ for the first time after purchase, an installation wizard will begin step by step.

NOTE: 'OK' key is used for confirmation and turns to the next step. Press 'EXIT' key to return to the previous page.

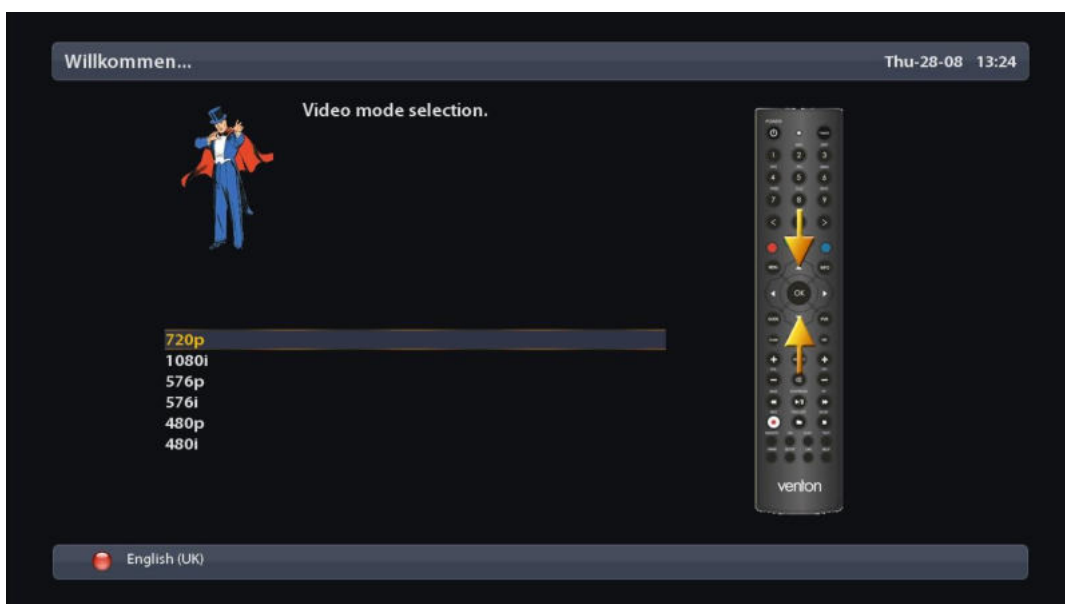
Step 1. Video Input Selection

UNIBOX HD ECO+ will automatically probe the video input port. Press OK if you can see this page on your TV. Or you can select a different input port (HDMI, SCART, or YPbPr). Use UP/DOWN key to scroll up and down to find the input port you want.



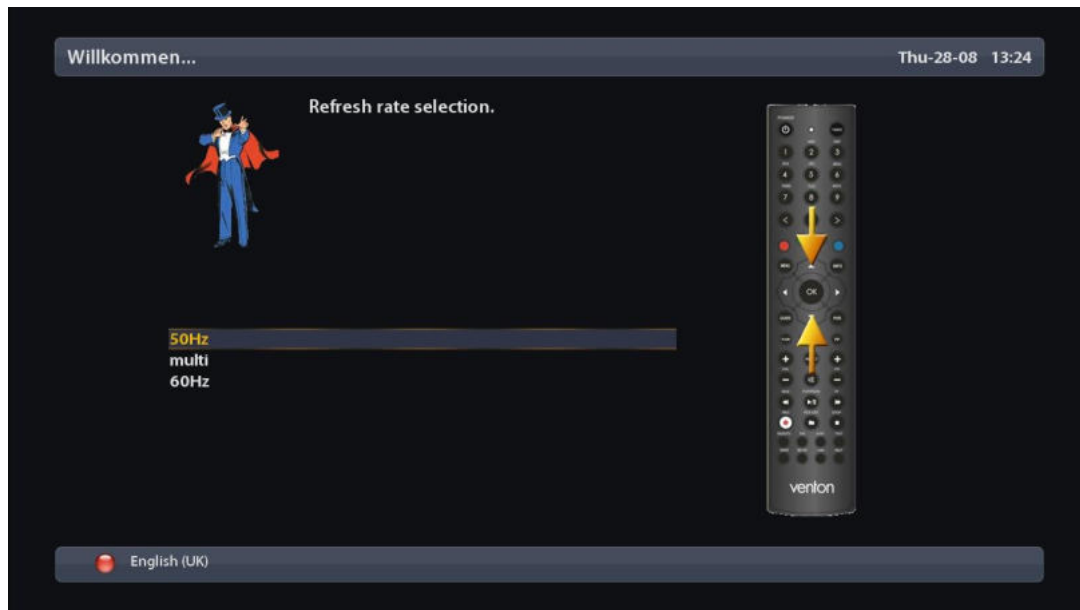
Step 2. Video Mode Selection

UNIBOX HD ECO+ provides various video modes. You can choose one. Use UP/DOWN key to scroll up and down to find the mode you want.



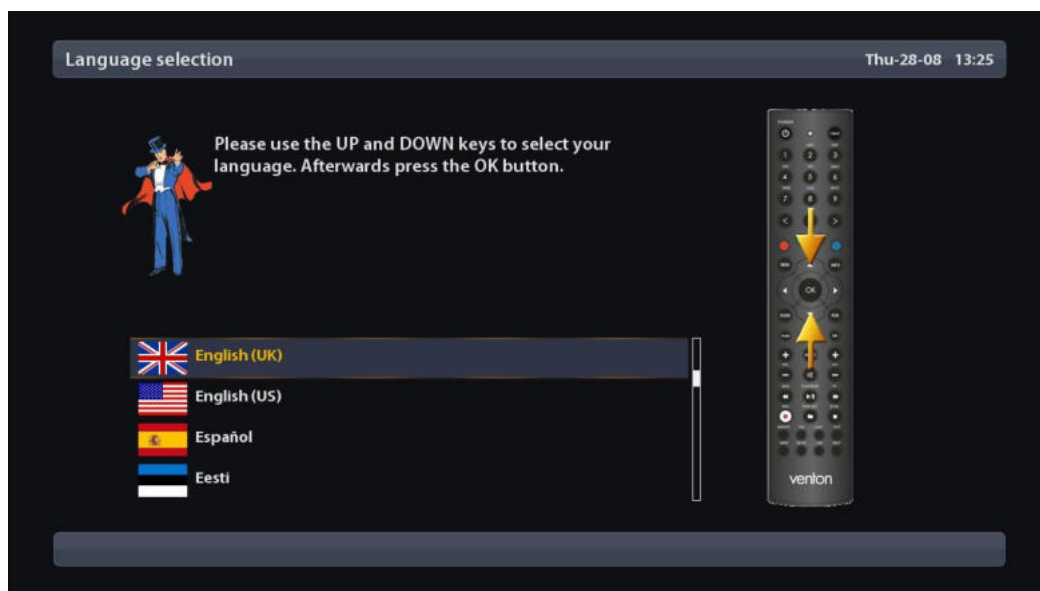
Step 3. Refresh Rate Selection

Adjust the refresh level to a value suiting your taste. If you are happy with the result, press OK.



Step 4. Language Selection

UNIBOX HD ECO+ provides various languages and here you can choose the main language for your UNIBOX HD ECO+. Use UP/DOWN key to scroll up and down to find the language you want.



Step 5. Configuring Satellite Connection

From now on you need to configure the satellite connection. You have two options:

- Use wizard to setup basic features
- Exit wizard

You are strongly recommended to use wizard as it is designed to guide you through the configuration process.



Step 6. Configuring Tuner A

Using LEFT/RIGHT key, you can choose one of the following Configuration Modes:

- Not configured.
- Simple
- Loop-through to: mode to make the TUNER 1 be internally connected to the TUNER 2.
- Equal to: mode to use the same configuration as that of Tuner B.
- Advanced: for an advanced user configuration.

If you choose Simple configuration mode, the following picture will appear.



The five modes are available for the satellite cable connection between LNB and your UNIBOX HD ECO+ as below:

Single

This option is used to receive a single satellite with a single LNB. The cable from LNB is directly connected to UNIBOX HD ECO+.



ToneBurst A/B

This option is used if you want to receive two satellites using a ToneBurst switch.



DiSEqC A/B

This option allows you to configure two satellites in Port A and Port B.



DiSEqC A/B/C/D

This option allows you to configure four satellites in Port A, Port B, Port C, and Port D.



Positioner

This option is used when you have a motorized satellite antenna.

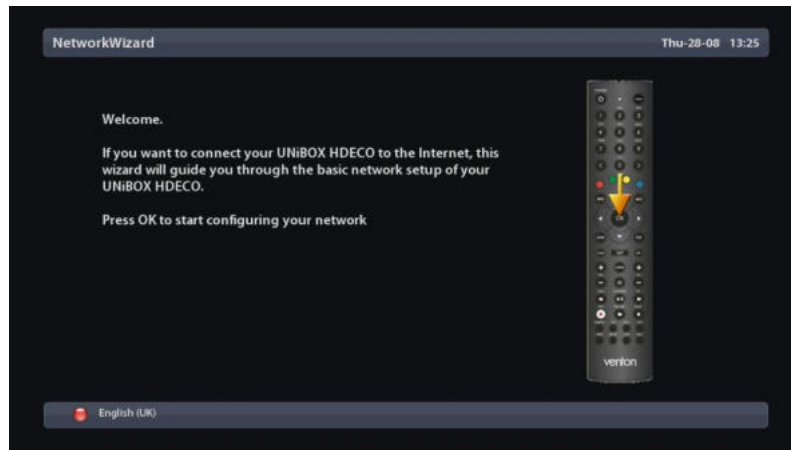


Step 7. Configuring Tuner B

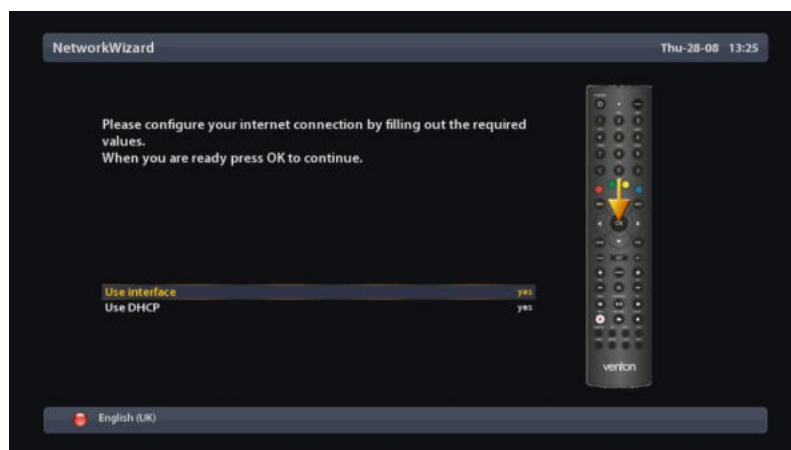
This step is for the configuration of TUNER B Input and the process is same as that of Tuner A. For further information please refer to the above “Step 7. Configuring Tuner A” section.

Step 8. Network Setup

Here you can configure Your network connection automatically. You need to press OK to enter Network Setup



After press OK, You can choose if installation should be automatic or manual.



4.0 First use

4.1 Channel List

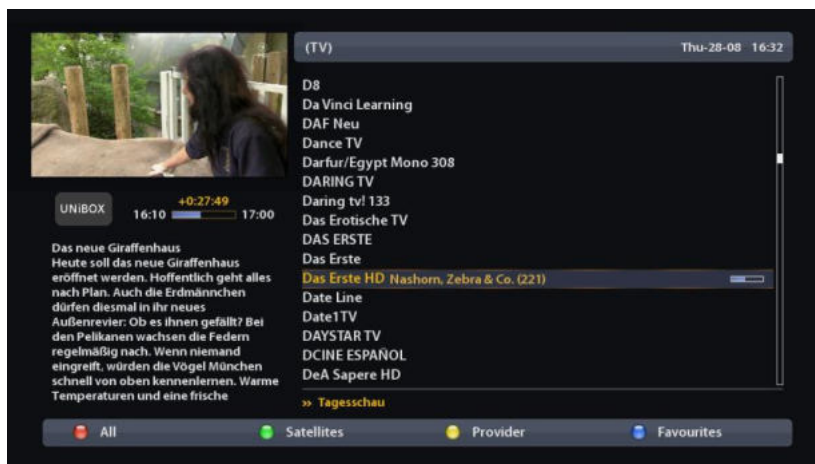
How to use > Press UP/DOWN

If press Navigation UP/DOWN key, this will activate Channel Selection Menu.

