



Combo 4K UHD

User Manual



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1. INTRODUCTION

1.1 Safety Instructions

The Anadol COMBO has been designed and manufactured in compliance with EU consumer safety requirements (CE).

Please read the following safety precautions carefully

1. Connecting Power

- This product operates only in the range of AC 100V~250V and 50Hz/60Hz. Please check first your power supply to see if it fits this range.
- Please be noted that you need to disconnect from the mains before you start any maintenance or installation procedures.
- Make sure that the power cord is placed in a position where it is easy to unplug it from the mains in an emergency.

2. Overloading

- Do not overload a wall outlet, extension cord or adapter as this may cause electrical fire or shock.

3. Liquid

- This product is not water-proof and should not be exposed to dripping, splashing, or any type of liquid.
- No objects filled with liquid such as base shall be placed on the product.
- Please do not clean the product with wet cloth, which may cause a short circuit.
- No wet objects should be placed near the product.

4. Ventilation

- Allow a sufficient space between the product and other objects to make sure air ventilation of the product.
- Do not block the top or rear of the product with an object, which will close the ventilation holes and lead to a high temperature of the system. This may cause a failure of the product.
- Do not stack other electronic devices on top of the product.
- Do not insert any kind of pointed objects like screw, gimlet, etc. into the ventilation holes of the product. This will damage the product.

5. Connecting the Coax Cable.

- Disconnect the power of the product before you connect the coax cable to the product. Otherwise, it may cause damage to the receiver.

6. Grounding

- The coax cable and by use of a LNB it must be earthed to the system.

7. Location

- Place the product indoor.
- Do not expose the product to rain, sun or lightening.
- Do not place the product near any heat appliances as a radiator or fireplace.
- Ensure that there is more than 10 cm distance from any electrical devices & wall.

8. Lightening, Storm or Not In Use.

- Unplug the product and disconnect the antenna cable during a thunderstorm or lightening, especially when left unattended and unused for a long period of time. This will prevent possible damages from power surges or lightening.

9. Replacement of Parts

- Unauthorized part replacements, especially by one who is not a qualified technician may result in damage to the product.
- Ensure that when part replacements are necessary qualified technicians perform the task using the components specified by the manufacturer.

10. Hard Disk Drive

- Do not move the product or turn the power off suddenly while the Hard Disk Drive (HDD) is still running. This may result in damage to the HDD and thus the system.
- The company shall not be liable for any corruption of data on the HDD caused by careless use or misuse of users.

11. Battery

- There is danger of explosion if batteries are incorrectly replaced.
- Replace batteries only with the same or equivalent type.



Disposal "WEEE" Symbol instructions

This product should not be disposed with other house hold wastes at the end of its working life. Please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. This will help prevent harm to the environment or human health from uncontrolled waste disposal.

1.2 Packaging Contents

User Manual



Remote Control



Charger



HDMI Cable



using your product.

Please check all package contents before

- Anadol COMBO 4K UHD E2 Linux Combo Receiver
- Remote control
- Batteries
- HDMI cable
- Power adapter
- User manual
- 2x USB Wifi Sticks with Antenna for Receiver

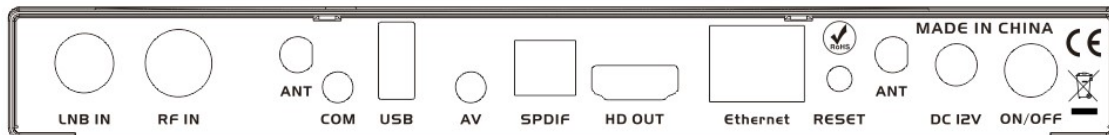
* The accessories may vary according to area.

1.3 Product Descriptions

Front Panel



Rear Panel



Tuner DVB-S2 (LNB IN) & DVB-C/T2 (RF IN)

AV

Connect to a composite (Yellow) Video and or digital Stereo audio (red/white) system.

Optical

Connect to a digital audio system using S/PDIF cable.

HDMI

Connect to TV using a HDMI cable for both audio and video signals.

USB 2.0

Connect ion for USB2.0 devices like Wifi N stick, smargo cardreader and USB memory stick..

USB 3.0

Connect ion for USB3.0 devices like external USB HDD and WIFI AC sticks.

ETHERNET

1 Gbit Ethernet, connect with a rj45 cable (cat5/6) to the router or direct to the internet.

DC IN 12V 2A

Connect the provided AC/DC adapter (2A@12V)

1.4 Conditional Access and Common Interface

Amongst the channels that are scanned via Anadol COMBO, some channels can be properly tuned in only with the corresponding Smartcard. The Anadol COMBO provides one Smartcard Reader. Users need to purchase the Smartcard required for viewing subscription based services.

Insertion of Smartcard

The smartcard is placed with the chip facing below.

Make sure that the Smartcard remain inserted while viewing.

1.5 Main Features

- ARM quad-core
- Linux Operating System
- Media Player
- Downloadable Plug-ins supported
- Smartcard Reader
- Support 4K- 2160p
- MPEG2 / H.264 and H.265 Hardware Decoding
- HD HEVC / H.265 2160p60 Main-10 multi-format decoder
- Dolby HDR supported
- 8GB EMMC NAND Flash / 1024MB DDR Memory
- 100M Ethernet Interface
- USB 3.0 and USB 2.0
- HDMI 2.0
- Composite video with digital audio
- SPDIF for digital bit stream out (optical)
- EPG supported
- Automatic & Manual Service Scan supported
- Multiple LNB control (DiSEqC) supported
- Skin change supported
- Stable power adaptor (external)

1.6 Remote Control



Programmable Remote part

See here video: <https://youtu.be/sslmeWReRgM>

How to program for TV RCU button (Example : Power button) :

1. Press "Learn" button over 8 seconds then Power LED will be dark red.
2. Face to face for both RCU and press TV RCU's power button to program to STB RCU then Power button will blink.
3. Press Power button to learn
4. Main Power LED will blink 2 times
5. Press "Learn" button to memory.
6. Now ready to control TV as Power button.

STB part

1. POWER : To control STB power.
2. Mute : Mute of Audio
3. Snapshot : Capture TV screen
3. Resolution : Change resolution of 720p,1080i,1080p,2160p.
4. Ratio : Change Ratio of 4:3, 16:9
5. Menu : To get Sub menus.
6. Exit : Exit or Back.
7. EPG : Electrical program Guide
8. INFO(i) : Information for TV channel
9. Vol +, - : To increase/decrease volume
10. CH +, - : To change channel
11. Home : Go Android Home
12. Mouse : Change Mouse mode.
13. TV : Go TV mode/Radio mode
14. Rewind : Rewind Media
15. Play/Pause : Pause/Play Media
16. Fast Forward : Fast Forward
17. Fav : Active favorite menu
18. Ter/Sat : Change Group mode for Terrestrial/Satellite Channels
19. F1/F2 : function button to load SW key functions.
20. Sleep : Call timer to sleep device.
21. Timer : Call timer to record.

22.Color key: Operate different function in TEXT Screen

1.7 Technical Data

1.7.1 Basic Features

ITEM	SUB-ITEM	Remark
Receiver Size	LxWxH	300x210x45 mm
Reliability	Operating Temp.	0~45°C
	Relative Humidity	10% ~ 80% (non-condensing)
RF Reception	Terrestrial DVB-S	950Mhz~2150Mhz
	Terrestrial DVB-S2	DiSeqC 1.2
	Number of RF Input/output terminal (75 Ohms F-Type)	SAT-IN 1
IO Features	Power Indication	(Red=Deep-Sleep) (Clock=Standby)
	Network activity Indication	Yes (Rear)
	Ethernet	Yes (1Gbit)
	HDMI output	576p, 720p, 1080i, 1080p, 2160p
	USB 3.0	Yes (Rear, 1 port)
	USB 2.0	Yes (Rear 1 port and Side 1 port)
	Smart Card Slot	1 slot (Side)
	Optical Output	PCM / Dolby Digital
	Power Supply	AC-DC Adaptor (12V/2.0A)
Accessories	RCU	Yes
	HDMI Cable	Yes
	SCART cable	No
	LAN cable	No
	AC Adaptor (+12V/2A)	Yes
	Battery (AAAx2)	Yes
	User Manual Guide	Yes
Gift box	Paper box, colored design	
Packaging		

1.7.2 Basic Functions

	Functions	PVR Ready STB
Solution	CPU	ARM Quad-core
	RAM	1024MB
	ROM	eMMC NAND 8GB
	OS	Linux version >4.0
Audio Decoder	Dolby Digital (AC3)	Yes
	MPEG-1 L1/L2/L3	Yes
	MPEG-2 AAC	Yes
	MPEG-4 HE-AAC	Yes
	WMA	Yes
	Digital multi-lingual	Yes
	DTS	Yes
Video Decoder	MPEG-1	Yes

Functions		PVR Ready STB
	MPEG-2	MP@HL
	VC-1	AP@L3
	H.264	HP@L4 (1080p 30fps)
	H.265	2160p 60fps
	WMV9	MP@HL
	XVID	XVID Highdef (HD)
Video Display	16:9, 4:3 Monitor Selection	Yes
	Aspect ratio control	Yes
	576i/576p/720p/1080i/1080p/2160p	Yes
Control I/F	Front keypad	1Key – Power
	RCU	Yes
AV Input/ Output	Composite video (CVBS) output	Yes
	SCART output	No
	S-video output	No
	Component video (YPbPr) output	No
	HDMI output	x1
	Stereo L/R audio output	Yes
	Stereo headphone output	No
	SPDIF optical output	Yes
Ethernet	RJ45	x1
Network	1 Gbit	Yes
	Wi-fi (802.11 n/ac)	By USB (optional)
	DHCP, Static IP	Yes
	PPPoE	Optional
Other Functions	Volume & Mute Control	Yes

2. INSTALLATION OF ANADOL COMBO

This chapter will guide you through the installation process of the Anadol COMBO. Please read each section carefully to make sure that the system runs properly.

2.1 Connecting the TV

The Anadol COMBO provides a variety of audio/video connection methods.

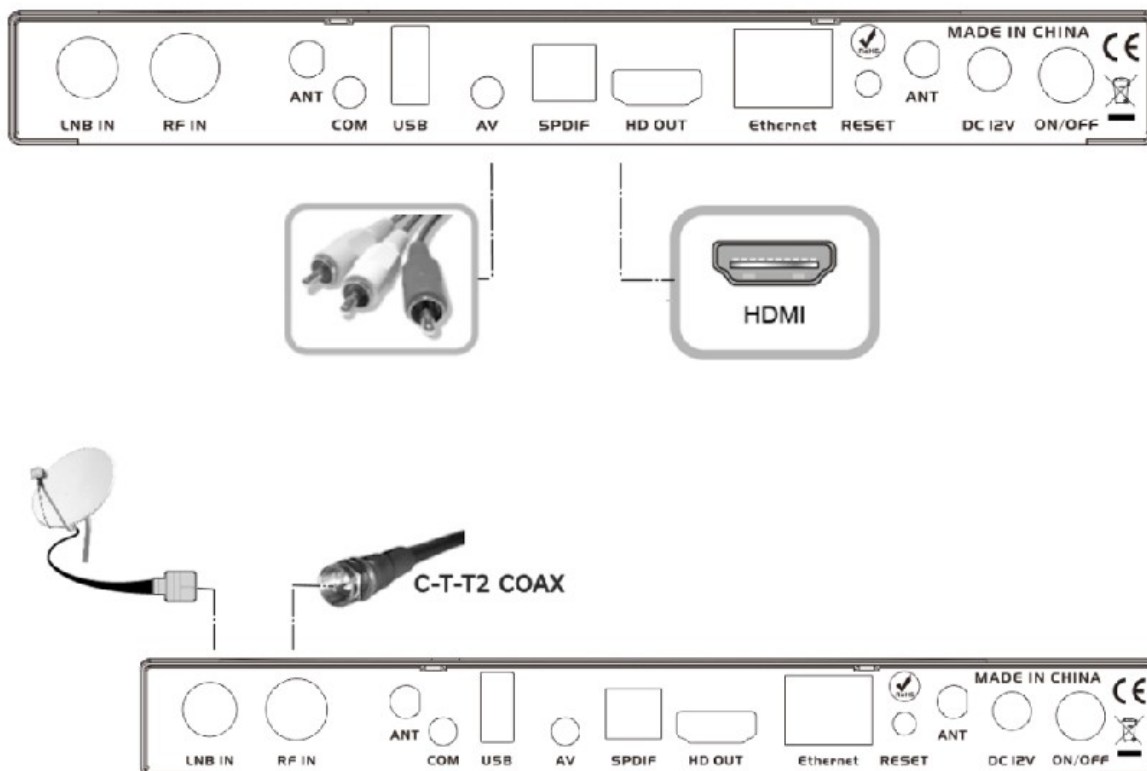
For the best quality we recommend to use HDMI.

