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1. SAFETY

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

MAINS SUPPLY: 100 - 250V 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.

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 8000 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.264) HD compliant
- 8000 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
- S/PDIF for digital audio or Dolby digital bitstream output
- DiSEqC 1.0, 1.1, 1.2 and USALS
- HDMI HD Video/Audio Output
- USB 2.0 Host
- VFD Display for service information
- 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 on from standby or standby to on.

MUTE
Used to enable or disable the audio

NUMERIC KEYS
Used to select channels or enter programming parameters

(TV / RADIO)
Receiver switches between TV and Radio mode.

(ZOOM)
Press key select zoom times, from X1 to X16.

(PREVIOUS)
Return to the previous menu or status.

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

TV/RCV
Receiver switches between TV and receive mode.

(INFORMATION)
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.

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

OK
To select menu option, or to updated on entry.

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

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

P+/P-
To move up the cursor to the next or previous page in the menu or channel list.

(RED KEY)
Has different functions per menu.

Teletext(GREEN KEY)
Shows teletext information of the current channel supports.

Subtitle(YELLOW KEY)
Subtitle Display.

(BLUE KEY)
Multi channels display. You can choice the desire channel use <,> ^,v and press ok confirm.

UHF
In case your TV is connected through RF Modulator (UHF), select output channel number between CH21 and CH69 with up and down key.

(FIND)
Use to prompt find channels sort by character.

TIMER
Press timer key you can setup up the Standby time.

P/N
Press P/N button to switch the display mode among "By source", "By native TV ", "480i", "480P","576i","576p","720P" and "1080i".

FAV(FAVORITE)
To set receiver to the favorite server mode,

display the favorite channel.

Archive

Press this button to enter the Record Manager menu directly.

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.

● ***Record***

To start recording.

◀◀ ***FB***

To start Fast Backward function.

▶▶ ***FF***

To start Fast Forward function.

◀❚ ***SB***

To start Slow Backward function.

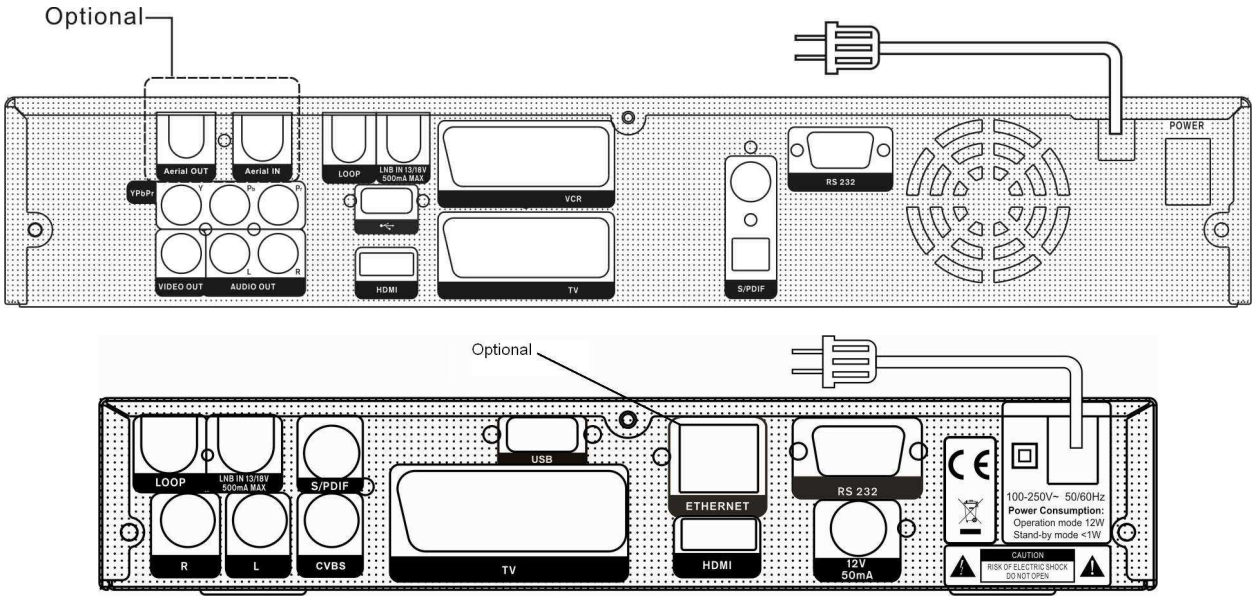
❚▶ ***SF***

To start Slow Forward function

5. Front panel

POWER KEY: To switch the receiver power on/stand by
MENU KEY： To enter into the main menu.
<,> KEY: To adjust volume level, or to move cursor left or right in the menu.
^, v KEY : To change channels, or to move cursor up or down in the menu
OK KEY: To see TV/Radio channel list, or to confirm in the menu.
Remote Sensor: Detects infrared signal from remote control unit
Display: Indicates operating status of receiver
POWER Indicator: while the receiver is power on and at standby mode.
Signal Indicator: When receiving signal is strong, the signal indicator is lighted.
Card Slot: One or two (optional) slots CA Interface for Conax, Insert the smart card chip side up!
Display: (LED type) Indicates operating status of receiver

6. Rear Panel

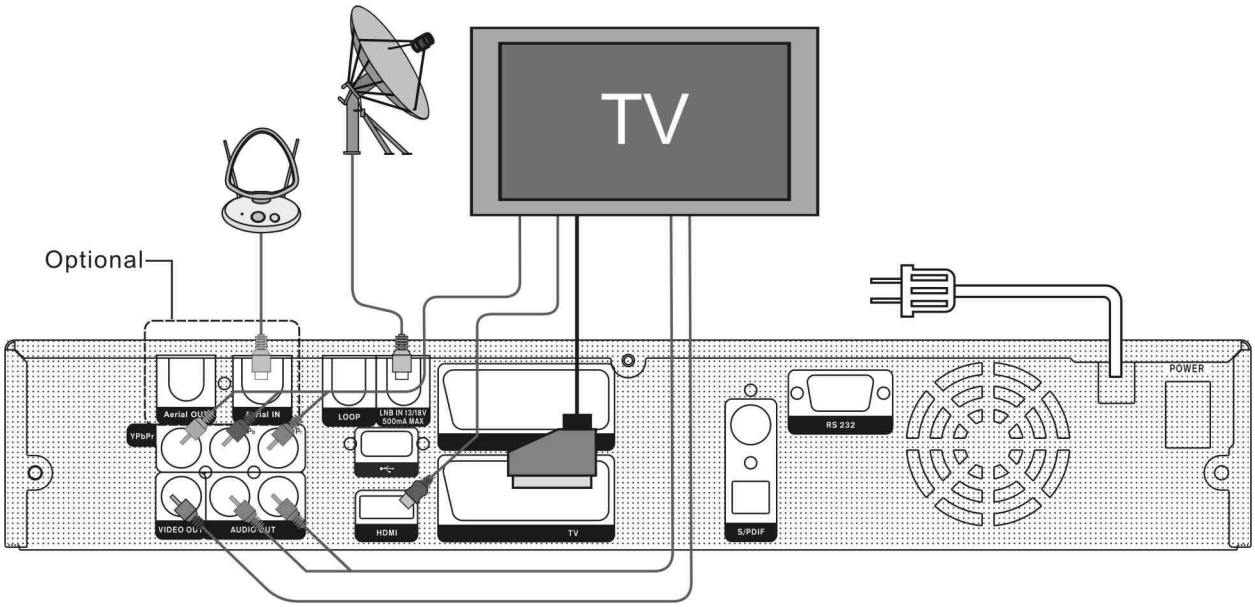


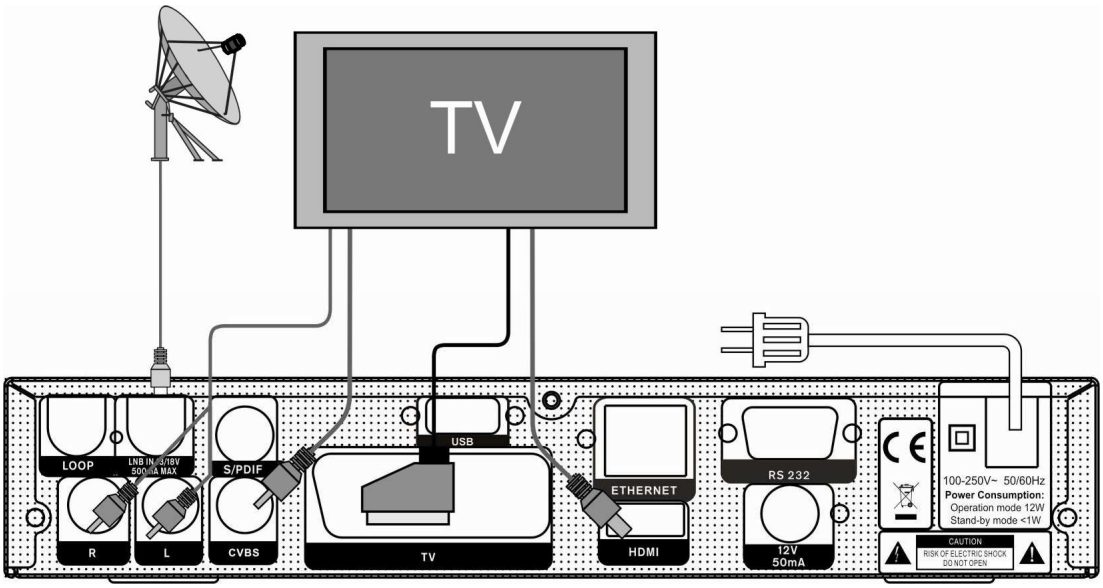
Please refer to the diagram above for all possible connections of your receiver
Do not connect the unit to the mains socket until all other connections have been made and checked.
Your configuration can vary depending on model

