

CONTENTS

1.	SAFETY.....	3
2.	INTRODUCTION.....	4
3.	FEATURES.....	4
4.	REMOTE CONTROL.....	5
5.	FRONT PANEL.....	6
6.	REAR PANEL.....	6
7.	CONNECTING YOUR SYSTEM.....	7
8.	BASIC OPERATIONS.....	8
8.1	TURN ON STB.....	8
8.2	POWER.....	8
8.3	MUTE.....	8
8.4	PAUSE.....	8
8.5	RECALL.....	8
8.6	FAVORITE.....	8
8.7	AUDIO.....	8
8.8	INFORMATION.....	8
8.9	EPG.....	9
8.10	TV/RADIO.....	9
8.11	CHANNEL LIST.....	9
8.12	SLEEP.....	10
8.13	PAGE UP/PAGE DOWN.....	10
8.14	TEXT.....	11
8.15	SUBTITLE.....	11
8.16	FIND.....	11
8.17	ZOOM.....	11
8.18	TV/SAT.....	11
8.19	MENU.....	11
8.20	VIDEO FORMAT.....	11
8.21	EXIT.....	11
9.	SERVICE.....	11
9.1	ORGANIZING SERVICE.....	12
9.2	ORGANIZING FAVOURITES.....	13
10.	INSTALLATION.....	14
10.1	SATELLITE INSTALLATION.....	14
10.2	FASTSCAN SATELLITE.....	15
10.3	SATELLITE GUIDE.....	15
10.4	TERRESTRIAL INSTALLATION.....	15
10.5	CABLE INSTALLATION.....	16
11.	SYSTEM.....	16
11.1	LANGUAGE.....	16
11.2	A/V CONTROL.....	17
11.3	ETHERNET SETTING.....	17
	<i>Wire Network</i>	18
	<i>Wifi Network</i>	18
	<i>Ping Test</i>	18
11.4	TIME SETTING.....	18
11.5	TIMER.....	18
11.6	PARENTAL LOCK.....	19
11.7	MISCELLANEOUS SETTINGS.....	19
11.8	SOFTWARE UPGRADE.....	19
	11.8.1 <i>Upgrade By USB</i>	20
	11.8.2 <i>Http Upgrade</i>	20

11.8.3	<i>Ftp Upgrade</i>	20
11.8.4	<i>Backup to USB</i>	20
11.8.5	<i>Upgrade By Satellite</i>	20
11.8.6	<i>Upgrade By Terrestrial</i>	21
11.8.7	<i>Upgrade by Cable</i>	21
11.9	DEFAULT SETTING.....	21
11.9.1	<i>Default Value:</i>	21
11.9.2	<i>Delete Channel by SAT</i>	21
11.9.3	<i>Delete All Channel</i>	22
11.10	INFORMATION.....	22
12.	CONDITIONAL ACCESS	22
12.1	CA SETTING.....	22
13.	MEDIA	22
13.1	RECORD.....	22
13.2	MOVIE.....	23
13.3	MUSIC.....	23
13.4	IMAGE.....	23
13.5	PVR SETTING.....	24
13.6	DISK MANAGE.....	24
13.7	EBOOK.....	24
13.8	REMOVE USB DEVICE SAFELY.....	25
14.	APPLICATION	25
14.1	YOUTUBE.....	25
14.2	WEATHER.....	25
14.3	WEB TV.....	25
14.4	TIKTOK.....	25
15.	GAME	26
16.	EPG	26
17.	NEW FEATURES	26
17.1	TIME SHIFT.....	26
17.2	RECORD.....	26
18.	TROUBLE SHOOTING	27
19.	Specifications.....	28

1. SAFETY

This HD Receiver has been manufactured to satisfy the international safety standards. Please read the following safety precautions carefully.

MAINS SUPPLY: 100~240V AC, 50/60Hz

OVERLOADING: Do not overload wall outlet, extension cord or adapter as this may result in fire or electric shock.

LIQUIDS: Keep liquids away from the HD Receiver. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

CLEANING: Disconnect the HD Receiver from the wall outlet before cleaning. Use a light damp cloth (no solvents) to dust the HD Receiver.

VENTILATION: The slots on top of the HD Receiver must be left uncovered to allow proper airflow to the unit. Do not stand the HD Receiver on soft furnishings or carpets. Do not expose the HD Receiver to direct sunlight or do not place it near a heater. Do not stack electronic equipments on top of the HD Receiver.

ATTACHMENTS: Do not use any attachments that are not recommended as these may cause hazard or damage the HD Receiver.

CONNECTION TO THE SATELLITE DISH LNB: Disconnect the HD Receiver from the mains before connecting or disconnecting the cable from the satellite dish.

FAILURE TO DO SO CAN DAMAGE THE LNB.

CONNECTION TO THE TV: Disconnect the HD Receiver from the mains before connecting or disconnecting the cable from the satellite dish.
FAILURE TO DO SO CAN DAMAGE THE TV.

EARTHING: The LNB cable MUST BE EARTHED to the system earth for the satellite dish.

LOCATION: Place the HD Receiver indoor in order not to expose to lightening, rain or sunlight.

European Union Directive on Waste Electrical and Electronic Equipment (WEEE)



This symbol applies to European countries only and indicates that the equipment carrying this mark must NOT be thrown into trash. At the end of its useful life, always dispose of E-waste in a manner which is consistent with local laws and regulations. For more information on the EU WEEE Directive, please see http://ec.europa.eu/environment/waste/weee_index.htm

2. INTRODUCTION

Thank you for purchasing the HD Receiver.

This HD Receiver is fully compliant with the international DVB standard and thus transmits digital images, sounds, information guides and teletext directly to your TV through the satellite broadcasting.

Now you can comfortably see and receive digitally transmitted music, news, movie and sports satellite broadcasts in your office or at your home. You can enjoy interesting games embedded in HD Receiver.

In service search section, both the automatic service search method and the manual search mode are provided. Also it supports DiSEqC 1.0, 1.2 and USALS, enabling you to move your antenna in order to focus preferred satellite. You can save up to 6000 TV and Radio services and work around with the favorite, Lock, Delete, Move and Sort functions. The menu is very modern and supports multiple languages. All functions can be carried out using the remote control and some of the functions can also be carried out using the front panel. The HD Receiver is easy to use and adaptable for future advances. Please be aware that new software may change the functions of the HD Receiver.

If you have any difficulties concerning the operation of your HD Receiver, please refer to the relevant section of this manual, including the 'Troubleshooting'. This Manual will provide you with useful information on using the HD Receiver.

3. FEATURES

- MPEG-Fully DVB-S / DVB-S2 (H.265) HD compliant
- 6000 channels (TV and Radio) programmable
- Multilingual menu text support
- Channel switching time less than 1 second
- Channel list editing
- Favorite channel list editing
- True-color On-Screen Display (OSD)
- Full Picture In Graphic (PIG) function
- Electronic Program Guide (EPG) for on screen channel information
- Subtitle supported
- Teletext supported by VBI insertion and software emulation
- Parental lock facility by channel and program event
- Program and Channel information transfer from receiver to receiver
- Exciting games embedded
- Dolby Digital Bit-Stream output via HDMI
- DiSEqC 1.0, 1.1, 1.2 ,USALS and Unicable
- Full HD (1080p) Video/Audio Output
- 2x USB 2.0 Host
- RTC (Real-Time-Clock)
- Time Shift
- Video Recording
- Recording one channel and Time Shifting another channel (optional)

4. Remote Control

You can power on/off the receiver, operate on screen menu, and use a variety of hot key function.



POWER

To switch your receiver to standby mode or switch it on from standby.

MUTE

Used to enable or disable the audio

TV / RADIO

Receiver switches between TV and Radio mode.

ZOOM

Press key to zoom into the picture (from x1 up to x16 times bigger).

RECALL

Return to the previous menu or status.

TV/SAT

Receiver switches between TV and receive mode.

INFO

To display channel status or various program information of current service.

EPG (Electronic Program Guide)

Display the Programs guide on screen when available.

MENU

Displays the Main Menu on the screen, or return to the previous menu or status.

BACK

Cancel the user selection and return to the viewing mode from a menu.

OK

To select menu option or confirm entry.

KEY <, >

To adjust volume level, or to move cursor left or right in the menu.

KEY ^, v

To change channels, or to move cursor up or down in the menu.

PAGE-/PAGE+

To move up the cursor to the next or previous page in the menu or channel list.

REC •

Record program to local storage such as USB stick.

Teletext

Shows teletext information of the current channel.

Subtitle

Subtitle Display.

FIND

Use to prompt find channels sort by character.

TIMER

Press timer key you can setup up the Standby time.

V.MODE

Press this button to switch between different resolutions (display modes).

FAVORITE

To set receiver to the favorite server mode, display the favorite channel.

MEDIA

Press this button to enter the Record Manager menu directly.

AUDIO (Red Key)

Audio channels setup, to select audio mode; Left, Right, Stereo, Mono.

OPTION (GREEN KEY)

Shows NVOD information of the current channel supports.

SAT

Display the satellite list at normal picture.

TMS (Time Shift)

Press this button to display Time Shift info bar.

Play ▶

To play the MP3, JPEG, or Record files.

Stop ■

To stop the Time Shift, recording, or MP3/JPEG player.

PAUSE ||

Used to select the freeze function.

Press once to freeze the screen picture.

5. Front panel

Remote Sensor: Detects infrared signal from remote control unit.

POWER Indicator: Lit whilst the receiver is powered on and at standby mode.

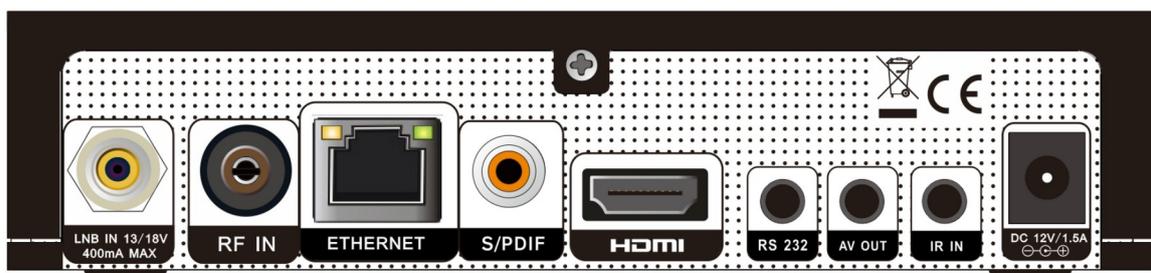
Signal Indicator: When received signal is strong, the signal indicator is lit.