You should configure audio and video settings after connecting up the digital receiver.

2.1.1 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. At the rear panel of Anadol COMBO there is one HDMI connector available. Connect your TV to the Anadol COMBO using a HDMI cable as shown on the picture.

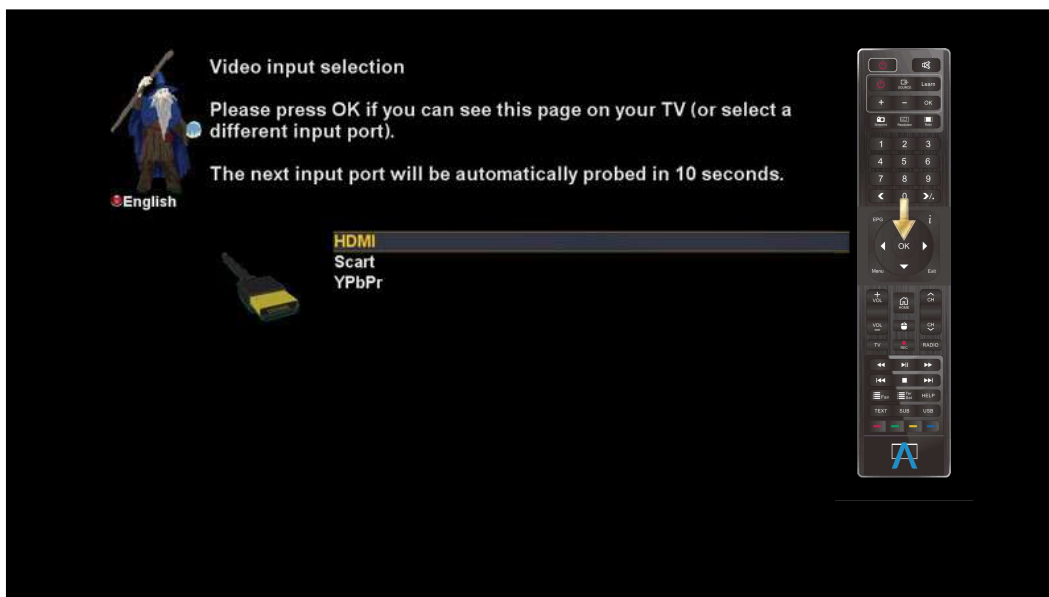


3. FIRST TIME INSTALLATION (USING WIZARD)

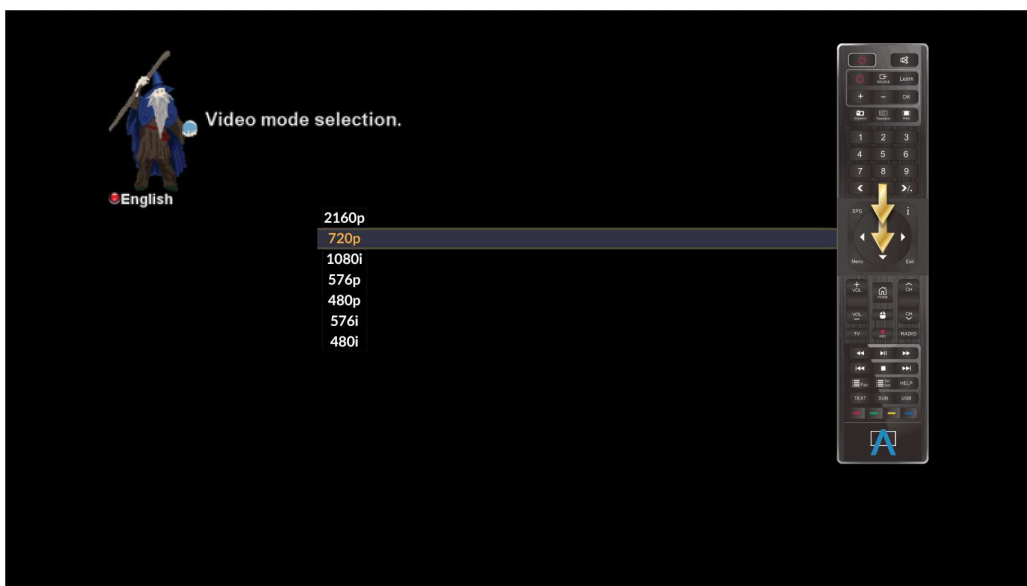
When you turn on Anadol COMBO for the first time after purchase, an installation wizard starts this you can follow step by step.

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

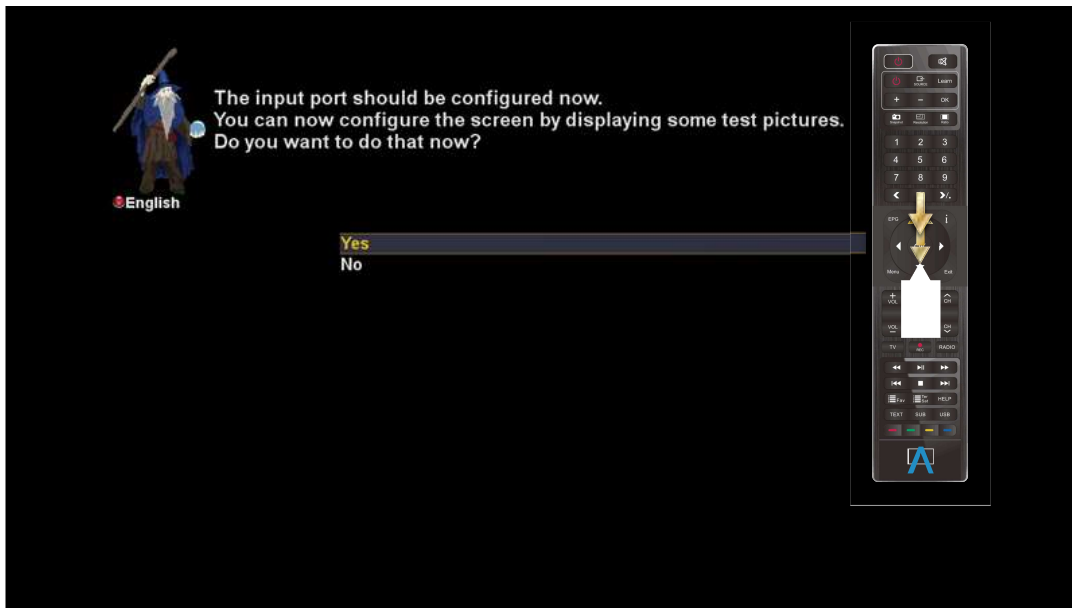
3.1 Video Input Selection



3.2 Video Mode (Resolution) Selection



3.3 Screen Configuration



In this step, you can adjust brightness and contrast of Anadol COMBO video output.

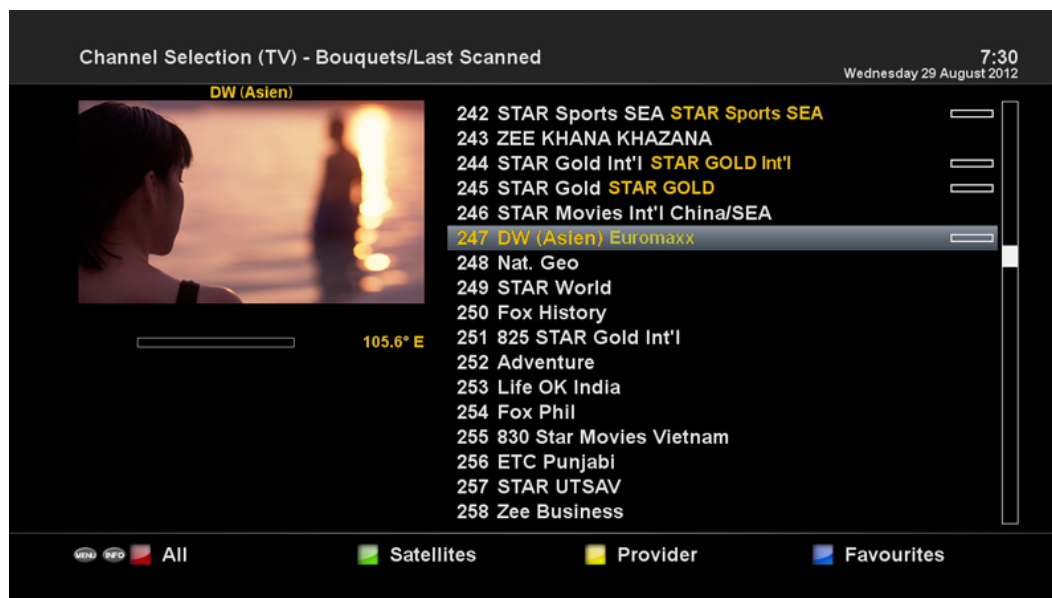
3.4 Language Selection

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



4. BASIC OPERATIONS

4.1 Switching Channels



[i: Press ▲/▼, CHANNEL +/- key / Press ◀/▶ to move to the next channels]

Anadol COMBO 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 + or - key, this will call up the Channel Selection menu.

- 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.

In order for you to add certain channels to this Favourites list,

- 1 Call up the Channel Selection list by Pressing UP or DOWN key.
- 2 Go to the list of All channels by pressing RED.
- 3 Select the channel that you want to add to the Favourites list.
- 4 Press MENU key on the selected channel and channel list menu appears.
- 5 Choose "add service to bouquet" and press OK.
- 6 Select "Favorites" and press OK.

7 Go to the Favourites list by pressing BLUE to confirm that the selected channel is correctly included in the list.

4.2 Volume Control

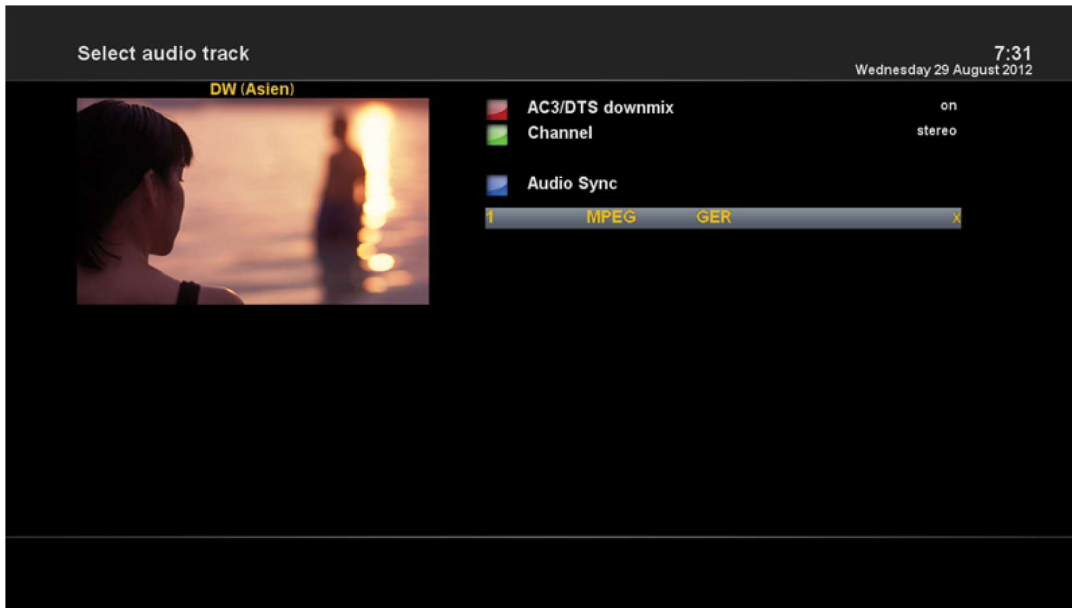


[i: Press VOLUME +/- key.]

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

Mute icon is on when the audio is muted.

4.3 Selecting Audio Track



[i: Press AUDIO key]

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.

4.4 Subtitle



[i: Press Audio key after it yellow key]

You can view the subtitle of the current program if the program provides the subtitle. Press SUBT key, 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.

4.5 Teletext



[i: Press TEXT key]

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 (MUTE) key instantly. In this case, loading of the Teletext page takes place instantly.

