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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. Environment protection

**Attention!**
Your product Is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.

**Information on Disposal for Users (private households) in the European Union**

Used electrical and electronic equipment must be treated separately and In accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.

Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge*. In some countries* your local retailer may also take back your old product free of charge if you purchase a similar new one. *) Please contact your local authority for further details.

If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.
By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

**Information on Disposal for Business Users**

***In the European Union***

If you wish to discard of this product, please contact your local authorities and ask for the correct method of disposal.

**DECLARATION OF CONFORMITY**

The manufacturer herewith declares the conformity of that product with the following directives and standards:

**Low Voltage Directive 2006/95/EG**
EN 60 065:2002+A1:2006

**EMC Directive 2004/108/EG**
EN 55 013:2001+A1:2003+A2:2006
EN 55 020:2007
EN 61 000-3-2:2006
EN 61 000-3-3:1995+A1:2001+A2:2005

# 3. FEATURES

- MPEG-Fully DVB-S / DVB-S2 or/and DVB-T/ - C (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
- Software update via LAN port(optional)
- USB 2.0 Host
- VFD Display for service information
- RTC (Real-Time-Clock)
- LAN 10/100 Mbps Ethernet (optional)
- 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/SAT***

Receiver switches between TV and Satellite 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.

***PIP(RED KEY)***

To start the PIP function

***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".

***SAT***

Display satellite list.

***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.

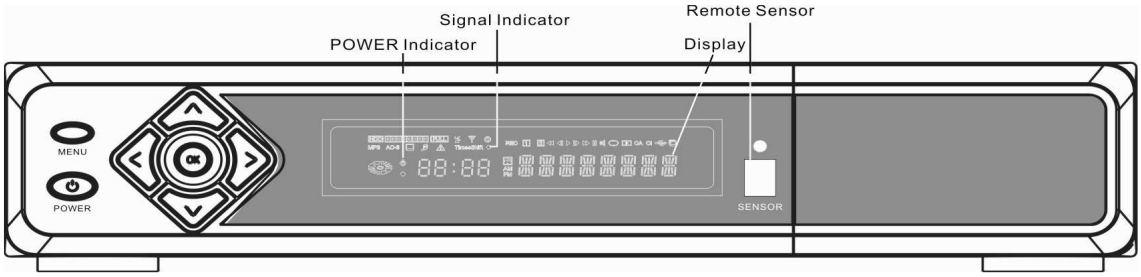
◀❚ ***SB***

To start Slow Backward function.

❚▶ ***SF***

To start Slow Forward function

# 5. Front panel




**POWER KEY:** To switch the receiver power on/stand by

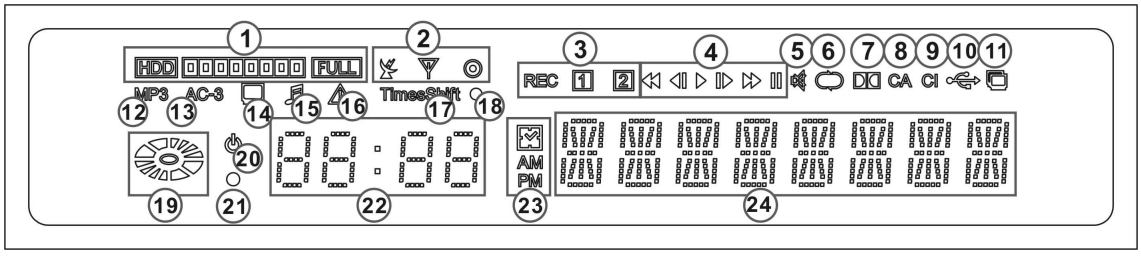
**MENU KEY：**To enter into the main menu.

**<,> 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
**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!***

**Common Interface:** Two socket for Conditional Access Modules CAM (optional).
**Display:** (VFD type) Indicates operating status of receiver

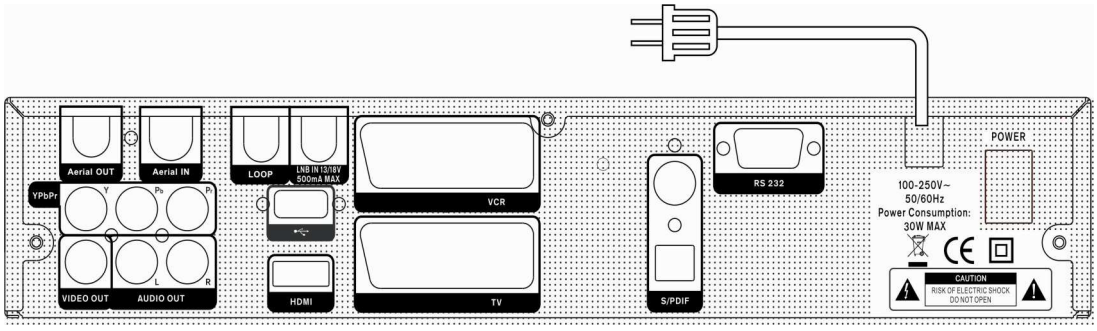
### VFD Display:




1. HDD spent space and available space indicator
2. Indicate which DVB standard of the receiver (DVB-S, DVB-T, DVB-C)
3. Indicate the recording from which Tuner. (optional)
4. Indicate which operation status such as PLAY, PAUSE
5. Will high light when MUTE the receiver
6. Indicate the play mode (Loop or not)
7. Will high light when decode the Dolby Digital audio
8. Will high light when the Smart card insert to the card reader
9. Will high light when the Module insert to the CI slot
10. Will high light when the USB Harddisk connected to the receiver
11. Indicate the PIP function
12. Indicate the MP3 player, will high light when play MP3
13. Will high light when decode the Dolby Digital audio
14. Indicate now is watching TV program
15. Indicate now is watching Radio program
16. Will high light when the warning information is displayed on screen
17. Indicate the TimeShift function Enable or not, will high light when TimeShift function is Enabled
18. Indicate the signal status, will high light when the signal is ok
19. Indicate the reading or writing to the Hard disk,
20. Indicate Standby or not
21. Will blinking when use the RCU to operating the receiver