Card Slot: One CA Interface for Conax.

USB (On the side): USB 2.0 Host, connect to USB hard disk, or flash disk, and 3G dongles.

Display: (LED type) Indicates operating status of receiver.

6. Rear Panel



Please refer to the diagram above for all possible connections of your receiver

Do not connect the unit to the mains socket until all other connections have been made and checked.

LNB IN 13/18V 400mA MAX: This port is to connect the coaxial cable from LNB of your Dish.

RF IN: This port is to connect the coaxial cable from Terrestrial/Cable Antenna.

S/PDIF: Digital Audio interface, connect to AV amplifier S/PDIF input terminal.

HDMI: Audio and Video output socket for TV set with HDMI Input Jack only.

RS 232: This is used to connect your receiver to a computer through a serial cable.

Ethernet: Network port, you can get a new software updates from this port.

AV OUT: This RCA connector is used to connect TV using RCA cable.

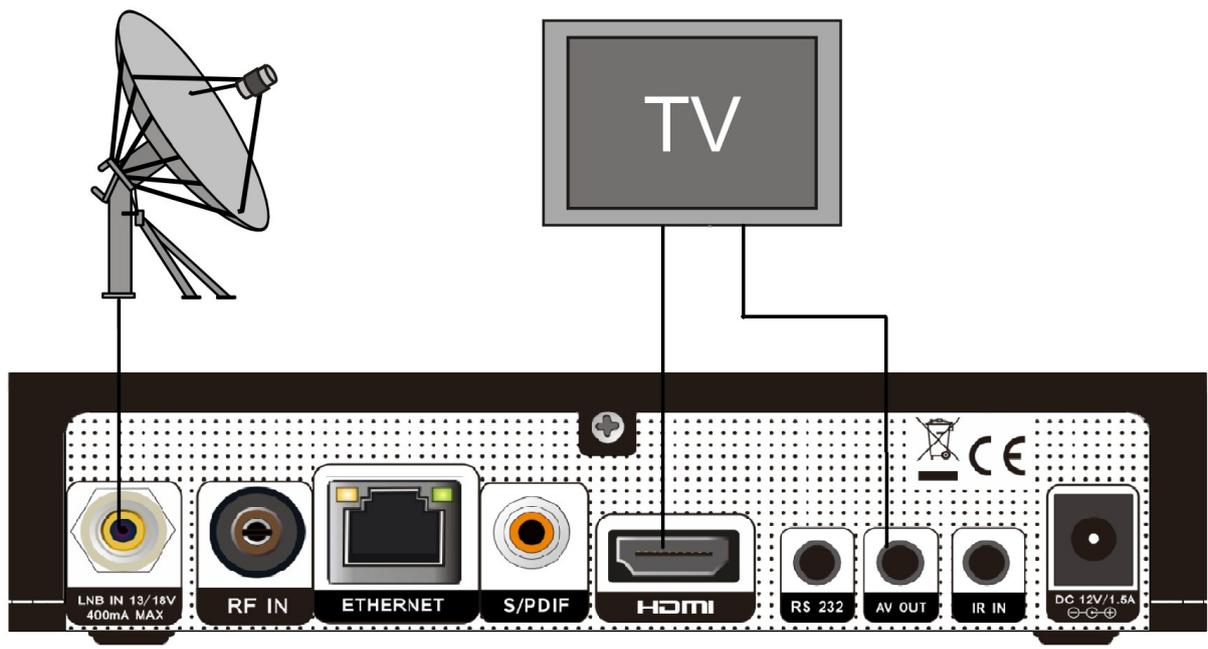
IR IN: Connect an External IR-Sensor (Infrared).

DC 12V: This is used to connect an external 12V adapter.

7. Connecting Your System

There are two ways to connect the receiver to your existing TV system. We recommend using one of the following cases for the best result:

1. If you have a high definition television set, you should use a HDMI cable for best result, Plug one end of the cable into the HDMI socket on the receiver, and the other end into the matching socket on your television. In this case, you do not have to make audio connections because the HDMI connector can output stereo audio or Dolby Digital audio.
2. Connect one end of RCA cable to the AV OUT jack on the back of the receiver and the other end to a RCA jack on your TV.



Finally connect the coaxial cable from the LNB of your Dish to the LNB IN jack on the receiver.

8. Basic Operations

8.1 Turn on STB

First, open the power switch to turn on the unit. When the STB is first used, there will play the first channel from the default Channel List. If the STB is not first used, STB will play the same channel as last time before turning off.

8.2 Power

- 1 Press [Power] Key can enter the Standby state
- 2 In Standby state, press [Power] Key again can call back the unit and go on play the previous channel
- 3 User can also disconnect the device's main power to end the Standby state.

8.3 Mute

- 1 Press [MUTE] key to mute the sound and the screen will show up mute OSD.
- 2 Press [MUTE] key again to restore sound.

8.4 Pause

- 1 In playing mode, press [Pause] key, the picture will be paused, but the sound of the channel will still continues.
- 2 Press [Pause] key again, the screen's picture will skip over to the current playing picture, and the sound of the channel will corresponding playing.

8.5 Recall

Press [RECALL] key will directly switch to the previous channel that you played before current channel.

8.6 Favorite

- 1 In full screen, press [FAV] key, it will display a window of "Favorite list" on the left of the screen, which you can watch like below.



- 2 In the window of "Favorite list", you can move highlight by press [Channel Up/Channel Down] key to select favorite Channels.
- 3 In the window of "Favorite list", you can press [Left/Right] key to select favorite groups Pressing [P-/P+] keys can implement the "Page up/Page down" function
- 4 Press [BACK] key to exit the current window.

8.7 Audio

- 1 In full screen, press [RED] key can open the "Audio" window on the screen.



- 2 You can modify the audio track by press [Channel Up / Channel Down] key and modify the audio mode by press[left/right] key.
- 3 Mode: Stereo/Left/Right/Mono

8.8 Information

In full screen, press [INFO] key (press [INFO] key and [RED] key) can open information screen, in the window shows the parameters of current channel.

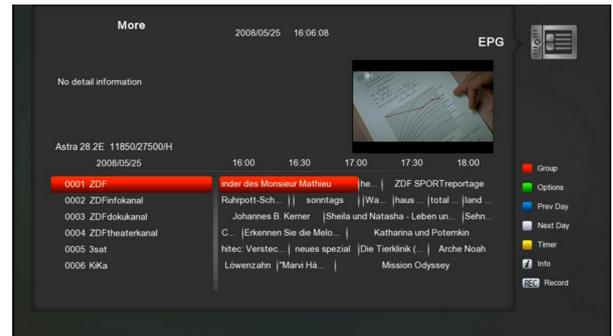
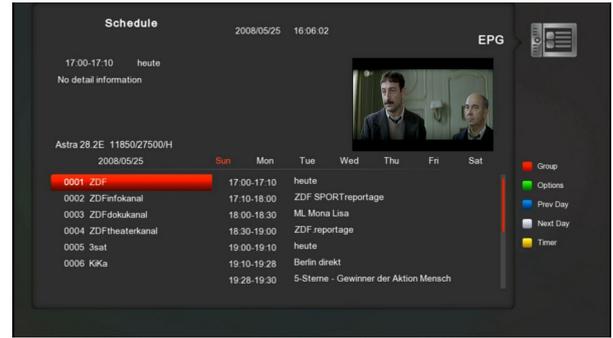
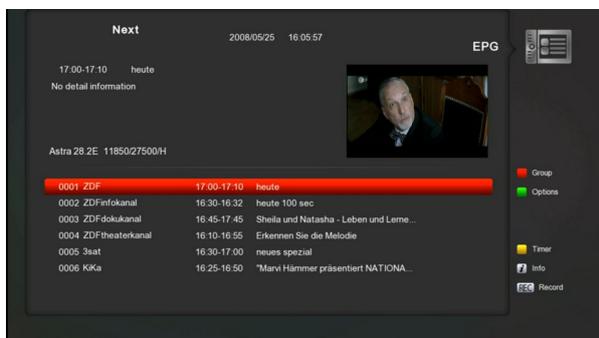


8.9 EPG

- 1 The STB has an Electronic Program Guide (EPG) to help you navigate channels through all the possible viewing options. The EPG supplies information such as channel listings and starting and ending times for all available channels. Press [EPG] key to display EPG screen.



- 2 Press [Red] key can select the channels by different group, such as by Favorite/Satellite/Provider/CAS etc.
- 3 Press [Green] key to select different display mode among Now EPG, Next EPG, Schedule and More, like the following picture:



- 4 Press [Yellow] key in EPG menu can set one record timer or go to Timer List menu.



- 5 In EPG menu, when you select one event by high light item, you can set this event to record timer list directly by press [REC] button.
- 6 In EPG menu, press [BACK] to close EPG screen.

8.10 TV/RADIO

In TV mode, pressing [TV/RADIO] key can switch to Radio mode. In Radio mode, press [TV/RADIO] key to switch to TV mode.

8.11 Channel List

- 1 In full screen, press [OK] key can enter "Channel List".



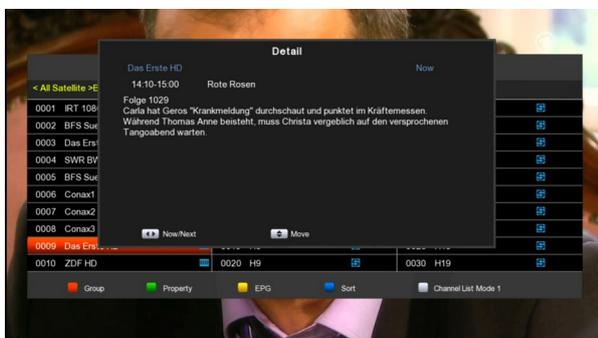
- 2 Press [Red] key to change the different group. Which you can watch like below.



