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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 - 240V AC 50/60Hz

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

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

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

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

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

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

FAILURE TO DO SO CAN DAMAGE THE LNB.

CONNECTION TO THE TV: Disconnect the HD Receiver from the mains before connecting or disconnecting the cable from the TV set.

FAILURE TO DO SO CAN DAMAGE THE TV SET.

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 or rain.

Attention!!!

The guarantee service doesn't cover the STBs that are used with the software or its modifications not licensed by the manufacturer/supplier. The licensed SW can be found on manufacturer's web-site <http://galaxy-innovations.com>.

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 10000 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
- Conax Embedded
- Full HD 1080p output via HDMI
- True-color On-Screen Display (OSD)
- S/PDIF for digital audio
- DiSEqC 1.0, 1.1, 1.2 ,USALS and Unicable
- USB 2.0 Host, USB-HUB, USB-WIFI and USB-3G support
- VFD Display for service information
- Endless possibility with Plug-In support
- 10000 channels (TV and Radio) programs
- Electronic Program Guide (EPG) for on screen channel information
- Subtitle supported
- Teletext supported by VBI insertion and software emulation
- PVR Ready, Recording and TimeShift
- Multi-Media support TP, TRP, MTS, MPG, MPEG, VOB, MP4, MOV, 3GP, Xvid, SWF, RM, RMBV, AVI, MKV, TS, Divx, WMV, M2TS, FLV, DAT, ASF and IOS
- YouTube, WebTV, Net Radio, DLNA, SAMBA, Yupoo, Picasa, Flickr, Google Map, Weather forecast, RSS Reader, Mobile phone Remote, Network Proxy support
- More than 600 games in game store
- Blind scan, Fast scan and LCN function
- Parental lock facility by channel and program event
- RTC (Real-Time-Clock) and NTP
- Channel list editing(Sort, delete, rename, lock, skip, move)
- Favorites channel list editing
- Full Picture In Graphic (PIG) function
- Multilingual menu text support
- Software Upgrade via USB, HTTP, FTP, RS232

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 the receiver power on/stand by

MUTE

Used to enable or disable the audio.

TIMER

Press timer key you can setup up the timer.

V. FORMAT

Press V.FORMAT key to switch the display mode among " Auto-> by native TV<->480i->480p ->576i-> 576P-> 720p-50-> 720p-60-> 720P-60-> 1080i-50->1080i-60 ->1080p-50->1080p-60".

F1

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

TV/SAT

Receiver switches between TV and receive mode.

USB

To remove the USB Hard Disk safely.

(FIND)

Use to prompt find channels sort by character.

NUMERIC KEYS

Used to select channels or enter programming parameters.

(ZOOM)

Press key select zoom times, from X1 to X4.

TV / RADIO

Receiver switches between TV and Radio mode.

RECALL

Return to the previous menu or status.

MENU

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

INFO

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

<,> 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

To select menu option, or to updated on entry and show channels list.

EXIT

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

EPG (Electronic Program Guide)

Display the Programs guide on screen when available.

VOL +/- KEY

To adjust volume level

Shortcut

Press this button to show shortcuts list for quick run Application and Media functions.

PAGE▲/PAGE▼

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

•REC

Start record program function.

■ Stop

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

► Play

To play the MP3, JPEG, or Record files.

|| PAUSE

Used to select the freeze function.

Press once to freeze the screen picture.



To start Fast Backward function.



To start Fast Forward function.

⏮/⏭ PREV/NEXT

Switch to preview or next file in play mode.

TMS (Time Shift)

Press this button to display Time Shift info bar.

MEDIA

Press this button to enter the media menu directly.

Goto

Choose the special time to play during playing videos and record files.

A↔B

To setting the repeat range of the video and mp3 player.

Repeat

To setting the Repeat mode of the video, MP3 and Image player.

AUDIO (Red Key)

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

OPTION (GREEN KEY)

Shows NVOD information of the current channel if this channel supports.

Bookmark

To mark the playing position.

FAV (FAVORITE)

Press this button can go to the Favorite group list.

Display the favorite channel lists.