**22.** Display the time
**23.** Indicate the time is AM or PM
**24.** Display the Program name or Menu name

# 6. Rear Panel

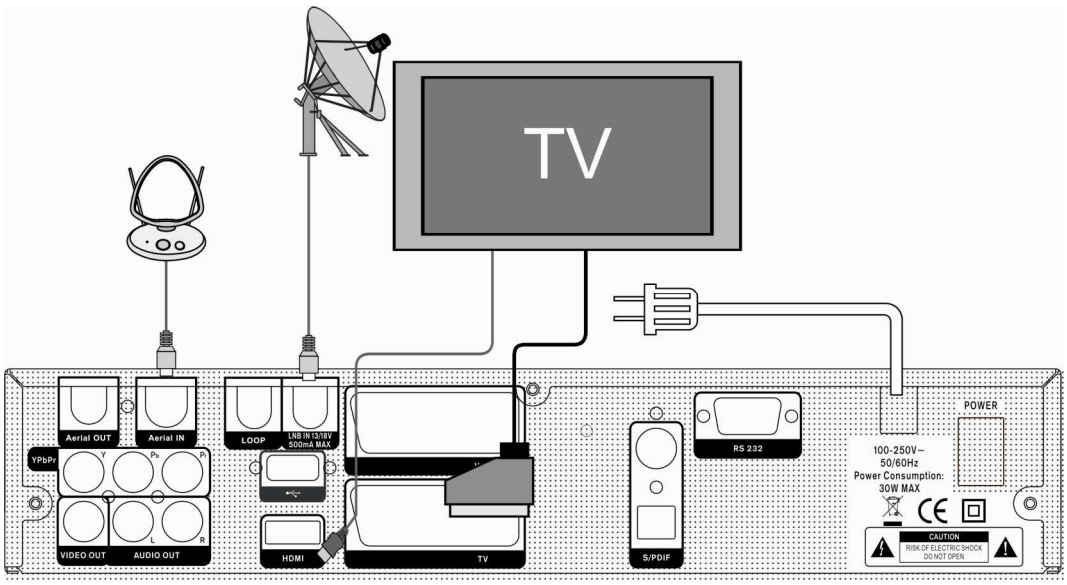



Please refer to the diagram above for all possible connections of your receiver
Do not connect the unit to the mains socket until all other connections have been made and checked.
Your configuration can vary depending on model

**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.
**Power for USB:** USB port for additional power only, for some of USB hard disk drives. WARNING! Do not connect standalone USB devices to this port!
**USB-Data:** 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.
**Ethernet:** (optional) Network port, you can get a new software updates from this port.
**YPbPr:** Component video output socket for the television set.

# 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

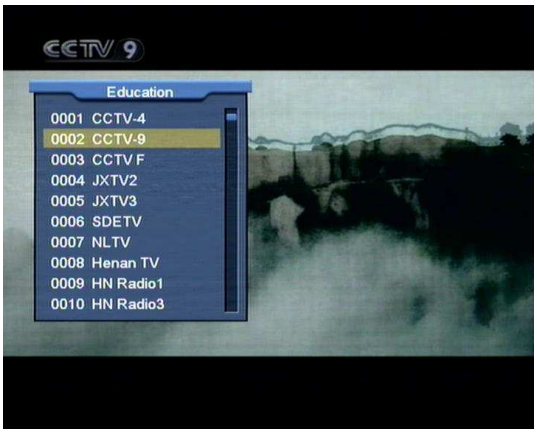
1. In playing mode, press [Pause] key, the picture will be paused, but the sound of the channel will still continues.
2. Press [PLAY] key again, the screen's picture will skip over to the current playing picture, and the sound of the channel will corresponding playing.

## 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

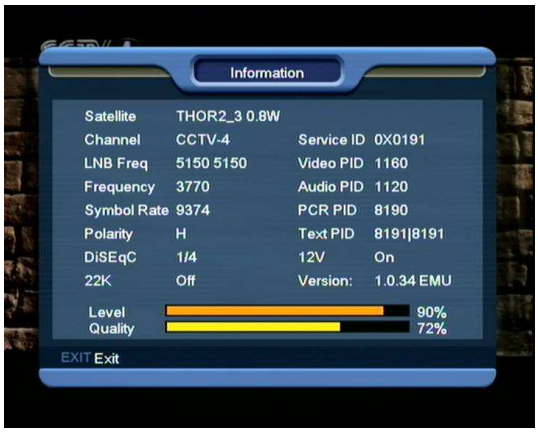
*1* In full screen, press [AUDIO] key can open the “Audio” window on the screen.

*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 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 [green]key in each item can see more now detail information and press[menu]key to cancel.

*3* Press [yellow] key in each item can see more next detail information and press [menu] key to cancel.

4 Press [Red] key in EPG menu can display" Schedule" Menu. In "Schedule" menu, you can press [Up/Down] to select "Event". Press [left / right] key to day change.

5 Press [Green] key in schedule menu can open timer menu. User can save a timer as he want.

6 In EPG menu, press [Exit] to close EPG screen.

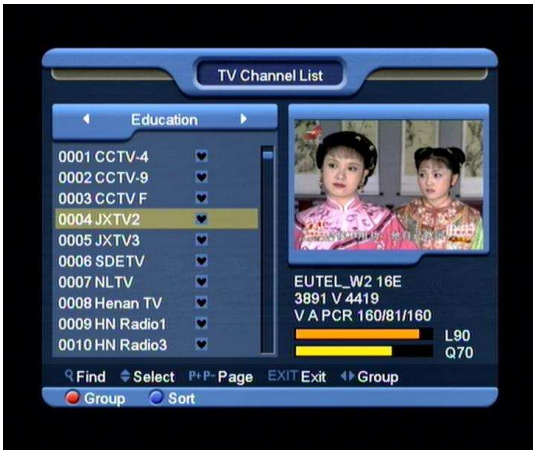
## 8.13 TV/RADIO

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 [Left/Right] or [red] key to change satellite or favorite. which you can watch like below.