- 3 Press [Green] key you can change the current channel's property, such as FAV/ Lock/ Skip/ Delete/ Rename.



- 4 Press [Yellow] key to display details information for EPG Now.



- 5 Press [Blue] key can open the "Sort" window likes below. There are five kinds of sorting ways. You can press [Channel Up/Channel Down] key to

move highlight and press [OK] key to confirm you selection.



- 6 The five kinds of sorting way are:
 - ◇ Default: Sorting by scanning result.
 - ◇ FTA: Sort channel through free and scramble sequence. Free channel will in the front of channel list and scramble channel will at the rear of channel list
 - ◇ Scramble: Sort channel through free and scramble sequence. Scramble channel will in the front of channel list and free channel will at the rear of channel list
 - ◇ Name (A-Z): Sorting in Alphabetical Order, ignore "\$" symbol.
 - ◇ Name (Z-A): Sorting in Alphabetical Order, ignore "\$" Symbol.
- 7 Press [Up/Down] key to move highlight and press [OK] key to play the highlighted channel.
- 8 Press [Page Up/Page Down] key to page up and page down.
- 9 Press [BACK] key to exit the channel list.

8.12 Sleep

- 1 This function can set sleep timer. When you set a sleep timer and the time arrive, the system will enter to standby automatically.
- 2 Pressing [SLEEP] key, it will switch the mode between Sleep Timer Off /10/30/60/90/120 minutes.

8.13 Page Up/Page Down

In Channel list, press [Page+/Page-] key can page up and page down the channel list.

8.14 TEXT

- 1 Press [TTX] key in full screen, you can open teletext page on the channel which has teletext information.
- 2 If the channel has no teletext information, it will show "No Teletext!" on the screen.

8.15 Subtitle

- 1 Press [SUB] key in full screen you can select the subtitle language or off on the channel which has subtitle.
- 2 If you set the Auto subtitle option as ON in Miscellaneous settings menu, the subtitle will be showed automatically.

8.16 Find



- 1 Press[Find] key in full screen can open the "Find" window like above. You can press[Up/Down/left/right]key to move highlight and press[OK]key to input the selected symbol or letter into the dialogue.
- 2 After input each character, the program list on the left will search the channel according your input, and list the matched channel.
- 3 Press [Blue] key can close "Find" window and you can select channel from the channels list directly.

8.17 Zoom

- 1 The [ZOOM] key allows you to magnify a certain area on the images
- 2 Press [ZOOM] key again, the image will enlarge rotate as x1, x2, x4, x6, x8, x12, x16.

- 3 In "x2 ~ x16" image, using [Up/ Down/ Up/ Down] keys to move the image center area you want to see.
- 4 In zoom mode, press [Exit] to close "Zoom" window.

8.18 TV/Sat

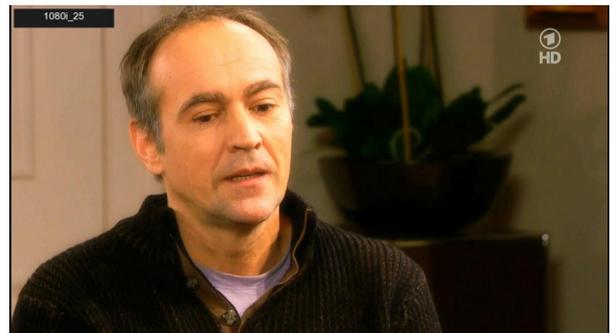
Press [TV/ SAT] key can switch between TV mode and STB mode

8.19 Menu

Press [MENU] key can open the menu, exit the current menu to last menu or close the window.

8.20 Video Format

Press [V. MODE] key under Full Screen playback for 1st, it will show the current system outputting video resolution, continuously press this key, system will switch its outputting video resolution by sequence "480P > 480i > 576p > 576i > 720P-> 1080i->1080p".

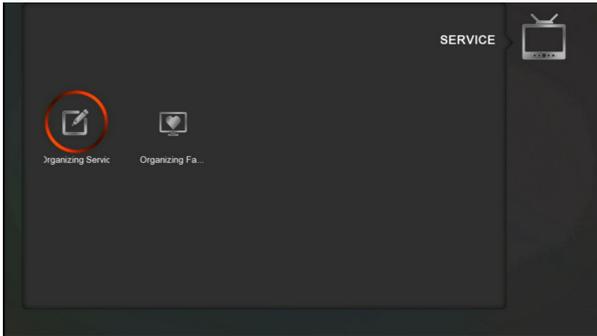


8.21 Exit

- 1 Press [BACK] key can exit the current menu to last menu or close the window.

9. Service

When you press [Menu] key to enter menu, there will display the picture like below:



- 1 Press [Left/Right] key you can select the submenu of Organizing services and Organizing favourites.
- 2 Press [OK] key to enter the "Organizing Service". If Menu Lock is "On", it will display an dialogue for user to key in password. The default Password is "0000".
- 3 Press [Menu] key to go back to main menu.

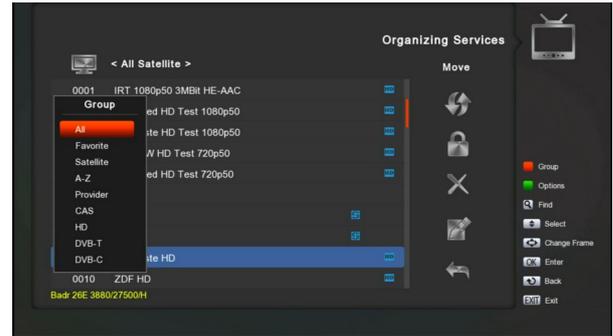
9.1 Organizing Service

When you enter to "Organizing Service" menu, there will display the screen like below.



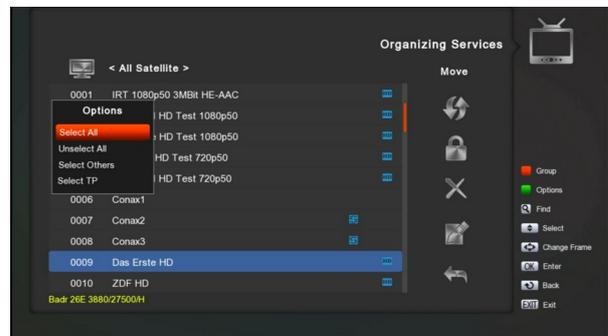
- 1 You can move highlight by press [Channel Up/Channel Down] key and [OK] key to select the programs which you want to edit.
- 2 You can press [Page Up/Page Down] key to implement the Page Up/Page Down function.
- 3 You can use [Red] key to switch different Group.
- 4 You can press [Green] key to select the programs by different select mode.
- 5 Press color key can implement the corresponding function in "Organizing Services".

Groups



- 1 Press [Red] key can open the "Groups" window like above
- 2 You can press [Up/Down] key to move highlight and press [OK] key to select group.
- 3 Press [Menu] key to close "Groups" List.

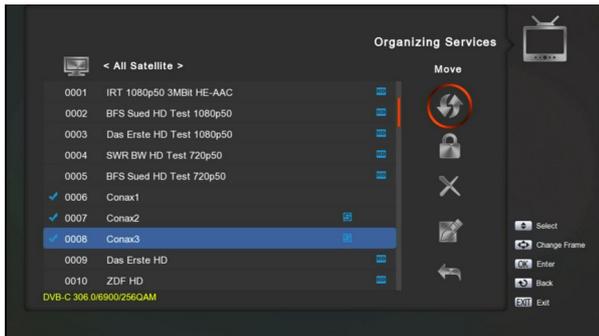
Options



- 1 Press [Green] key can open the "Options" window like above.
- 2 You can press [Up/Down] key to move highlight and press [OK] key to confirm the select mode.
- 3 Press [Menu] key to close "Options" List.

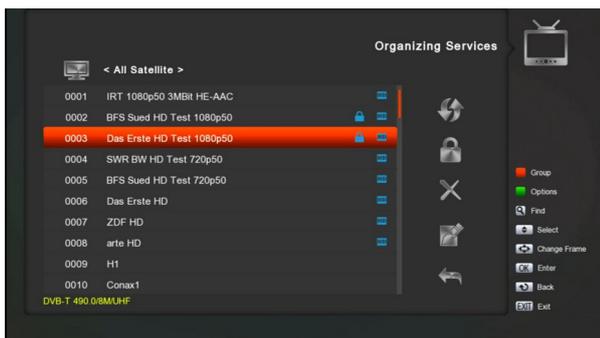
Move

- 1 Select the channels which you want to edit in channel list by press [OK] key or other select mode.
- 2 Then press [Right] key to move the high light to right toolbar.
- 3 Select Move icon by press [Channel Up/Channel Down] key and [OK] key.
- 4 Move the channels to the position which you want and press [OK] key to confirm. Like the following picture:



Lock

- 1 Select the channels which you want to edit in channel list by press [OK] key or other select mode.
- 2 Then press [Right] key to move the high light to right toolbar.
- 3 Select Lock icon by press [Channel Up/Channel Down] key and [OK] key.
- 4 Lock the channel by press [OK] key.
Like the following picture:

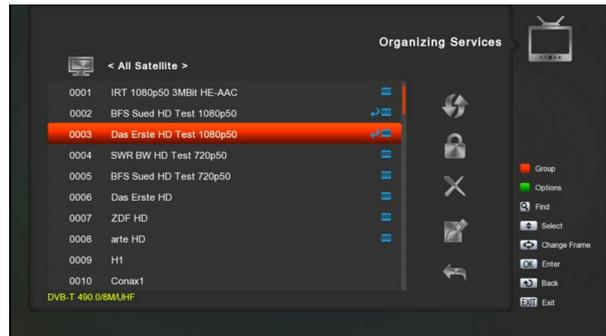


Delete

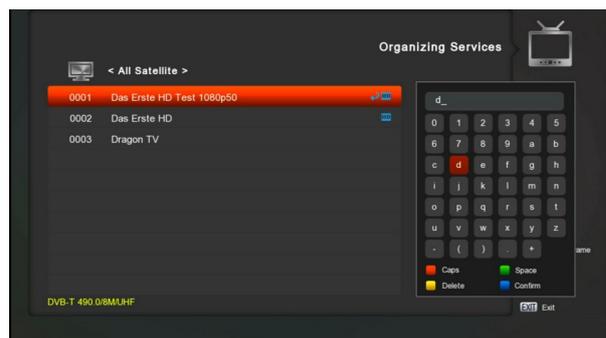
- 1 Select the channels which you want to edit in channel list by press [OK] key or other select mode.
- 2 Then press [Right] key to move the high light to right toolbar.
- 3 Select Delete icon by press [OK key to delete channel one by one.
- 4 When you high light in channel list ,you can press [OK] key to select more channels ,and repeat b and c step to deleted.