AERIAL OUT: This enables the connection of another receiver. (Optional)
AERIAL IN : This port is to connect the coaxial cable from terrestrial antenna. (Optional)
POWER ON/OFF SWITCH: To switch ON/OFF the receiver power supply.
LOOP: This enables the connection of another receiver. (Optional)
LNB IN 13/18V 500mA MAX: This port is to connect the coaxial cable from LNB of your Dish. (Optional)
TV : This is used to connect your TV through SCART cable.
VCR: Audio and Video input/output socket for the Video cassette recorder or suchlike.
VIDEO : This RCA connector is used to connect any external video.
0/12V 50mA: This is used to Connect 12V to an external 0V/12V switch.
AUDIO R/L : These RCA connectors are used to connect any external audio amp or system.
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.
USB: USB 2.0 Host, connect to USB hard disk, or flash disk
RS 232C SERIAL PORT: This is used to connect your receiver to a computer through a serial cable.
YPbPr: Component video output socket for the television set.
Ethernet: Network port, you can get a new software updates from this port. (Optional)

7. Connecting Your System

There are four 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 SCART cable to the TV (SCART) jack on the back of the receiver and the other end to a SCART jack on your TV.
3. Connect one end of RCA cable to the RCA jack on the back of the receiver and the other end to a RCA jack on your TV.
4. You will need to obtain a component video Cable (RCA cable) to use the component video connector, Plug one end of the Cables into the Y(Green), Pb(Blue) and Pr(Red) Sockets on the digital receiver, and the other end into the matching sockets on your television.





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

With External Audio / Hi-Fi System

To connect any external Audio Hi-Fi system, the receiver has been provided with two RCA connectors at the back of the receiver marked with Audio L and R.
Connect an RCA stereo cable from the AUDIO L, R jacks on the back of the receiver to the LINE, AUX, SPARE OR EXTRA input jacks on your Hi-Fi System.

7.1 TV with Motorized System (DiSEqC 1.2)
Connect one end of your coaxial cable to the LNB IN connector on the receiver and the other end to the REC or Receiver connector on the DiSEqC 1.2 motor.
Connect the coaxial cable from the LNB to the LNB connector on the DiSEqC 1.2 motor.

All our receivers are designed to be DiSEqC 1.0 and DiSEqC 1.2 compatible.
This allows multiple antennas to be connected to the receiver at the same time.
If you have two or more fixed antennas or LNBs, then we recommend you use a DiSEqC 1.0 switch.
Connect the coaxial cable from the first LNB to the LNB 1 or LNB A input connector of the DiSEqC switch.
Do the same for any other LNBs that you have.
Connect one end of a coaxial cable to the RF output connector of the DiSEqC switch, connect the other end to the LNB IN socket on the receiver.
To the digital receiver, you can connect either a single satellite antenna directly or LNB of multi-feed equipment.

8. Basic Operations

8.1 Turn on STB

First, press the [Device's Main Power] 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.

? Frequently Asked Question

Q: The power of my STB has been turned on and not in Standby mode, but the TV screen showed nothing:

A: Make sure the TV set has been set to the correct video input (not the TV channels). For example, if you have connected the unit with the Video1 input of the TV set, the TV set has to be switched to Video1.

Q: The power of my STB has been turn on and not in Standby mode, but the TV screen showed nothing except one box with "No Signal" image.

A: That means the channel, which you select, is no signal. It could be several causes:

1. The channel which you select is not in your allocate satellite. The simply solution is to change channel.
2. The signal of current TV channel is too weak. You can try to change channel to other strong signal channels. If the problems still exist, please consult your local dealer or other professionals for technical service.
3. You use the Dual LNB, and you need Modify LNB Type

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 Channel Up/Channel Down

In full screen, press [CH+/CH-] to change channel.

8.4 Volume Up/Volume Down-

In full screen, press [VOL+/VOL-] to adjust volume.

8.5 Number

In full screen, use number key and press [OK] on the Remote Control Unit to change channel.

8.6 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.

8.7 Pause

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

8.8 Recall

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

8.9 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 [Exit] key to exit the current window.

? Frequently Asked Question

Q: Why the screen displays “No Favorite Channel”, after pressing [Favorite] key?

A: It is because that you haven’t set any channels as “favorite channel”. Please refer to Favorite

8.10 Audio

1 In full screen, press [AUDIO] 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 [Volume Up / Volume Down] key.

3 Mode: Left/Right/Stereo/Mono

8.11 Information

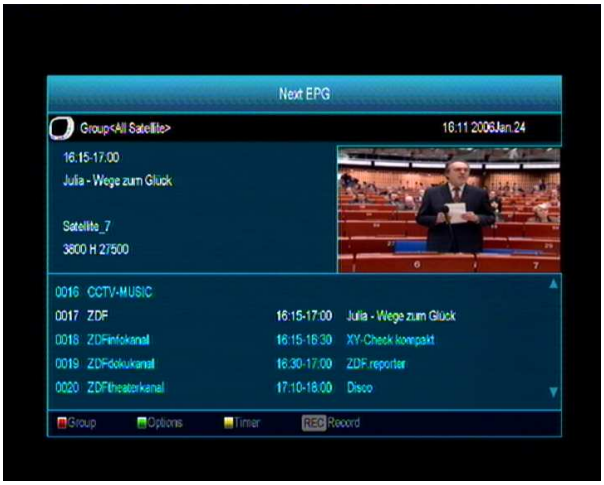
In full screen, press [INFO] key (press [INFO] key and [RED] key) can open information screen, in the window shows the parameters of current channel.

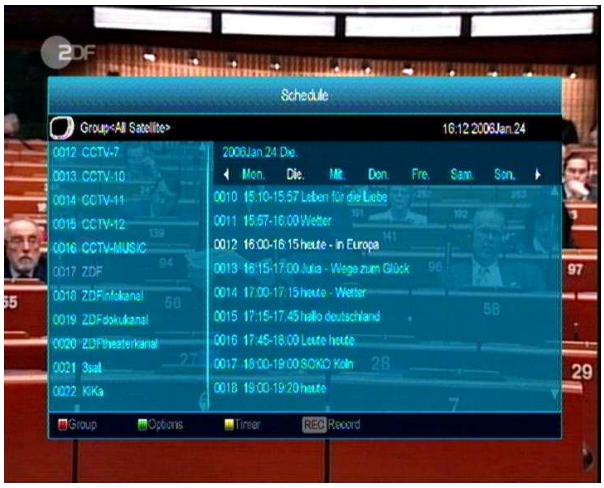
8.12 EPG

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, More and Schedule, 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 [Exit] to close EPG screen.

8.13 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.

8.14 Channel List

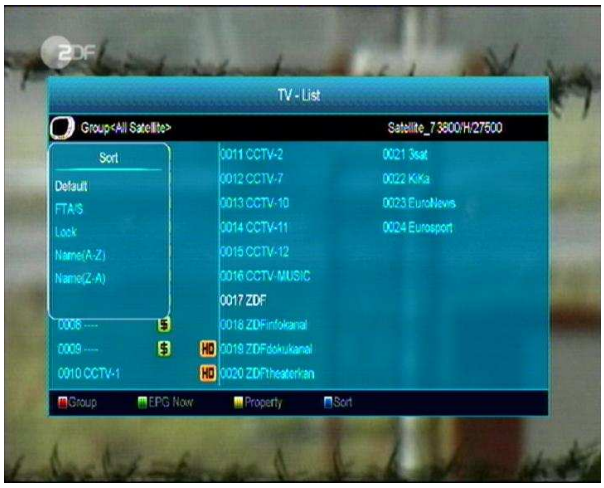
1 In full screen, press [OK] key can enter “Channel List”.

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

3 Press [Green] key to display details information for EPG Now.

4 Press [Yellow] key you can change the current channel’s property, such as FAV/ Lock/ Skip/ Delete/ Rename.

5 Press [Blue] key can open the “Sort” window like 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/$: Sort channel through free and scramble sequence. Free channel will in the front of channel list and scramble channel will at the rear of channel list
- ✧ Lock: Accumulated all locked channels and list in the last of TV Channel List.
- ✧ Name (A-Z): Sorting in Alphabetical Order, ignore “$” 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/Down] key to page up and page Down.

9 Press [Exit] key to exit the channel list.

8.15 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.

8.16 Page Up/Page Down

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

8.17 TEXT

1 Press [green] 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 Data” on the screen.

8.18 Subtitle

1 Press [Yellow] key in full screen, you can switch subtitle on or off.

8.19 Find

1 Press[Find] key in full screen can open the “Find” window like above. You can press[Channel Up/Channel Down/Volume Up/Volume Down]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 Move highlight to “OK” and press [OK] key can close “Find” window and you can select channel from the channels list directly.

8.20 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.

8.21 TV/RCV

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

8.22 Menu

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

8.23 Video Format

1 Press [P/N] (white) 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 “by source-> by native TV -> 480i-> 480P-> 576i-> 576p-> 720P-> 1080i”.