Four types of the channel lists are available to help you manage your channel selection.

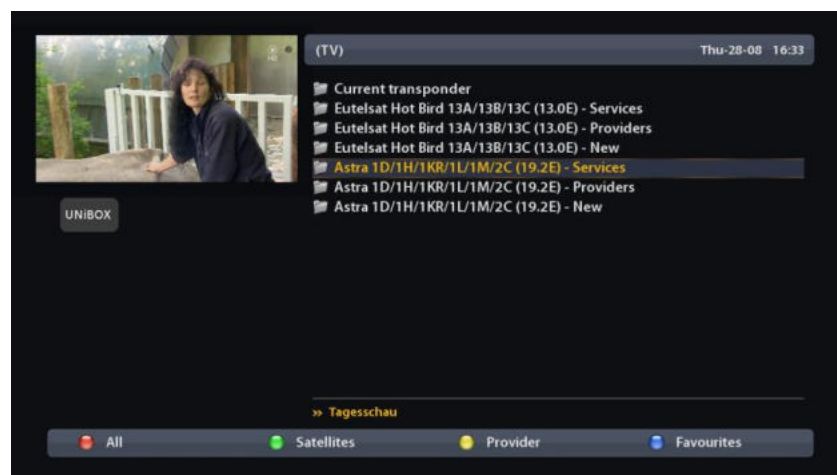
RED

It displays the list of all scanned channels.



GREEN

It displays the list of all satellites scanned. Per each satellite, channels are arranged according to Services, Provider, and New.



YELLOW

It displays the list of providers.



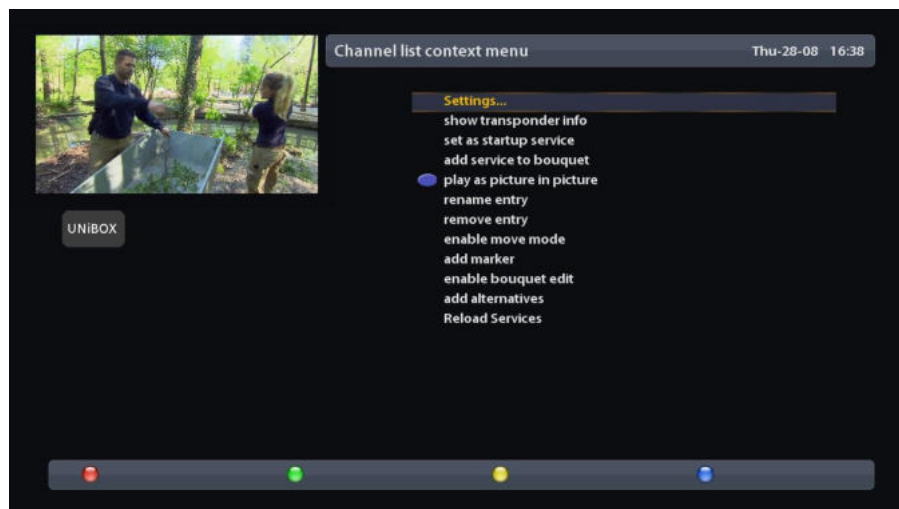
BLUE

It displays the list of your favorite channels.



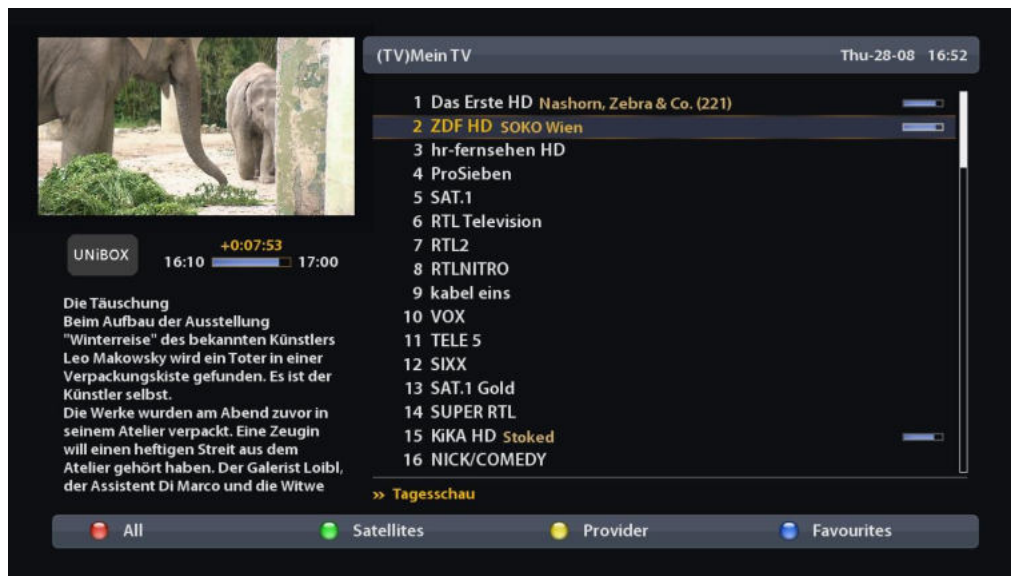
In order for you to add certain channels to this favorites list.

- ① Call up the Channel Selection list by Pressing UP or DOWN key.
- ② Go to All lists by pressing RED key.
- ③ Select the channel that you want to add to the Favorites list.
- ④ Press MENU key on the selected channel and the following menu appears.
- ⑤ Choose add service to bouquet and press OK.
- ⑥ Go to the Favorites list by pressing BLUE key to confirm that the selected channel is correctly included in the list.



4.2 Switching Channel

How to use > Press CHANNEL +/- or press UP / DOWN or Press LEFT / RIGHT to move to the next channels



UNIBOX HD ECO+ offers various channel zapping methods. You can switch the current channel by pressing.

UP/DOWN key

If you press UP or DOWN key, Channel Selection menu appears. You can move up and down to select the channel that you want to tune into.

LEFT/RIGHT key

If you press LEFT or RIGHT key, the previous or subsequent channel of the current channel is tuned in.

CHANNEL +/- key

If you press CHANNEL +/- key, the previous or subsequent channel of the current channel is tuned in.

Channel Number

Enter a channel number, and it will instantly tune into the channel.

NOTE: If channel change is not done, it is probably because the selected channel is encrypted and you do not have a proper smartcard.

4.3 Program Information

How to use > Press

Whenever you change the channel, infobar is always displayed for 5 seconds (default setting). Infobar is designed to provide you comprehensive information of the channel that you are currently watching.

Press OK to call up infobar



- ① 19,2E: The satellite position being used for the current channel
 - ② SNR (Signal to Noise Ratio) : Signal Level
 - ③ AGC (Automatic Gain Control) : Signal Strength
 - ④ The name of the current channel
 - ⑤ Remaining time of the current program
 - ⑥ The current program
 - ⑦ The next program
 - ⑧ REC : Highlighted in red when recording is in progress.
 - ⑨ CAS : Encrypted program
 - ⑩ Dolby Digital: Highlighted when the program provides digital audio.
- 1280x720 : Screen resolution
 RED : to activate recording
 GREEN : to call up Subservices, if available
 YELLOW : to activate plugins menu
 Extensions : to call up a menu for Sleep Timer and Graphical Multi EPG

4.4 Volume Control

How to use > Press VOLUME +/- or press

You can adjust the audio volume by pressing VOLUME +/- key. You can also mute or unmute the audio temporarily by pressing MUTE key



4.5 Selecting Audio Track

How to use > Press AUDIO

You can check what audio tracks are available to choose by pressing AUDIO key.

By using UP/DOWN key and Color key, you can select a different audio language or Stereo sound.



NOTE: Available options on this menu will differ depending on the service.

4.6 Subtitle

How to use > Press SUBTITLE

You can view the subtitle of the current program if the program provides the subtitle. Press SUBTITLE key and Subtitle selection menu appears as below.

Available subtitles, if any, will display. By using UP/DOWN navigate the list to select a subtitle that you want to play and press OK to activate it.



4.7 Media Player

How to use > Press **MENU**-> '**Media Player**'

UNIBOX HD ECO+ is truly a multimedia receiver capable of playing media contents. Using Media Player, you can enjoy Music, Photo and Video contents stored on the internal HDD and/or a USB memory stick plugged into UNIBOX HD ECO+.

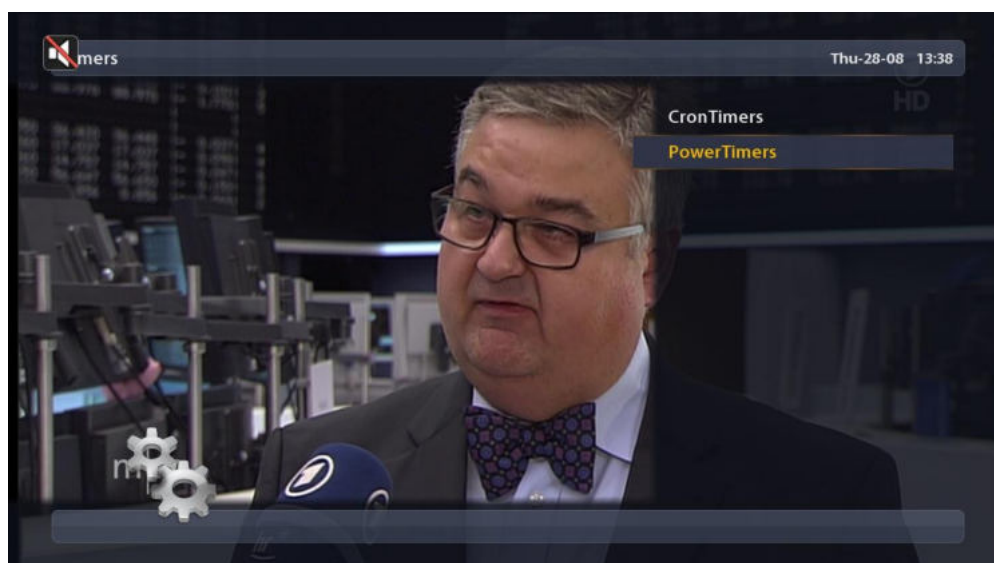
If you play Media Player, the following player will appear.



- ① Go into any directory of the HDD or plugged USB.
- ② Select a file to play and press OK.
- ③ Supported formats are mainly JPG, MP3, AVI, etc.
- ④ In the same way, you can play the recording files stored on the HDD.

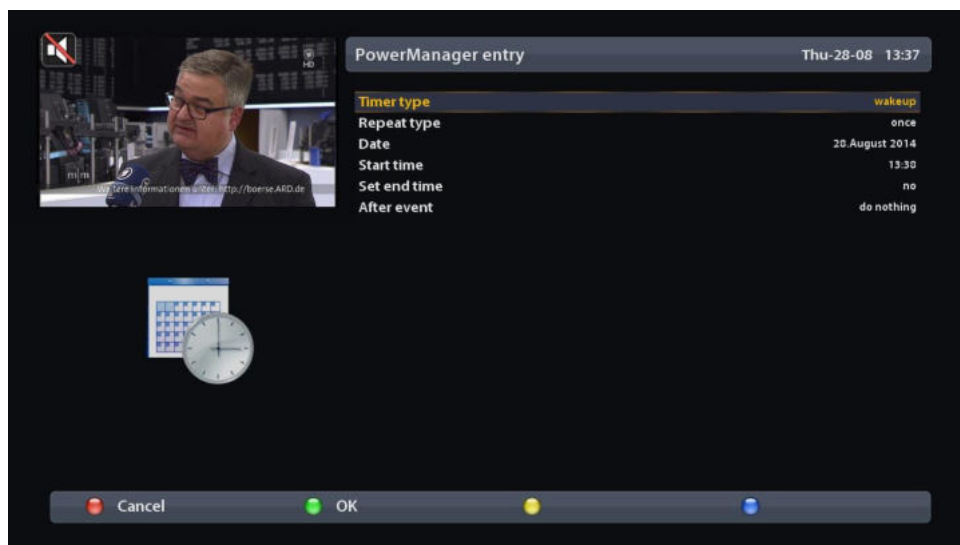
4.8 Sleep Timer

How to use > Press **MENU** → '**Timers**' → '**Power Timers**'



You can set a specific time when your UNIBOX HD ECO+ goes into Standby mode or Deep Standby mode, using this menu. Three color keys are used to setup this sleep timer.

- ① RED: This option is used to EXIT from menu
- GREEN: This option is used to save settings.



4.9 Teletext

How to use > Press TXT

You can call up Teletext information by pressing TEXT key. It will take some time to load all the information.