Skip and rename

Follow the same way you can set the channel's Skip or give the new name for high light channel.



Find



- 1 Press[Find] key can open the "Find" window like above. You can press[Up/Down/left/right]key to move highlight and press [OK] key to input the selected symbol or letter into the dialogue.
- 2 After input each character, the program list on the left will search the channel according your input, and list the matched channel.
- 3 Press [Blue] key can close "Find" window and you can select channel from the channels list directly.

9.2 Organizing Favourites

This menu is helpful in adding and deleting services to and from the favorite group.



1 FAV List

To choose the FAV List by press "FAV" button.

2 Add

To add services into favorites, Mark the desired services by press “OK” button in Service List, press ► to choose Add mode and press “OK” button.

3 Remove

To remove services from favorites, Mark the desired services by press “OK” button in Favorite List, press ◀ to choose Remove mode and press “OK” button.

4 Move

You can reorder and move the service to the preferred position in Favorite List.

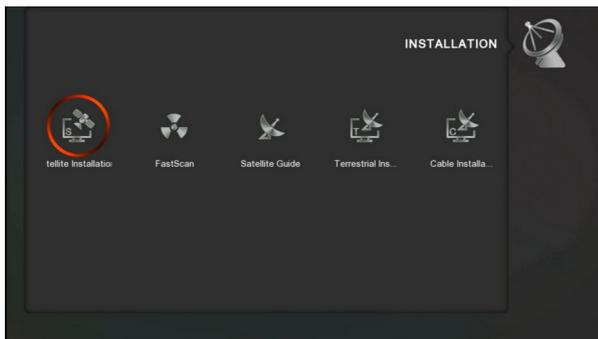
5 Rename

Select the desired FAV List by press “FAV” button, using ◀, ▶ buttons to choose Rename mode and press “OK” button to display keyboard, and rename it.

6 Group, Options and Find functions

Please refer to the “Organizing Services” part in this manual.

10. Installation



- 1 Press [Left/Right] key to select menu pages among Satellite Installation, FastScan and Satellite Guide., Terrestrial Install, Cable Installation.
- 2 Press [OK] key to enter the “Installation”. If Menu Lock is “On”, it will display an dialogue for user to key in password. The default Password is “0000”.
- 3 Press [Up/ Down] key to select menu items. Press [menu] key to go back to main menu.

10.1 Satellite Installation

Satellite

In this menu you can find the satellite list like below.



LNB Type

Press [right] key to select this item and setting the different LNB Type which you need.



DiSEqC

DiSEqC: You can press [OK] and [Up/ Down] key to switch options. There are several options for your selection:

- a) DiSEqC 1.0 : 1/4, 2/4, 3/4, 4/4: 4 ports DiSEqC
- b) DiSEqC 1.1 : 1/16, 2/16....16/16: 16 ports DiSEqC



Motor setting

Motor Setting: In “Motor Setting” item, you can press [OK] and [Up/ Down] key to switch “Disable / DiSEqC 1.2 / USALS” functions.

22K

You can use [OK] and [Up/ Down] key to switch “On / Off”.

Notice

When you choose LNB type “Universal”, you can not modify 22K.

LNB Power

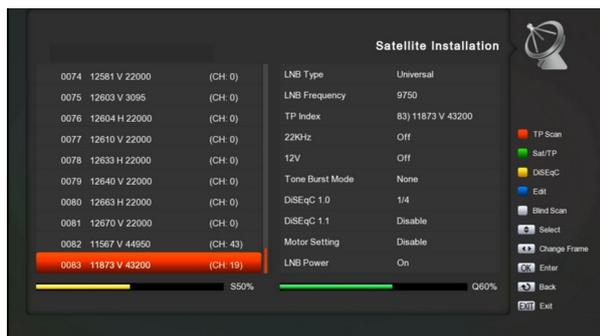
In “LNB POWER” item, you can press [OK] key and press [up/down] key to switch “On/Off” functions.

Polarity

In Satellite item, press [green] key to switch satellite list and TP list , in TP list ,you can press [blue] key to edit TP, in this menu you can set polarity,.

TP Edit

In TP list item, when you press [blue] key, you can add/edit/delete single TP or Delete all TPs.



Single Scan

In satellite list item you can press [Red] key to set the scan mode and scan type for the current satellite.

TP Scan

In TP list item, Press [OK] key to select TP and press [red] key to scan current TP’s programs.

Auto DiSEqC

Press [yellow] key to select DISEqC mode, press [ok] key to run Auto DiSEqC function, it can find the satellite connect to which port automatically.

Blind Scan

Press [White] key can directly into blind scan mode to scan the current satellite.

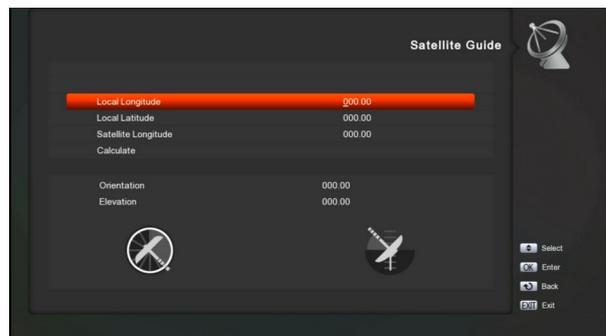
10.2 FastScan Satellite

In this menu, you can search the channels fast by select the provider and press OK button on Start Search item.



10.3 Satellite Guide

When you enter to “Satellite Guide” menu, you will see the screen like below:



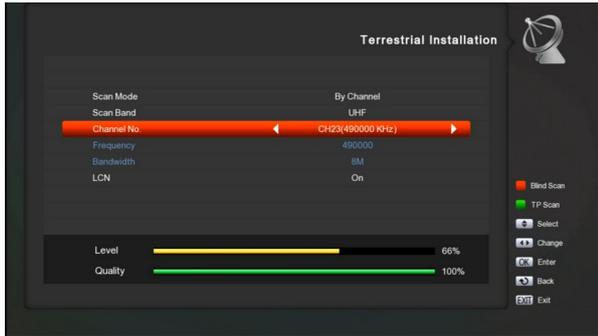
“Satellite Guide” is use for user to enter local longitude; local latitude and satellite longitude; it can calculate the Orientation and elevation value.

10.4 Terrestrial Installation

Press [OK] key to enter the selected item.



- 1 You can select the Bandwidth according different country.
- 2 You can set the Tuner Power and LCN ON/OFF.
- 3 Press [Red] key can directly into blind scan mode to scan the current programs.
- 4 Press [Green] key to enter the following menu.

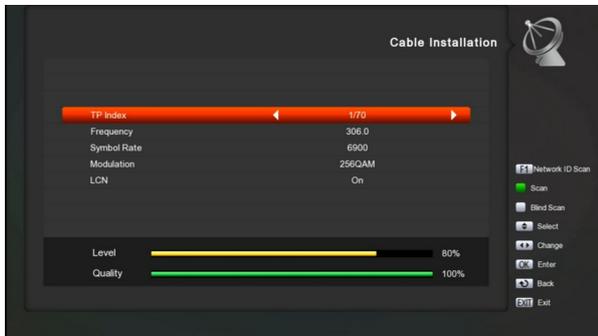


Scan Mode.

- 1 There are two modes. You can scan channel bychannel or by frequency”.
- 2 When scan band is UHF and region is “France”,the range of Ch No. is from 21 to 69. When scan band is VHF and region is “France”, the range of Ch No. is from 1 to 9. (it’s according to region)
- 3 Press [Red] key to enter blind scan menu, or press [Green] key to enter TP scan menu.
- 5 Press [BACK] key to exit the scanning.

10.5 Cable Installation

Press [OK] key to enter the selected item.

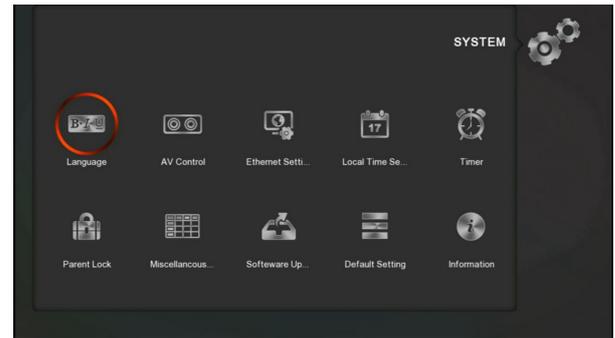


- 1 You can select the Scan Mode, Manual Scan or Blind Scan.
- 2 You can input the Frequency by use the numeric button of the RCU.
- 3 You can input the Second Frequency by use the numeric button of the RCU, if you set the Scan Mode to Blind Scan.
- 4 You can input the Symbol Rate by use the numeric button of the RCU.
- 5 You can select the QAM value among 16QAM,32QAM,64QAM,128QAM and 256QAM.
- 6 You can turn ON or OFF the LCN Search, if you set the Scan Mode to Manual Scan.

- 7 When you complete your modification, press [Green] button on Search item to enter Scan menu and then.
- 8 Press [White] key to enter blind scan menu.

11. System

When you enter to “System” menu, you will see a screen like below:



In “System” menu:

- 1 Press [Left/Right] key to select menu items among Language, A/V Control, Ethernet Setting, Local Time Setting, Timer, Parent Lock, Miscellaneous Settings, Software Upgrade, Default Setting and Information.
- 2 Press[OK]key to enter the selected item.