- VOLUME +

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

- VOLUME -

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

4.6 Program Information

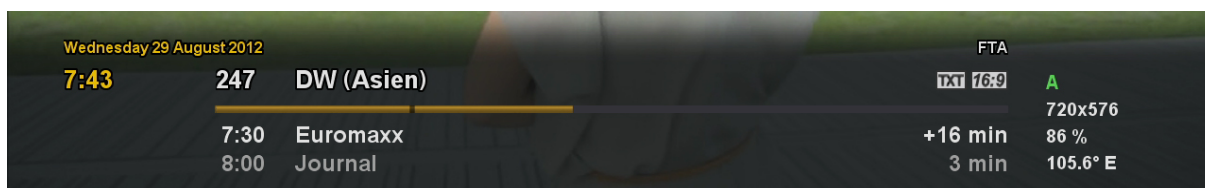


[i: Press INFO key]

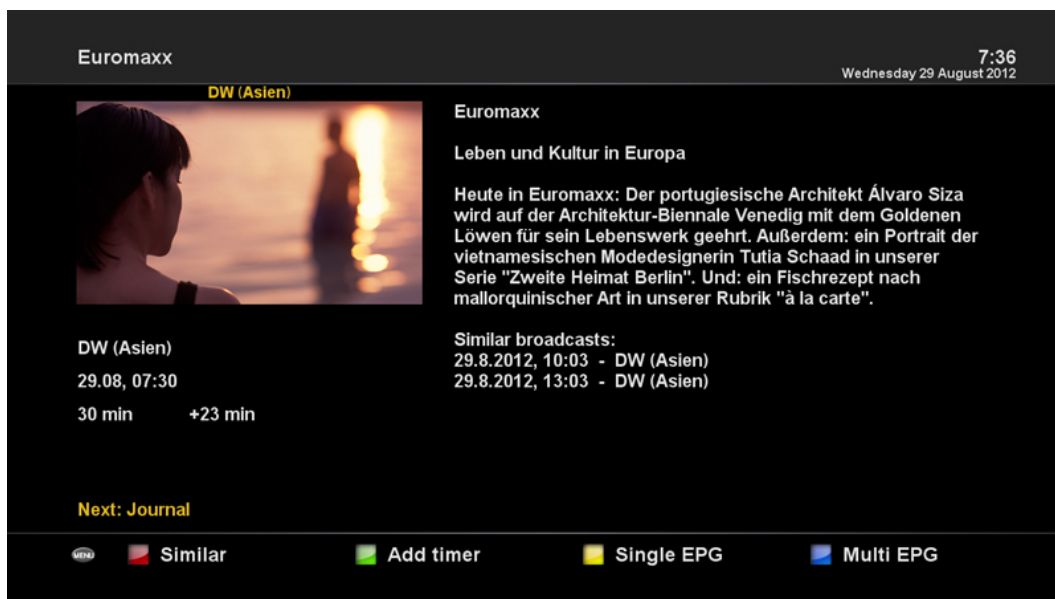
Whenever you change the channel, infobar is always displayed for 5 seconds (default setting). Infobar is designed to provide you comprehensive information of the channel that you are currently watching.

4.7 Info Bar

- Press OK to call up infobar.



4.8 Electronic Program Guide (Event View)



[\bar{i} : Press EPG 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 EPG key and the following menu, Eventview appears.

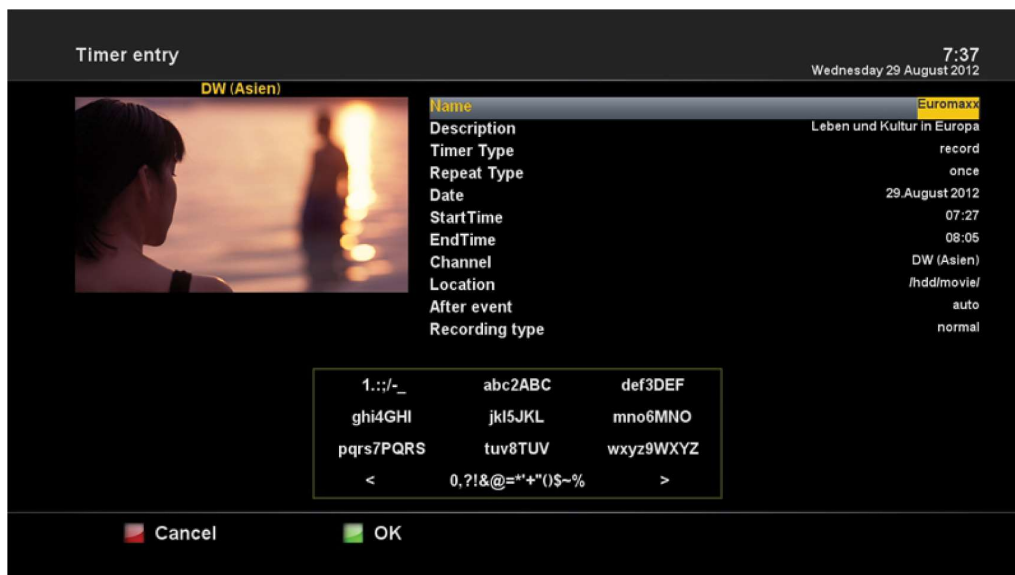
Detailed information of the current channel will be displayed on EPG. On this menu, three options are provided.

- 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 as below.

- GREEN (Add Timer)

If you press GREEN key, Timer entry menu appears as below. This option is used to set up 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).

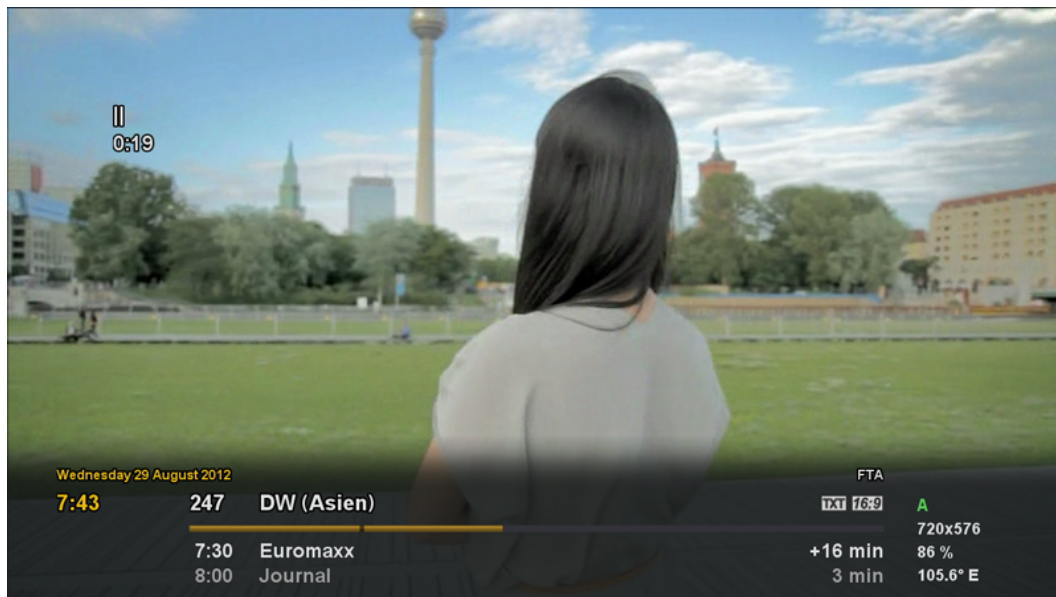
NOTE : Not all channels provide EPG information and thus in case of no EPG data, nothing will be displayed except for the channel name.

- 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.

4.9 Time Shift (only optional possible)



[i: Press  key]

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

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.

You will be asked of Yes or No to stop Timeshift.

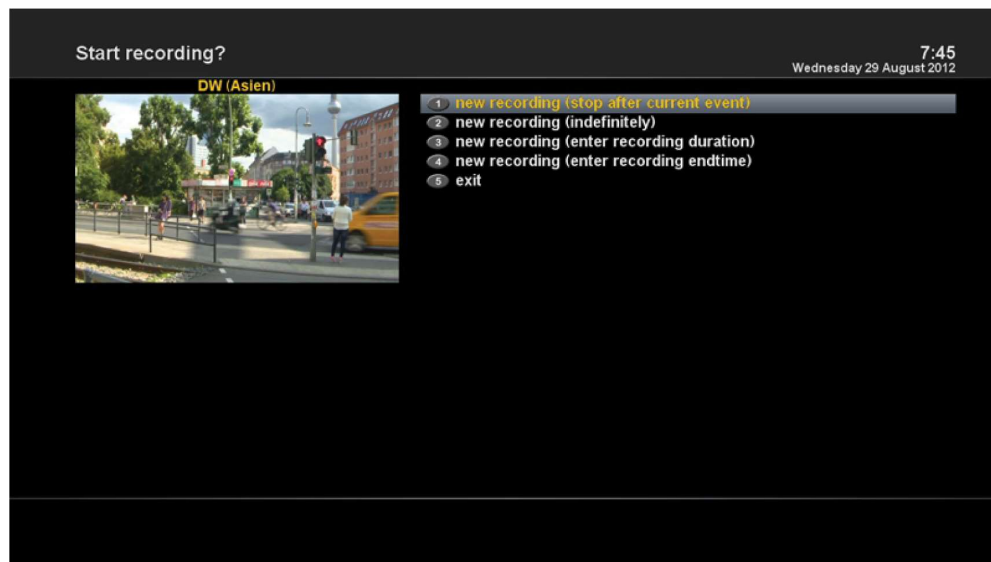
NOTE : What is different from normal recording is that Timeshifted recording is not meant to be stored on HDD. If you stop Timeshift, you cannot replay the Timeshifted recording.

Timeshift function is only optional.

4.10 Recording (only optional possible)

Anadol COMBO is a Personal Video Recorder (PVR is only optional possible) with an integrated DVB-S2 tuner. There are two ways to operate and manage recording. This Function is only optional.

1 Instant Recording



[i: Press REC key]

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 (indefinitely)

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

- 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:

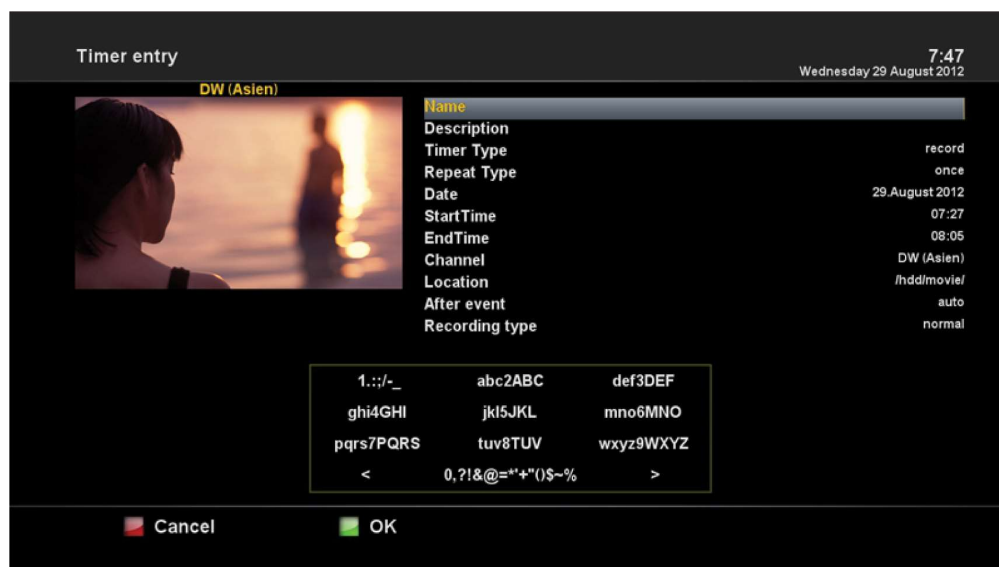
- Add recording (enter recording end time)

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

- Exit

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

2 Recording by Timer



[i: Press MENU key > Select Timer]

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.

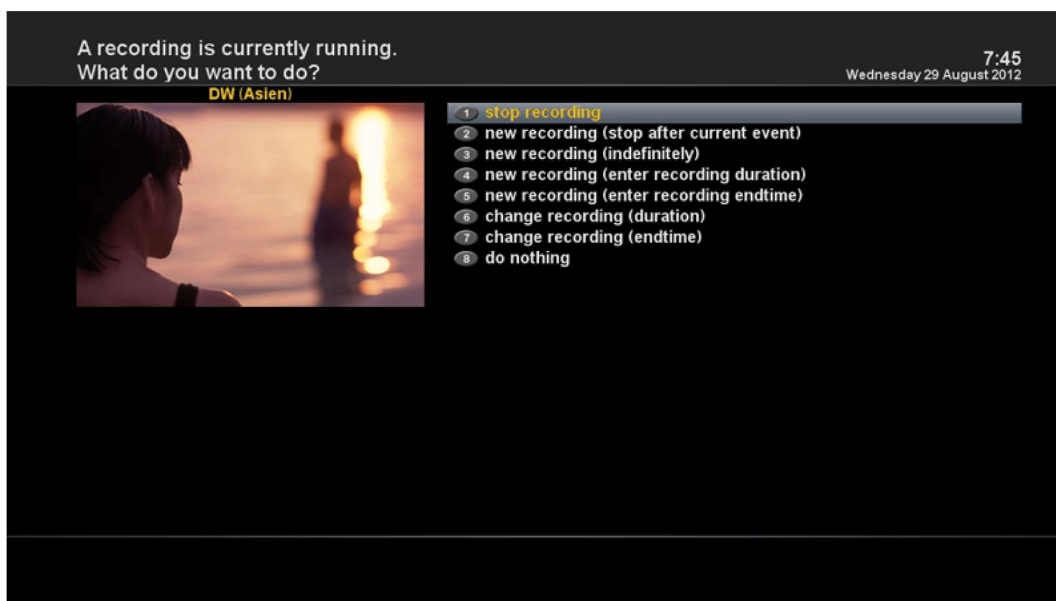
NOTE : if you want to enable the disabled timer, press YELLOW again.