8.24 Exit

1 Press [EXIT] 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:

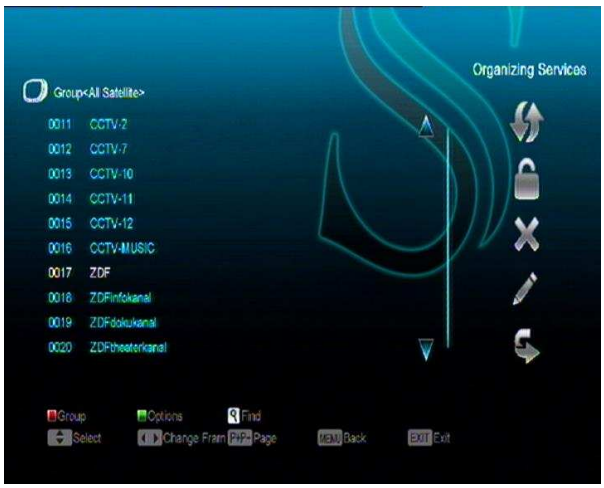
1 Press [Up/Down] key to select menu pages among Service, Installation, Preference, System, Conditional Access, USB and Game.

2 Press [OK] key to enter the “Organizing Service”.

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.

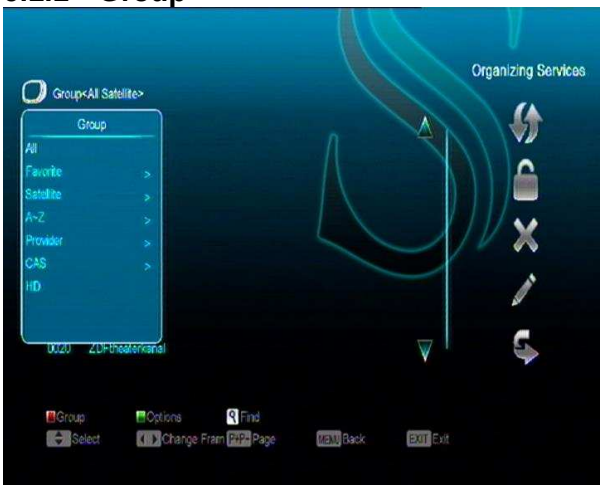
2 You can press [Page Up/Page Down] key to implement the Page Up/Page Down function.

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”.

9.1.1 Group

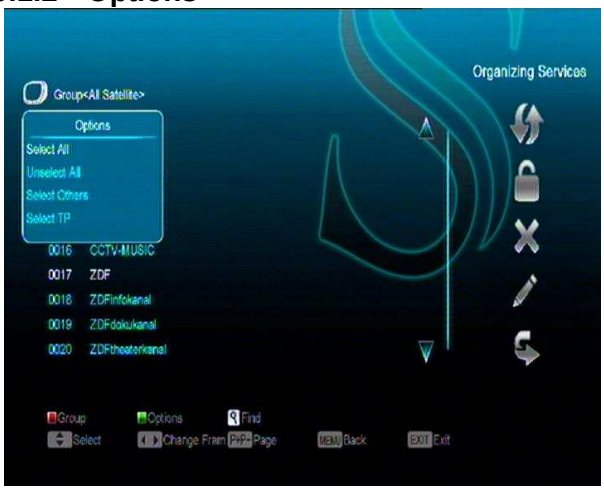


1 Press [Red] key can open the “Group” window like above

2 You can press [Up/Down] key to move highlight and press [OK] key to select group.

3 Press [Menu] key to close “Group” List.

9.1.2 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.

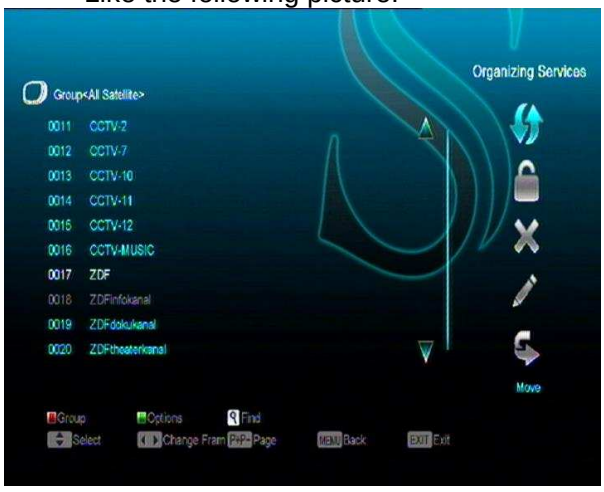
9.1.3 Move

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:



9.1.4 Lock

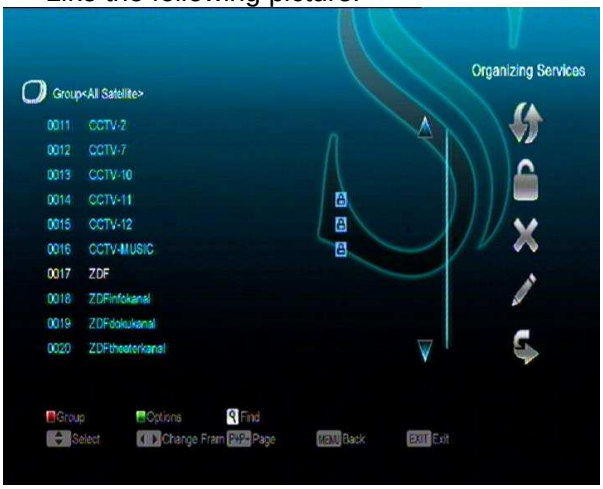
1 Select the channels which you want to edit in channel list by press [OK] key or other select mode.

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:



9.1.5 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.

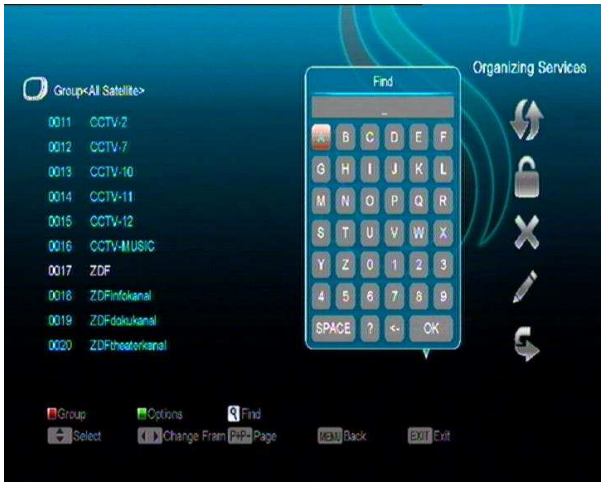
3 Select Delete icon by press [Channel Up/Channel Down] key and [OK] key.

4 Delete the channel by press [OK] key.

9.1.6 Skip and rename

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

9.1.7 Find



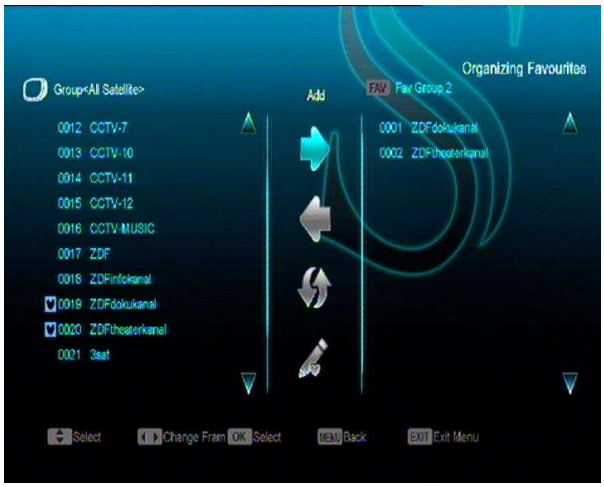
4 Press[Find] key can open the "Find" window like above. You can press[Channel Up/Channel Down/Volume Up/Volume Down]key to move highlight and press[OK]key to input the selected symbol or letter into the dialogue.

5 After input each character, the program list on the left will search the channel according your input, and list the matched channel.

6 Move highlight to "OK" and press [OK] 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.

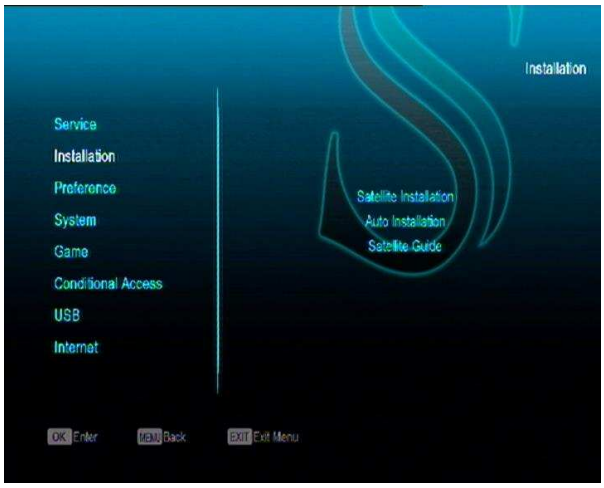
5 **Rename**

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 [Up/Down] key to select menu pages among Service, Installation, Preference, System, Conditional Access, USB and Game..

2 Press [OK] or [Right] key to enter the "Installation".

3 Press [Up/ Down] key to select menu items.

Press [Left] key or [Exit] key to go back to main menu.

10.1 Satellite Installation

10.1.1 Satellite

1 Satellite: Press[OK]key to enter the Satellite list.

2 Press [Up/ Down] key to select satellite. Press [Page] key to page up or page down.

10.1.2 LNB Type

In this item, press[Volume Up/ Volume Down]key can switch among "Standard", "User" and "Universal" mode.

10.1.3 DiSEqC

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

- ✧ Disable: without DiSEqC.
- ✧ 1/2, 2/2: two ports DiSEqC
- ✧ 1/4, 2/4, 3/4, 4/4: 4 ports DiSEqC
- ✧ 1/8, 2/8… 8/8: 8 ports DiSEqC
- ✧ 1/16, 2/16….16/16: 16 ports DiSEqC

10.1.4 Positioner

Positioner: In "Positioner" item, you can press [Volume Up/ Volume Down]key to switch "None / DiSEqC 1.2 / USALS" functions.