11.1 Language

When you enter to “Language” menu, you will see the screen like below:



- 1 Language: press [Left/Right] key to select menu languages, the selections of languages include: French, English, Spanish,Russian, German, Greek, Italian, Portuguese,Arabic, Polish. etc.
- 2 First Audio: Some channels have more than one audio language for choosing; by this function you can set the first audio for this channel. If the playing channel has the same audio as the “First Audio” you set, system will play this audio

language as default. If the channel hasn't the suited audio language, then the system will compare automatically with second audio language. The selections of audio languages include: English, French, German, Russian, Arabic, Portuguese, Turkish, Spanish, Polish and Italian.

- 3 2nd Preferred Audio: If the channel has no correspond audio with "First Audio" but have corresponded audio with "Second Audio", system will play the second audio language as default. If no audio language corresponds with the "Second Audio", then the default language of current channel will be played automatically.
- 4 Audio Priority: Press [Left/Right] key to select Dolby or Language.
- 5 EPG Language: Press [Left/Right] key can select EPG language.
- 6 Subtitle Language: Press [Left/Right] key can select subtitle language.
- 7 2nd Preferred Subtitle: If the channel has no corresponded subtitle with "First subtitle" but have corresponded subtitle with "Second subtitle", system will play the second subtitle language as default. If no subtitle language corresponds with the "Second subtitle", then the default language of current channel will be played automatically.
- 8 Teletext Language: You can set teletext language. If the streams have this language you can see the teletext in language you set.
- 9 Press [MENU] key to draw back from "Language" menu.

11.2 A/V Control

When you enter to "A/V Control" menu, you will see the screen like below:

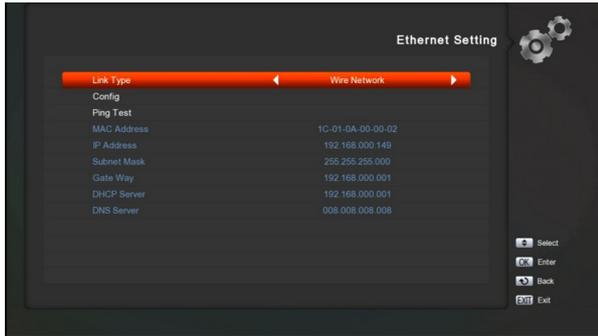


Display Mode is for switching the system outputting video resolution. Move highlight on it and press left or right key, it will switch video resolution circularly by the sequence "AUTO Detect ", "480p", "576P", "720P_50", "720P_60", "1080i_50", "1080i_60", "1080P_50" and "1080P_60". This effect is equal to press V.MODE Key under Full Screen and their last setting saving will be efficient for each other's. By Source means system will set the video output resolution according to the program it's playing, different resolution programs switching perhaps will makes TV screen flickering. By Native TV means system will be according to the HD TV's max supported resolution to set its resolution, if system is not connected to a HDMI TV, it will set resolution to be default

- ◆ Aspect Mode is for switching the screen aspect ratio mode. Now we provide below options: Auto /4:3 PS / 4:3 LB / 16:9/Full screen. You can press [Left/Right] key to select each mode circularly.
- ◆ Volume Set: Press [OK] key and [up/down] key to select Global or Each, Global means when you adjust the volume on one channel, then all channels volume will be adjusted. "Each" means when you adjust the volume, then only current channel volume will be changed.
- ◆ HDMI Audio: press [OK] key and [up/down] key to select Mute, PCM or RAW, this menu controls the HDMI port for digital audio output function.
- ◆ SPDIF is for switching the SPDIF audio output, The same parameter settings like HDMI Audio
- ◆ OSD Transparency: setting the OSD transparency.
- ◆ Contrast / Brightness / Saturation /HUE : adjust the parameter about the Video image
- ◆ Press [MENU] key to draw back from "A/V Control" menu.

11.3 Ethernet Setting

When you enter to "Ethernet Setting" menu, you will see the screen like below:



Wire Network.

- 1) Select **Wire Network** on **Link Type** item.
- 2) You can configure the Ethernet setting options.
 - 1 **DHCP:** The system will automatically assign a dynamic IP address to the digital receiver
 - 2 **Static IP:** The IP Address, Subnet Mask, Gateway and DNS options become enabled. You have to set these options according to your IP address by manual.
 - 3 **Bootp:** The system will automatically assign a dynamic IP address to the digital receiver ,but in diskless workstation LAN to effective
 - 4 **PPPOE:** In this menu you can get the IP parameters via dial-up access, but need the network operators provide account and password, then enter "Start" to get the IP address.
- 3) Press [Menu] key to save and exit.

Wifi Network

- 1) Select **Wifi Network** on **Link Type** item.
- 2) When you insert the wifi dongle, the screen will display a message like "[wifi] device plug in" after about 5 seconds.
- 3) Select "config" menu the wireless LAN network list will appear, Select you Wi-Fi network and press [ok] key, at last input password. Select Link menu to connect to the wireless LAN network. if you have wireless LAN network no found ,you can press [green] key to add by manual:

SSID: The network name.

Network type: Press [OK] key and [up/down] key to select AD-Hoc or infrastructure

Encryption: Press [OK] key and [up/down] key to select No Security, WEP-64bit ASCLL and WEP-64bit HEX etc.

Password: Press [ok] key to input the password.

Auto Link: When you select this menu, if the wifi dongle connect to a network successful and then remove the wifi dongle, it will connect to the same network automatically when you insert the same wifi dongle again.

- 4) You can press [red] key to refresh the AP list and press [yellow] key to disconnect the AP.

Ping Test

You can use this function to check the network connection status, you can input IP address which you want to check and enter Start to run the IP ping function.

ignal, input the password to connect with network.

11.4 Time Setting

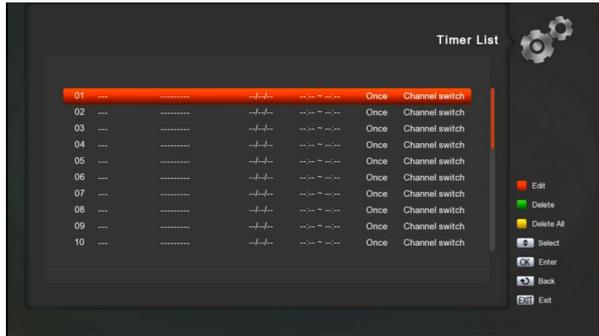
When you enter to "Local Time Setting" menu, you will see the screen like below:



- ◇ GMT Usage: This item is use for open the usage of GMT. You can press [Left/Right]keys to switch "SAT", "NTP" and "Manual"
- ◇ GMT Offset: You can press [Left/Right] keys to switch "GMT Offset" value and the range are "-12:00 ~ +12:00" increase each half hour progressively.
- ◇ You can press [Left/Right] to control Summer time on or off.
- ◇ "Date" and "Time" items are valid only when the setting of "GMT Usage" is "No". You can press [Left/Right] keys to moving highlight and use number keys to input directly.
- ◇ Press [MENU]key to draw back from "Local Time Setting" Menu.

11.5 Timer

Press [OK] key to open timer menu.



1. You can set the Timer event in this menu, there are 27 timer events you can add in total.
2. Press color key can implement the corresponding functions.
3. If you set the timer type as recorder to HDD, you should connect the HDD and setting the record parameter in PVR Setting menu first.

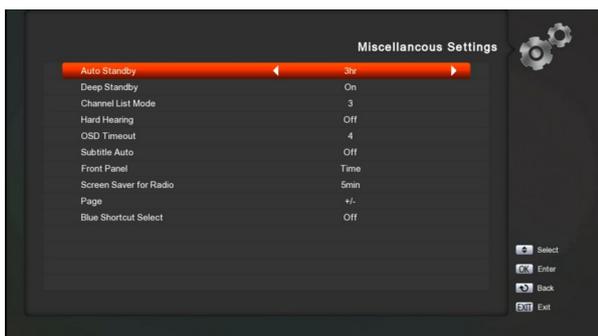
11.6 Parental Lock



In this menu you can set a password for anyone who wishes to operate in the main menu. You can also set the password for the lock channels and setting Parental Rating. (The default Password is "0000"): You can use the Change Pin Code menu to modify the password

11.7 Miscellaneous Settings

When you enter to "Miscellaneous Settings" menu, you will see a screen like below:



- 1 Auto Standby: You can select the time or "Off" in this option, if you select time, duration this time if no any operation on receiver, it will go to standby mode automatically.
- 2 Deep Standby: If you set to "On", Press power key receiver will be in real standby status, the consumption will be less than 0.5 Watt. If it's set to "Off", Press power key, receiver will be in fake standby status, just closed the screen.
- 3 Channel List mode: You can select 1, 2 or 3 for the channel list
- 4 Hard hearing: This function helps the hard of hearing person. But need the program support
- 5 OSD Timeout: duration of info bar showing. You can press [OK] and [up/ down] key to set the time. The range of the duration is "1 second ~ 10seconds".
- 6 Subtitle Auto: control the subtitle showing mode by manual or automatically
- 7 Front Panel: LED panel display mode.
- 8 Screen Saver for Radio: duration for Radio full-screen playing, if no any operation on receiver after the duration, it will go to Screen protect automatically.
- 9 Page: set the page key mode for remote control
- 10 Blue shortcut select : You can set Web TV to Blue Shortcut in full screen

11.8 Software Upgrade



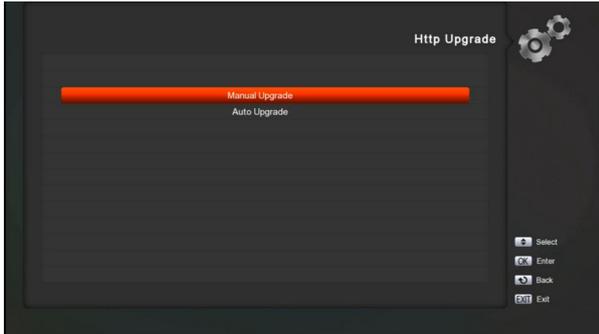
- a) In this menu, you can select upgrade mode by USB, HTTP or FTP, Upgrade By Satellite, Upgrade By Terrestrial, Upgrade By Cable.
- b) if you get the "FTP Upgrade[sunbird].txt" file, you can press [red] key to update the FTP upgrade URL from USB, and if you get "Http Upgrade[sunbird].txt" file, you can press [green] key to update the HTTP upgrade URL from USB.