- BLUE (Cleanup)

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

NOTE : Make sure that the HDD on your Anadol COMBO 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 [i : Press REC key > Select "Stop Recording"]



4.11 Recording Play



[i: Press FILE LIST key]

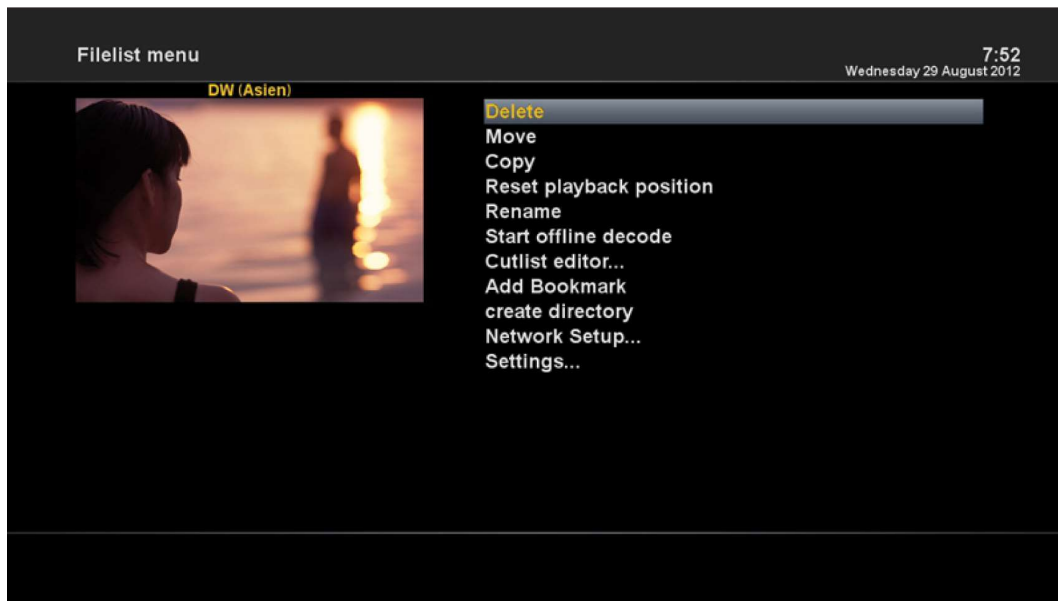
You can view recorded files on the Recorded files menu. Press FILE LIST to activate this menu.

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 Remaining time
- 3 Progressive bar
- 4 Elapsed time

4.12 Managing Recording Files

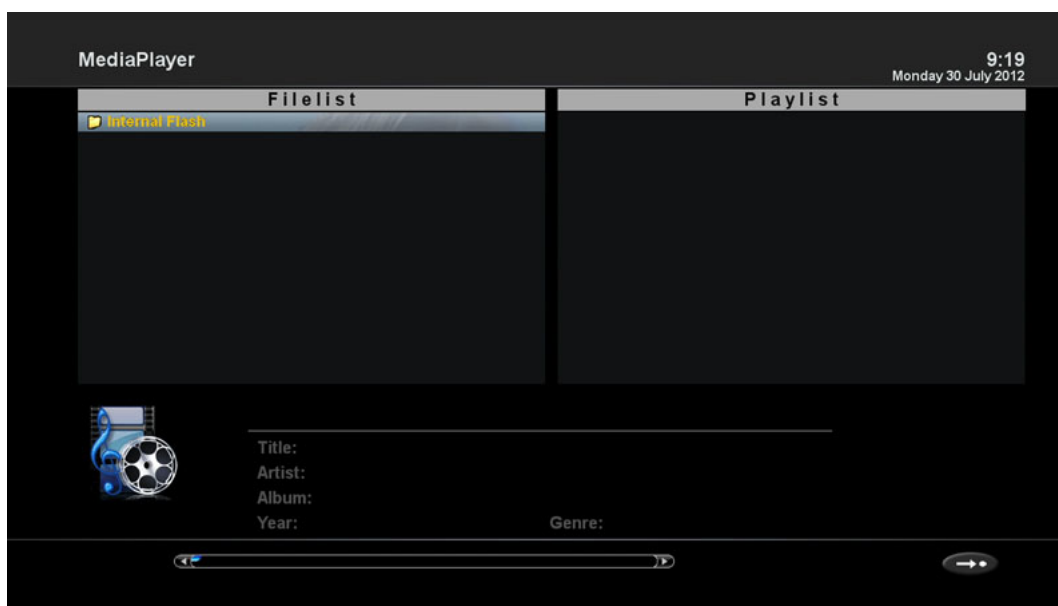


[i: Press FILE LIST key > Press MENU key]

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

Select "Delete" and confirm OK to delete.

4.13 Media Player



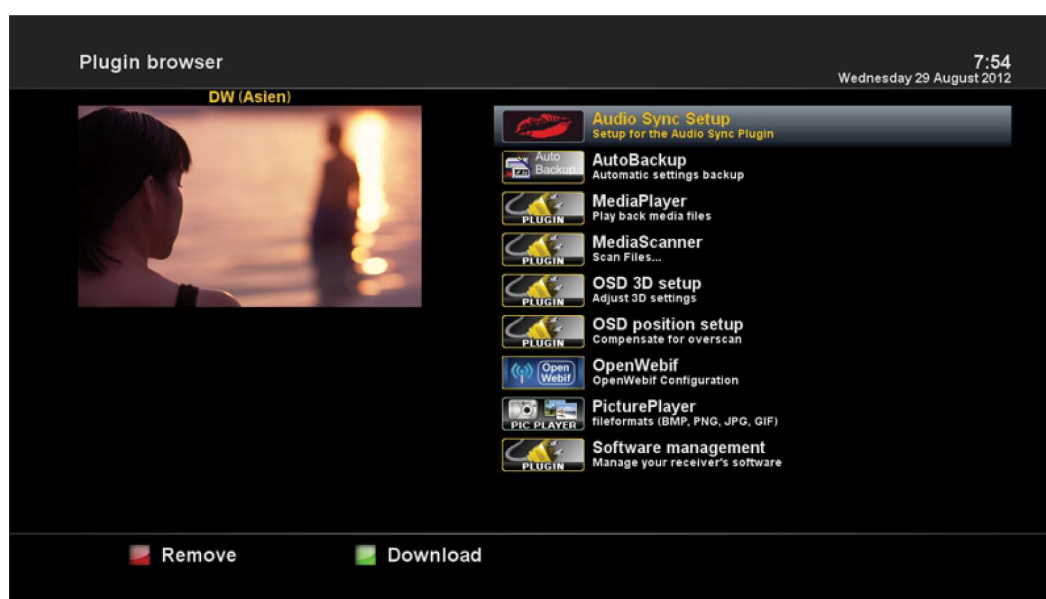
[i: MENU > Plugins > Media Player]

Anadol COMBO is a multimedia receiver capable of playing media contents. Using Media Player, you can enjoy Music, Photo and Video contents stored on the external HDD and/or a USB memory stick plugged into Anadol COMBO.

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
 - * Supported formats are mainly JPG, MP3, AVI, etc.
3. In the same way, you can play the recording files stored on the HDD.

4.14 Plugins



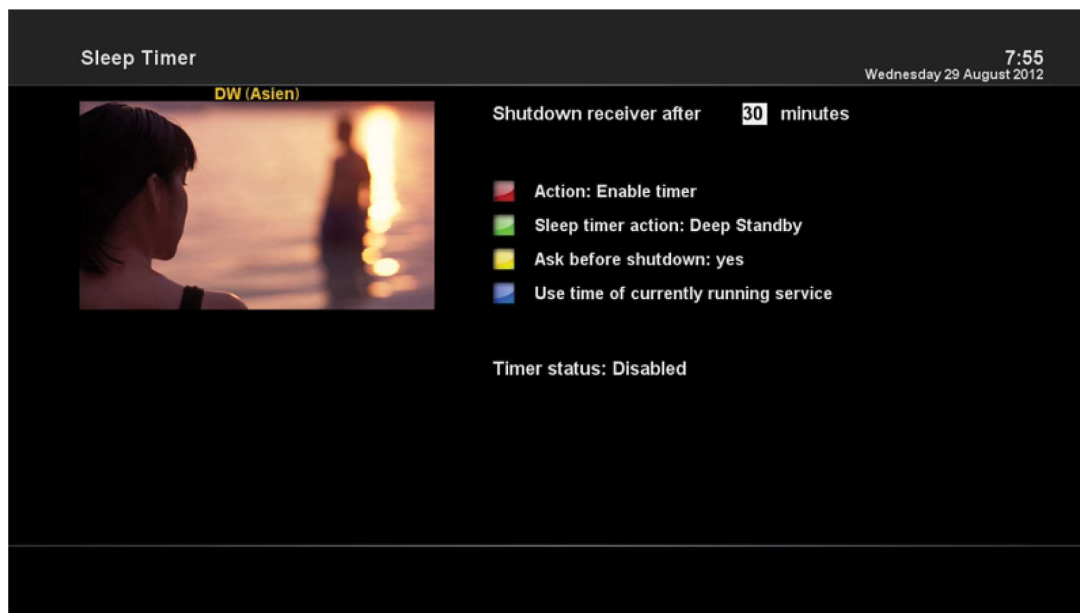
[*i*: MENU >Plugins]

Anadol COMBO is integrated with standard 10/100Mbps Ethernet with RJ 45 connector. You are recommended to use this network capability of Anadol COMBO to fully enjoy the system. If your Anadol's network connection is established, you can directly download plugins from from Openatv or from another image.

- 1 Press MENU and select Plugins menu to active Plugin browser.
- 2 Press GREEN key to download a list of plug-ins available.
- 3 Once the download is done, a list of plug-ins will be displayed.
- 4 Select a plug-in to download.
- 5 You can check if the download is done properly on the Plugin browser

From this site, you can check available plug-ins to download.

4.15 Sleep Timer



[i: MENU> Power Management > Sleep Timer]

You can set a specific time when your Anadol COMBO goes into Standby mode or Deep Standby mode, using this menu. Three color keys are used to set up this sleep timer.

1 RED

This option is used to enable or disable Sleep Timer.

2 GREEN

This option is used to choose between Standby mode and Deep Standby mode.

3 YELLOW

This option is used to choose whether to be asked of confirmation before system shutdown.

3 BLUE

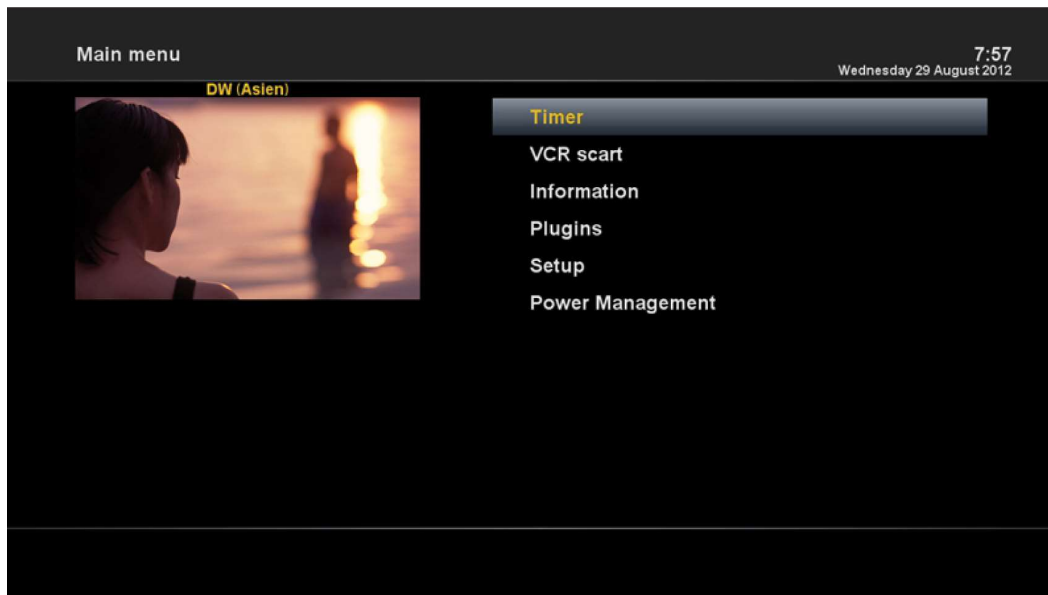
This option is used to use time of currently running service.