You can navigate through the Teletext page by using UP/DOWN key to select a text page. Also, just simply enter the page number that you want to read.

MUTE key

Once you activated Teletext, you can toggle between the live mode and the Teletext page by pressing MUTE key instantly. In this case, loading of the Teletext page takes place instantly.

VOLUME + key

If you want to enlarge the page, press VOLUME + key.



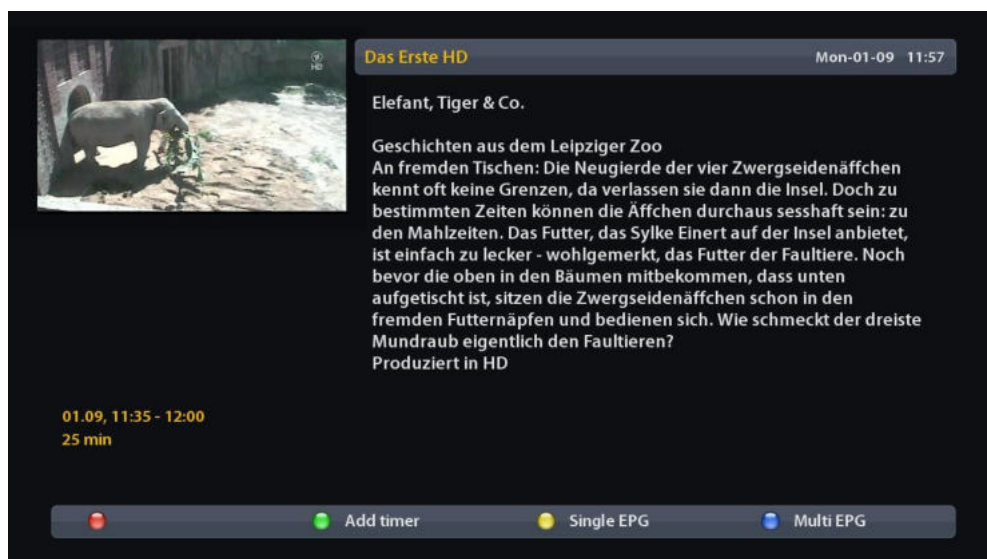
VOLUME - Key

If you want to reduce the page size, press VOLUME - key.

4.10 Electronic Program Guide

How to use > Press "INFO" key

The Electronic Program Guide (EPG) displays the program information of each channel, if provided, in time and date order. You can view the detailed program information by pressing INFO key and the menu, Eventview appears.

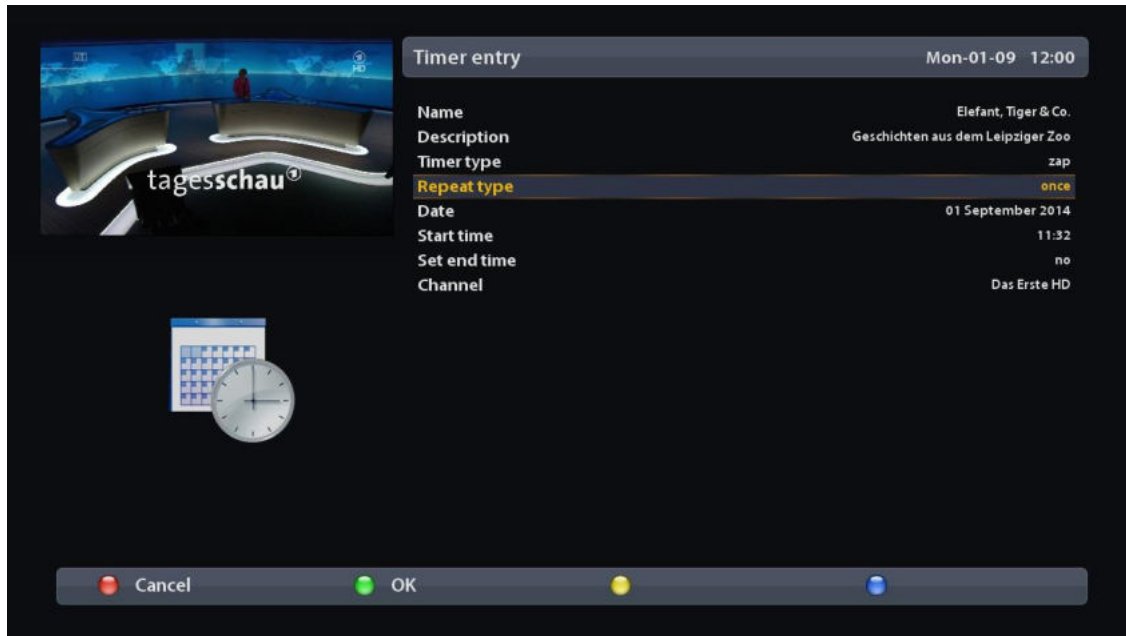


Detailed information of the current channel will be displayed on EPG. On this menu, three options are provided.
RED (Similar)

This option helps you find similar programs. If there are one or more programs that are similar to the current program, EPG Selection window displays them.

GREEN (Add Timer)

If you press GREEN key, Timer entry menu appears. This option is used to setup a new timer for recording or zapping.



- Name: Displays the name of the selected program.
- Description: Displays a short description of the selected program.
- Timer Type
 - Select Zap for channel tuning reservation.
 - Select Record for recording reservation.
- Repeat Type
 - Select Once for one time of zapping or recording reservation.
 - Select Repeated for repeated zapping or recording reservation.
 - Repeats - This option is given only when you selected 'Repeated' in the Repeat Type. You can reserve zapping or recording per Daily/Weekly/Mon-Fri/User-defined.
- Date: Displays the current date. This entry is on when you selected Once, in the Repeat Type.
- Start Time: You can set the time to begin recording or zapping.
- End Time: You can set the time to end recording or zapping.
- Channel: This entry allows you to change the channel. Press LEFT/RIGHT key to call up

Channel Selection menu. You can select a different channel from this list using this option. To return to Timer entry menu, press EXIT.

YELLOW (Single EPG)

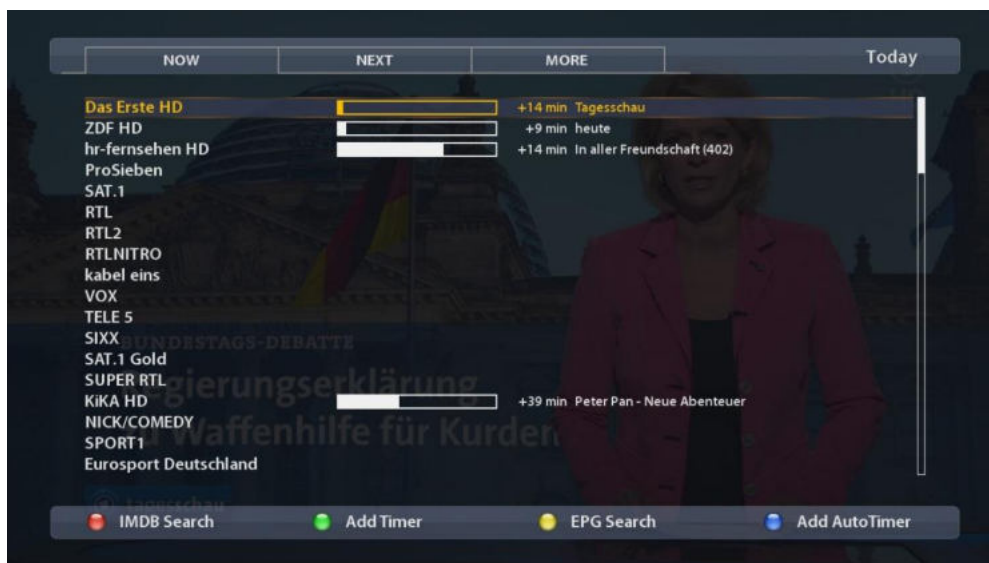
Press YELLOW while Eventview menu is on, to call up the program event schedules of the selected channel. In this state, you can sort the list according to A-Z order or Time by pressing YELLOW.

NOTE: To add a timer for recording or zapping, press GREEN.



BLUE (Multi EPG)

Press BLUE to activate EPG Selection Multi EPG window.



- You can move the previous or next program within the same channel by using YELLOW (Previous)/BLUE (Next).

NOTE: Not all channels provide EPG information and thus in case of no EPG data, nothing will be displayed except for the channel name.

- You can switch to another channel by using UP/DOWN key.
- RED key is used to instantly tune into the selected channel.
- GREEN key is used to reserve recording or zapping of the selected program.

4.11 Timeshift

How to use > Press PLAY/PAUSE  during watching TV



For your information, Timeshift is an instant recording of the current program that you are watching. Press PLAY/PAUSE key, it will instantly pause the audio and video of the program, and a small window displaying elapsing time information will appear on the top side of the screen.

In this state, Timeshifted recording is running until you press either PLAY or PAUSE again.

You can restart viewing of the program.

If you want to stop Timeshifted recording and to return to the live mode, press STOP key.



There will appear a message with possible actions:

- 1) Exit timeshift but do not save it as movie
- 2) Exit timeshift and save it as movie and continue recording in background
- 3) Exit timeshift and save it as movie but stop recording
- 4) Do not exit.

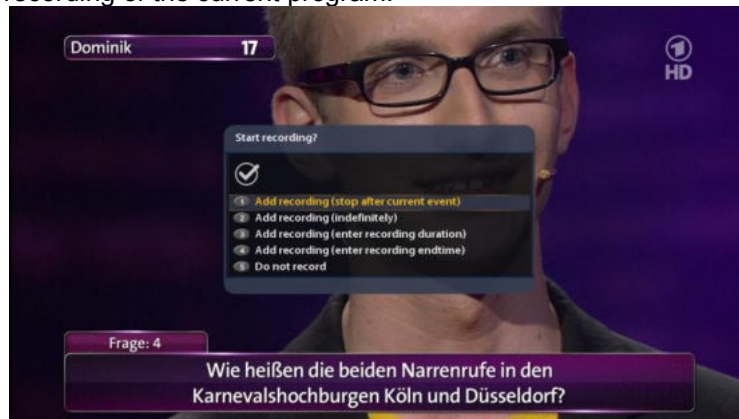
4.12 Recording

UNIBOX HD ECO+ is a Personal Video Recorder with an integrated DVB-S2 tuner. You can record multiple programs at the same time. There are two ways to operate and manage recording.

⑤ Instant Recording

How to use > Press REC button

Press REC key to start the recording of the current program.



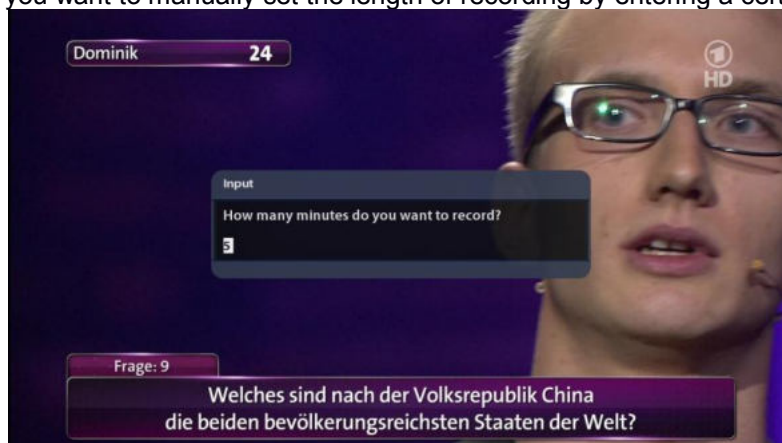
Five recording options are given.

Add recording (stop after current event)

This option is used when you want to end recording when the current program ends.

Add recording (enter recording duration)

This option is used when you want to manually set the length of recording by entering a certain number as below :



Add recording (enter recording end time)

This option is used when you want to define a certain date and time when the recording is to stop.



Add recording (indefinitely)

This option is used when you want to keep recording running without a specific end time. Recording will continue unless you stop it.