10.1.5 22K

You can use[Volume Up/ Volume Down]key to switch “ON / Off”. When this item is switched to “ON”, receiver will receive TV and radio input signal from 22K port. If the item is switched to “Off”, the receiver will receive all signal from 0K port.

! Notice

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

10.1.6 0/12V

You can use[Volume Up/ Volume Down]key to switch “0V / 12V”. When this item switches to “12V”, receiver will receive TV and radio input signal from 12V port. If the item switches to “0V”, the receiver will receive all signals from 0V port.

10.1.7 Tonebusrt

In “Toneburst” item, you can press [Volume Up/ Volume Down]key to switch “Off/On” functions.

10.1.8 Polarity

In “Polarity” item, [Volume Up/ Volume Down]key to switch “Auto / H / V” functions.

10.1.9 TP Edit

When you enter to “TP Edit” menu, there will display the screen like below:

1 In “Satellite” item, press[Volume Up/ Volume Down]key to switch satellite that you want to scan or press[OK]key to enter satellite list for selection.

2 In “TP Index” item, you not only can use [Volume Up/ Volume Down]key to select transponder but also can use[Add]and[Delete]functions.

- ✧ When you press[Green] key, it will display “New TP” in “TP Index” item; You should set the parameters of “TP Frequency” and “Symbol Rate” for this new transponder. The parameters of “TP Frequency” and “Symbol Rate” can set by number keys. The available range are “3000~13450 MHz” and “1000~45000Ks/s”.
- ✧ When you press[Yellow] key, there will show up a warning message for reminding whether you will delete the current transponder or not. If you select “Yes”, the current transponder will be deleted, and the total account of transponder will reduce 1 correspondingly.
- ✧ When you press [Blue] key, there will show up a warning message for reminding whether you will delete all transponders or not. If you select “OK”, all transponders will be deleted.

3 For the existed transponder, you also can use number keys to modify the parameters of “TP Frequency” and “Symbol Rate”.

4 When you complete your modification, Press [Red] key, it will show up a dialog to ask you scan mode, program type, scan type and NIT Search on/off. After you set up, press [OK] key to start scanning.

5 In the “TP Scan” item, press [Exit] key to exit the scanning and save the current parameters.

10.1.10 Single Scan

1 Press [Red] key, it will show up a dialog to ask you scan mode (means you want to scan all channels or only scan free channels), program type (means you want to scan all channels or only scan TV/Radio channels), scan type (means preset scan, that is searching the existed TP. Automatic Scan means blind scan. It is no need existed TP info) and NIT Search on/off. After you set up, press [OK] key to start scanning.

2 Press [White] key into the blind scanning immediately.

10.1.11 TP Scan

Press [Green] key to scan current TP’s programs.

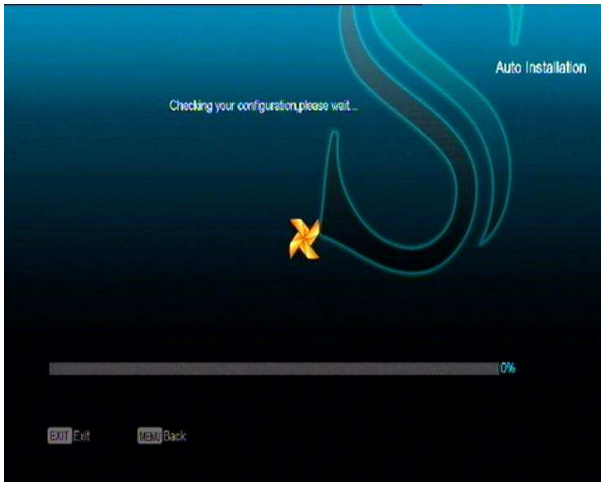
10.1.12 Auto DiSEqC

Press [Blue] key to run Auto DiSEqC function, it can find the satellite connect to which port automatically.

10.1.13 Blind Scan

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

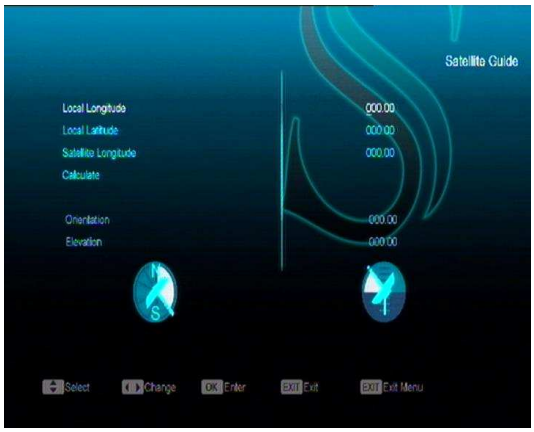
10.2 Auto installation



“Auto Installation” is a very new and convenient function. It will automatically detect all dishes connecting to this machine and scan the available services belonging to the satellite matched according to satellites and transponders data in current database. You don’t have to input any parameter of your antenna settings. Just press “ **OK** ” button to enter this “Auto Installation” menu then it starts scanning and shows you the result at the end of scanning.

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. By the evaluation from the receiver evaluate the antenna azimuth and antenna elevation; user can follow this guidance to adjust antenna.

1 You can use number keys to input parameters in “Local Longitude”, “Local Latitude” and “Satellite Longitude”.

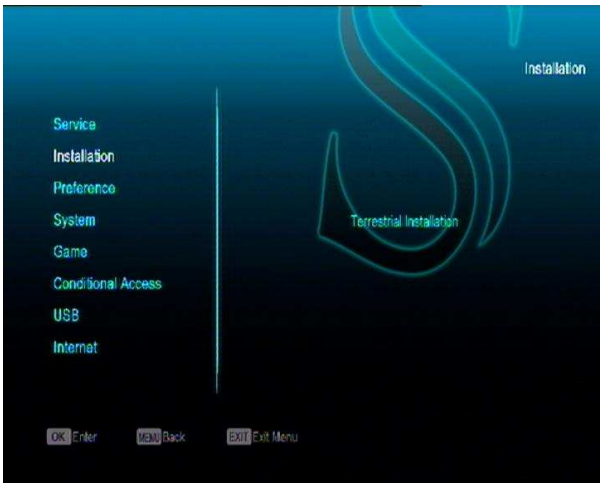
2 You can use [Left/Right] key to select east or west in “Local Longitude” and “Satellite Longitude”, select north and south in “Local Latitude”.

3 Moving highlight to “Start” item and press [OK] key. The lower column on the screen will calculate the corresponding value automatically.

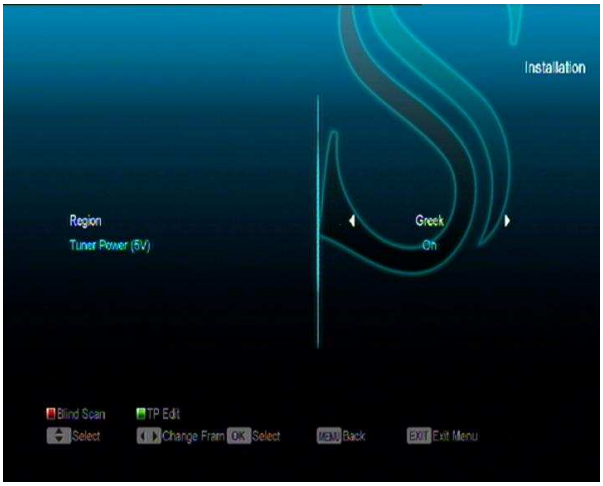
4 Orientation means the angle between south and satellite.

Press [Exit] key to draw back to “Main” Menu.

10.4 Terrestrial Installation (Optional)



Press [OK] key to enter the selected item.



1. You can select the Bandwidth according different country.

2. You can set the Tuner Power 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 by channel 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)

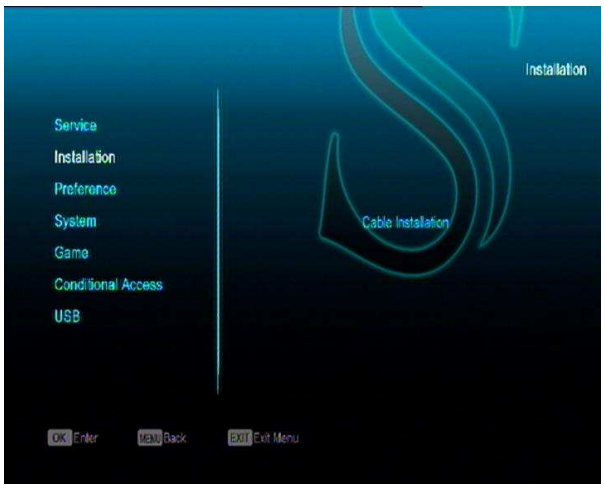
3 Press [Red] key to enter blind scan menu, or press [Green] key to enter TP scan menu.

4 Press [Exit] key to exit the scanning.

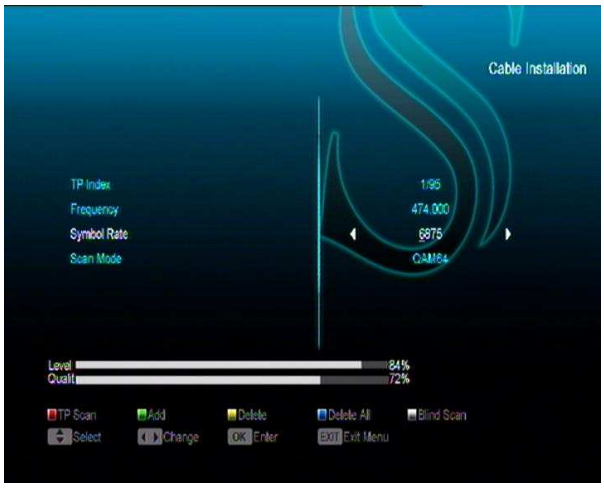
✧ LCN

LCN Mode can control the channel whether sort by the sequence information in the streams. The option is: On / Off. You can press [Left/Right] key to select each mode circularly.