3 Press [Blue] key can open the "Sort" window like below. There are four kinds of sorting ways. You can press [Channel Up/Channel Down] key to move highlight and press [OK] key to confirm you selection.

4 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.

5 Press [Up/Down] key to move highlight and press [OK] key to play the highlighted channel.

6 Press [Page Up/Down] key to page up and page Down.

7 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/STB

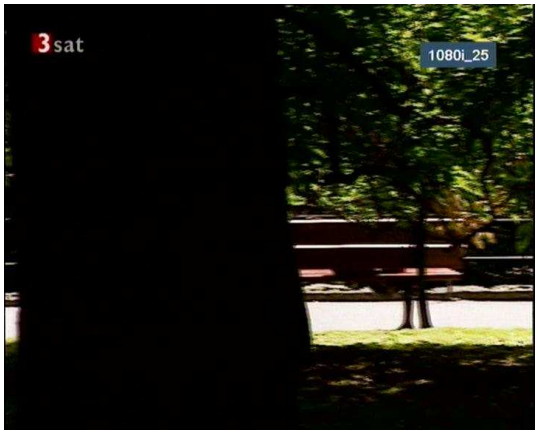
*1* Press [TV/SAT] key can switch between TV mode and STB mode

## 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. Channel

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 Edit Channel, Installation, System , Tools , Game and USB.

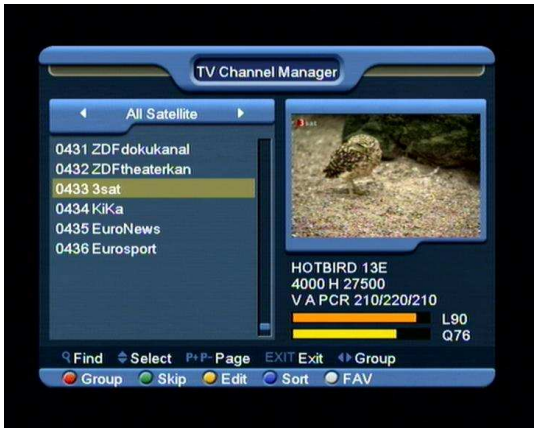
*2* Press [OK] or [Right] key to enter the “Edit Channel”. If Menu Lock is “On”, it will display an dialogue for user to key in password. The default Password is “0000”.

*3* Press [Up/ Down] key to select menu items among TV Channel and Radio Channel

*4* Press [Left] key or [Menu] key to go back to main menu.

## 9.1 TV Channel List

When you enter to “Channel List” menu, there will display the screen like below.




*1* You can move highlight by press[Channel Up/Channel Down]key to preview the current highlighted program in the right side preview window

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

*3* You can use [Volume Up/Volume Down] key to switch “Program Group”.

*4* You can press[Menu]or[Exit]keys to enter full screen playing mode.

*5* Press color key can implement the corresponding function in “Channel Manager”.

### 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 [Red] key or [Menu] key to close “Group” List.

### 9.1.2 Skip

1 In “TV Channel Manager” menu, press [Green] key can make a “skip mark” in the right side of the highlighted channel.

2 After save and exit “TV Channel Manager” menu, the channel will be skip while user change channel in the full screen.

### 9.1.3 Edit

Press [Yellow] key, it will show input password dialog. If the password is correct, it will open the window like below. The default password is `0000`.

#### *9.1.3.1 Delete*

1 In this menu, press [Red] key can make a delete mark in the right side of the highlighted channel.

2 Press [Red] key again can cancel the deleted mark on the current channel.

3 When exit the menu, it will ask you whether to save the change. Select “Yes” to save the change.

#### *9.1.3.2 Create*

If you press[Green] key, it will display create window like below:

1 In “Satellite” item, press[OK] key can display satellite list and you can select a satellite that you want to setting.

2 In “TP Index” item, you can press[Volume Up/Volume Down]key can switch TP number, and the next three items will show up corresponding parameters.

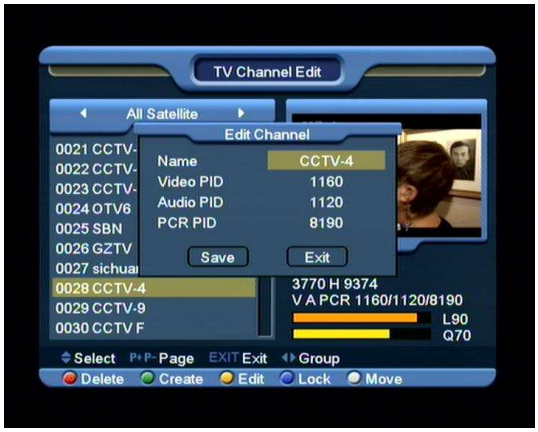
3 In “Name” item, press[OK]key can display the keypad, and you can edit new name here for selected channel.

4 In “Video PID”, “Audio PID” and “PCR PID” items, you can use the number key directly to modify corresponding parameters of the items.

5 After modification, move highlight to “Save” item and press[OK]key, can save parameter and exit “Edit” mode. Otherwise, move highlight to [Exit]item and press[OK]key can exit “Edit” mode and won’t save any modification.