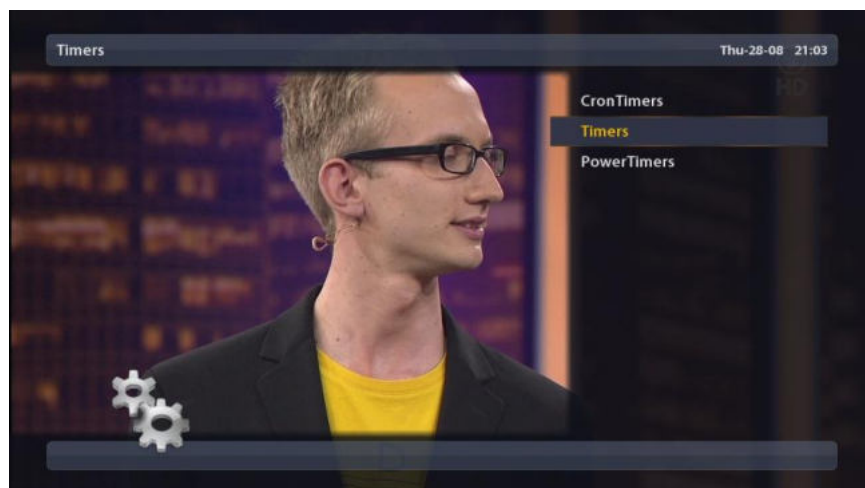
Don't record

This option is used to exit from this menu without recording.

Recording by Timer

How to use > Press 'Timers' button

You can manage recording process using Timer List menu. Press MENU and select Timer on the menu.



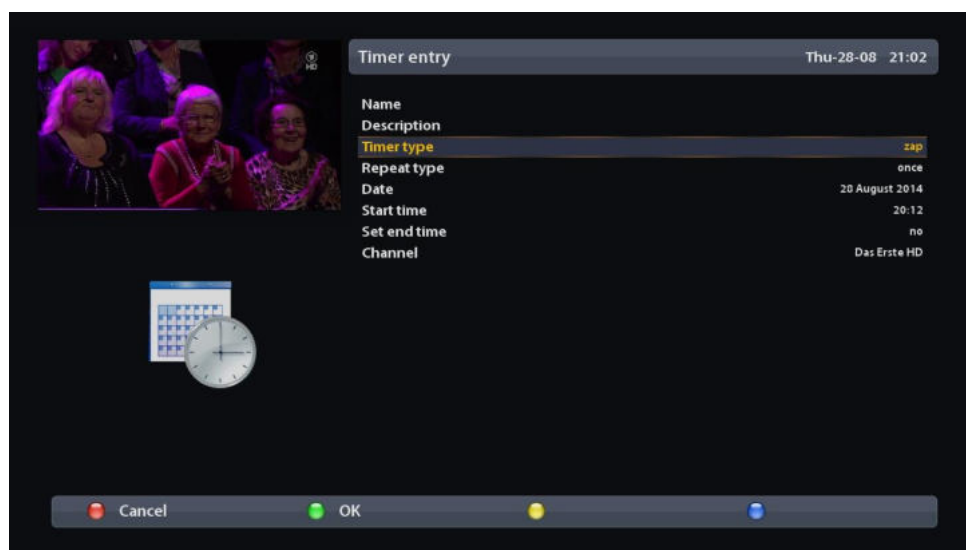
In this menu, color keys are assigned for each different function.

RED (Delete)

This option is used to delete a timer.

GREEN (Add)

This option is used to add a timer.



YELLOW (Disable)

This option is used to disable the timer and X mark will appear.



NOTE: if you want to enable the disabled timer, press YELLOW again.

BLUE (Cleanup)

This option is used to remove those finished timers from the Timer list.

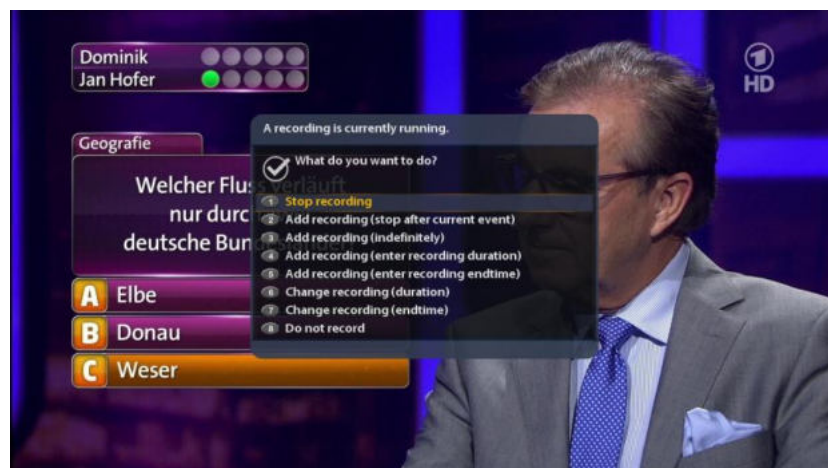


NOTE: Make sure that the HDD on your UNIBOX HD ECO+ has enough free space available for recording. If the free space on the HDD is not sufficient, recording might stop before the defined end time.

Stop Recording

How to use > Press RED → 'Stop Recording'

If you want to stop recording, press RED again while recording is running. Select Stop Recording.



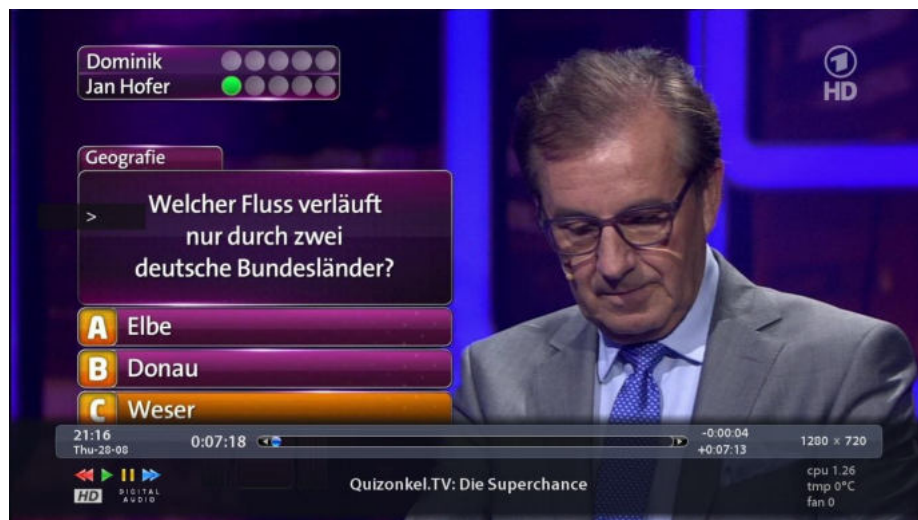
4.13 Recording Play

How to use > Press FILE LIST

You can view recorded files on the Recorded files menu. Press Filelist to activate this menu.



Select the file that you want to play. It will instantly replay the file and display the recording infobar.



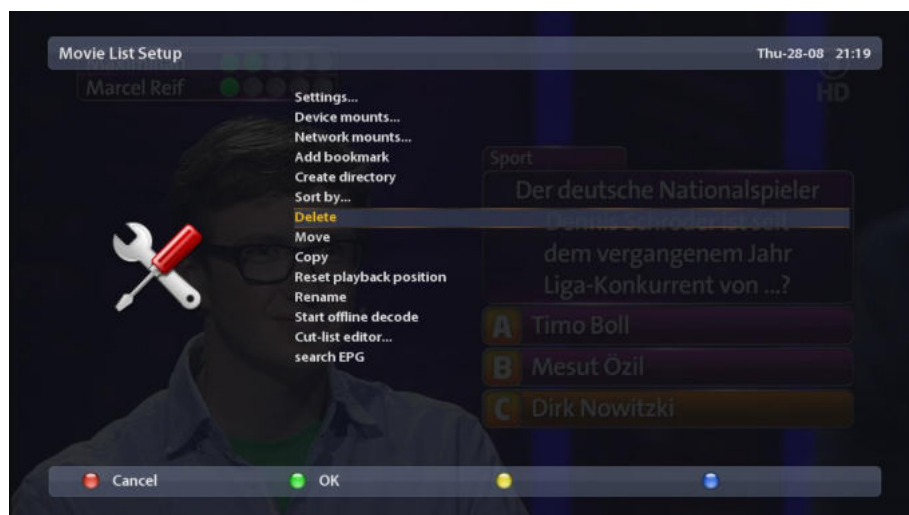
This infobar gives you the following information of the recording.

- ① Title of the recording
- ② Total duration of recording
- ③ Remaining time
- ④ Progressive bar
- ⑤ Elapsed time

4.14 Managing Recording Files

How to use → Press MENU

If you want to delete a recording file, press MENU key while Recorded files menu is on.



Select 'Delete' to delete.



Other than 'delete', in this menu, you have options in sorting and listing of the recording files.

- Sort by date
- List style default
- List style compact with description
- List style compact
- List style single line
- Hide extended description.

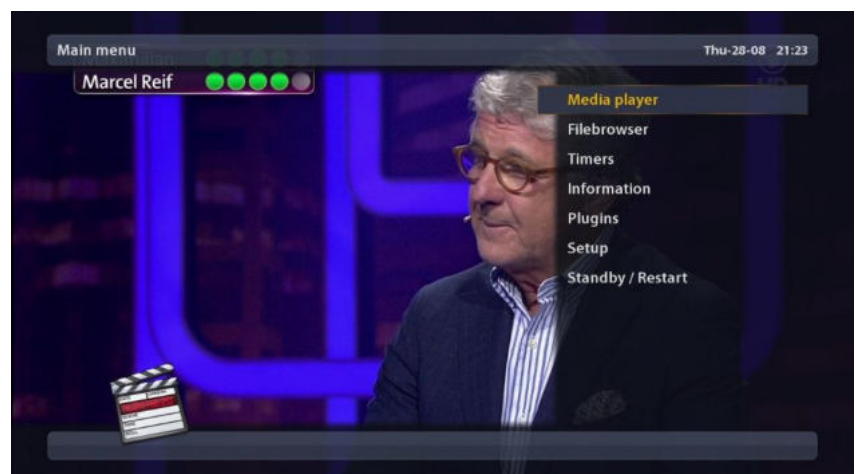
5. System Configuration

UNIBOX HD ECO+ is a very sophisticated device designed to allow users a variety of system setting options as detailed as possible. You can fine-tune your UNIBOX HD ECO+ to be your OWN system to fit your taste. This chapter will guide you through the entire menu of system configuration.

Prior to System Configuration, please take a notice on the menu structure of UNIBOX HD ECO+ first.

5.1 Main Menu

How to use > Press MENU button



5.2 System Configuration

The main menu of UNIBOX HD ECO+ consists of the following sub menus.

- ① Media player: Activate Media player of UNIBOX HD ECO+. For more information, please refer to the “4.7 Media Player”.
- ② File Browser: You can browse, manage all files inside USB and HDD.
- ③ Timers: Set a timer to record a program. For more information, please refer to the “4.12 Recording”. You can set Sleep Timer as well.
- ④ Information: Have give sub menus for About / Devices / Memory / Network / Service. Service menu provides the detailed information of the current Channel. About menu provides the detailed information of the H/W and S/W system of your UNIBOX HD ECO+.

Devices menu provides the detailed informations about connected tuners and connected devices. Memory menu provides informations about RAM and FLASH memory. Network provide IP and all network informations.
- ⑤ Plug-ins: Activates Plug-in browser of UNIBOX HD ECO+ .Using this browser, you can log onto the designated website and you can download a variety of new plug-ins.
- ⑥ Setup: Provide all of the system settings. For more information, please refer to the “5.2 System Setup”.
- ⑦ Standby/Restart: Provide options for power On/Off and sleep timer. For more information, please refer to the “2.4 Power On/Off”.

5.3 System Setup

How to use > Press MENU→ ‘Setup’



The Setup menu consists of the following sub-menus.

- ① System
- ② Service Searching
- ③ Common Interface
- ④ Parental Control
- ⑤ Factory reset
- ⑥ Software management

5.3.1. System Configuration

How to use > Press MENU → 'Setup' → 'System'

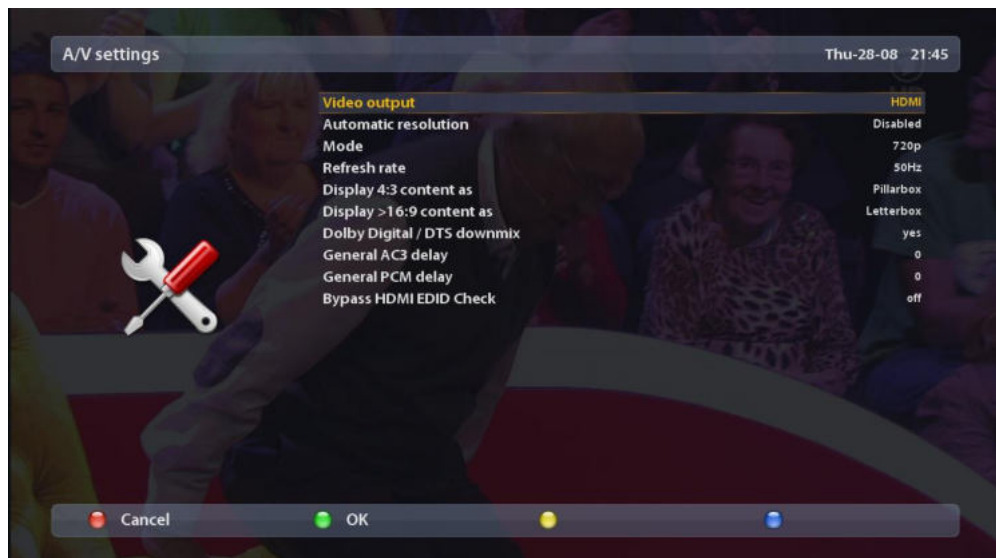


Here you can find most of the necessary settings that you might need to optimize your UNIBOX HD ECO+ in the way you like it. Please read the followings carefully.