SAT

Display the satellite list at normal picture.

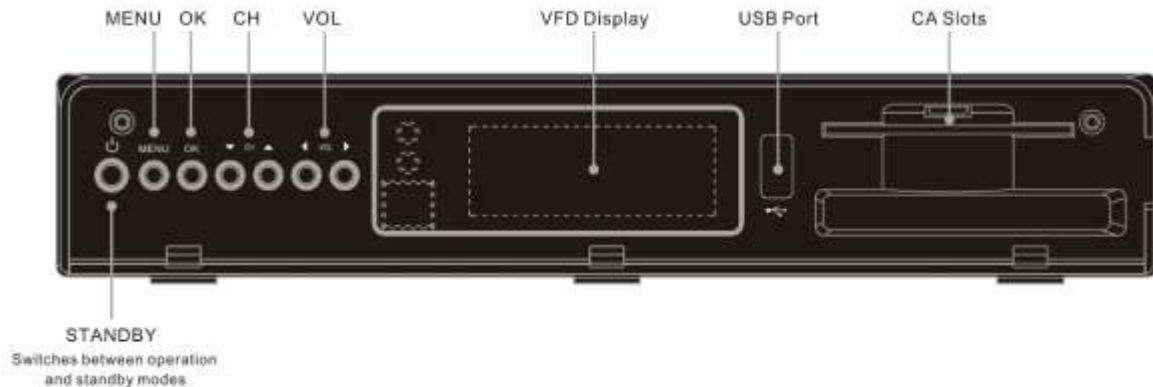
Teletext

Shows teletext information of the current channel if this channel supports.

Subtitle

Subtitle Display.

5. Front panel



STANDBY KEY: To switch the receiver power on/stand by.

MENUKEY: To enter the Main Menu.

◀, ▶ KEY: To adjust volume level, or to move cursor left or right in the menu.

▲, ▼ 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.

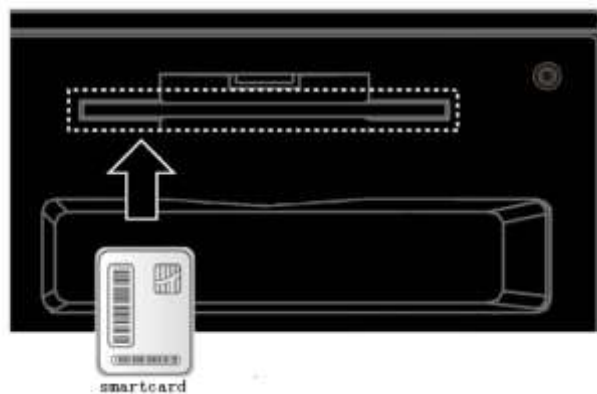
POWER Indicator: Lit whilst the receiver is powered on and at standby mode.

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

Card Slot: One slot CA Interface for Conax Smartcard.