#### *9.1.3.3 Edit*

If you press[Yellow] key, it will show the window like below:




1 On the “Name” item, press[OK]key can display keypad to edit the name of selected channel.

2 On the “Video PID”, “Audio PID” and “PCR PID” items, you can input numerals to modify the according item’s value.

3 After modification, move highlight to “Save” item and press[OK]key can save the modified value and exit “Edit” mode. Otherwise, move highlight to [Exit]item and press[OK]key can exit “Edit” mode and won’t save any modification.

#### *9.1.3.4 Lock*

Press [Blue] key can make a “lock mark” in the right side of the highlighted channel. After save and exit the menu, STB will request you to input the password while you want to watch the locked channel.

#### *9.1.3.5 Move*

1 In this menu, press [White] key can make a moving mark in the right side of the highlighted channel.

2 Press [Up/Down] or input numerals key to move the channel

3 Press [OK] key to put the channel to the target place.

4 When exit the menu, it will ask you whether to save the change. Select “Yes” to save the change.

### 9.1.4 Sort

1 Press [Blue] key can open the “Sort” window like above. 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

2 The five kinds of sorting way are:

- ✧ Default: Sorting by scanning result.
- ✧ Name (A-Z): Sorting in Alphabetical Order, ignore “$” symbol.
- ✧ Name (Z-A): Sorting in Alphabetical Order, ignore “$” symbol.

- ✧ FTA: Sort channel by free and scramble sequence. Free channel will at front of channel list and scramble channel will at rear of channel list
- ✧ Lock: Accumulated all locked channels and list in the last of TV Channel List.

### 9.1.5 Favorite

1 Press [White]key can open the “Favorite” window like above

2 You can move highlight between 8 favorite groups by press[Channel Up/Channel Down]key and press[OK]key to make a favorite mark in the right side of the selected Favorite group.

3 Press[OK]key on the marked Favorite group can cancel the exist favorite mark.

4 After marking, press[Exit]key can back to “TV Channel List” , there will show a favorite mark beside the marked channel.

### 9.1.6 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 Radio Channel List

Basically, the operation of “Radio Channel List” is same as “TV Channel List”, but there is one point different: In “Radio Channel List” mode, there is no video information, so it will always display Radio’s logo in the right side preview window.

# 10. Installation

*1* Press [Up/Down] key to select menu pages among Channel, Installation, System , Tools, Game and USB.

*2* Press [OK] or [Right] 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 [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.

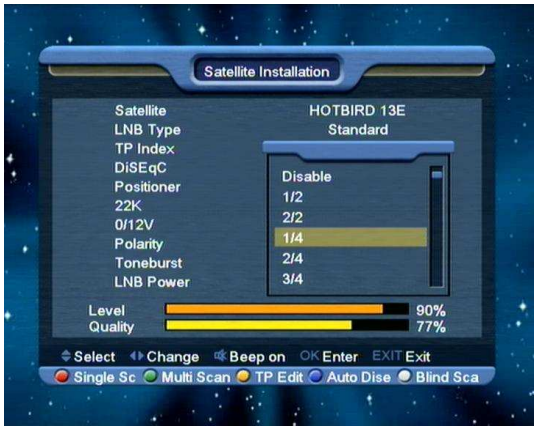
### 10.1.2 LNB Type

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

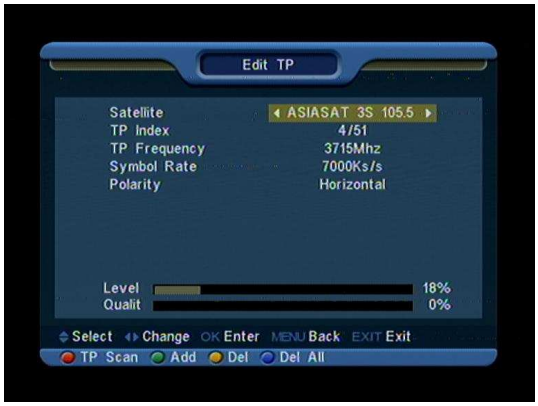
In "Toneburst" item, you can press [Volume Up/ Volume Down]key to switch "Off/On" functions.

### 10.1.8 Polarity

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

### 10.1.9 Edit TP

When you enter to "Edit TP" 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 Multi Search

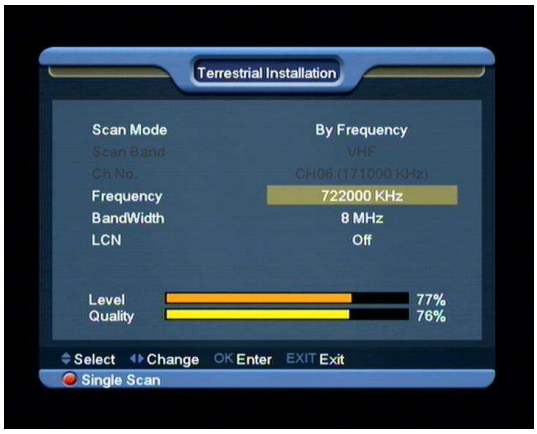
*1* Multi Search can support search the multi satellite one by one as user select .

*2* Press [Red] key, it will show up a dialog to ask you scan, program type, scan type and NIT Search on/off. After you set up, press [OK] key to start scanning.

## 10.2 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 ON/OFF.
3. Press [OK] key on Terrestrial Installation item to enter the following menu.



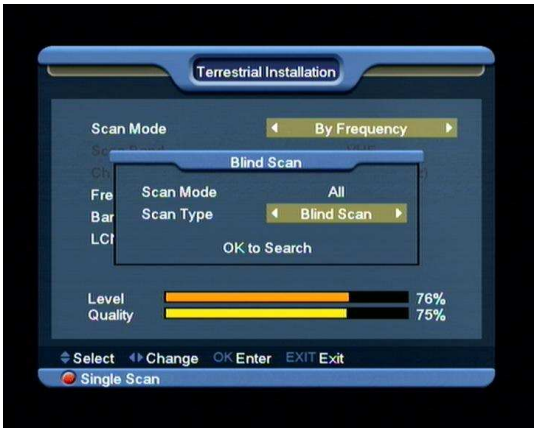

✧ Scan Mode.