10.5 Cable Installation(optional)



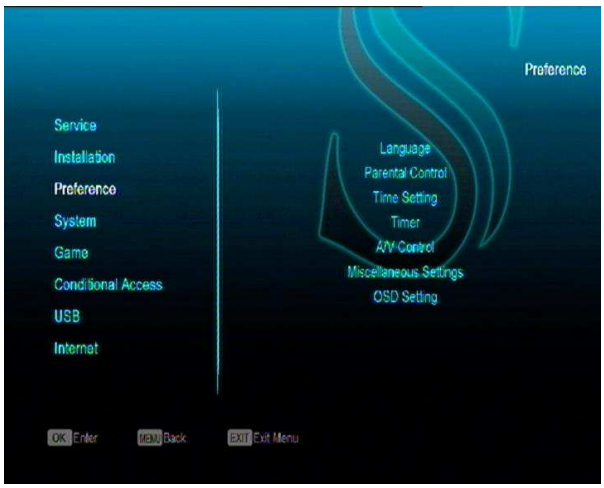
Press [OK] key to enter the selected item.



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 NIT Search, if you set the Scan Mode to Manual Scan.
7. When you complete your modification, press OK button on Search item to enter Scan menu and then
press OK button, it will begin to scan.

11. Preference

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



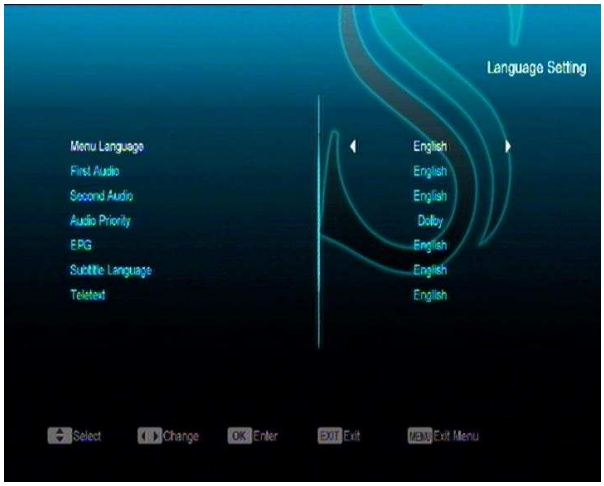
In “Preference” menu:

1 Press[Channel Up/Channel Down]key to select menu items among Language, Parental Lock,l Time setting, Timer, A/V Control, Miscellaneous Settingl OSD Setting.

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 [Volume Up/ Volume Down] key to select menu languages, the selections of languages include: English, French, German, Russian, Arabic, Portuguese, Turkish, Spanish, Polish, Italian 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 Second 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. The selections of audio languages include: English, French, German, Russian, Arabic, Portuguese, Turkish, Spanish, Polish and Italian.

4 Audio Priority: Press [Volume Up/ Volume Down] key to select Dolby or Language.

5 EPG: Press [Left/Right] key can select EPG language.

6 Subtitle Language: Press [Left/Right] key can select subtitle language.

7 Teletext: You can set teletext language. If the streams have this language you can see the teletext in language you set.

8 Press [Exit] key to draw back from “Language” menu.

11.2 Parental Control

You can set a password for anyone who wishes to operate in the “Main” menu. And you can also set the password for the lock channels. (How to set the lock channel please refer to LOCK) Here will show you how to setting and how to revising the password.

1 In “Parental Lock” function, press [OK] key, there will pop an dialogue for you to input the password. When you input the correct password, you will see a screen like below:

2 Menu Lock determining that when user wish to enter “Main” menu, whether have to input Password or not. If the setting of “Menu Lock” is “on” which means user have to key in password, set “off” means unlock.

3 Channel Lock determining that when user wish to play the lock channels, whether have to input the password or not. If the setting is “on”, play the channels with lock mark will show up a dialogue on the screen and ask for the password. If the setting of “Channel Lock ”is “off”, the Lock function will invalid.

4 New Password is used for revising password; you can input the new password in this item by using number keys directly. After you filled in 4 digital numbers, the highlight will auto skip to Confirm Password and ask you to input the new password again. If the password is correct, the screen will show up a message of “Saving Data, Please Wait…”. After finish saving and draw back to “Preference” menu, the revising is complete.

Press [Exit] key to draw back from the “Parental Lock” menu.

11.3 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 [Volume Up / Volume Down] keys to switch “On/Off”.
- ✧ The “GMT Offset” item is valid only when the setting of “GMT Usage” is “Yes”. You can press [Volume Up / Volume Down] keys to switch “GMT Offset” value, and the range is “-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 [Volume Up / Volume Down] keys to moving highlight and use number keys to input directly.

  If the current channel provides the correct time information, you will see the current time while you enter “Time” menu. If the channel doesn’t provide time information, you have to input the date and time information manually.
- ✧ Press [Exit]key to draw back from “Local Time Setting” Menu.

11.4 Timer

Press [enter] key to open timer menu.

- ✧ Current time information will display on the first column; if the current time is incorrect, please modify the time information in “Time” item.
- ✧ Timer Number: You can press [Volume Up / Volume Down] keys to set Timer number, and there are 8 timers in total.
- ✧ Timer Mode: There are several modes for Timer to setting, include Off, Once, Daily, Weekly, Monthly and Yearly.
- ✧ Timer Service: There are two options for “Timer Service”, include “TV Channel” and “Radio Channel” (timer setting for channel change and Wakeup/Sleep) and "Record Radio" and "Record TV" (Timer setting for Record the TV or Radio program to USB Hard Disk) and Message (reminding message).
- ✧ When you select “Channel” (timer setting for channel change and Wakeup/Sleep) option in “Timer Service”, the screen will display like below:

- ➢ Channel: press [OK] key to enter channel list and select channel that you want to setting.
- ➢ Date: use number keys to input your wakeup date.
- ➢ On Time: use number keys to input your wakeup time. Once the time’s up, no matter what the system is in standby mode or in playing mode, the system will automatically switch to the channel you want and start to play.

- Duration: After you set a time for “Duration” item, once the time’s up, the system will automatically switch to standby mode. If you want not work this function, set the duration is oo:oo.

✧ When you select “Message” (reminding message) option in “Timer Service”

- Wakeup Message: press [Volume Up / Volume Down] key to select reminding message as Birthday, Anniversary and General.
- Date, you can use number key to input your wakeup date.
- On Time: use number keys to input your wakeup time. Once the time’s up, no matter what the system is in standby mode or in playing mode, the system will automatically pop a reminding message.
- The message will always display on the screen, you can press [Exit] key to close it.
- Press [Exit]key to exit the current menu.

11.5 A/V Control

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

1 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<-> by native TV<->720P-50 <-> 720P-60<-> 1080i-50 <-> 1080i-60”. This effect is equal to press V.Format Key under Full Screen and their last setting saving will be efficient for each others. 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 HDMI TV’s max supported resolution to set its resolution, if system is not connected to a HMDI TV, it will set resolution to be default

2 Aspect Mode is for switching the screen aspect ratio mode. Now we provide below options: 4:3 PS / 4:3 LB / 16:9/Auto. You can press [Left/Right] key to select each mode circularly. 16:9 will provide user pillar box mode it means user use 16:9 TV to display but need to see a 4:3 full display picture. System will force press wide screen picture to be narrow and there’re black band on left and right site. Auto means system won’t do any aspect ration translation, 16:9 picture source will be good display on a 16:9 TV but will be too narrow on a 4:3 TV, and 4:3 picture source will be too wide in a 16:9 TV but will be good display in a 4:3 TV.

3 Video Output: Press [Left/Right] to select RGB or CVBS.

4 RF system and RF channel are for user to set the TV RF modulator output signal VHF/UHF channel and TV system mode. If your TV is too old to supports CVBS/YPbPr/HDMI, you can use TV RF cable to connect STB’s TV RF output port to TV Antenna input port.

5 Digital Audio Out is for setting the both SPDIF and HDMI’s digital audio output mode, it has options LPCM Out, Auto, You can press [Left/Right] Key to select each mode circularity. LPCM Out means system will decode no matter AC3 or PCM audio track data to be LPCM, digital audio decoder or HDMI TV will get LPCM digital audio data. Auto means system will detect which the connected HDMI TV can decode and then output that data. If HDMI TV can decode AC3, system just output RAW data, if HDMI TV can decode LPCM only,

system will just decode AC3 or LPCM to be LPCM and then output.

6 Press [Exit] key to draw back from “TV System” menu.

11.6 Miscellaneous Settings

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

1 Subtitle Auto: You can press [Volume Up/Volume Down] key to select “On” or “Off”. If the current channel has subtitle information, it will be showed up automatically while this function is “ON”, if this function is “OFF”, you need turn on the subtitle manually by press [Yellow] key.

2 Auto Power Down: You can press [Volume Up/Volume Down] key to select the time or “Off”, if you select time, duration this time if no any operation on receiver, it will go to standby mode.

3 Panel Power In Standby: if set to “ON”, the front panel will display time or some other information in standby mode; if set to “OFF”, it will display nothing in standby mode.

4 Loop Control: if set to “ON”, the receiver will enable SCART LOOP and TUNER LOOP function, if set to “OFF”, will disable this function.