A/V Settings

How to use > Press MENU → 'Setup' → 'System' → 'A/V Settings'

Here you will find options necessary to setup the audio and video configuration of your UNIBOX HD ECO+.



NOTE: RED is for cancel and GREEN is OK. OK key of RCU is not working in this mode.

Amongst the parameters given in this menu, the following ones are generally what you need to decide for the audio and video.

① Video output: Here you need to decide which video output you want to use between your

TV and UNIBOX HD ECO+. The available options are as below.

- HDMI
- SCART

② Mode: You need to decide which resolution to use according to the video output above and your TV.

③ AC3 Default: YES is used when you want to set Dolby Digital audio as the default audio. If the program you are watching has AC3 and Stereo, AC3 is used.

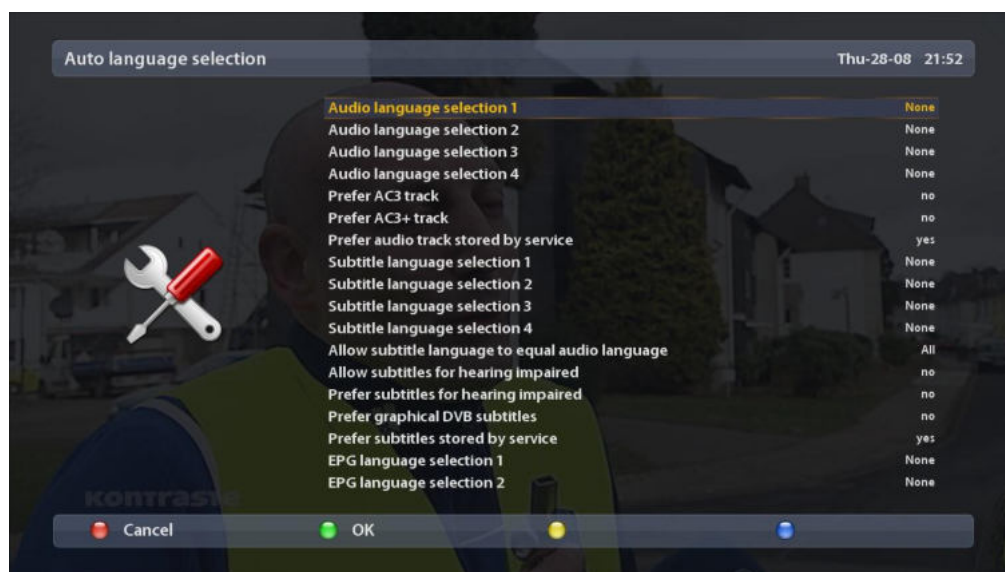
On the other hand, NO is used when you do not want to set Dolby Digital audio as the default audio. If the program you are watching has AC3 and Stereo audio, Stereo audio is used.

④ AC3 Downmix: YES is used when you want to set the audio output to be down-mixed from AC3 to Stereo. NO is used when you do not want to set the audio output to be down-mixed from AC3 to Stereo. If NO is on and you are using only HDMI connection, there can be no audio sometimes, if the program that you are watching provides AC3 only. This option is recommended when you are using S/PDIF connection.

Auto language selection

How to use > Press MENU → 'Setup' → 'System' → 'Auto language selection'

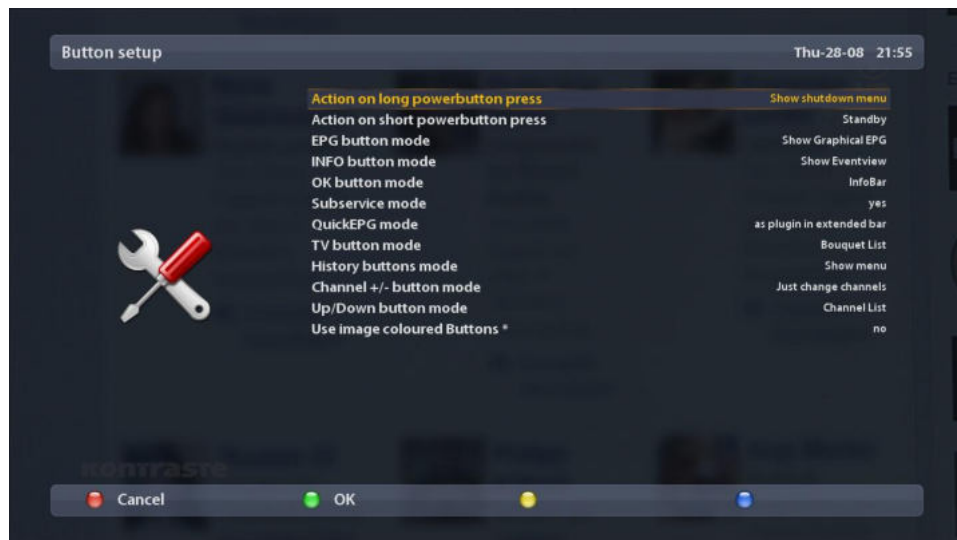
This menu allows to setup default language speech, turn on automatically subtitles and more.



Using LEFT/RIGHT key, you can control a value that you want to use for your UNIBOX HD ECO+. After setting, press GREEN to confirm and save the changed setting.

Buttons Setup

How to use > Press MENU → 'Setup' → 'System' → 'Buttons Setup'

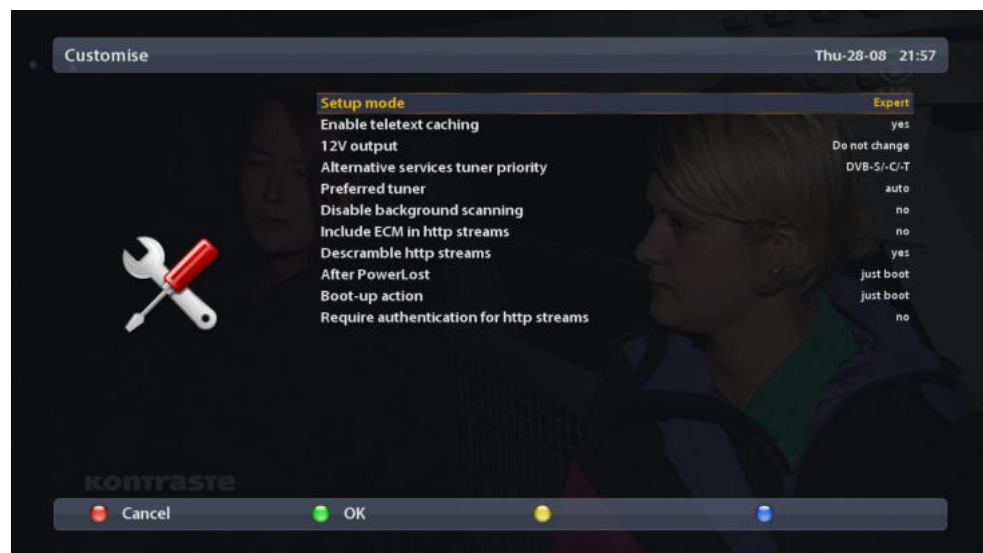


In this menu You can setup actions for button. You can change actions after press OK button.

Customization

How to use > Press → 'Setup' → 'System' → 'Customise'

In this menu you will find various customization options and this menu can be displayed in three different formats: Simple, Intermediate, and Expert.



NOTE: RED is for cancel and GREEN is OK. OK key of RCU is not working in this mode.

Amongst the options given in this menu, the following ones are generally what you may need to know.

Setup mode: Expert, Simple, Intermediate

Enable teletext caching: If you set this option at YES, it will cache teletext.

12V Output: If you set this option at YES, it will turn on 12V on SAT output.

Alternative services tuner priority: You can setup which tuner should be used as priority

Preferred tuner: Force to use tuner number

Include ECM in http streams: Send ECM while streaming

Descramble http streams: Descramble streaming

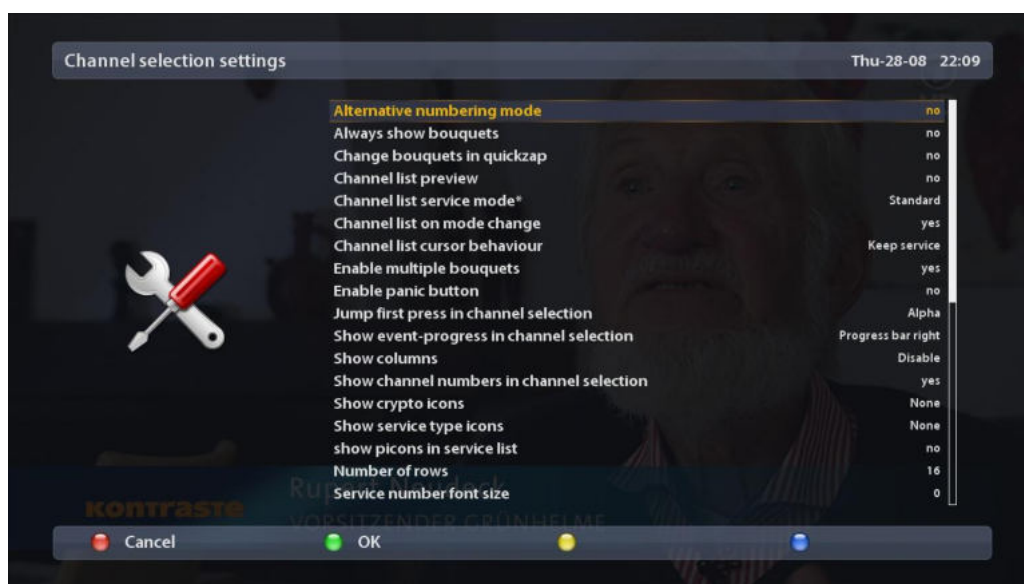
After PowerLost: You can setup action, what happens after power-cut

Boot-up action: You can setup action, what box should do after it boots up

Require authentication for http streams: If You stream, request username and password.

Channel selection settings

How to use > PressMENU → 'Setup' → 'System' → 'Channel selection settings'

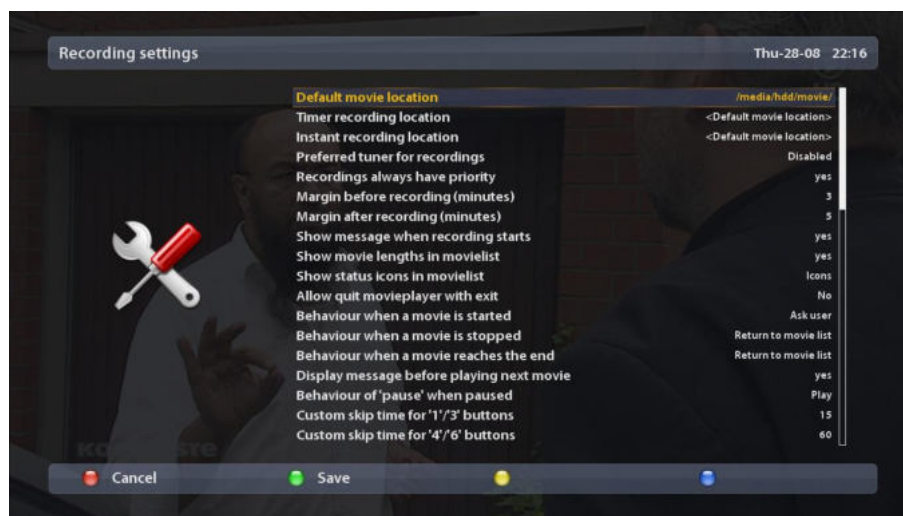


You can setup behaviour of channel list. Enable progress bar format and positions. There is option as well to show columns and crypto icons, service type icons and channel logos – picons. Numbers of rows and setup font size for channel numbers and names.