Note:

You must put the "Http Upgrade[sunbird].txt" and "FTP Upgrade[sunbird].txt" file on the /ROOT DIRECTORY of the USB storage.

1.1.1 Upgrade By USB

In this menu you can upgrade the software from USB conveniently, Press "Left/Right" button select USB A or USB B; press ' OK ' button to enter.

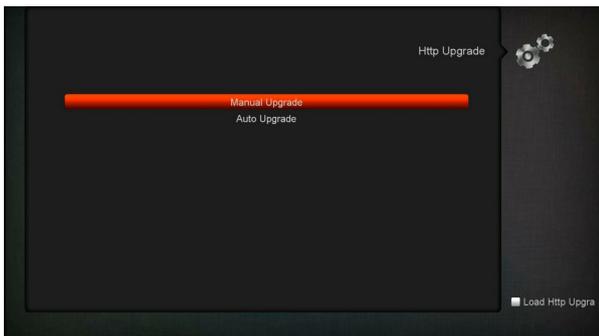


In this menu you can select the Upgrade Mode among Channel list, Software(No channel list), SW+Channel list and All,, and you can select the appropriate upgrade file on "Upgrade File" item. After you select the "Upgrade Mode" and "Upgrade File", press ' OK ' button on "Start" item, the receiver can upgrade automatically

Note:

You must put the upgrade file on the /ROOT DIRECTORY of the USB storage.

1.1.2 Http Upgrade

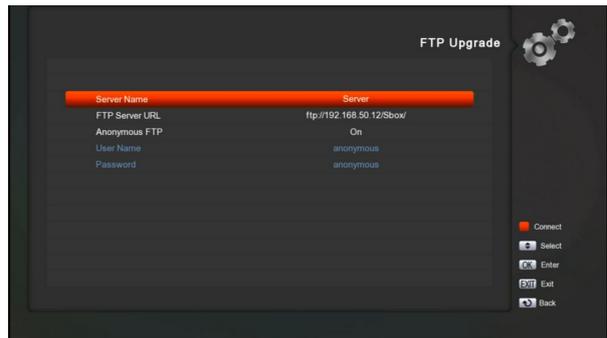


When connected to the Internet, receiver can manually or automatically make software update from file from server.

Note:

This function depends on connection with external server. In case of no software on server, this function will not work.

1.1.3 Ftp Upgrade

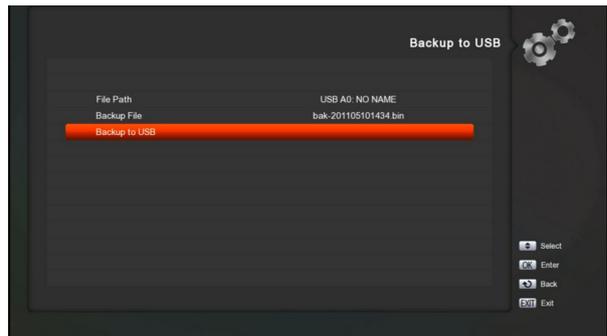


When connected to the Internet, receiver can make software update from file from FTP server.

Note:

This function depends on connection with external server. In case of no software on server, this function will not work.

1.1.4 Backup to USB



In this menu ,you can dump the software to the USB equipment

- 1 In "Backup file",you can press [OK] key to edit the file name.; Press "Left/Right" button select USB A or USB B;
- 2 In "Backup to USB", you can press [OK] to start backup software .

1.1.5 Upgrade By Satellite



This function can upgrade the software through signal lines from the satellite

- 1 Select the satellite and TP or input the TP value and download PID, these parameters you can get from your provider.
- 2 Then move the highlight to the start button and press [OK] button to start upgrade.

1.1.6 Upgrade By Terrestrial



This function can upgrade the software through signal lines from the Terrestrial

- 1 Select or input the Frequency, Bandwidth and download PID, these parameters you can get from your provider.
- 2 Then move the highlight to the start button and press [OK] button to start upgrade.

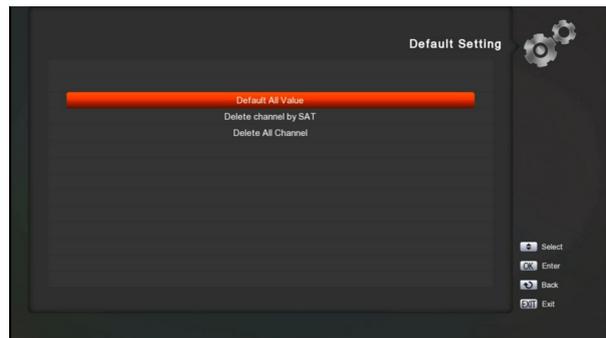
1.1.7 Upgrade by Cable



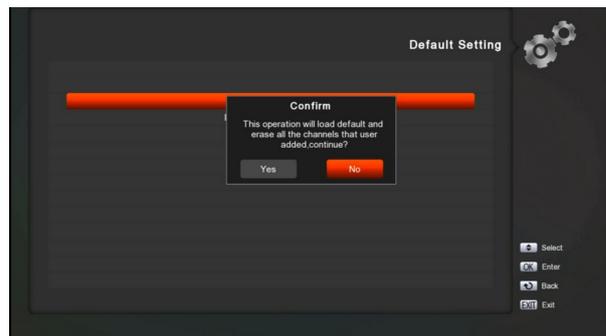
This function can upgrade the software through Signal lines from the cable.

- 1 Input the frequency, Symbol rate, Modulation value and download PID, these parameters you can get from your provider.
- 2 Then move the highlight to the start button and Press [OK] key to begin to upgrade.

11.9 Default Setting



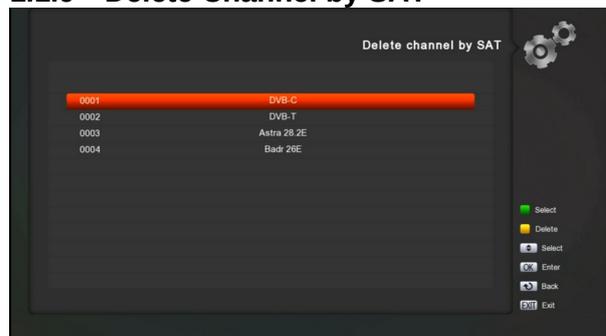
1.1.8 Default Value:



When you press [OK] key In the “Default Setting” item:

- 1 There will pop a dialogue for you to enter the password, and the default password is “0000”.
- 2 After you input the correct password, there will show a warning message to inquiry you “The operation will load default and erase all the channels that user added, continue?”.
- 3 If you select “OK” option, the all revised parameters of the receiver will reset to default value. Please carefully to using this function.
- 4 In step 1 and step 2, press[BACK]key can draw back from this item and without saving.

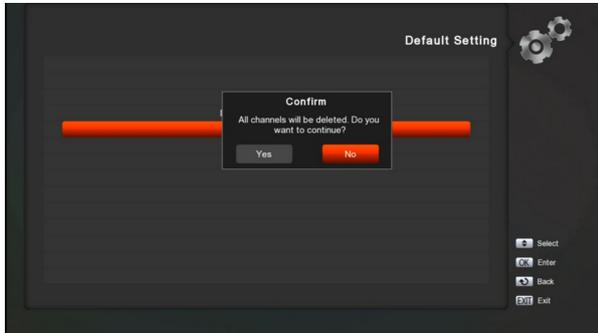
1.1.9 Delete Channel by SAT



When you press [OK] key in the “Delete channel by SAT” item, it will show all satellites which already

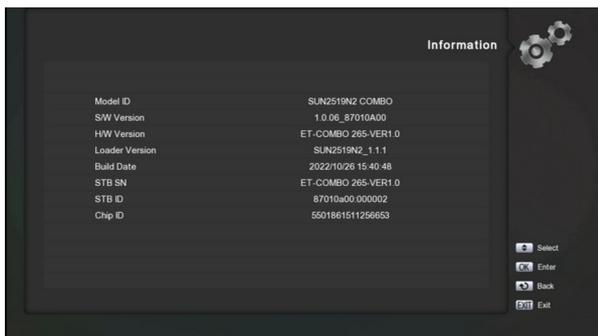
scan channels, you can select the satellite which you want to delete the channels, then press [yellow] key to delete

1.1.10 Delete All Channel



When you press [OK] key in the “Delete All Channel” item, it will pop a dialogue ask you whether confirm to delete all channel. If you select “OK”, all the channel will be deleted.

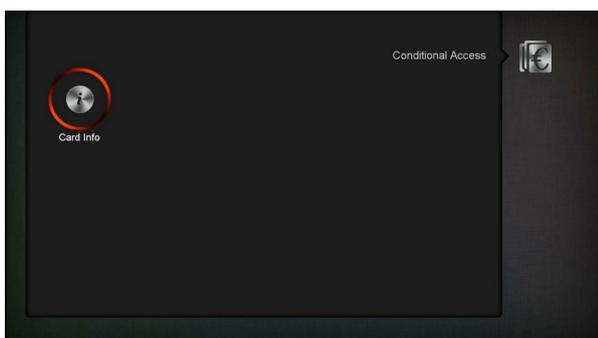
11.10 Information



When you enter to “Information” menu, you will see a screen like above. Display the software and hardware information in this menu.

12. Conditional Access

12.1 CA Setting



We provide one CA slots for user to use. Receiver has build in smart card module with CONAX system. By

using cards in this system provided by operators, it is possible to watch many scrambled channels coded in this system. This menu shows detailed information about cord inserted into cord reader module. It allows inserted according to help messages visible on the bottom of the screen.



Note:

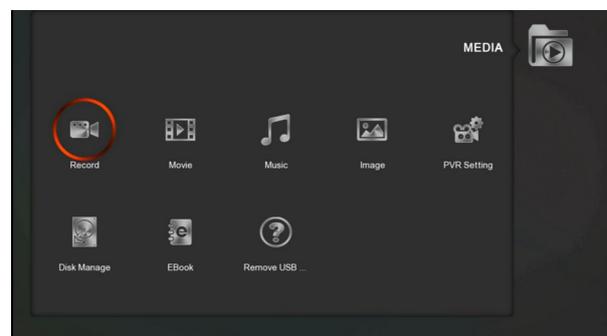
All information showed in this menu and submenu are coming from inserted card. In case if anything is wrong, it could be card problem. After inserting the card correctly at any time, a message-box will show on the screen with message about detecting the card, in "card info" menu all available information will be displayed. You can press [left/right] key to set the message display time.