11.7 OSD Setting

When you enter the “OSD Setting” menu, you will see a screen like below:

1 OSD Timeout: When you switch channels in full screen, there will show up some information about current channel on the lower of the screen. And regarding to the duration of these information show up on the screen, you can press [Volume Up/Volume Down] key to set the time. The range of the duration is “1 second ~ 10seconds”.

2 OSD Position: control display position of the info bar in full screen mode. You can choose “bottom” or “top”.

3 OSD Transparency: Besides the setting of “OSD Menu Style”, you also can set the transparency of OSD. You can press [Volume Up/Volume Down] key to select the values. There are 5 levels of transparency, 10%, 20%, 30%, and 40% and “NO” (means no transparency function).

4 Load OSD Setting Default: If you are not satisfy with your setting, you can move highlight to this item and press [OK] key to reset parameters as default value.

5 Press [Exit] key to draw back from the “OSD Setting” menu.

12. System

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

In “System” menu:

1 Press [Up/Down] key to select menu pages among Information, Default Setting, Software Upgrade, Upgrade By USB, Backup to USB

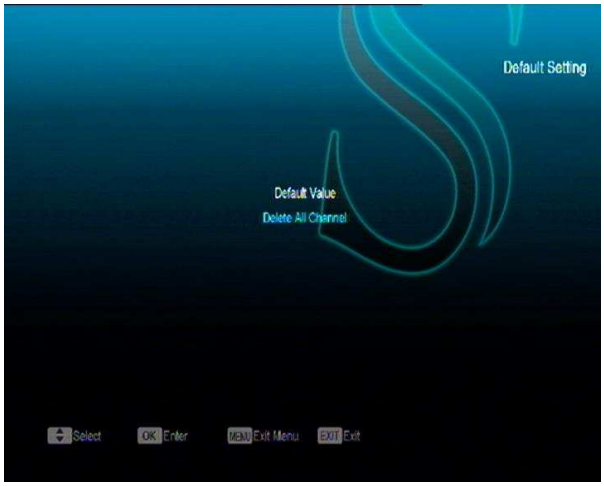
2 Press [OK] key to enter the selected item.

12.1 Information

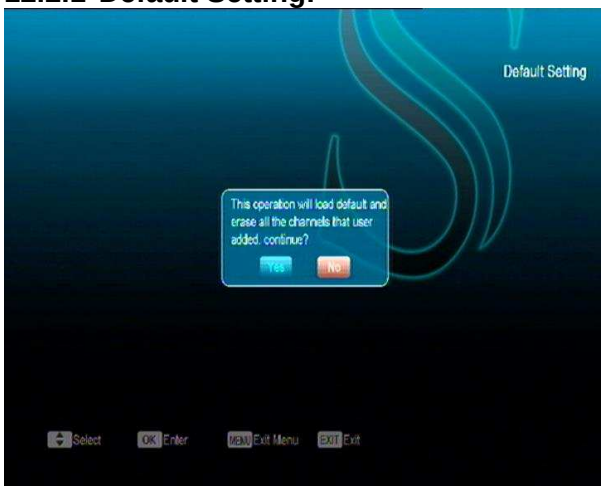
1 When you enter to “Information” menu, you will see a screen like above. The screen displays :MODEL ID,S/W VERSION,H/W VERSION,LOADER VERSION,LATEST UPDATE,STB SN,STB ID,VFD Version.

2 Press [Exit] key to draw back to “Tools” menu.

12.2 Default Setting



12.2.1 Default Setting:



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 “oooo”.

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?”.

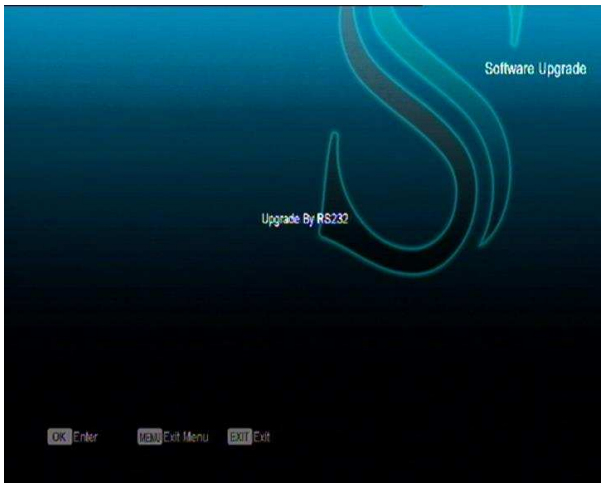
3 If you select “OK” option, the all revised parameters of the receiver will reset to default value. Please carefully to using this function.

4 In step 1 and step 2, press[Exit]key can draw back from this item and without saving.

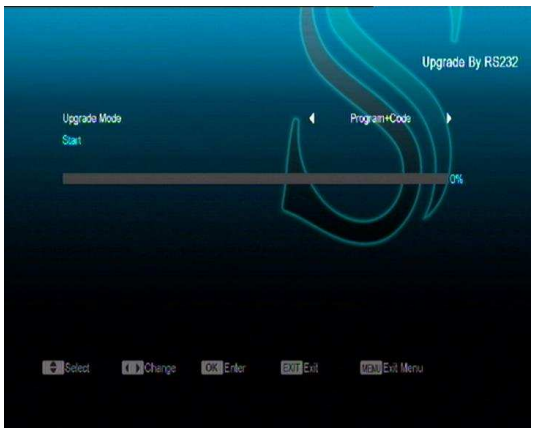
12.2.2 Delete All Channel:

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.

12.3 Software Upgrade



Upgrade by RS232:



1. We offer the functions for user to connecting receiver (Master) to the other receiver (Slave) via serial interface.

2. Connect master receiver to slave receiver via serial interface. Enter “Software Upgrade” menu in master receiver and press[Volume Up/Volume Down]keys to switch upgrade mode.
   Upgrade modes include: code / Program List / user back /video back / radioback / defaultdb / code + program/ Default DB + User DB..
3. Moving highlight to “Start” on master reeciver and press[OK]key to start upgrade.
4. Turn on slave receiver and it needn’t operate any setting.
5. Press [Exit]key to draw back.

12.4 Upgrade By USB

In this menu you can upgrade the software from USB conveniently, press ' OK ' button to enter.

In this menu you can select the Upgrade Mode among Software(No channel list), Channel list, All SW+bootloader and All SW+Channel list, 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 automaticlly.

NOTE:

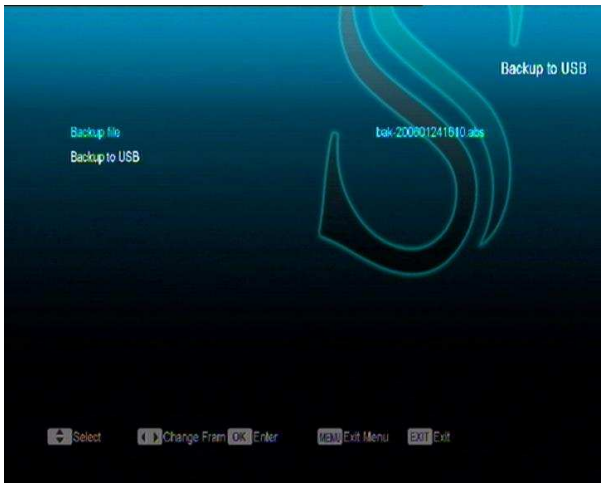
You must put the upgrade file on the /ROOT DIRECTORY of the USB storage.

12.5 Backup to USB

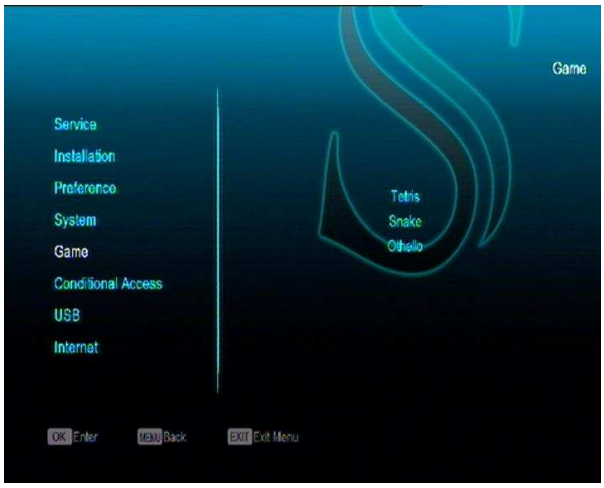
In this menu ,you can dump the software to the USB equipment

1 In "Backup file",you can press [OK] key to edit the file name.

2 In "Backup to USB",you can press [OK] to start dumping software .



13. Game



When you enter “Game” menu, you will see three Games include Tetris, Snake and Othello.

Basic operation statement:

13.1 Tetris

- ✧ Moving highlight to “Setup” and press [Volume Up/Volume Down] key to select the game level (speed).
- ✧ Moving highlight to “Start” and press [OK] key to start the game.
- ✧ Moving highlight to [Cancel]keys and press [OK]key to draw back from the game.
- ✧ Start on the game:
  - ➢ [Volume Up/Volume Down] Move shape left or right
  - ➢ “Channel Up” Rotate clockwise
  - ➢ “Channel Down” Faster drop
  - ➢ [OK] Pause/Play the game
  - ➢ [Exit] Quit game and draw back to “Game” menu.

13.2 Snake

- ✧ Moving highlight to “Setup” and press [Volume Up/Volume Down] key to select the game level (speed).