Recording Settings

How to use > Press MENU → 'Setup' → 'System' → 'Recording settings'

UNIBOX HD ECO+ provides options for Recording function.



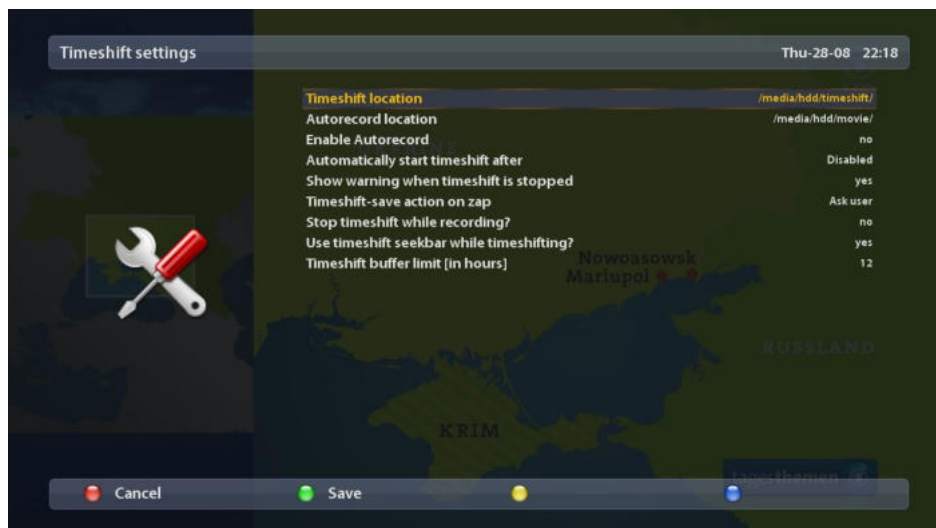
① Recording always has priority: YES option is used to set the recording to have a priority over any existing timer. If there occurs a conflict between a timer and a recording in progress, the recording has a priority over the timer. If you set this option at NO, you will be asked whether to switch to the service to record or not.

② Margin before record (minutes): If you enter a number here, for example, 5, the recording will begin 5 minutes before the defined time. If it is '0', it means that the recording starts exactly at the defined time. This option comes in handy, just in case that a program starts earlier than the original schedule.

③ Margin after record: If you enter a number here, for example, 5, the recording will stop 5 minutes after the defined time. If it is '0', it means that the recording stops exactly at the defined time. This option comes in handy, just in case that a program ends later than the original schedule.

Timeshift Settings

How to use > Press MENU → 'Setup' → 'System' → 'Timeshift settings'

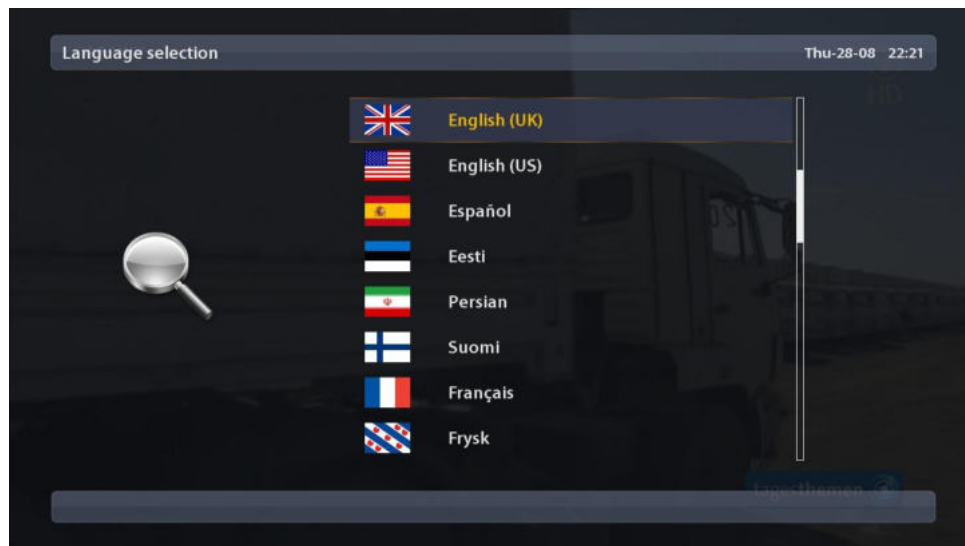


Using LEFT/RIGHT key, you can set a automatic timeshift start, location etc. After setting, press GREEN for save and RED for exit.

Language Selection

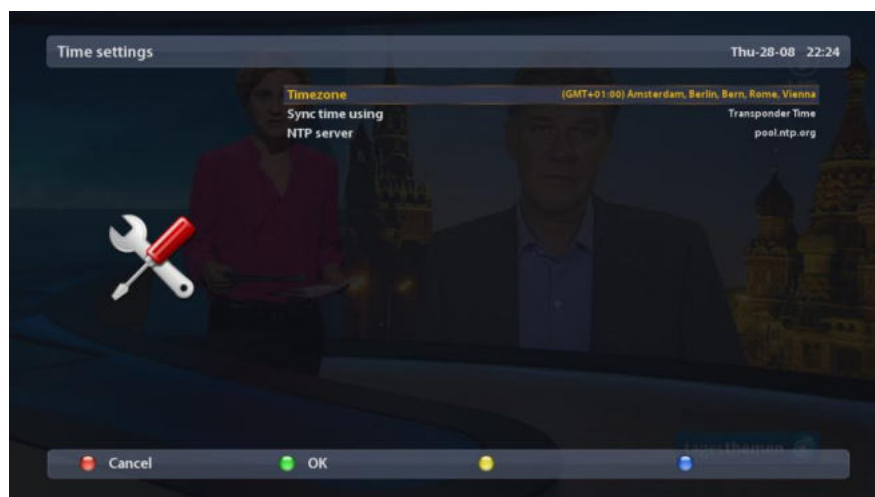
How to use > Press MENU → 'Setup' → 'System' → 'Language'

A variety of languages are available for the OSD of UNIBOX HD ECO+.



Selecting Time Zone

How to use > Press MENU → Setup' → 'System' → 'Timezone'



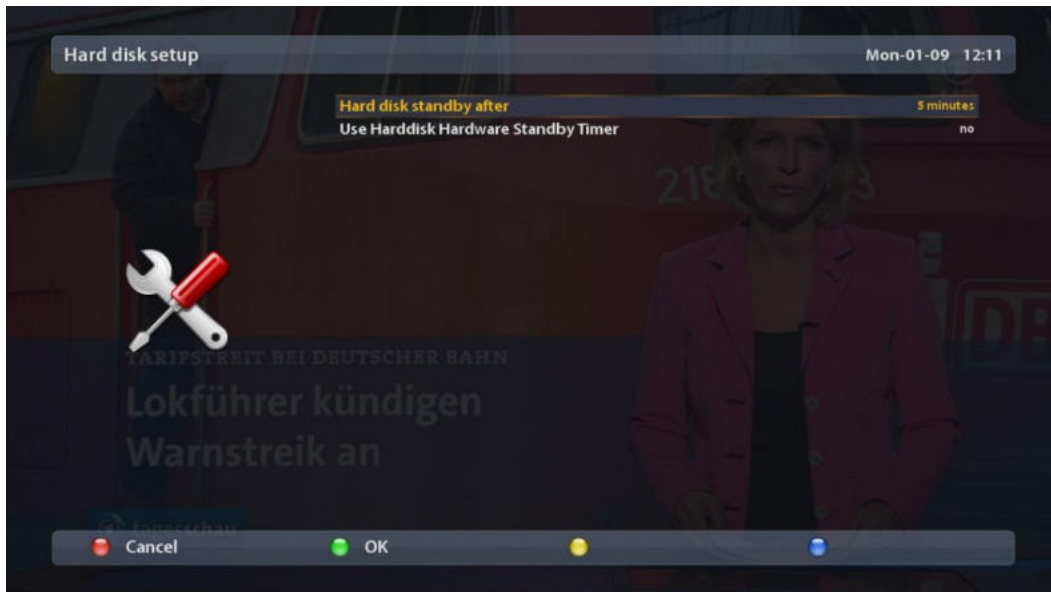
Using LEFT/RIGHT key, you can find a time zone that you want to use for your UNIBOX HD ECO+ .After selecting a time zone, press GREEN to confirm and save the changed setting.

Hard Disk Setup

How to use > Press MENU → Setup' → 'System' → 'Storage devices' → 'Harddisk setup'
You can set the duration of time after which HDD is to be put into standby mode.

Here, you can choose from

- No standby
- 10 or 30 seconds
- 1, 2, 5, 10, 20, 30 minutes
- 1, 2, 4 hours.



Once you set this option, press GREEN key to confirm the change.
Initialize Hard Disk

How to use > MENU → Setup' → 'System' → 'Storage devices' → 'Harddisk Setup' → 'Initialization'

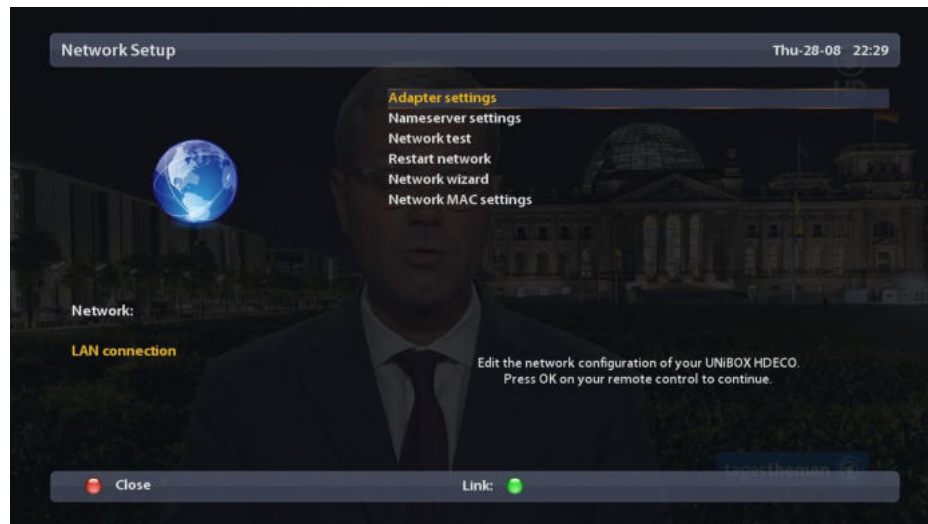
You can initialize a Hard Disk. Press RED key to initialize the harddisk.



Network Setup

How to use > Press MENU → 'Setup' → 'System' → 'Network'

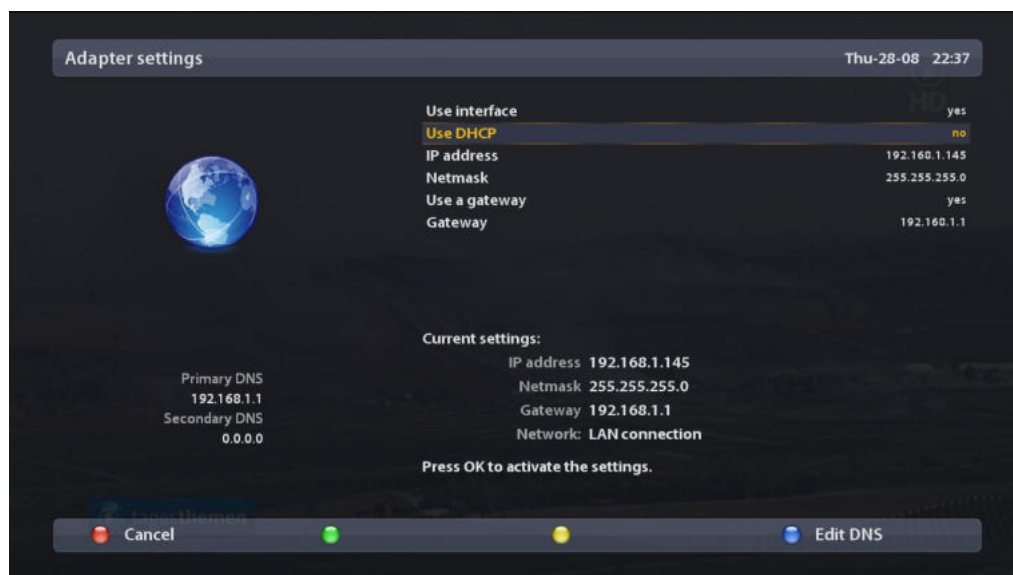
UNIBOX HD ECO+ is integrated with standard 10/100Mbps Ethernet with RJ 45 connector standard. You are recommended to use this network capability of UNIBOX HD ECO+ to fully enjoy the system. You can setup the network settings through this Network Configuration menu.