5. MENU

5.1 Main Menu

Anadol COMBO is a very sophisticated device designed to allow users a variety of System Settings options as detailed

as possible. You can fine-tune your Anadol COMBO to be your own system to fit your taste. This chapter will guide you through the entire menu of system configuration.



[i: Press MENU]

The main menu of Anadol COMBO consists of the following sub menus.

- **Timer**

Enables you to reserve program watching and recording.

- **Information**

Has two sub menus for Service / About. 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 Anadol COMBO. For more information, please refer to the Information section.

- **Plugins**

Activates Plugin browser of Anadol COMBO. Using this browser, you can log onto the designated website and you can download a variety of new plug-ins.

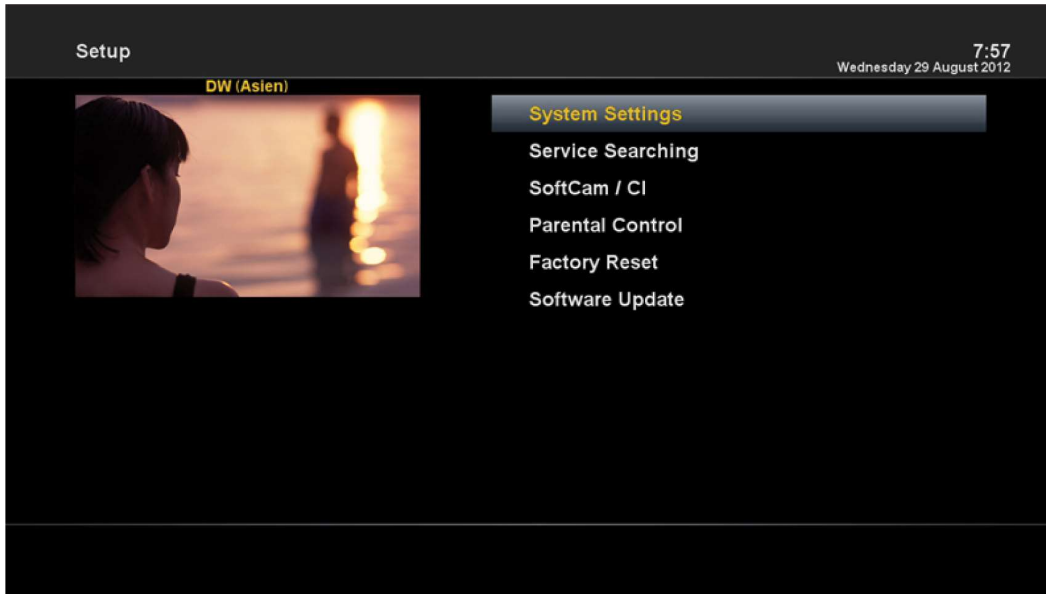
- **Setup**

Provides all of the System Settings. For more information, please refer to the next section.

- **Standby / Restart**

Provides options for power on/off and sleep timer. For more information, please refer to the **Power On/Off** section.

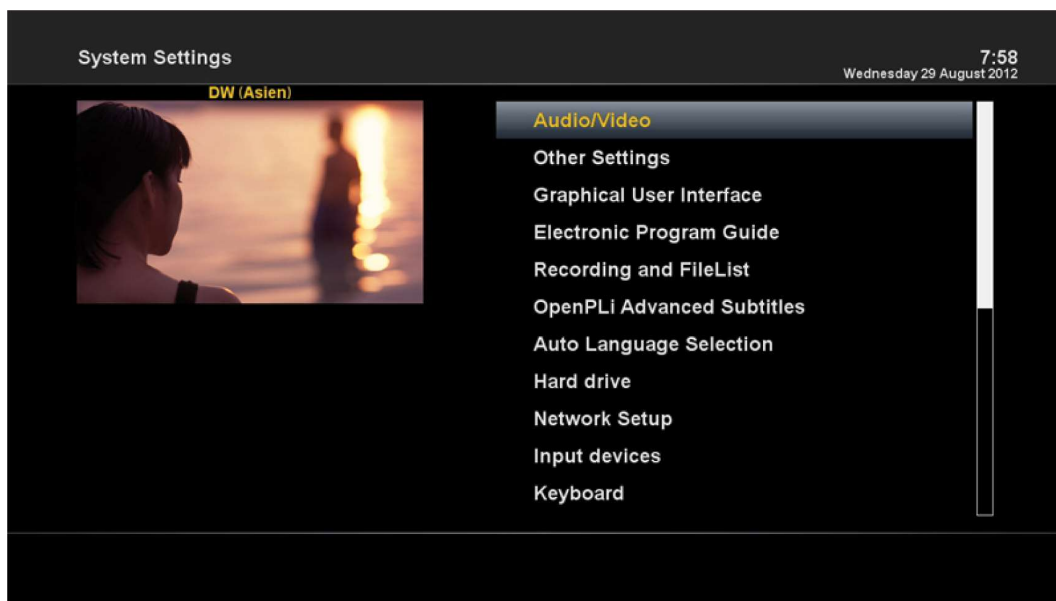
5.2 Setup



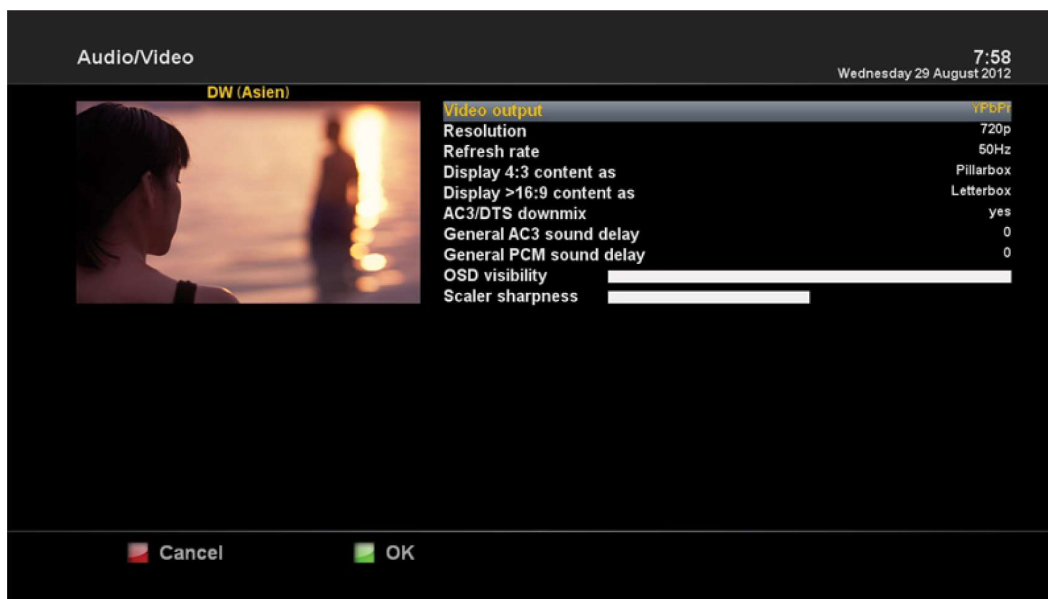
Setup menu consists of the following sub-menus.

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

5.2.1 System Setting



5.2.1.1 Audio/Video



[f: MENU> Setup > System Settings > Audio/Video]

Here you will find options necessary to set up the audio and video configuration of your Anadol COMBO.

NOTE : RED is for cancel and GREEN is for 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 Anadol COMBO. The available options are as below.

- HDMI

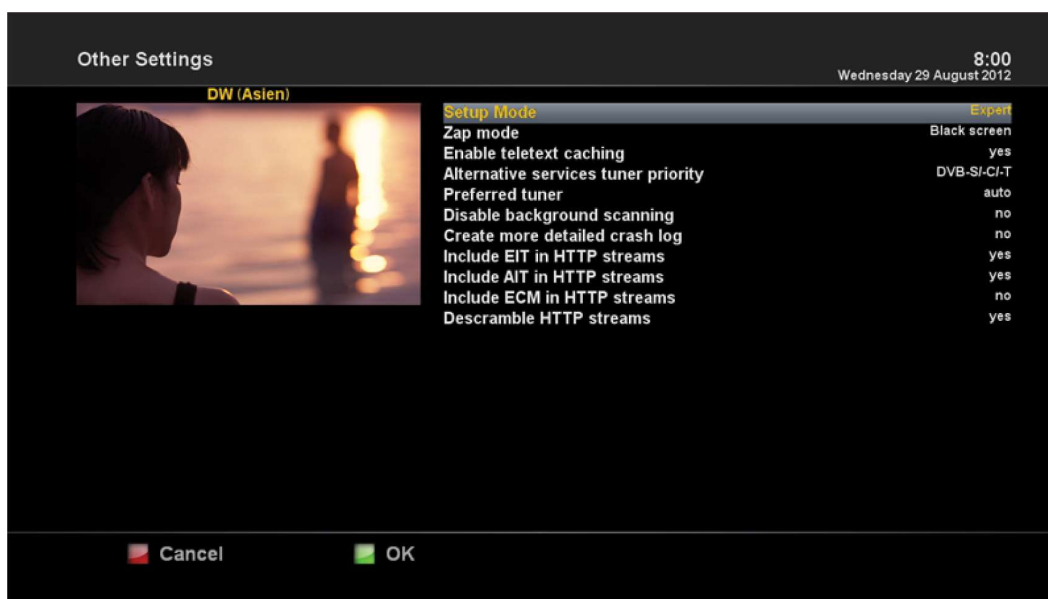
2 Resolution

You need to decide which resolution to use.

3 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 select and your system doesn't support passthrough/raw data audio, then it can been possible that on some channels that there is no audio. Like if the program that you are watch provides AC3 only. This option is only recommended when you use S/PDIF connection.

5.2.1.2 Other settings



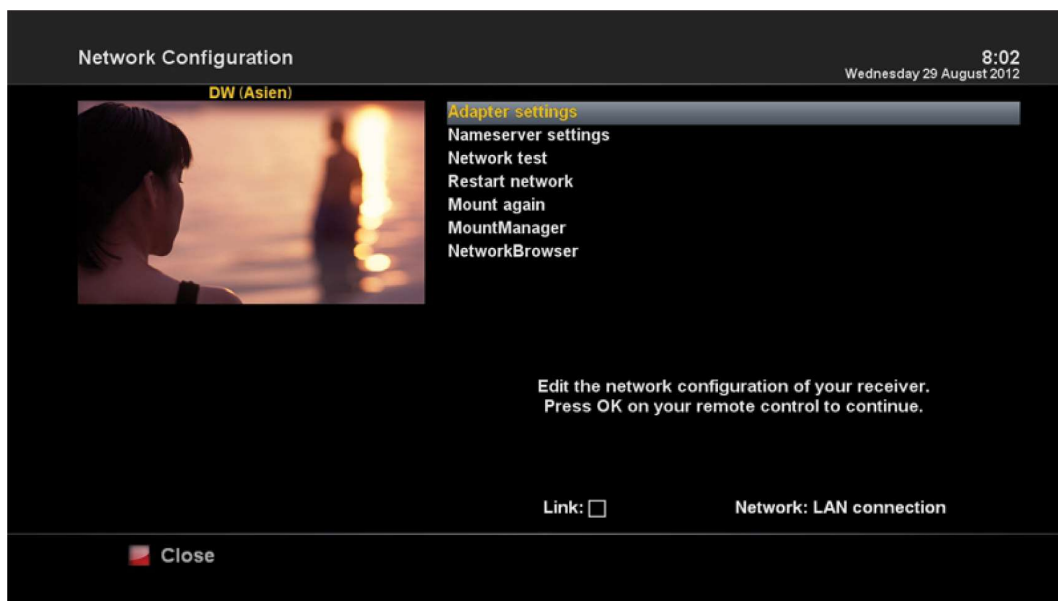
[f: MENU > Setup > System Settings > Other Settings]

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 for 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.