*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* When you complete your modification, press [red] key enter scan menu and then press [OK] key, then it will begin to scan.

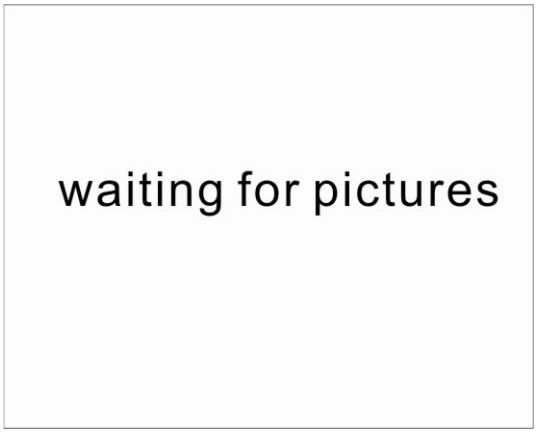
*4* Press [Exit] key to exit the scanning.




✧ 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.

## 10.3 Cable Installation




Press [OK] button 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.

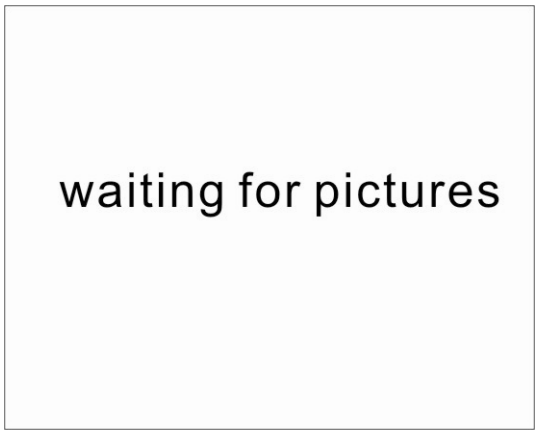
3, You can input the Second Frequency by use the numeric button of the RCU, if you set the Scan Mode to Blind Scan.

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.

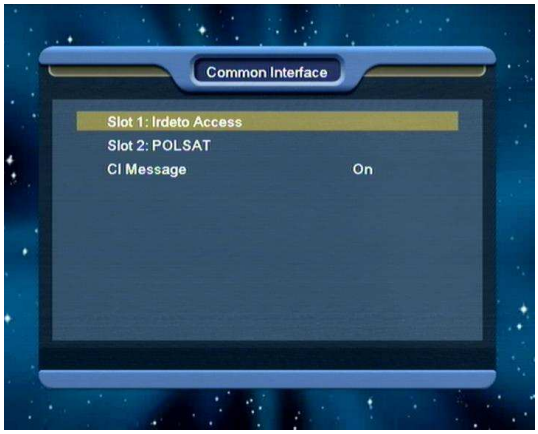
6, You can turn ON or OFF the NIT Search, if you set the Scan Mode to Manual Scan.

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.




## 10.4 Common Interface

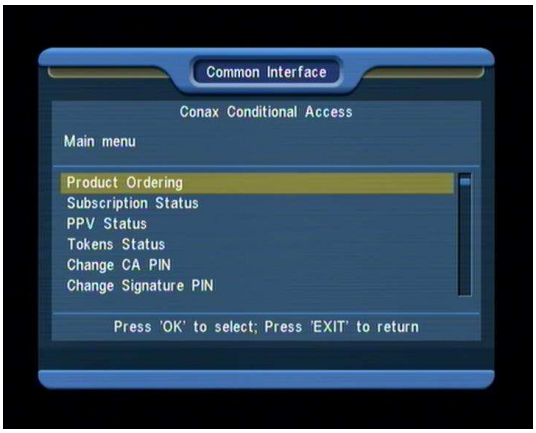
We provide two CI slots for user to use. Using different CAM & cards provided by different CAS operator, user can view many type or scrambled channels.



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.

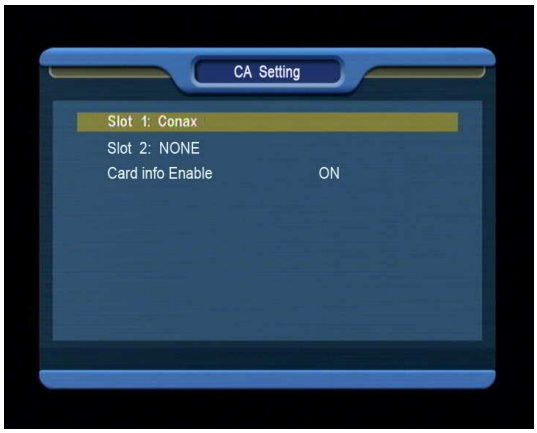
*Note: All information showed in this menu and submenu is abstract from CAM & card. In case something is wrong, it may be the problem of CAM or card.*

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.




### 10.5 CA Setting

We provide two 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.*

## 11. System

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

In “System” menu:

1. Press[Channel Up/Channel Down]key to select menu items among Language, TV System, Local Time setting, Timer, Channel Play Type, Startup Channel OSD Setting, Parental Lock.
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 and Italian.

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

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

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

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

## 11.2 TV System

When you enter to “TV System” 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 “by source<-> by native TV<-> 480i<-> 480P<-> 576i<-> 576p<-> 720P<-> 1080i”. 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 YUV.

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.