In the Network Configuration menu, you will see five sub menus as follows:

- ① Adapter settings: Through this menu, you can set the basic Ethernet configuration.

User Interface: YES is used to activate the Ethernet. If you set this option at NO, the Ethernet will not work.

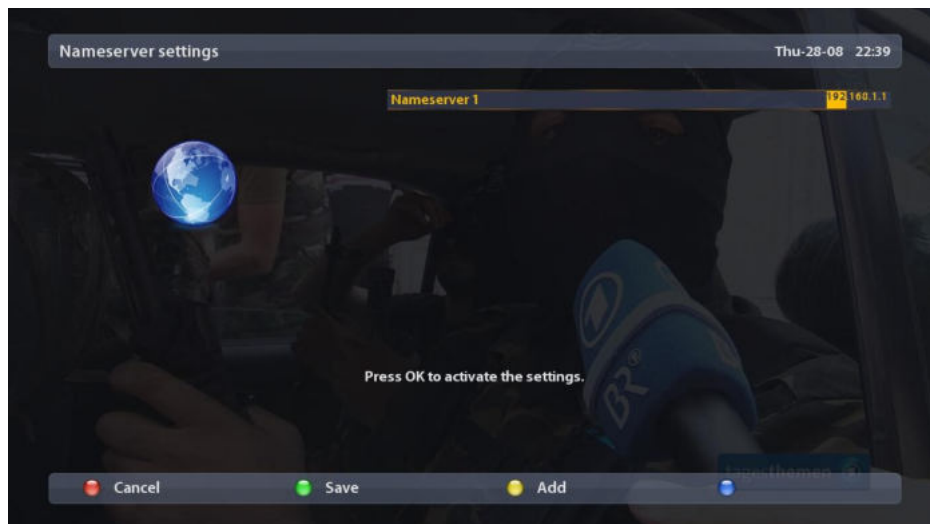


- Use DHCP: YES is used to use DHCP (Dynamic Host Configuration Protocol). If you set this option at YES, it will automatically detect the correct IP address. NO is used when you want to use a certain fixed IP address. In this case, you need to enter correct addresses in each field.

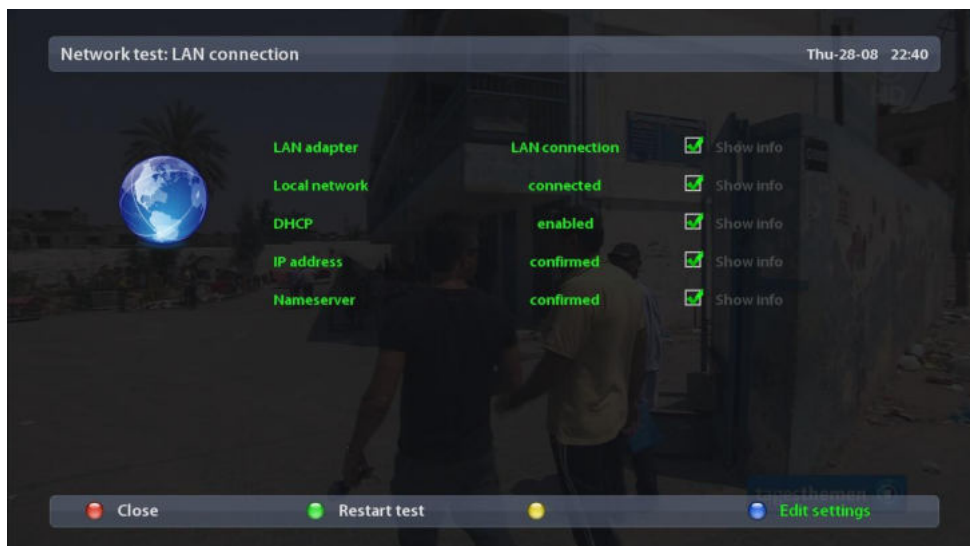


② Nameserver settings

This option is required if you selected not to use DHCP. You need to enter the address of the Nameserver.



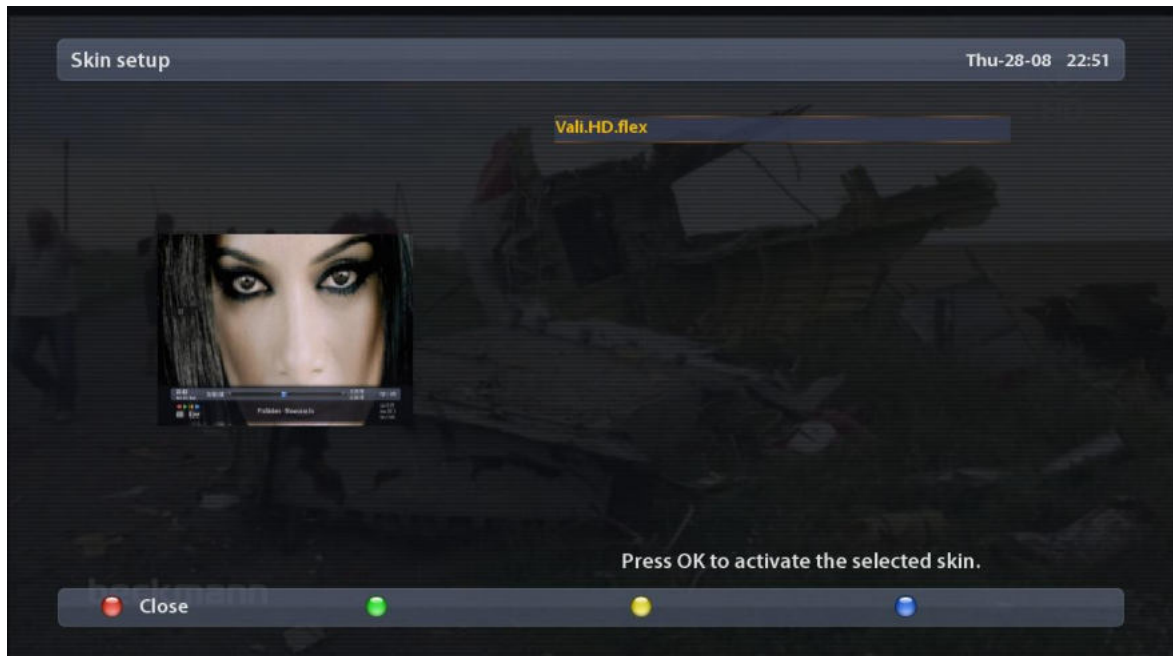
③ Network test: When you are not sure whether the network configuration has been done correctly or not, you can run this test.



- ④ Restart Network: This option is used when you want to reboot the Ethernet of your UNIBOX HD ECO+.

Skin Setup

How to use > Press MENU → 'Setup' → 'System' → 'Skin Setup'



UNIBOX HD ECO+ is a Linux based set top box and there are a lot of Skins available for Linux set top box. Using this menu, you can use a different Skin other than the default one.

NOTE: It takes some minutes since the change of Skin requires a complete system shutdown. Please wait patiently until the system reboots with a newly selected Skin.

5.3.2. Service Searching

How to use > Press MENU -> 'Setup' -> 'Service Searching'

Here you setup the tuners of your UNIBOX HD ECO+ and run channel scanning automatically or manually.

Tuner Configuration: DVB-S2

How to use > Press MENU -> 'Setup' -> 'Service Searching' -> 'Tuner Configuration'

If you run the First Time Installation process (refer to the “3. First Time Installation”), the Tuner A is already configured. You can check the information of Tuner A and which satellites are scanned by Tuner A as follows.

Tuner Configuration: DVB-C

How to use > Press MENU -> 'Setup' -> 'Service Searching' -> 'Tuner Configuration'

Use UP/DOWN to select DVB-C Tuner and press the OK-Button. The Reception Settings menu will open up.

- Frequency bands

This type of searching scans the frequencies used by most cable providers. This setting is the default. Use LEFT/RIGHT to set the "Used service scan type" option to "Frequency bands". Press the OK button to save your settings.

You will be taken back to the "Tuner configuration" menu.

- Frequency steps

This type of searching scans the set frequencies step by step in a set increment. Use LEFT/RIGHT to set the "Used service scan type" option to "Frequency steps". Frequency scan step size (KHz): Use the Numeric keypad to set the step increment. Press the OK button to save your settings.

You will be taken back to the "Tuner configuration" menu.

Tuner Configuration: DVB-T2

How to use > Press MENU -> 'Setup' -> 'Service Searching' -> 'Tuner Configuration'

Use UP/DOWN to select the DVB-T Tuner and press the OK button. The Reception settings menu will open up.

Choose your region by pressing LEFT/RIGHT. If you have connected and active antenna and you want to run the antenna without its original power supply set the "Enable 5V for active antenna" option to "On".

Press the OK button to save your settings.

Automatic Scan of Services

How to use > Press MENU -> 'Setup' -> 'Service Searching' -> 'Automatic Scan'

The easiest way to scan services is to use Automatic Scan. In the Automatic Scan menu, there are two options to choose from as below.

Clear Before Scan: YES is used when you want to delete the existing channel list before you start the automatic scan. If you want to keep the existing list, select NO.

Press OK to activate the automatic scan. This will take some minutes. As the scan proceeds, you will see the progressive bar and the newly found services underneath.

Manual Scan of Services

How to use > Press MENU -> 'Setup' -> 'Service Searching' -> 'Manual Scan'

If you know well enough to configure each exact setting required for manual search of services, you can do manual scan as well. There are many parameter values that you need to decide as below.

Amongst other things, the below parameters are what you need to decide prior to performing manual scan.

- ① Tuner: You need to decide which tuner you want to use for manual scan.
- ② System: Here you have two options between DVB-S (SD) and DVB-S2 (HD).
- ③ Frequency: You need to enter the exact frequency of the transponder that you want to scan.
- ④ Symbol Rate: You need to enter the exact symbol rate of the transponder that you want to scan.
- ⑤ Polarity: Here, you have options for Horizontal, Vertical, Circular Left and Circular Right.
You need to know the polarity of the transponder that you want to scan.
- ⑥ FEC (Forward Error Correction): You need to enter the exact FEC value of the transponder that you want to scan.
- ⑦ Modulation: Here you have two options for QPSK (SD) and 8PSK (HD).
- ⑧ Network Scan: Here you have two options for YES and NO. NO is used to scan the transponder (TP) based on the data that your UNIBOX HD ECO+ currently has. YES is used to scan the TP not just based on the existing TP data but also using new TP data, if there is TP data newly transported from the TP. Naturally, YES option takes longer while it may results in a better scan result.
- ⑨ Clear Before Scan: YES is used when you want to delete the existing channel list before you start the automatic scan. If you want to keep the existing list, select NO.
- ⑩ Only Free Scan: Here you have two options for YES and NO. You want to scan only Free to Air channels without any encryption, select YES. Otherwise, select NO to scan all FTA and CAS channels.

Press OK to activate the manual scan. This will take some minutes. As the scan proceeds, you will see the progressive bar and the newly found services underneath.

5.3.3. Checking CAM

How to use > Press MENU -> 'Setup' -> 'Common Interface'

To be able to watch CAS channels, you need to have a proper CAM and a Smartcard. UNIBOX HD ECO+ is integrated with two Common Interface slots. If you have two CAM modules and keep them inserted in your UNIBOX HD ECO+, it will reduce the trouble of changing CAM.