5.2.1.3 Network Setup



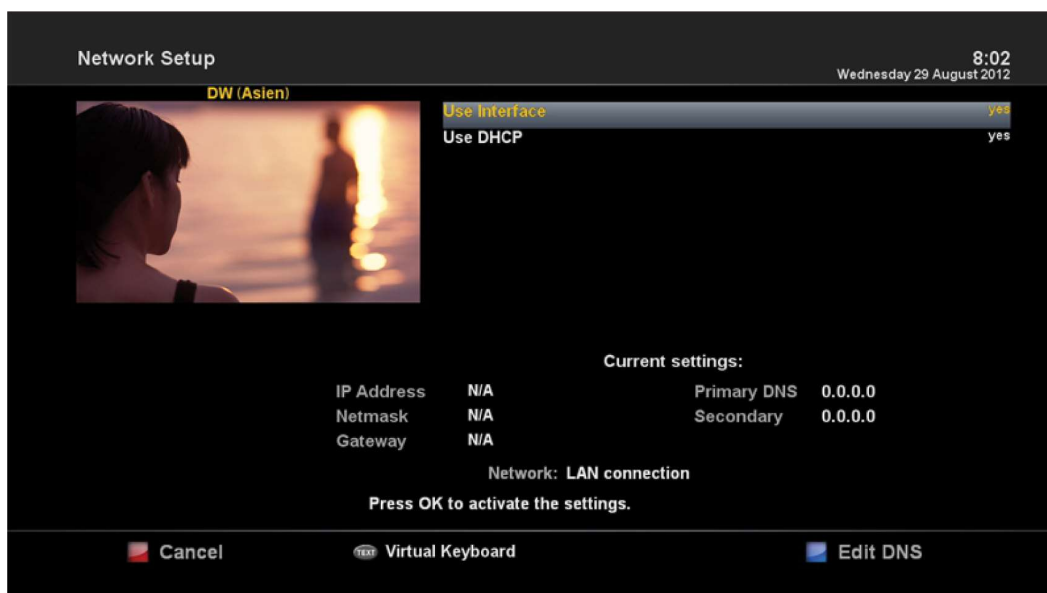
[i: MENU > Setup > System Settings > Network Setup]

Anadol COMBO is integrated with standard 10/100Mbps Ethernet with RJ 45 connector standard. You are recommended to use this network capability of Anadol COMBO to fully enjoy the system. You can set up 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.



Use 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.

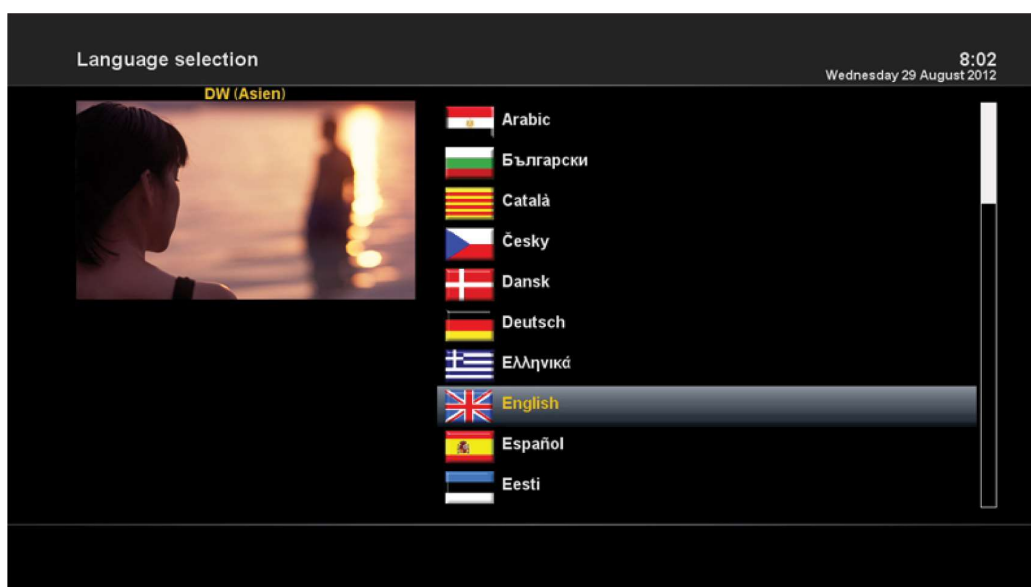
3 Network test

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 Anadol COMBO.

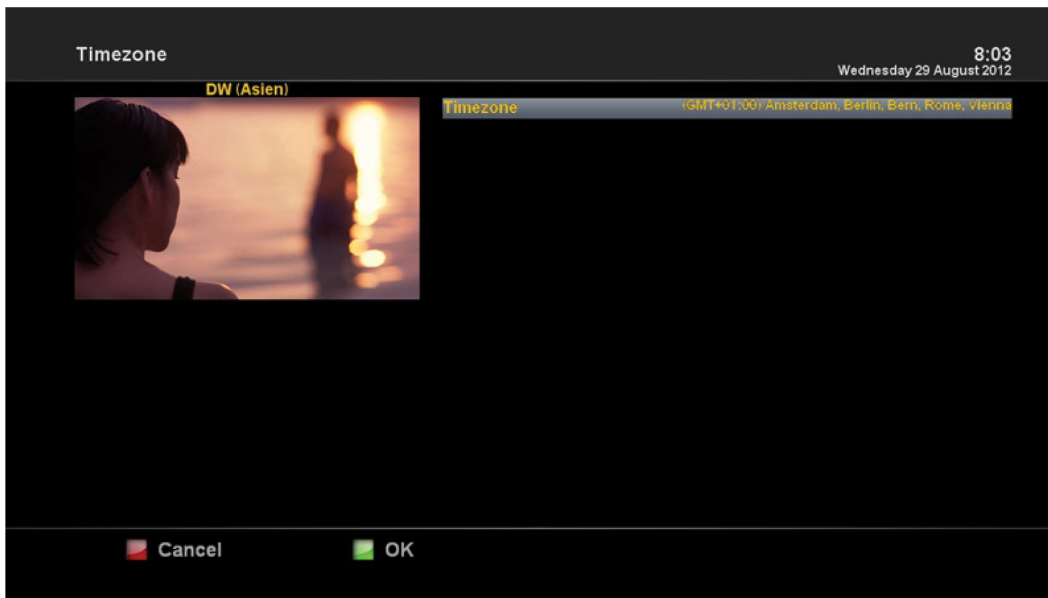
5.2.1.4 Language Selection



[i: MENU> Setup > System Settings > Language]

A variety of languages are available for the OSD of Anadol COMBO .

5.2.1.5 Time zone

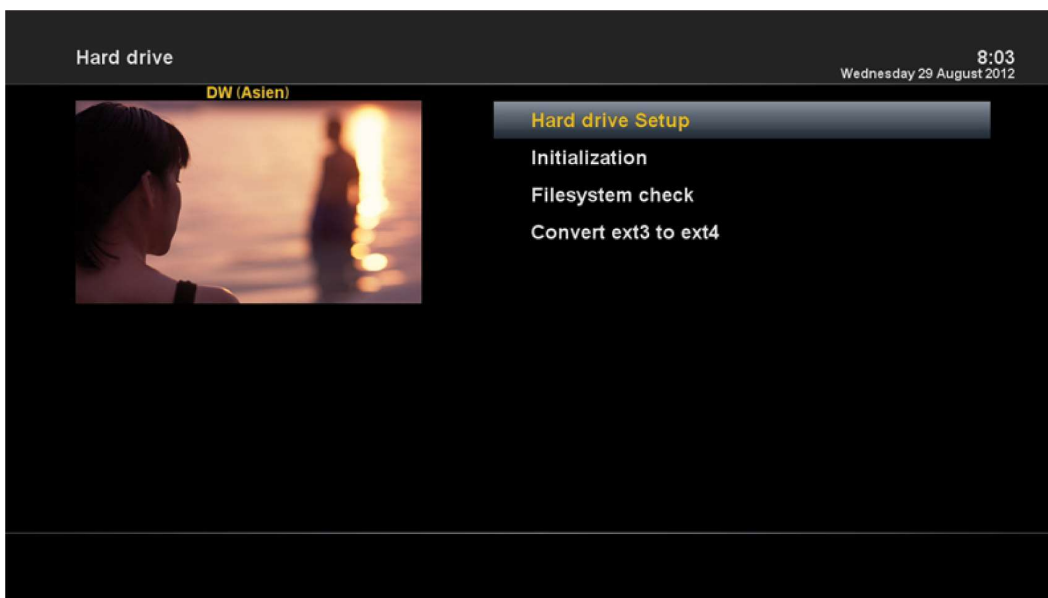


[i: MENU> Setup > System Settings > Timezone]

You can set your time zone in this menu.

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

5.2.1.6 Hard Disk Set Up



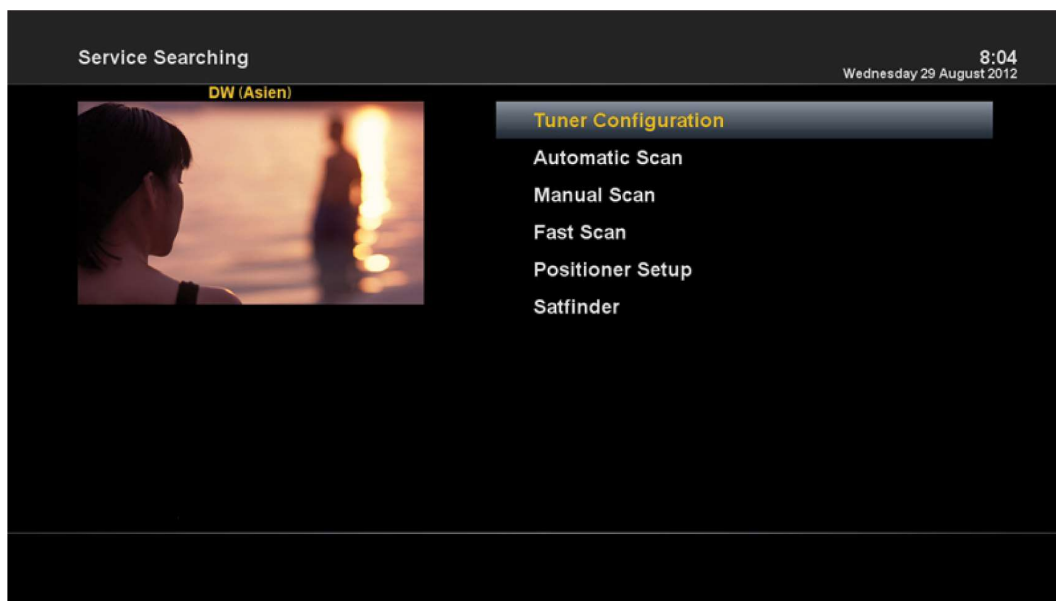
[i: MENU> Setup > System Settings > Harddrive > Hard drive Setup]

You can set the duration of time after which HDD is to be put into standby mode.

Here, you can choose from No standby to various duration.

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

5.2.2 Service Searching



[i: Press MENU> Setup > Service Searching]

Here you set up the tuner of your Anadol COMBO and run channel scanning automatically or manually.

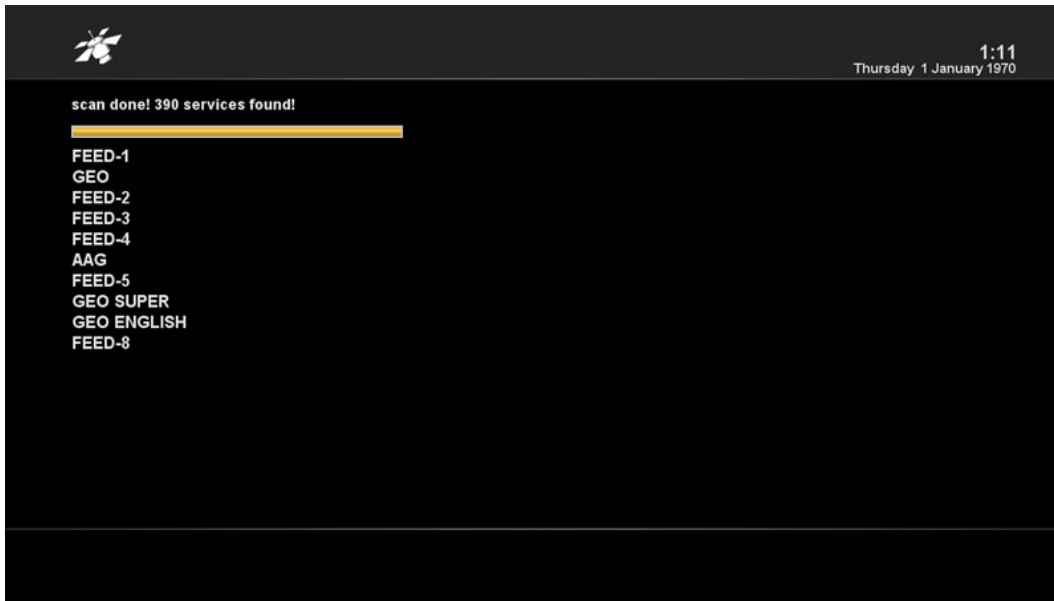
5.2.2.1 Tuner Configuration



[i: MENU > Setup > Service Searching > Tuner Configuration]

If you run the First Time Installation process, the Tuner A is already configured.