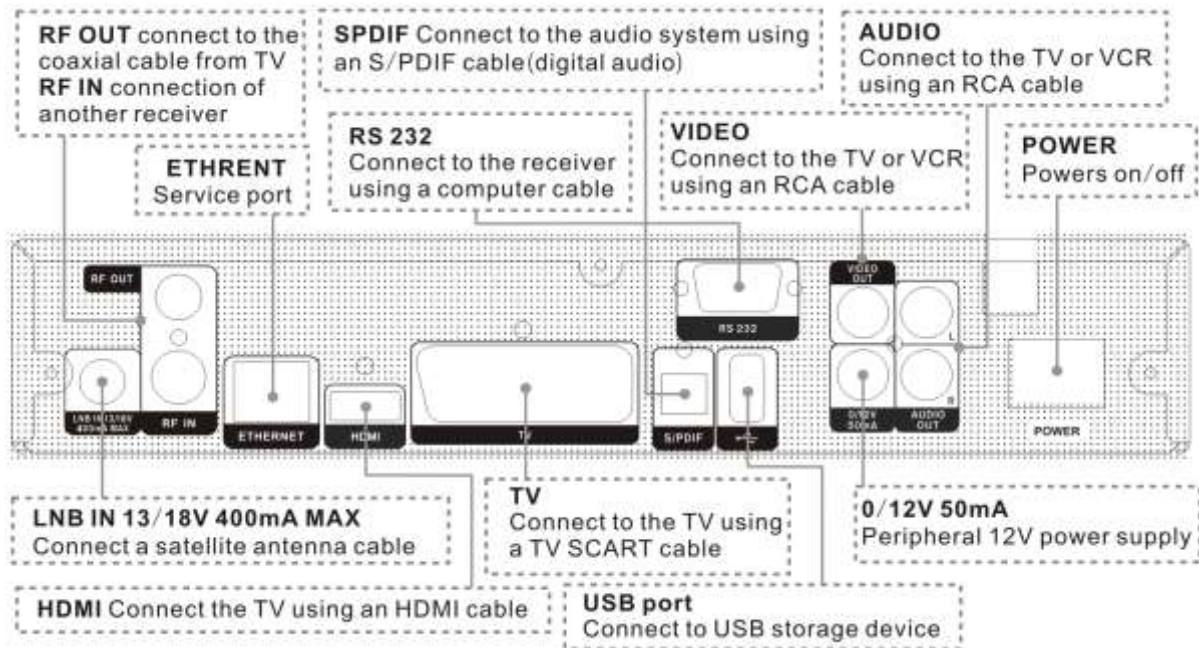
USB: USB 2.0 Host, connect to USB hard disk, flash disk, WiFi dongle, 3G dongle or gamepad.

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



Hold Smartcard horizontally with the electronic chip facing upwards. Then insert the Smartcard into the slot.

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.

POWER ON/OFF SWITCH: To switch ON/OFF the receiver power supply.

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

VIDEO OUT: This RCA connector is used to connect any external video.

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.

RS232: SERIAL PORT: This is used to connect your receiver to a computer through a serial cable.

USB: USB 2.0 Host, connect to USB hard disk, or flash disk.

TV: This is used to connect your TV through SCART cable.

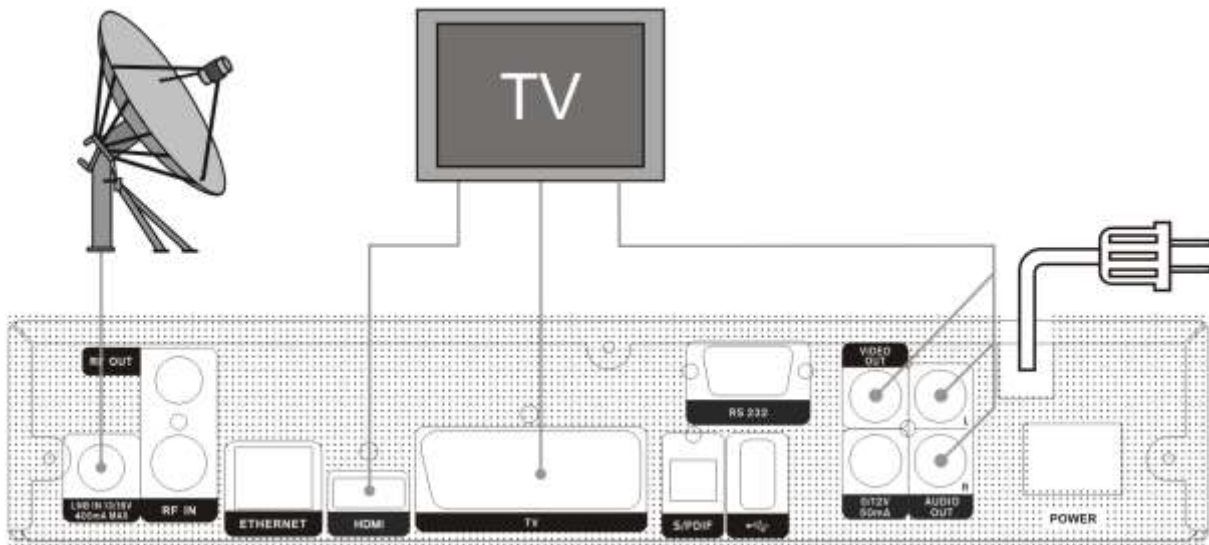
Ethernet: Network port, you can enjoy the network application function via this port, or you can get new software updates or new games.