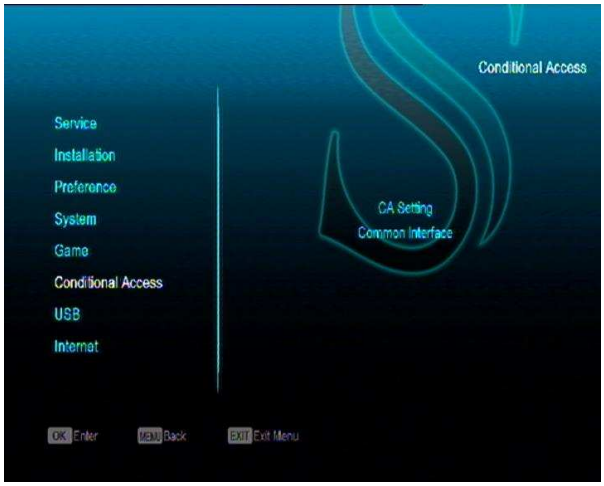
- ✧ Moving highlight to “Start” and press [OK] key to start the game.
- ✧ Moving highlight to[Cancel]keys and press [OK]key to draw back from the game.
- ✧ Start on the game:
  - ➢ [Volume Up/Volume Down/Channel UP/Channel Down] use these arrow keys to guide the snake.
  - ➢ [OK] Pause/Play game
  - ➢ [Exit] Quit game and draw back to “Game” menu.

13.3 Othello

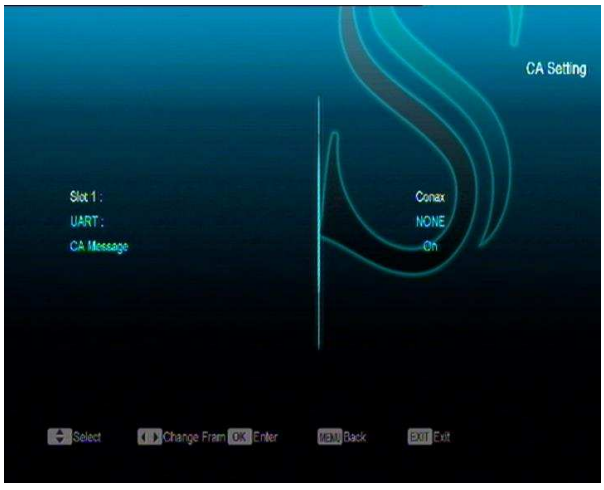
- ✧ Moving highlight to “Setup” and press [Volume Up/Volume Down] keys to select the game level (degree of difficulty).
- ✧ Moving highlight to “Start” and press [OK] key to start the game.
- ✧ Moving highlight to [Cancel] keys and press [OK] key to draw back from the game.
- ✧ Start on the game:
  - ➢ [Volume Up/Volume Down/Channel UP/Channel Down] use these arrow keys to guide chessman.
  - ➢ [OK] set chessman.
  - ➢ [Exit] Quit game and draw back to “Game” menu.

14. Conditional Access

14.1 CA Setting



We provide two CA slots (option, some model only has one slot) 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.

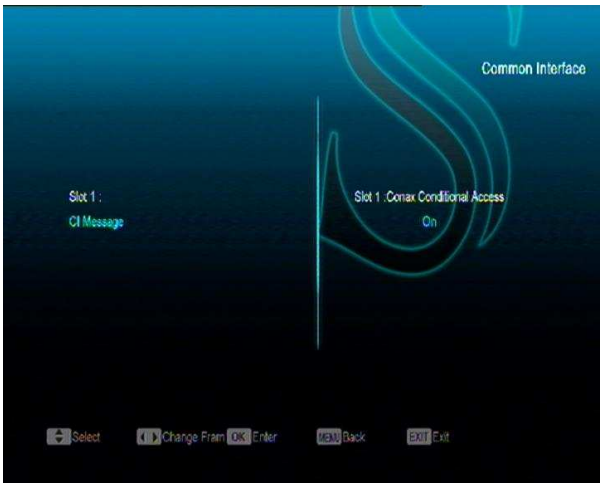


Note: All information showed in this menu and submenu are coming from inserted card. In case if anything is wrong, it could be card problem. After inserting the card correctly at any time, a

message-box will show on the screen with message about detecting the card, in "card info" menu all available information will be displayed.

14.2 Common Interface

We provide two CI slots (option, some model only has one slot) for user to use. Using different CAM & cards provided by different CAS operator, user can view many type or scrambled channels.



We provide this menu to display the detail information of the CAM & cards inserted in the slots. User can check all this information according to the help message at the bottom of each menu.

Note: All information showed in this menu and submenu is abstract from CAM & card. In case something is wrong, it may be the problem of CAM or card.
When you insert the CAM correctly at any time, a message will show in the screen to tell you that which CAM has been detected by the receiver and is available now.

CI Message

It is used to turn on or turn off the CI info display function by using ◀, ▶ buttons or " **OK** " button to select.

ON: To display the CI info.

OFF: Don't display the CI info.

15. USB

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

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

15.1 File List

In this menu you can check the files and folders of the USB storage, and you can play MP3 and JPEG files.

15.1.1 Record Files

In this menu you can playback the record files, and you can press [Red] key to rename the file, or press [Green] key to lock the file, or press [Yellow] key to delete the file.

15.1.2 MP3 Files

In this menu you can select the MP3 file to play by press [OK] key or [PLAY] key. Also you can setting the play list.

[Green] key: To sort the file list by different order.

[Yellow] key: Show play list as the picture bellow:

- **Red Key:**

Play the 1st music file by press Red Key. Play the file selected by scroll bar when press OK key.

- **Yellow Key:**

Delete the file selected by scroll bar by Yellow key.

- **Blue Key:**

Delete all the file by blue Key, but there is one remind “are you sure” before practical operation, if select Yes, all file will be deleted, and close the Play list window.

[Blue] key:
All the MP3 files in current directory are added into MP3 play list by press [Blue] key, and screen display “Add to Play List”, display will disappear after one second.

[White] key:
To setting the Repeat mode of the MP3 player.

After begin to play MP3, it will show the MP3 play window.

Press “PAUSE” button to pause.. Press “PLAY” button to play. Press “STOP” button to stop and time return to oo:oo.

Press “PREV” button to jump to the beginning of file list if play is over 3 seconds; or jump to previous file if play less than 3 seconds.

Press “NEXT” button to go to the next file.

Press “FORWARD” button to forward 20S.

Press “BACKWARD” button to back 20S.

Jump to beginning or end if less than 20S to the beginning or end of music file.

Return to USB file List when play is over or press Exit key.

15.1.3 Image Files

Press 'OK' button on the selected files to play the single file.

You can preview the picture at the top right corner if the scroll bar is on the picture files (JPG, BMP), and show the logo when at MP3 file.

Move scroll bar when press up/down key, page up or down by page key.

Go into sub-directory when press ok key in the file directory, play the selected file when scroll bar is on the file, automatic return USB menu after play is over.

Red key:

In this menu to setting JPEG player.

Green key:

To sort the file list by press green button.

Yellow Key:

Show one operation window:" please select play list type" by Yellow key, you can select Music or Image play by Left/Right Arrow key, open the selected Play list if press OK key. There will display "This type of play list does not exist" if there are no any file.

Image view operation

Please see the below image operation menu if Image function is selected.

- **Red Key:**

Start to browse image if press RED key, or play the selected image if press OK key, return to USB File list if play is over, or return by press Exit Key.

- **Yellow Key:**

Delete selected image if press Yellow Key.

- **Blue Key:**

Press Blue Key, will delete all image files in play list, but system will remind you " Are you sure? " before practical operation, if you select Yes, all file will be deleted and Play list window will be closed.

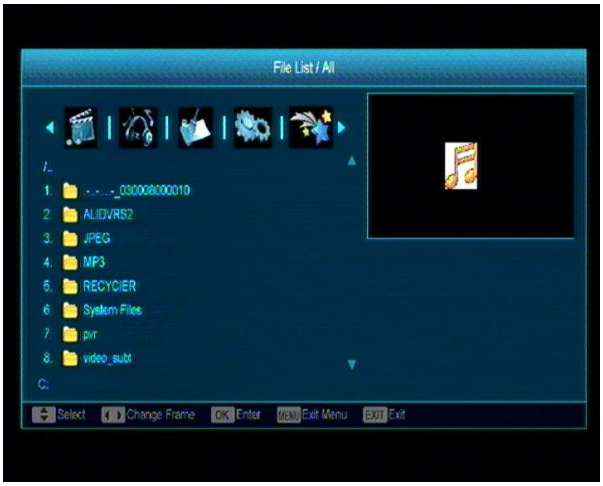
Blue key:

All the Image files in current directory are added into Image play list by Blue key, and screen display "Add to Play List", display will disappear after one second.

15.1.4 Software

If has software in current directory, you can press [Green] key to upgrade.

15.1.5 All



You can preview all files in this menu.

15.2 Record Manager

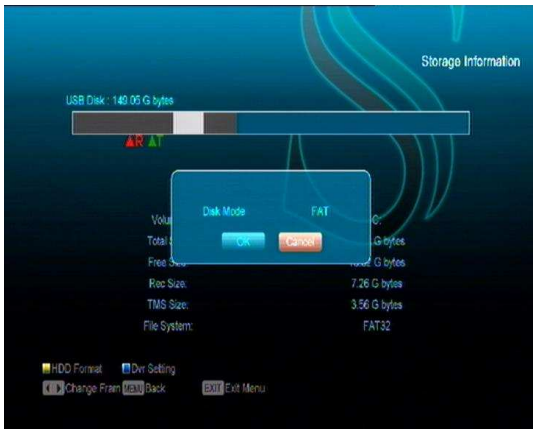
In this menu you can see the record files, and you can edit it:

- ✧ To Lock the file, please press "Green" Button.
- ✧ To Delete the file, please press "Blue" Button.
- ✧ To Rename the file, please press "Red" Button.
- ✧ To play the file with small window, please press " ▶ " Button.
- ✧ To play the file with full screen, please press "OK" Button.