5.2.2.2 Automatic Scan



[i: 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.

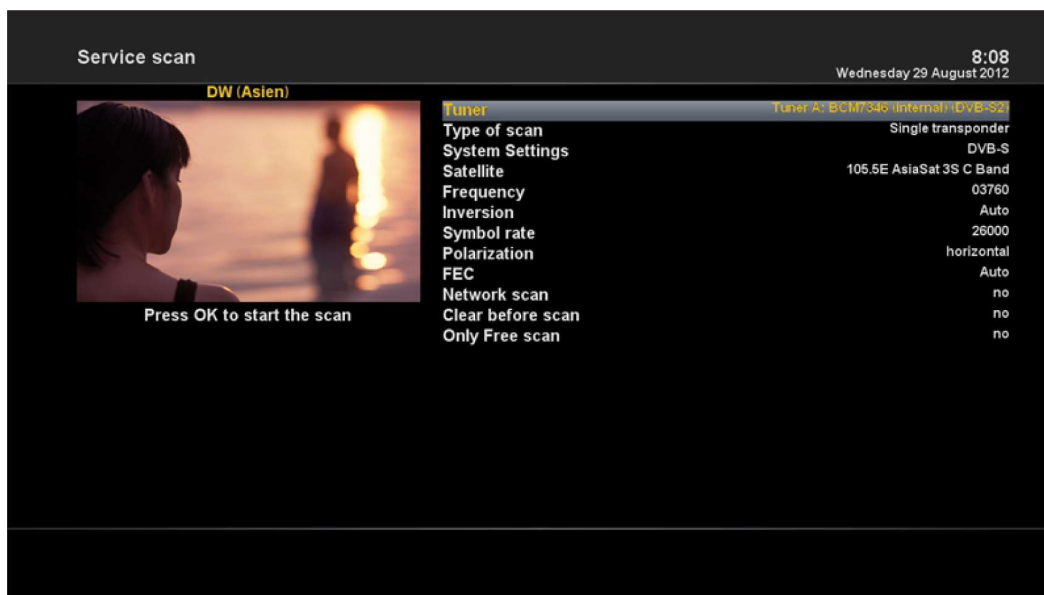
- Clear Before Scan

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.

- Scan Tuner A (DVB-S2)

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.

5.2.2.3 Manual Scan



[i: 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 Settings

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 Polarization

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 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 Anadol COMBO 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.

8 Clear Before Scan

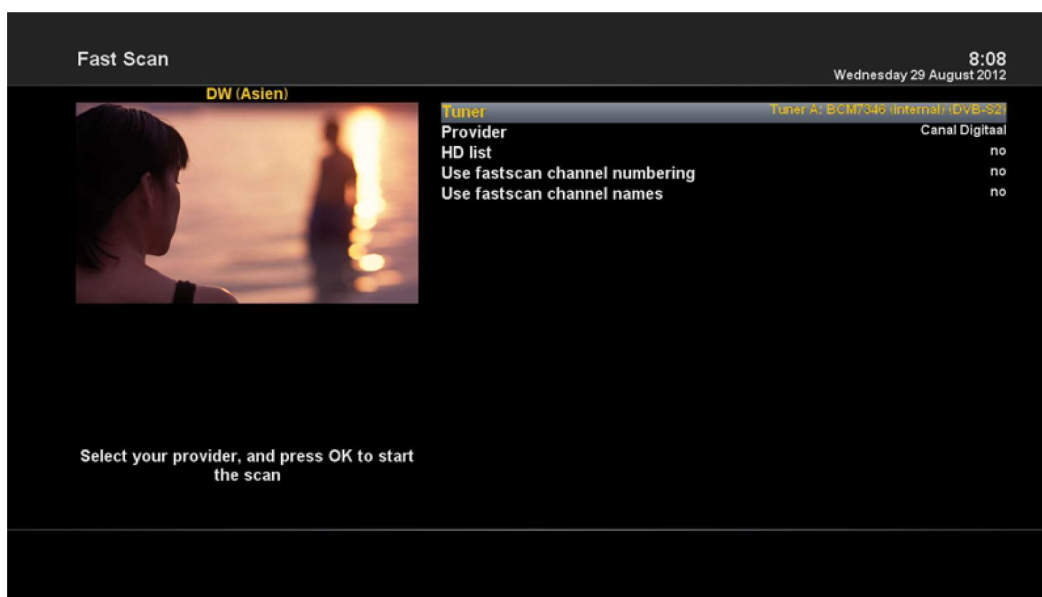
YES is used when you want to delete the existing channel list before you start the automatic scan. If you want to keep the existing list, select NO.

9 Only Free Scan

Here you have two options for NO and YES. If 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.

5.2.2.4 Fast Scan

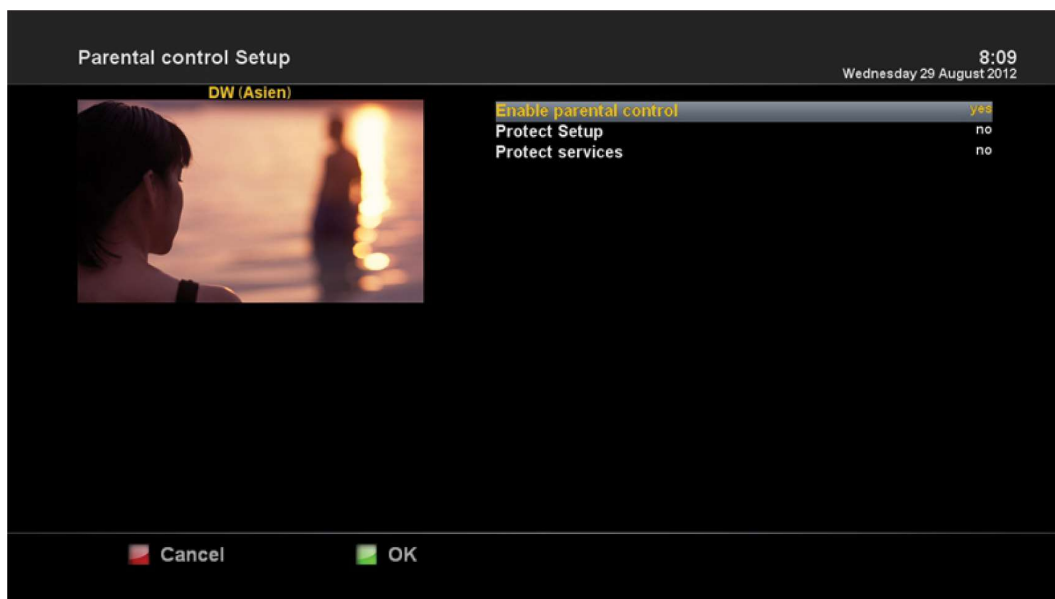


[i: MENU> Setup > Service Searching > Fast Scan]

In case there are service lists available for certain providers, for example, TV Vlaanderen,telesat, you can install the lists in the channel list to your Anadol COMBO.

If default service lists are not available, you can run the service scan automatically or manually add TV and radio channels to the channel list of your Anadol COMBO.

5.2.3 Parental Control



[\bar{i} : 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

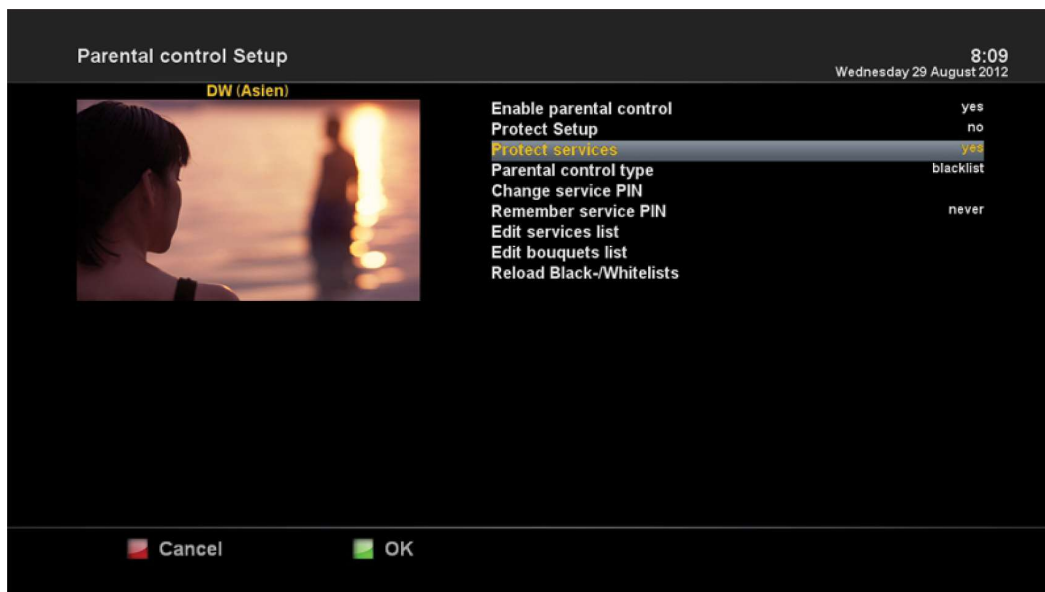
If you want to change the existing PIN code for Parental setup, you can do so using this menu.

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.

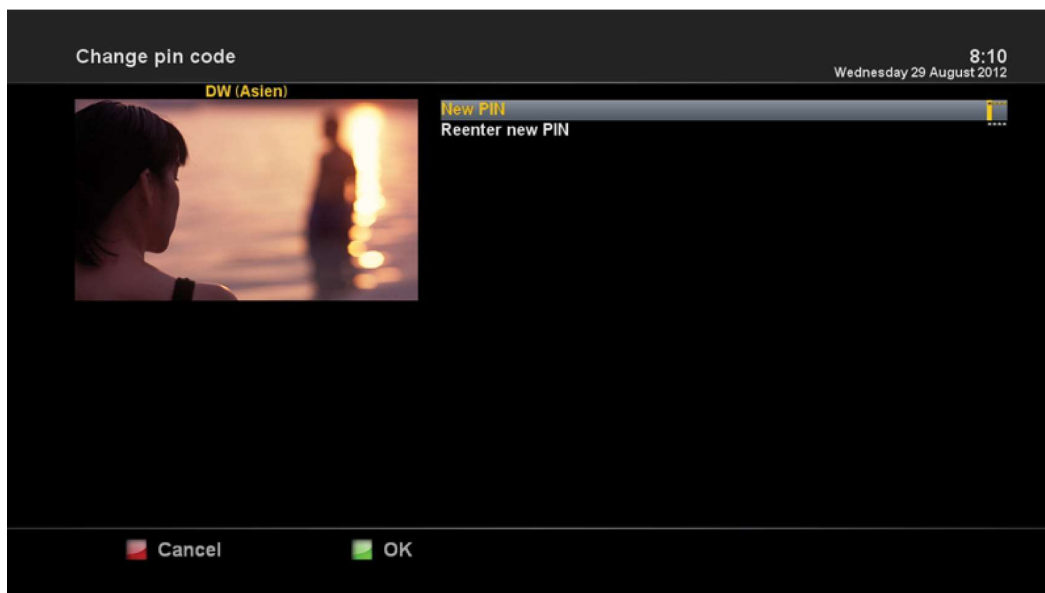
- Parental control type



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.

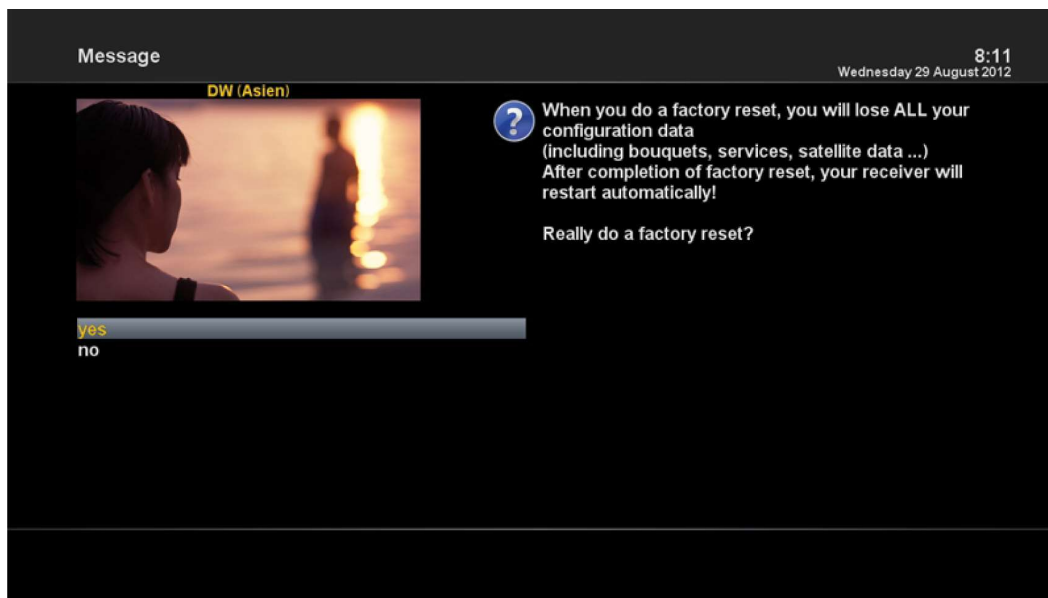
- Change service pin



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.