13. Media

if you enter to the "Media" Menu, you will see the picture like the below:

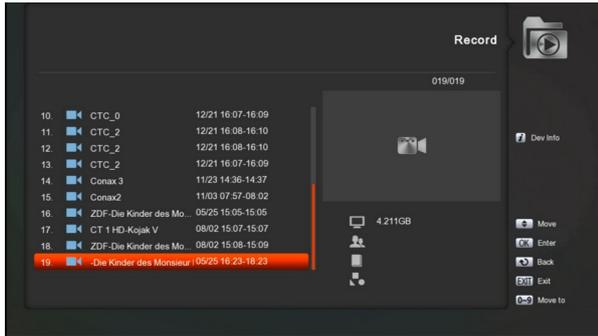
Note:

If no USB Hard Disk insert to the receiver this menu is not available.



13.1 Record

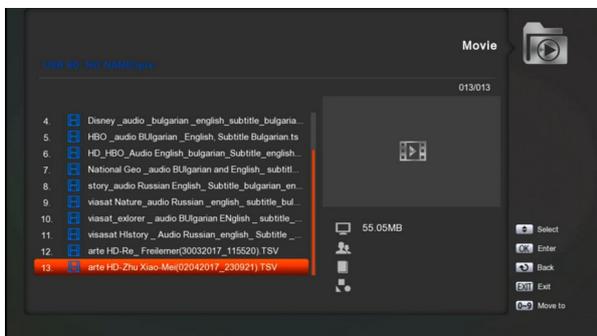
When you enter to the “record” menu, you will see the picture like the below:



1. In this menu you can choose the record file to playback and press [INFO] key to check the current partition details.
2. During playback the record file, you can press [II] and [■] key to pause or stop playback to return "Record list" menu.
3. You can press [◀◀] or [▶▶] key to Fast Backward or Fast Forward,
4. You can press [white] key to setting repeat mode.
5. You can press [blue] key to labeled book marks, support up to 6 times.

13.2 Movie

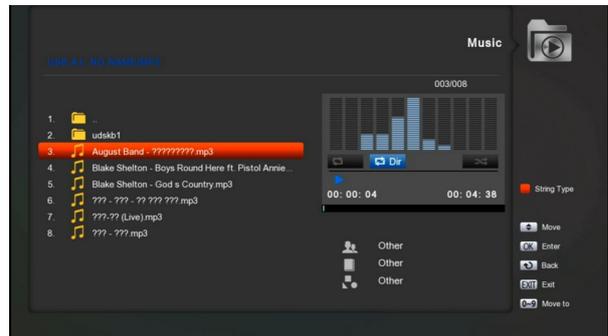
When you enter to the Movie menu, you will see the picture like the below:



1. You can see the video files in this menu, supports most movies formats (for example: TS stream, .m2ts, .AVI, .DivX, etc.),
2. When you playing videos, you can see the detailed information of the video file from the below of the info bar.
3. If the media files have multi-subtitles, you can press [SUBTITLE] key to select the different subtitle to view when playing the movies.
4. If the media files have multi-Audios, you can press [red] key to change the audios during playing.

13.3 Music

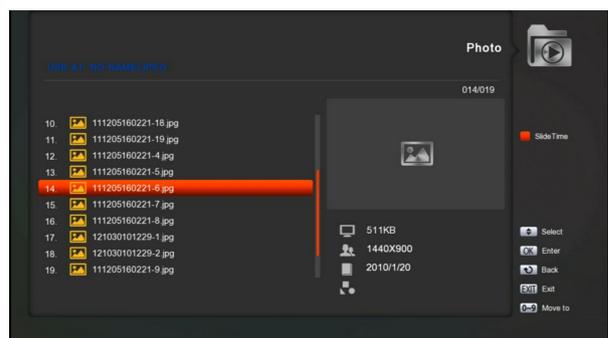
When you enter to the "Music" menu, you will see the picture like the below:



1. The right sides display the file information and the player current repeat mode.
2. If the lyric also in the same folder, it will be displayed on the bottom right side when playing music.
3. You can press [white] key to setting repeat mode, You can press [up / down] key or number key select music to play, press [II] and [■] key to pause or stop playing.
4. You can press [◀◀] or [▶▶] key to Fast Backward or Fast Forward
5. Supports most music formats (for example:.MP3, MPA,WAV, WMA, etc)

13.4 Image

When you enter to the "Image" menu, you will see the picture like the below:



1. You can preview the picture at the image menu, or choose the picture view in full screen. Supports most photos formats (forexample :BMP, JPEG, JPG , PNG, TIF etc).
2. When you view the pictures, you can press [red] key to change the display time and repeat mode,

or press [white] key to setting repeat mode by playing pictures directly.

3. You can press the [OK] key to rotate the picture

13.5 PVR Setting

When you enter to “PVR setting” menu, you will see a screen like below:



1. **Timeshift**

Auto: Time shift function start automatically after switch channels.

Pause: Press the [pause] key or [TMS] key to start time shift function by manual.

Off: Disable the Time shift function.

2. **Timeshift length**

Setting time shift length in this menu

3. **Timeshift to Record:**

On: Means when you press the [REC] key on the timeshift program, it will merge the Timeshift files to the record files.

Off: Means when you record the timeshift program, it just starts when you press [REC] key, not include the Timeshift files.

4. **PVR 1**

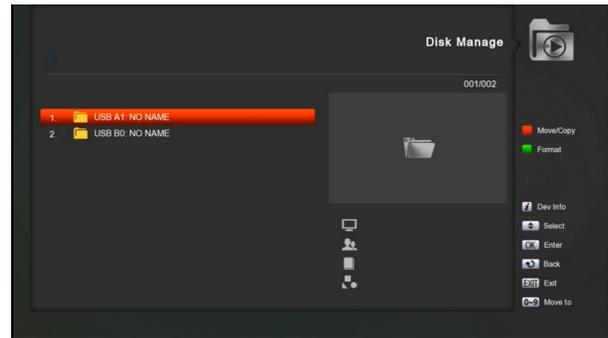
Setting the first channel record file storage path.

5. **Duration**

Setting the record file length in this menu

13.6 Disk Manage

When you enter to “Disk Manage” menu, you will see a screen like below:



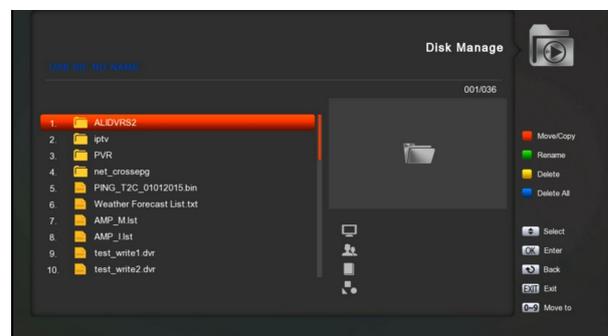
1. In this menu you can manage the files in HDD or format HDD

- ◇ You can press info key to view the HDD information
- ◇ If you had more partition or connect with multi-disks, you can press number key to select the partition or disk directly.

2. In this menu, you can press [red] key to move or copy files and folder, you will see a screen like below:

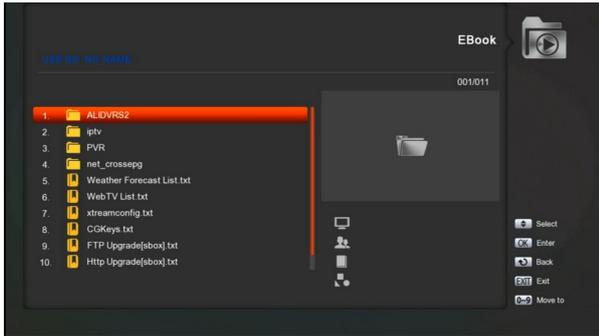


3. Press the color key can make the file copy and move functions.
4. When you select any disk, you can edit the file or folder in the disk by the color keys like below:



13.7 EBook

This menu you can read the eBooks, when you select this menu, you will see a screen like below:



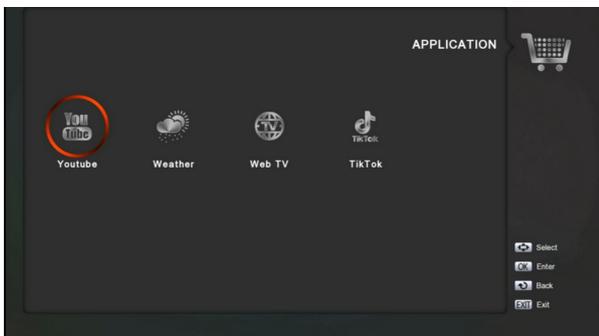
13.8 Remove USB Device safely

Use this menu you can remove the USB Device safely



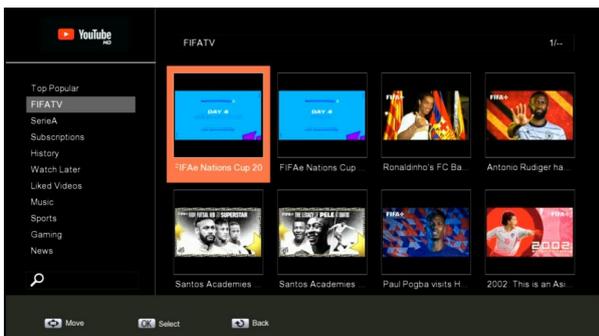
14. Application

If you enter to the " Application " Menu, you will see the picture like the below:



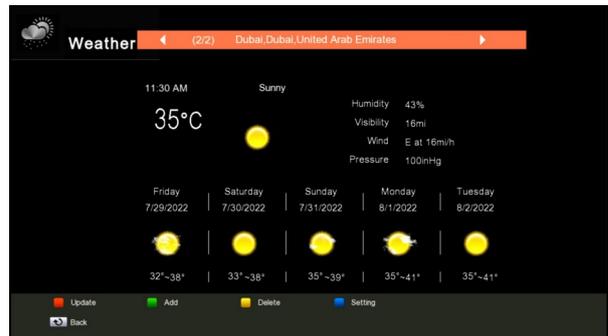
14.1 Youtube

This menu is some internet applications. "youtube" can play stream media from "www.youtube.com". When you enter this menu, you will see a screen like below:



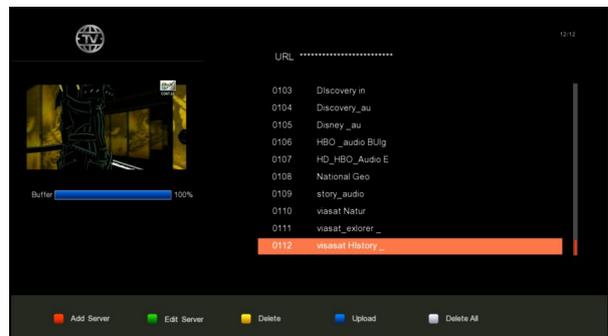
14.2 Weather

In this menu you can see the weather forecast



14.3 Web TV

When you enter to "Web TV" menu, you will see a screen like below:

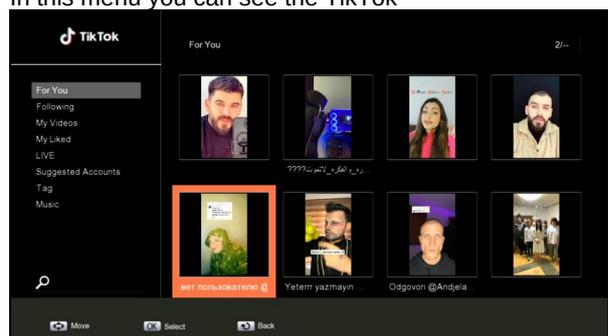


- 1 In this menu you can select your favorite channel to view, press [OK] key play in full screen, you can press [up / down] key to change channels, and press [left / right] key or [volume + / -] key to adjust volume level.
- 2 Press [red] key to add channel URL;
- 3 Press [green] key to edit channel URL;
- 4 Press [yellow] key to delete channel URL
- 5 Press [white] key to delete all channel URL.

If you get the "WebTV List.txt" file, you can add more channels and press [blue] key to update the channels from USB.

14.4 TikTok

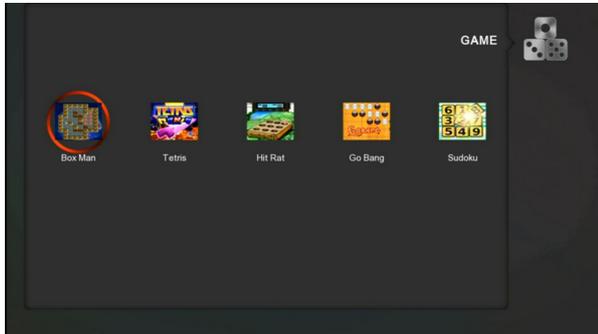
In this menu you can see the TikTok



You can use the application according to the help information.

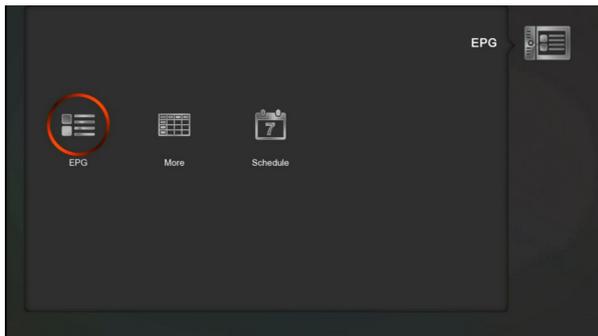
15. GAME

When you enter to "Game" menu, you will see a screen like below:



16. EPG

Press 'OK' button to this menu you can see the picture like the below, you can select EPG more and Schedule. This Function is same as EPG.



17. New Features

17.1 Time Shift

If you connect the USB HDD, and enable the Time Shift function in the menu "Main Menu/ Media/ PVR Setting/Time Shift",

It will start the Time Shift function automatically after you switch the program, and when you press the "Tms" button the Time Shift info bar will be displayed as the following picture:

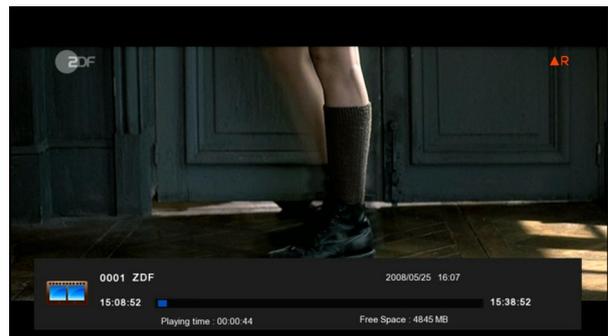


- 1 You can press "||" button to pause the video.
- 2 You can press "◀" or "▶" button to Fast Backward or Fast Forward.
- 3 Press "left" or "right" button to jump to different position, then press "OK" button to confirm.
- 4 Press "■" button to exit the playback.

17.2 Record

If you connect the USB HDD.

You can press "●" button to start record function, as following picture:



- 1 Press "▶" button to display the record info bar when you recording.
- 2 Press "●" button again to setting the record time.



- 3 You can press "||" button to pause the video.
- 4 You can press "◀" or "▶" button to Fast Backward or Fast Forward.
- 5 Press "left" or "right" button to jump to different position, then press "OK" button to confirm.
- 6 Press "■" button to stop the recording.

18. Trouble Shooting

If you suspect there is a fault with your receiver, please check the following trouble shooting guide before calling authorized service agent.

Warning! Under no circumstances attempt to repair the receiver yourself. Tampering with the receiver may result in fatal electric shock and will invalidate your warranty.

Symptom	Possible cause
Settings you made in the menu have not change	The receiver lost power before being able to enter into standby mode Some of the Settings saved by user can be deleted partly or fully
No signal	The level of signal is weak LNB is out of order The cable from the LNB is incorrectly Connected (short circuit or open circuit) The position of dish is aligned incorrectly
Receiver is on but no picture or sound except the following messages (NO TV program)	Channel is not available Channel is scramble
Receiver not responding to remote control unit	RCU batteries are dead or inserted incorrectly The RCU is pointing toward wrong direction
Poor picture Quality	The level of Signal strength is low
No sound	The cable is connected incorrectly The Volume level is low Muting function is active
No display on the LED Display Panel	The power cord is not plugged in correctly.
No picture on the screen	Receiver is in Standby mode RCA Jack or cable is not connected firmly to the video output port of television Incorrect channel or video output is selected on television Brightness level of your TV set is incorrectly defined

19. Specifications

SYSTEM RESOURCES	
Main Processor	594MHz based CPU
Flash Memory	8 Mbyte
DDR SDRAM	128 Mbyte
Tuner/Front-end(Optional)	
Tuner Type	DVB-S / DVB-S2
Input Connector	F-type, Connector, Female
Signal Level	-65 to -25 dBm
LNB Power & Polarization	Vertical: +13V
	Horizontal: +18V
	Current: Max. 400mA
	Overload Protection
22KHz Tone	Frequency: 22±1KHz
DiSEqC Control	Amplitude: 0.6±0.2V
	Version 1.0, 1.1 1.2, USALS Available, Unicable
Demodulation	QPSK, 8PSK
Input Symbol Rate	1-45 Mbps, Convolution Code Rate
Forward Error Correction (FEC)	DVB-S 1/2, 2/3, 3/4 5/6, 7/8
	DVB-S2 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
Tuner Type	DVB-T2/T/C
Input Connector	IEC-type, Connector, Female
Frequency Range	47MHz~862MHz
Input Level	-82.0dBm and -20.0dBm
Active ANT Power	DC 5V at max 75 mA, Overload protection
Bandwidth	VHF/UHF: 6MHz, 7MHz, 8MHz
Demodulation	COFDM
Transmission mode(FFT)	1k, 2k, 4k, 8k normal and extended, 16k normal and extended, 32k normal and extended.
Constellations	QPSK, 16-QAM, 64-QAM, 256-QAM
	Both rotated and non-rotated
Guard intervals	1/4, 19/256, 1/8, 19/128, 1/16, 1/32, 1/128
Code rate	DVB-T: Viterbi + Reed Solomon 1/2, 2/3, 3/4, 5/6, 7/8.
	DVB-T2: LPDC + BCH 1/2, 3/5, 2/3, 3/4, 5/6.
Scattered Pilot Pattern	PP1, PP2, PP3, PP4, PP5, PP6, PP7, PP8
DVB-T2 Input Profiles	Input Mode A-Signal PLP, input Mode B-Multiple PLPs(Common PLP, Type 1 and 2 up to the maximum allowed figure 255)

POWER SUPPLY	
Input Voltage	Free Voltage (100~240V AC, 50/60Hz)
Power Consumption	20W MAX
MPEG TS A/V Decoding	
Transport Stream	MPEG-2, H.265
Input Rate	Max.120Mbit/s
Aspect Ratio	4:3, 16:9, Letter Box
Video Decoding	MPEG-2, MP@ML, MPEG-4 part 10/H265
Video Resolution	720*480P/I, 720*576P/I, 1280*720p,1920*1080i, 1920*1080P
Audio Decoding	MEPG-1 layer I/II, Mpeg2 layerII, Dolby digital
Audio Mode	Left / Right / Stereo/ Mono
Sampling Rate	32, 44.1 and 48KHz
A/V & DATA INPUT/OUTPUT	
AV OUT	Video CVBS output
	Audio L/R output
IR	38Khz
RS-232	Transfer rate 115.2Kbps
LAN	100M
USB	Two USB 2.0 slot Compatible
HDMI	VER1.3
	Type A
PHYSICAL SPECIFICATION	
Size[W*H*D]	146×120×35mm
Net Weight	0.5KG
Operation Temperature	0°C~+45°C
Storage Temperature	-10°C~+70°C
Storage Humidity	5%~95% RH (Non-Condensing)

Specifications are subject to change without further notice.

The manufacturer does not assume any responsibility regarding any errors or mistakes in printing.

Please note that new software may change the features of the receiver.

The manufacturer holds the rights of changes without any further notice.

The image shown here is indicative only. The actual product may differ.