RF IN : Connect to Analog TV antenna.

RF OUT : This is used to connect your TV through RF cable.

0/12V 50mA: This port is the 12V DC power supply.

7. Connecting



7.1 Connecting the Antenna

Connect one or two satellite coaxial cable from the wall to LNB IN.

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, 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.

7.2 Connecting the TV

1 TV with the HDMI connector:

For the best picture quality, connect the product and TV using an HDMI cable.

2 TV with the SCART connector:

For good picture quality, connect the product and TV using a SCART cable.

3 TV with the AV connector:

To output video and audio, connect the product and TV using an AV cable.

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, and SPARE OR EXTRA input jacks on your Hi-Fi System.

Note:

- 1) *When using the digital audio system, connect the product and the digital audio system using an optical fiber cable for audio.*
- 2) *Connecting your TV directly to the audio/video output of the product will assure a more vivid picture and enhance your viewing enjoyment.*

7.3 Connecting the Network

1. Connecting to the LAN:

Connect one end of the Ethernet cable to the product and the other end to the LAN router.

2. Connecting to the Wi-Fi (Wireless LAN):

You can connect the network via the Wi-Fi access point or DSL/cable modem.

- a. Plug in the wireless USB dongle to the USB port.(Separate purchase required)
- b. Set the options for the Wi-Fi.
 1. **Network Name (SSID):** Select the network name of your Wi-Fi access point from the list.
 2. **Security Type (WEP):** This product supports WEP 40/128bit ASCII and WEP 40/128bit HEX. The security type of the Wi-Fi and the product shall be set the same.
 3. **Password:** When using the security type, you must set the password. Enter the same password in the Wi-Fi setting menu.

3. Connecting to the 3G network:

For connect the network via the 3G dongle, Plug in your 3G dongle to the USB port.

Note:

- 1) *Make sure the distance between the Wi-Fi access point and the product is not too far away. This may lower the quality of service.*
- 2) *It is recommended to purchase a wireless USB dongle distributed by RT3070, RT5370. Other products may not function or respond.*
- 3) *It is recommended to purchase a 3G USB dongle distributed by huaweiE1750 ,E1550 ,E367 ,E1752 ,E173 ,EC122 ,EC156, Other products may not function or respond.*
- 4) *We recommend the network connection over a direct LAN.*

8. Basic Operations

8.1 Turn on STB

First, you can 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.

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, you can press [up/down] or page key to change channel.

8.4 Volume Up/Volume Down

In full screen, you can press [VOL+/VOL-] or [left / right] key to adjust volume.

8.5 Number

In full screen, use number key 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 or adjust volume again to restore sound.

8.7 Pause

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

Note: If you connecting the hard disk, and enable the TimeShift function, the picture and the sound will continual playing.

8.8 Recall

Press [RECALL] 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 see like below.



- In the window of "Favorite list", you can move highlight by pressing [Up/ Down] key to select favorite Channels.
- In the window of "Favorite list", you can press [Left/Right] key to select favorite groups. Pressing page keys can implement the "Page up/Page down" function



- Press [Exit] key to exit the current window.

? : Frequently Asked Question

Q: Why the screen displays "No Favorite program", 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

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



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

8.11 Information

In full screen, Press [info] key once you can see the channel info bar, press [info] key twice you can see the

EPG information of current channel, and press [info] key for three times, you can see all parameters of current channel like below:



8.12 EPG

- 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.



- Press [Red] key to select different display mode among Now EPG, Next EPG, More and Schedule, like the following picture:





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



- Press [Green] key you can enter to Timer list menu to delete or edit timer events.
- In EPG menu, when you select one event by high light item, you can set this event to record timer list directly by pressing [yellow] key.