5.2.4 Factory Reset



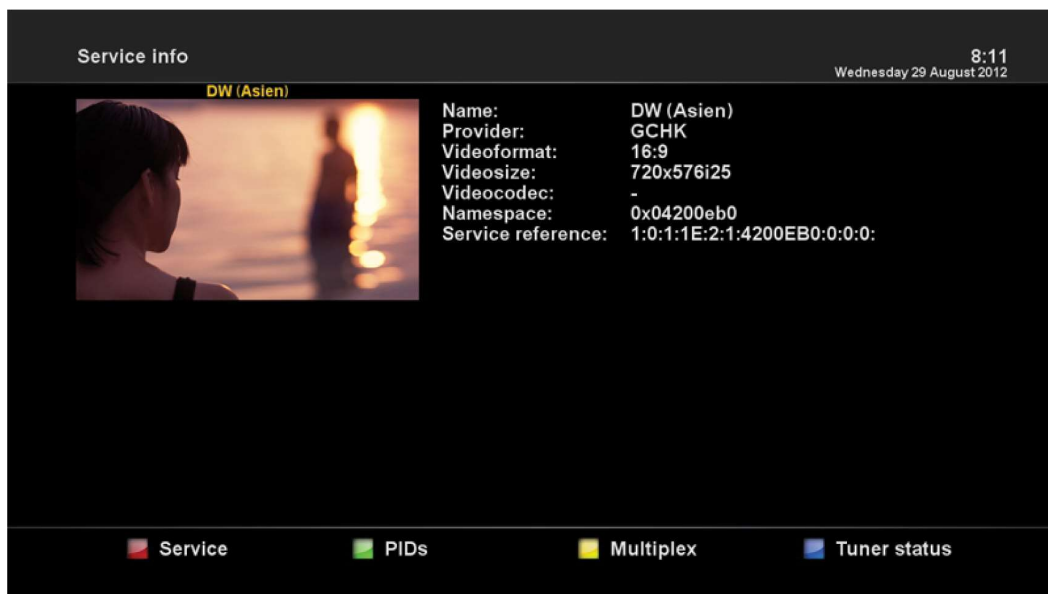
[i: MENU > Setup > Factory Reset]

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 Anadol COMBO 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 Information

5.3.1 Service Information

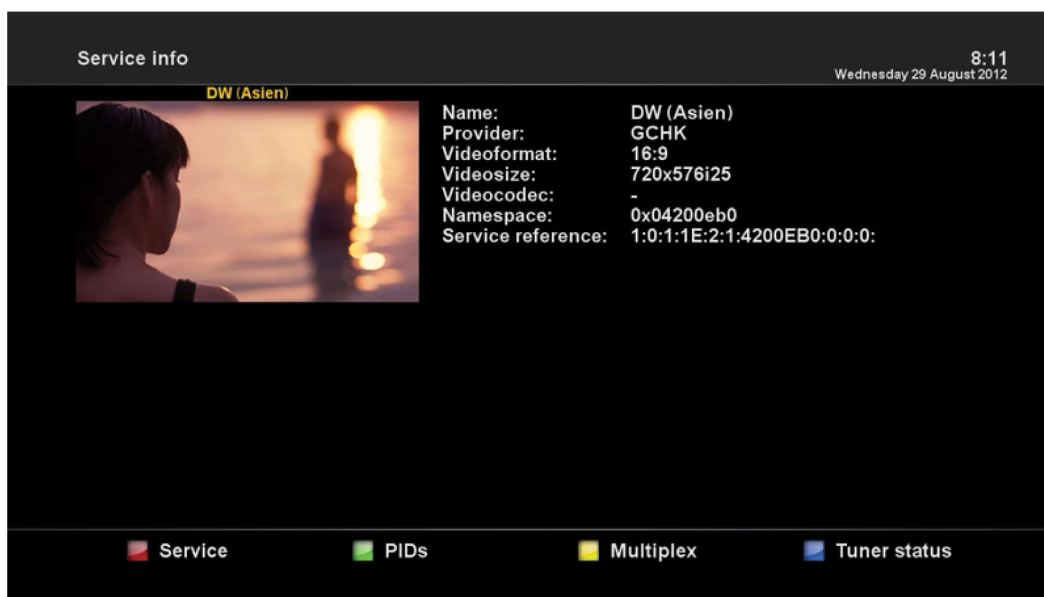


[i: MENU> Information > Service]

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:

- 1 Service info
- 2 PIDs
- 3 Multiplex
- 4 Tuner Status

5.3.2 Checking H/W & S/W Information



[i: MENU> Information > About]

This menu is for you to check the current system of your Anadol COMBO. You can see the following information:

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

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Version 1.00

EFE-MULTIMEDIA GmbH

(Anadol)

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END OF TERMS AND CONDITIONS

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 Anadol COMBO.
- Check if the satellite cable is properly connected to Anadol COMBO.
- 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.
- Take the Smartcard out and re-insert them to re-initialize.
- Check if your system correctly detects the smartcard.

6. Recording problem

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

7. Noise

- When HDD is running, you may hear a noise.

8. GLOSSARY

8PSK	8-PSK is usually the highest order PSK constellation deployed. With more than 8 phases, the error-rate becomes too high and there are better, though more complex,
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	<p>modulations available such as quadrature amplitude modulation (QAM). Although any number of phases may be used, the fact that the constellation must usually deal with binary data means that the number of symbols is usually a power of 2 — this allows an equal number of bits-per-symbol.</p>
Composite Video	<p>Composite video is the format of an analog television (picture only) signal before it is combined with a sound signal and modulated onto an RF carrier. Composite video is often designated by the CVBS acronym, meaning "Color, Video, Blank and Sync". In German (with PAL being a German invention by Telefunken's Walter Bruch) the abbreviation FBAS (Farbe-Bild-Austastung-Synchron) means the same. It is usually in standard formats such as NTSC, PAL, and SECAM. It is a composite of three source signals called Y, U and V (together referred to as YUV) with sync pulses. Y represents the brightness or luminance of the picture and includes synchronizing pulses, so that by itself it could be displayed as a monochrome picture. U and V represent hue and saturation or chrominance; between them they carry the color information. They are first modulated on two orthogonal phases of a color carrier signal to form a signal called the chrominance. Y and UV are then combined. Since Y is a baseband signal and UV has been mixed with a carrier, this addition is equivalent to frequency-division multiplexing.</p>
Conditional Access System	<p>Several companies provide competing Conditional Access Systems; Irdeto Access, Nagravision, Conax, Viaccess, Verimatrix and NDS are among the most commonly used CAS systems.</p>
DiSEqC	<p>Stands for Digital Satellite Equipment Control. It is a special communication protocol for use between a satellite receiver and a device such as a multi-dish switch or a small dish antenna rotor. DiSEqC was developed by European satellite provider Eutelsat, which now acts as the standards agency for the protocol.</p>
Dolby Digital	<p>Dolby Digital is the common version containing up to six discrete channels of sound. The most elaborate mode in common usage involves five channels for normal-range speakers (20 Hz - 20,000 Hz) (right front, center, left front, right rear and left rear) and one channel (20 Hz - 120 Hz allotted audio) for the subwoofer driven low-frequency effects. Mono and stereo modes are also supported. AC-3 supports audio sample-rates up to 48 kHz.</p> <ul style="list-style-type: none"> * Dolby Digital * DD (an abbreviation for Dolby Digital, often combined with channel count; for instance, DD 2.0, DD 5.1) * AC-3 (Audio Codec 3, Advanced Codec 3, Acoustic Coder 3.
EPG	<p>Electronic Program Guide is a digital guide to scheduled broadcast television or radio programs, typically displayed on-screen with functions allowing a viewer to navigate, select, and discover content by time, title, channel, genre, etc. by use of their remote control, a keyboard, or other input devices such as a phone keypad. Content can also be scheduled for future recording (Recording is only optional possible) by a personal video recorder (PVR). The on-screen information may be delivered by a dedicated channel or assembled by the receiving equipment from information sent by each program channel.</p>
eSATA	<p>A variant of SATA meant for external connectivity with the following characteristics: * Minimum transmit potential: Range is 500-600 mV. * Minimum receive potential: Range is 240-600 mV. * Identical protocol and logical signaling (link/transport-layer and above), allowing native SATA devices to be deployed in external enclosures with minimal modification.</p>
FEC	<p>Stands for Forward Error Correction. This is a system of error control for data transmission, whereby the sender adds redundant data to its messages, also known as an error-correction code. This allows the receiver to detect and correct errors (within some bound) without the need to ask the sender for additional data. The advantages of forward error correction are that a back-channel is not required and retransmission of data can often be avoided (at the cost of higher bandwidth requirements, on average).</p>
HDMI	<p>Stands for High-Definition Multimedia Interface. It is a compact audio/video interface for transmitting uncompressed digital data. HDMI connects digital audio/video sources—such as set-top boxes, Blu-ray Disc players, personal computers (PCs), video game consoles (such as the PlayStation 3 and some models of Xbox 360), and AV receivers—to compatible digital audio devices, computer monitors, and digital televisions. As an uncompressed connection, HDMI is independent of the various digital television standards used by individual devices, such as ATSC and DVB, as these are encapsulations of compressed MPEG video streams (which can be decoded and output as an uncompressed video stream on HDMI).</p>
LNB	<p>Stands for Low-Noise Block converter. This is the (receiving, or downlink) antenna of what is commonly called the parabolic satellite dish commonly used for satellite</p>

	TV reception. The LNB is usually fixed on or in the satellite dish. The purpose of the LNB is to take a wide block (or band) of relatively high frequencies, amplify and convert them to similar signals carried at a much lower frequency (called intermediate frequency or IF). These lower frequencies travel through cables with much less attenuation of the signal, so there is much more signal left on the satellite receiver end of the cable. It is also much easier and cheaper to design electronic circuits to operate at these lower frequencies, rather than the very high frequencies of satellite transmission.
PID	Stands for Packet Identifier. This is a set of numbers identifying stream packets contained within a single data stream
Polarization	The orientation of the electrical and magnetic fields of a signal. Satellites use mainly vertical and horizontal polarization.
S/PDIF	Stands for Sony/Philips Digital Interconnect Format. A common use for the S/PDIF interface is to carry compressed digital audio as defined by the standard IEC 61937. This mode is used to connect the output of a DVD player to a home theater receiver that supports Dolby Digital or DTS surround sound. Another common use is to carry uncompressed digital audio from a CD player to a receiver. This specification also allows for the coupling of personal computer digital sound (if equipped) via optical or coax to Dolby or DTS capable receivers.
Smartcard	A pocket-sized card with embedded Integrated Circuits which can process data. It can receive input which is processed and delivered as an output. The card may embed a hologram to avoid counterfeiting. It is used for accessing encrypted TV channels or services.
Teletext	A television information retrieval service developed in the United Kingdom in the early 1970s. It offers a range of text-based information, typically including national, international and sporting news, weather and TV schedules. Subtitle (or closed captioning) information is also transmitted in the teletext signal, typically on page 888 or 777.
YPbPr	<p>A color space used in video electronics, in particular in reference to component video cables. YPbPr is the analog version of the YCBCR color space; the two are numerically equivalent, but YPBPR is designed for use in analog systems whereas YCBCR is intended for digital video. YPbPr is commonly called "component video", but this is a misnomer, as there are many other types of component video (mostly RGB with sync either on green or one or two separate signals).</p> <p>YPbPr is converted from the RGB video signal, which is split into three components, Y, PB, and PR.</p> <ul style="list-style-type: none"> * Y carries luma (brightness) and sync information. * PB carries the difference between blue and luma (B - Y). * PR carries the difference between red and luma (R - Y). <p>Sending a green signal would be redundant, as it can be derived using the blue, red and luma information.</p>