## 11.3 Local 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.

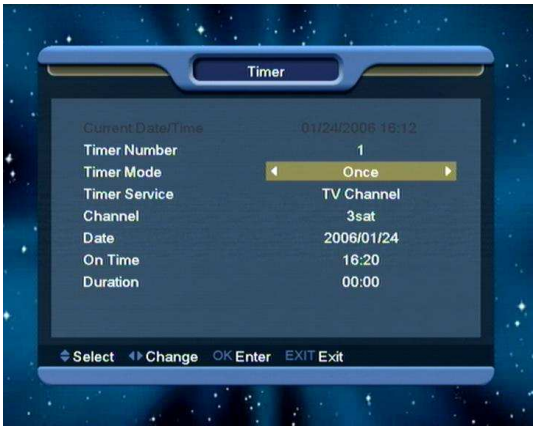
✧ Timer Number: You can press [Volume Up / Volume Down] keys to set Timer number, and there are 8 timers in total.

✧ 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

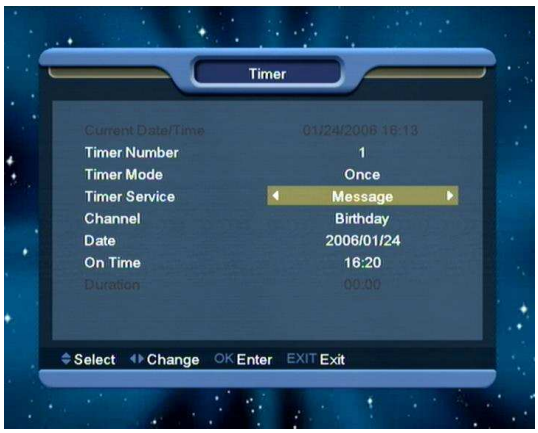
Radio" and "Record TV" (Timer setting for Record the TV or Radio program to USB Hard Disk) and Message (reminding message).

✧ 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 `00:00`.

✧ When you select “Message” (reminding message) option in “Timer Service”, the screen will display like below:




- 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 Startup Channel

Press [OK] key to enter “Startup Channel” menu, and you will see the screen like below:

✧ If the setting of “Boot on Channel” is “On”, it means the following two items can be work. If the setting is “Off”, it

means the “Boot on Channel” function can’t work.

- ✧ In the “Mode” item, you can set the “Startup Channel” as “TV channel” mode or “Radio channel” mode.
- ✧ In “Startup Channel” menu, you can press [OK] key to open the channel list, and select the channel that you want it to startup, press [OK] key again to confirm.

## 11.6 Channel Play type

1 Press [OK] key to enter “Channel Play Type” menu, and you can select the “playing channels” as “Free”, “Scrambled” or “All”.

2 For Example: If you select “Free”, in full screen play, all scrambled channels will be skipped when you change channels by use [Channel up/Channel Down] key.

3 Press [Exit] to draw back from “Channel Setup” Menu.

## 11.7 OSD Setting

When you input to “OSD Setting” menu, you will see a screen like below:

1 Subtitle Display: 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 while this function is “On”. If this function is “Off”, there won’t show up subtitle information even if the current channel has subtitle information.

2 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”.

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

4 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).

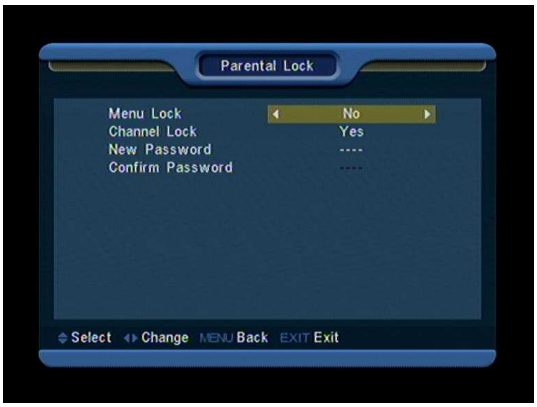
5 Load OSD Setting Default: If you are not satisfy with your setting, you can move highlight to this item and press [OK] key to reset parameters as default value.

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

### 11.8 Parental Lock

You can set a password for anyone who wishes to operate in the “Installation” 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 “Installation” menu, whether have to input Password or not. If the setting of “Menu Lock” is “Yes” which means user have to key in password, set “No” 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 “Yes”, 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 “No”, 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 “System Setup” menu, the revising is complete.

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

## 12. Tools

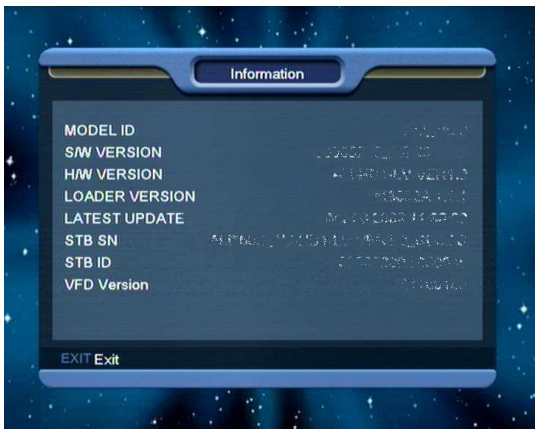
When you enter to “Tools” menu, you will see a screen like below:

In “Tools” menu:

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

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

### 12.1 Information

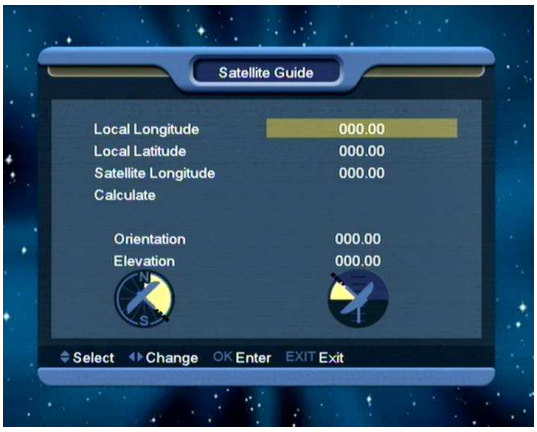


1 When you enter to “Information” menu, you will see a screen like above. The screen displays :MODEL ID,S/W VERSION,H/W VERSION,LOADER VERSION,LATEST UPDATE,STB SN,STB ID,VFD Version.