If you have inserted one or two CAMs, you can check the information of the inserted CAMs, through this menu as below:

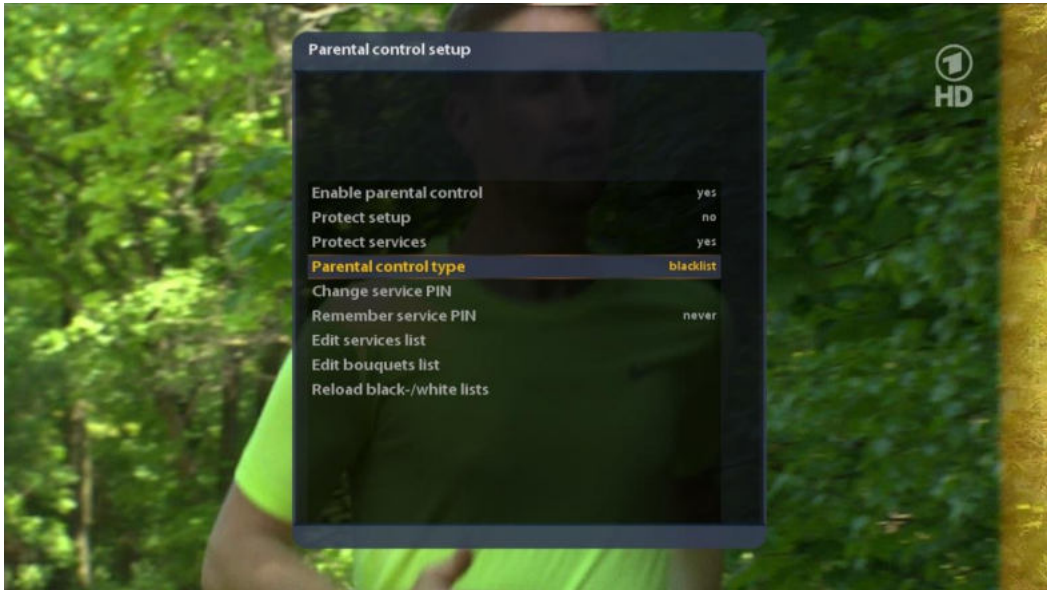
5.3.4. Parental Control

How to use > Press MENU -> 'Setup' -> 'Parental Control'

If you want to prevent certain channels from being accessed by others, you can do so using this menu.

① Go to Parental Control menu by pressing

MENU > Setup > Parental Control.



② Set the parental control option at YES using LEFT/RIGHT key. The menu will change as below.

- Protect setup: If you set this option at YES, you will be asked to enter PIN code when you enter this Parental setup menu.
- Change setup pin: If you want to change the existing PIN code for Parental setup, you can do so using this menu.
- You need to enter a new PIN code twice.
- Protect services: You need to set this option at YES, if you want to lock certain channels with PIN code.
- Parental control type:

This option will be activated only if you set Protect services at YES. Here there are two options:

- White list: This option is used to block all channels except those channels in the parental control list.
- Black list: This option is used to block only those channels included in the parental control list.

- Change service pin: Here you can define a PIN code required to change services to be included in the parental control list.

NOTE: PIN code here is used for Change service and thus you are recommended to use a PIN code different from that used for Protect services.

- Edit service list: Here you can add services that you want to lock with PIN code. Services will be arranged in the alphabetical order and you can select an alphabet to enter into the list where you can find the channel that you want to lock.

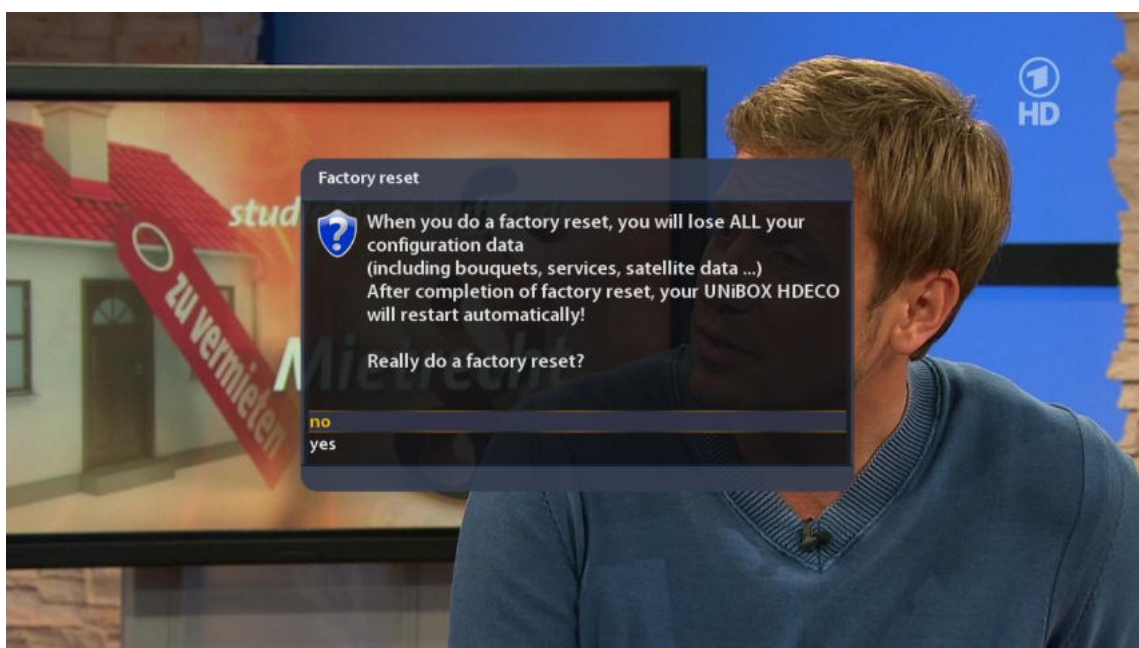
Once the selected channel is locked, next time when you or anyone else wants to tune into this service, the menu asking for PIN code.

NOTE: It is very important not to lose this PIN code.

5.3.5. Factory Reset

How to use > Press ->'Setup' ->'Factory Reset'

If you want to erase all installed service list as well as all configurations, run the Factory Reset process. Select YES in the below menu to run the factory reset.



Upon the completion of factory reset process, your UNIBOX HD ECO+ will reboot automatically and start the First Time Installation process.

NOTE: If you do this factory reset, all of your configuration data including bouquets, service lists, satellite parameters, and so on will be erased.

5.3.6 Checking H/W & S/W Information

How to use > Press MENU -> 'Information'

If you want to check the H/W or S/W system of your UNIBOX HD ECO+, this is the menu that you need to use. Also, here you can check very detailed information of a specific service.

Service Information

How to use > Press MENU ->'Information' -> 'Service'

In this menu, you can see all the parameter data of the current channel. The service information is well arranged in four sections as below:

- Service info
- PIDs
- Transponder
- Tuner Status

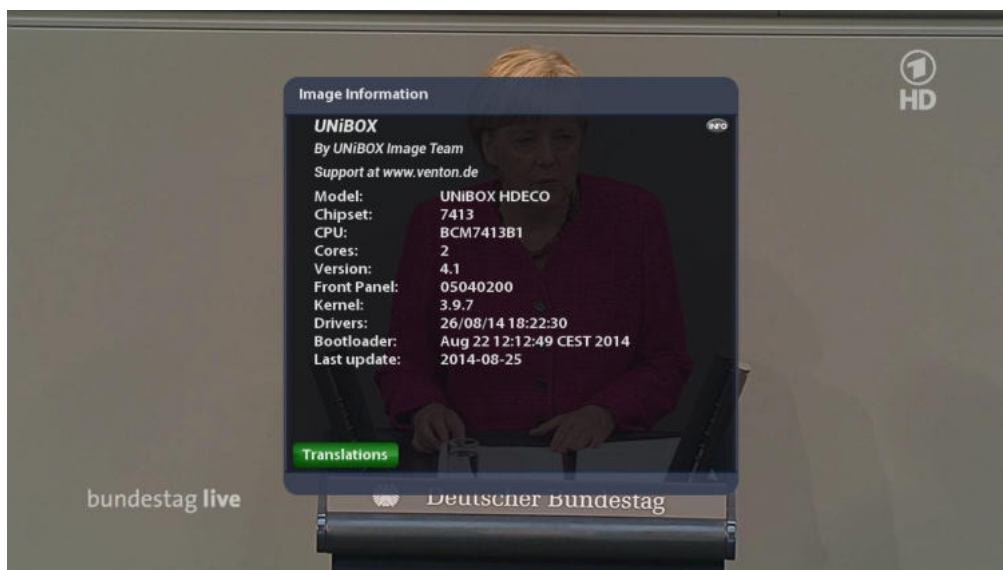


System Information

How to use > Press MENU -> 'Information' -> 'About'

This menu is for you to check the current system of your UNIBOX HD ECO+. You can see the following information:

- ① S/W version
- ② Detected NIMs for both Tuner A & B
- ③ Detected HDD



6. Menu Structure

Main Menu				
1st level	2nd level	3rd level	4th level	5th level
Media Player	File browser	N/A	N/A	N/A
Timer	Timer Editor	N/A	N/A	N/A
File Browser	N/A	N/A	N/A	N/A
Information	Service	Service Informations	N/A	N/A
	About	About	N/A	N/A
Plugins	Plugin browser	N/A	N/A	N/A
Setup	System	A/V Settings	A/V Setup	N/A
		Video	Video	N/A
		enhancement settings	Enhancement Setup	
		Customize	Setup	N/A
		Record	Setup	N/A
		Subtitle settings	Setup	N/A
		Display Setup	Setup	N/A
		Auto language selection	Setup	N/A
		Harddisk	Harddisk setup	Setup
			Initialization	Select HDD
			Filesystem	Select HDD
			Check	

			Convert filesystem ext3 to ext4	Select HDD
		Network	Network Configuration	N/A
		Input devices	Select Input	Input Devices
		Keyboard	Device Setup	Setup
		Recording paths	Recording Paths Setup	N/A
		Language	Language Selection	N/A
		Timezone	Setup	N/A

		HDMI-CEC	HDMI-CEC	N/A
		Setup	Setup	
		Skin	Choose Your Skin	N/A
	Service Searching	Video Fine-Tuning	Brightness	Contrast
		Tuner configuration	Select Tuner	Tuner Settings
		Automatic Scan	Service Searching	N/A
		Manual Scan	Service Scan	N/A
		Positioner setup	N/A	N/A
		Satfinder	Satfinder	N/A
	Common Interface	Slot1	N/A	N/A
	Parental control	Parental control setup	N/A	N/A
	Factory reset	N/A	N/A	N/A

	Cross EPG	Configure	N/A	N/A
		XMLTV providers	N/A	N/A
		OpenTV providers	N/A	N/A
		XEPGDB providers	N/A	N/A
		Scripts providers	N/A	N/A
		MHW2 providers	N/A	N/A
		Providers start order	N/A	N/A
		Update RYTEC providers	N/A	N/A
		Update XEPGDB providers	N/A	N/A
		Download now	N/A	N/A
		Force CSV import now	N/A	N/A
		Force EPG.DAT conversion now	N/A	N/A
		Force EPG reload	N/A	N/A

		Info about database	N/A	N/A
		About	N/A	N/A
	OSD 3D Setup	3D mode Setup	N/A	N/A
	Software management	Manage extensions	Extensions management	N/A
		Software update	N/A	N/A
		Software update (Offline)	N/A	N/A

		Software restore	Image Wizard	N/A
		Backup system settings	Command Execution	N/A
		Restore system settings	N/A	N/A
		Install local extension	N/A	N/A
		Advanced Options	Advanced restore	Restore
			Choose backup location	N/A
			Choose backup files	Backup
			Package management	IPKG upgrade
			Choose upgrade source	Select IPKG source
Standby/Restart	Sleep Timer	Set Timer	N/A	N/A
	Standby	N/A	N/A	N/A
	Restart	N/A	N/A	N/A
	Restart GUI	N/A	N/A	N/A
	Deep Standby	N/A	N/A	N/A

7. Troubleshooting

Before you contact your local service center, please read the following tips carefully.

NOTE: If the antenna is covered with snow or the RF signal is weakened by heavy rain, the quality of audio and video may become temporarily poor. If you experience poor audio and video quality due to bad weather conditions, please check if your satellite antenna is oriented in the original direction. And see if it is covered by snow. Also, check if your LNB is not damaged.

1. No Video on TV

- Check first if the product is powered on and in operation mode.
- Check if the video cable is properly connected between TV and UNIBOX HD ECO+.
- Check if the satellite cable is properly connected to UNIBOX HD ECO+.
- Check if the selected channel is currently on air.
- Check if the selected channel is encrypted and if you have a corresponding access smartcard.

2. Problem with audio quality

- Check if your audio cable is connected correctly.
- Check the volume level of your TV and the product.
- Check if the product or TV is on mute.
- Check the audio option if it is correctly selected for the program that you are currently watching.

3. Remote control problem

- Check if the batteries are correctly mounted.
- If your remote control has been used for long, change the batteries.
- Point the remote control directly toward the product.
- Make sure that nothing blocks the front panel display.

4. Channel search problem

- Make sure if tuner configurations are all correctly made.
- Check if the antenna cable(s) are properly connected.

5. Encrypted channel viewing problem

- Check if you have the appropriate Smartcard and/or CAM.
- Take the Smartcard and CAM out and re-insert them to re-initialize.

- Check if your system correctly detects the smartcard and CAM.

6. Recording problem

- Check if the HDD has a sufficient space for recording.
- Check if there is a conflict between recording timers.

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