15.3 Storage Information

Press "OK" button to enter the HDD Information menu like the below picture, in this menu you can see the details information about the HDD.

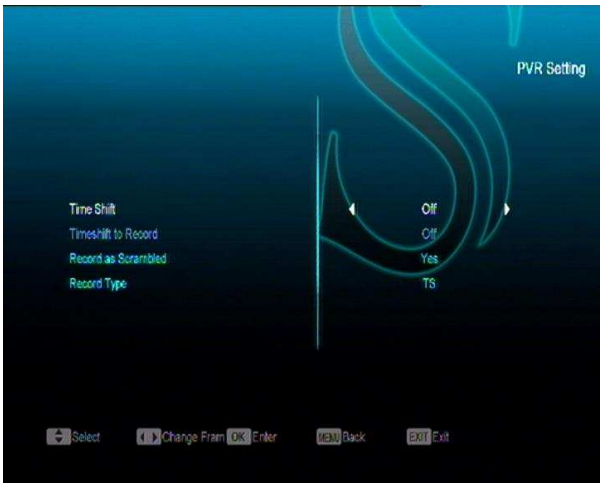
If you want to format the HDD, press "yellow" button to enter Format menu, then select the File System between the "FAT" and the "NTFS", Press "OK" Button to confirm.



Note: If you format the HDD, all the files include MP3, JPEG and the record files will be deleted from the HDD.

If you want change the path for recording files and timeshift files, press “blue” button to enter the DVR Set menu, then press OK button to set the path on current select disc.

15.4 PVR Setting



- **Time Shift:**

  ON: Enable the Time Shift function.

  OFF: Disable the Time Shift function.

- **Record as Scrambled**

  NO: Means you can play the record file (Free) without the CI module and the card.

  YES: Means when you play the record file (Scrambled) you must insert the CI module and the smart card.

- **Timeshift to Record**

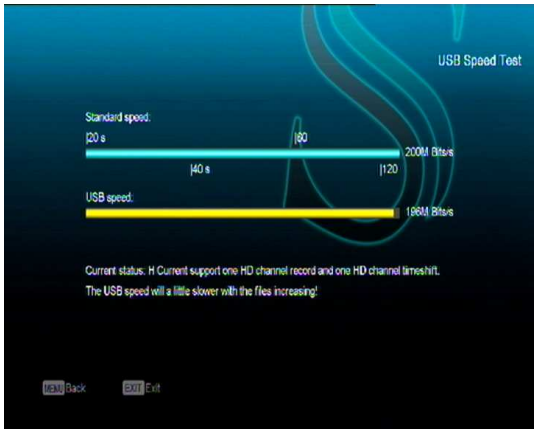
  ON: Means when you press the " ● " Button to record the program, it will merging the Timeshift files and the record files.

  OFF: Means when you record the program, it just start when you press " ● " button, not include the Timeshift files.

- **Record Type**

  You can select the record type by press [left/right] key.

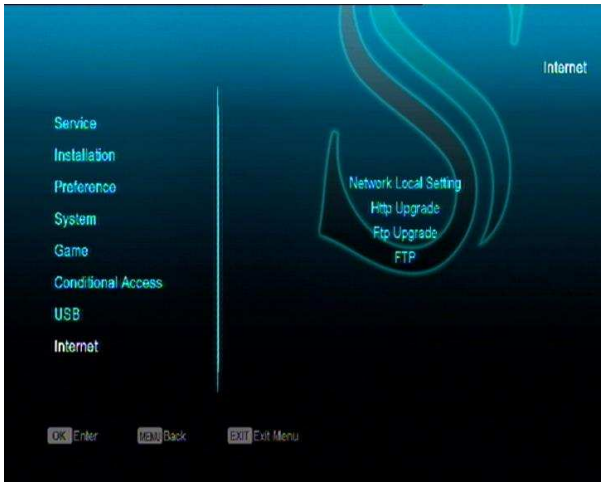
15.5 USB Speed Test



In "USB Speed Test" Menu you can see the Standard speed and your USB harddisk speed, according this information you can know what operation your disk can support.

16. Internet(Optional)

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



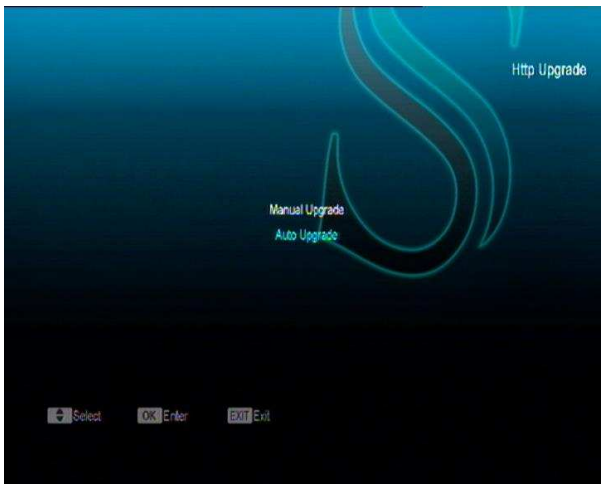
You can get a new software from the network via LAN port.

16.1 Network Local Setting

1. In this menu you may assign a dynamic IP address to the digital receiver. To do so, select the DHCP On.

2. If you have a static IP address, unselect the DHCP Enable, then the IP Address, Subnet Mask, Gateway and DNS options become enabled. You have to set these options according to your IP address.

16.2 Http Upgrade



1. 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.

16.3 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.

16.4 FTP

When connected to the Internet, receiver can download some files, such as software, MP3 or Image files from FTP server.

Note:

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

17. New Features

17.1 Equalizer

When you listen the Radio program, it will display the music spectrum graphic on TV Screen.

17.2 Time Shift

If you connect the USB HDD, and enable the Time Shift function in the menu "Main Menu/ Record/ 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 displayed as the following picture:

- ✧ You can press " ⏸ " button to pause the video, and can save the picture to flash by press " P+ " button when the video is paused.
- ✧ You can press "◀◀ " or " ▶▶" button to Fast Backward or Fast Forward.
- ✧ You can press "◀❙ " or " ❙▶" button to Slow Backward or Slow Forward.
- ✧ Press “left" or "right" button to jump to different position, then press "OK" button to confirm.
- ✧ Press "■" button to exit the playback.

17.3 Record

If you connect the USB HDD.

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

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

- ✧ You can press " ⏸ " button to pause the video, and can save the picture to flash by press " P+ " button when the video is paused.
- ✧ You can press "◀◀ " or " ▶▶" button to Fast Backward or Fast Forward.
- ✧ You can press "◀❙ " or " ❙▶" button to Slow Backward or Slow Forward.

- ✧ Press “left" or "right" button to jump to different position, then press "OK" button to confirm.
- ✧ Press "■" button to stop the recording.

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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 or Terrestrial 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 VFD 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	396M Hz based CPU
Flash Memory	32M Bits
DDR SDRAM	1024Mbits
Tuner/Front-end(Optional)	
Tuner Type	DVB-T (optional)
Input Frequency	170-230MHz CH5-CH12, 470-860MHz CH21-CH69
RF Input Level	"-70dBm to -8dBm"
Antenna power output	5V/50mA max
Demodulation	COFDM 2K/8K
Number of carriers	1705/6817
Constellation	QPSK, 16QAM, 64QAM
Guard Inter Val	1/4, 1/8, 1/16, 1/32
FEC Decoder	1/4, 2/3, 3/4, 5/6, 7/8, k=7
Tuner Type	DVB-S / DVB-S2
Input Connector	F-type, Connector, Female
Loop Through	F-type, Connector, Female
Signal Level	-65 to -25 dBm
LNB Power & Polarization	Vertical: +13V/+14V
	Horizontal: +18V/+19V
	Current: Max. 500mA
	Overload Protection
22KHz Tone	Frequency: 22±1KHz
DiSEqC Control	Amplitude: 0.6±0.2V
	Version 1.0, 1.1 1.2, USALS Available
Demodulation	QPSK, 8PSK
Input Symbol Rate	2-45 Mbps, Convolution Code Rate
	1/2, 2/3, 3/4, 5/6, 7/8 and Auto
POWER SUPPLY	
Input Voltage	Free Voltage (100~250V AC, 50/60Hz)
Power Consumption	30W MAX 16W MAX 12W MAX
MPEG TS A/V Decoding	
Transport Stream	MPEG-2, H.264
Input Rate	Max.120Mbit/s
Aspect Radio	4:3, 16:9, Letter Box
Video Decoding	MPEG-2, MP@ML, MPEG-4 part 10/H264
Video Resolution	720*480P/I, 720*576P/I, 1280*720p,1920*1080i
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	
TV-SCART	Video CVBS/RGB output

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	Audio L/R output
VCR-SCART	Video CVBS output
	Audio L/R output
	Video CVBS input
	Audio L/R input
RCA A/V	Video CVBS output
	1x YPbPr output
	Audio L/R output
S/PDIF	Optical Coaxial, Digital Audio or Dolby Digital Bit Stream Output
RS-232C	Transfer rate 115.2Kbps
	9 pin D-sub Type
USB	One USB 2.0 slot Compatible for
HDMI	VER1.2
	Type A
PHYSICAL SPECIFICATION	
Size[W*H*D]	300mm*64mm*231mm 260mm*63mm*206mm 220mm*49mm*153mm
Net Weight	2.0KG/1.2KG
Operation Temperature	0℃~+45℃
Storage Temperature	-10℃~+70℃
Storage Humidity	5%~95% RH (Non-Condensing)