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

## 12.2 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”.

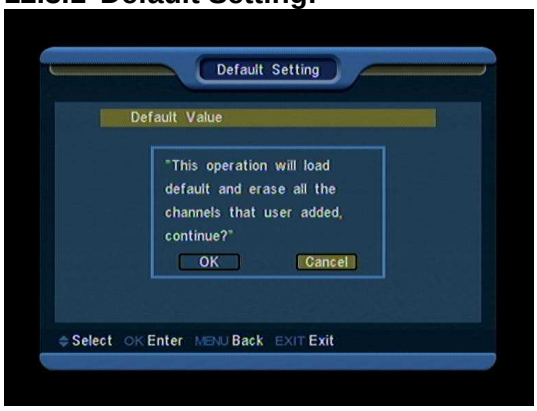
3 Moving highlight to “Start” item and press [OK] key. The lower column on the screen will calculate the corresponding value automatically.

4 Orientation means the angle between south and satellite.

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

## 12.3 Default Setting

### 12.3.1 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 “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[Exit]key can draw back from this item and without saving.

### 12.3.2 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.

### 12.3.3 VFD Power In

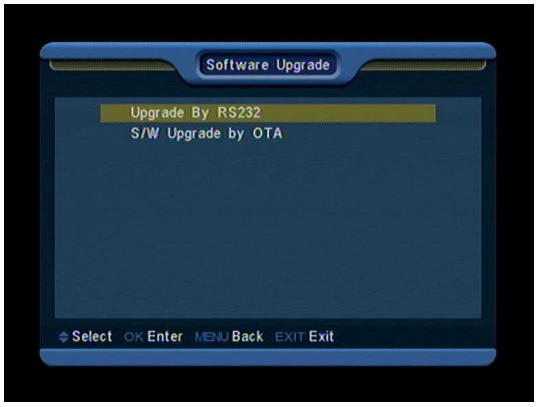
In"VFD Power in"menu,there are two options, “On” and “Off”, for your selection. If the setting is “On”,when you press [power] key to standby,the VFD will display the time and "STANDBY", If the setting is “Off”,when you press (power)key to standby,the VFD will not display the time and "STANDBY".

Press [Exit] to draw back from "Default Setting" menu.

### 12.3.4 Scart Loop

This Scart Loop item have two options "ON" and "OFF", if setting is ON, will enable "SCART LOOP" and "TUNER LOOP" function when receiver is in standby, if setting is OFF, will disable "SCART LOOP" and "TUNER LOOP" function when receiver is in standby.

## 12.4 Software Upgrade



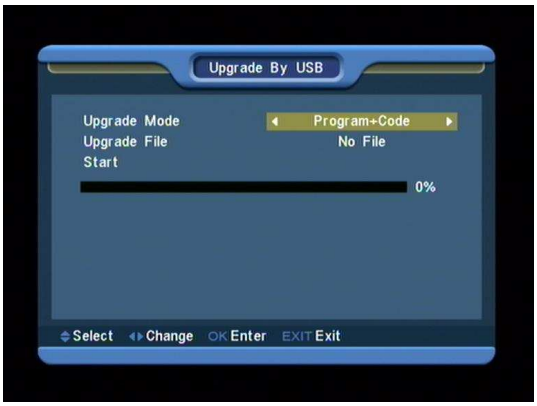

Upgrade by RS232:

**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.

## 12.5 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 Program+Code, Code, User Back, Video Back, Radio Back and Default DB, 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.

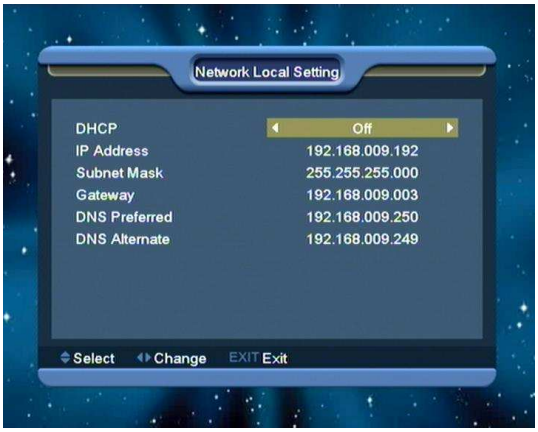
## 12.6 Backup to USB

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 .

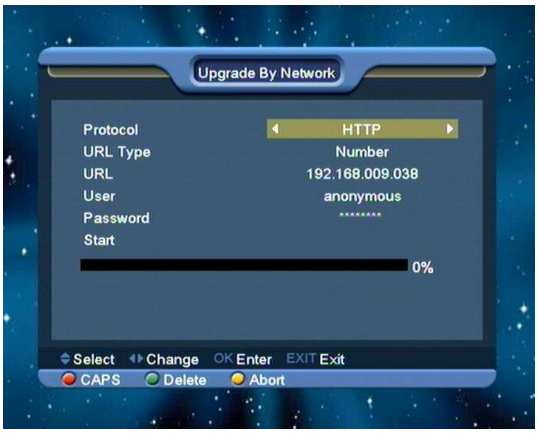
## 12.7 Network Local Setting(Optional)




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

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

## 12.8 Upgrade By Network(Optional)




In this menu you can Upgrade by network, you should assign the Protocol(HTTP or FTP), URL Type, URL address, User name and Password,then the receiver will connect to the server and upgrad automatically.

# 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. 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.*

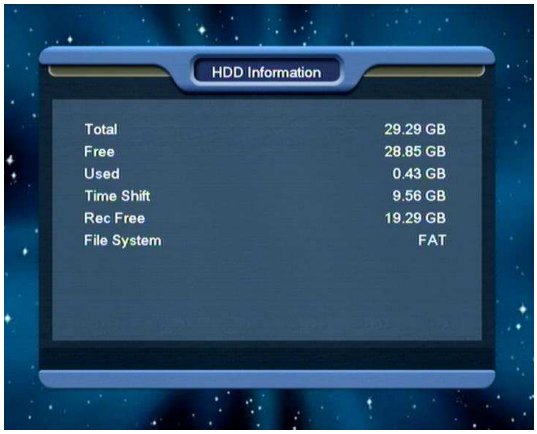
## 14.1 Record Manager

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.

## 14.2 HDD 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.




## 14.3 HDD format

If you want to format the HDD, press "OK" button on "HDD Format" Item, 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.*

## 14.4 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.

## 14.5 File List

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

In this menu you can manage the play list.

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.

## Color key operation:

**Green key:**

put the file selected by scroll bar to play list when press Green Key, in the meanwhile show “Add to Play List”, display disappear after about one seconds, the file will be added into MP3 play list if it is one MP3 file, to Image play file for one Image file.

**Yellow Key:**

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

**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.

**Red Key:**

Show one operation window:” please select play list type” by Red 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.

## Music play operation

If you select music, and MP3 play list menu is activated, please see the below picture:

**Red Key:**

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

**Green key:**

Change play mode by Green Key, and play mode include: Sequential/Random/Single repeat/all repeat.

**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.

After begin to play MP3, it will show the MP3 info bar as the above picture.

Move the highlight to “PAUSE” icon and press OK key to pause.. Move the highlight to “PLAY” icon and press OK key to play. Move the highlight to “STOP” icon and press OK key to stop and time return to `00:00`.

Move the highlight to “PREV” icon and press OK key 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.

Move the highlight to “NEXT” icon and press OK key to go to the next file.

Move the highlight to “FORWARD” icon and press OK key to forward 20S. Move the highlight

to “BACKWARD” icon and press OK key 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.

## 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.

**Green key:**

Press Green Key will show Setup Menu, please see the below setup menu:

**Size (Screen) select:**

Real：show the real size if the image size less than full screen size, but only partial image, the image is shown from Left Top corner, don’t show for over part.

Full :Full screen display and show real size if the image is less than screen.

## Menu Operation:

(1) Setup option

Press up/down key to move scroll bar, and switch option by Left/Right key, all option please see the below table:

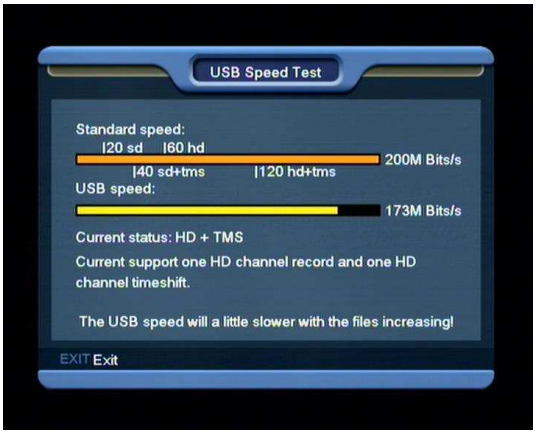
| Item | Option | Default |
|---|---|---|
| Size | Full/Real | Full |
| Time | 0~10Sec. | 2 |
| Repeat | Off/On | On |

(2) Save/Exit

Move scroll bar to Save icon, press OK for file save, select Exit and press OK, exit without save.

When slide show image file list, press left or right key to go to previous/next image quickly.

### 14.6 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.

### 14.7 Remove USB Device

Press [OK] key on this item, you can remove the USB safely.

## 15. New Features

### 15.1 Equalizer

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

### 15.2 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.

## 15.3 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.

# 16. 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<br>Some of the Settings saved by user can be deleted partly or fully |
| No signal | The level of signal is weak<br>LNB is out of order<br>The cable from the LNB or Terrestrial is incorrectly Connected (short circuit or open circuit)<br>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<br>Channel is scramble |
| Receiver not responding to remote control unit | RCU batteries are dead or inserted incorrectly<br>The RCU is pointing toward wrong direction |
| Poor picture Quality | The level of Signal strength is low |
| No sound | The cable is connected incorrectly<br>The Volume level is low<br>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<br>RCA Jack or cable is not connected firmly to the video output port of television<br>Incorrect channel or video output is selected on television<br>Brightness level of your TV set is incorrectly defined |

# 17. Specifications

| | |
|---|---|
| **SYSTEM RESOURCES** | |
| ***Main Processor*** | 396M Hz based CPU |
| ***Flash Memory*** | 32M Bits |
| ***DDR SDRAM*** | 1024Mbits |
| **Tuner/Front-end** | |
| ***Tuner Type*** | DVB-C (optional) |
| ***Input Connector*** | F-type/IEC-Type, Connector, Female |
| ***Loop Through*** | F-type, Connector, Male |
| ***Frequency Range*** | 47-862MHZ |
| ***Signal Level*** | "-20dBMV to +20dBMV" |
| ***Bandwidth*** | 8MHZ |
| ***Demodulation*** | QAM |
| ***Constellations*** | 8,16,32,64,128,256 |
| ***Input Symbol Rate*** | 1.5 - 7 Ms/s |
| | |
| ***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/S2 (optional) |
| ***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*** | 20W 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 |
| | 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 |
| ***Net Weight*** | 2.0KG |
| ***Operation Temperature*** | 0℃~+45℃ |
| ***Storage Temperature*** | -10℃~+70℃ |
| ***Storage Humidity*** | 5%~95% RH (Non-Condensing) |