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



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

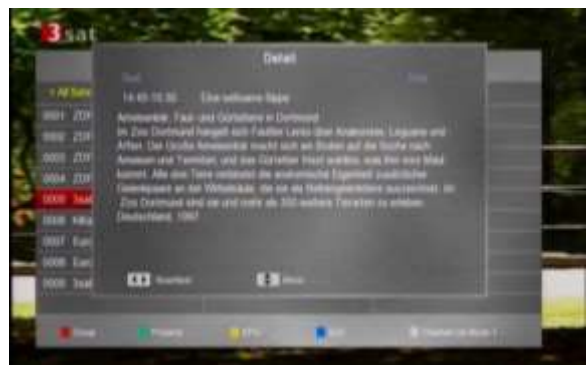
- Press [Yellow] key to display details information for EPG Now.

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

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



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



The five kinds of sorting ways are:

- ✧ Default: Sorting by scanning result.
 - ✧ FTA: Sort channel through free and scramble sequence. Free channels will in the front of channel list and scramble channels will at the rear of channel list
 - ✧ Scramble: Sort channel through free and scramble sequence. Scramble channels will in the front of channel list and free channels will at the rear of channel list
 - ✧ A to Z: Sorting in Alphabetical Order, ignore "\$" symbol.
 - ✧ Z to A: Sorting in Alphabetical Order, ignore "\$" Symbol.
- 6 Press [white] key you can change the channel list mode display.



- 7 Press [Up/Down] key to move highlight and press [OK] key to play the highlighted channel.
- 8 Press page key to page up and page down.
- 9 Press [Exit] key to exit the channel list.

8.15 Page▲ / Page▼

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

8.16 TEXT

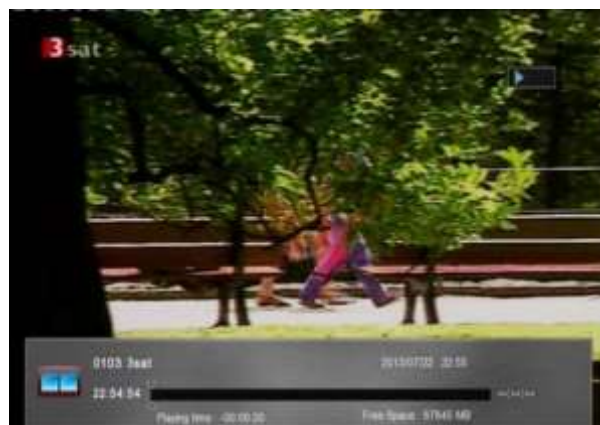
1. Press [TTX] key in full screen, you can open teletext page on the channel which has teletext information, the receiver supports VBI and OSD teletext formats.
2. If the channel has no teletext information, it will show "No Teletext!" on the screen.

8.17 Subtitle

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

8.18 Time Shift

If you connect the USB HDD and enable the Time shift function in PVR Setting menu, when you select "Auto" option in menu setting, Time Shift function will be started automatically after you switch the program, If you select "pause" option in menu setting, you should press "pause" key to start the Time Shift function by manual. You can press [info] key to show the Time Shift info bar like below.



- 1 In this info bar you can view the playing time and the free space of current USB disk.
- 2 You can press " ||| " key to pause the video and press [▶] key to view the video again.

- 3 You can press [⏮] or [⏭] key to Fast Backward or Fast Forward.
- 4 You can press [A↔B] key to select a repeat playback range.
- 5 Press [⏸] key jump to real-time playing and exit "time shift".
- 6 Press [■] key to stop the time shift and pop-up a message like below



You can select "yes" option to stop Time Shift

8.19 Record

If you connect the USB HDD, you can perform the following functions.

When you press [●] key to start record function, as following picture:



One moment later as following picture:





1. Press [exit] key to exit the record info bar and press [INFO] key to display the info bar again.
2. You can press [INFO] key to display the record file list, in this list you can press [up / down] key to choose a record file to playback. The current recording will be continued during playback previously record file.




3. Press [●] key again to setting the record duration.




4. You can press " || " key to pause the video and press [▶] key to view the video again.
5. You can press [⏮] or [⏭] key to Fast Backward or Fast Forward.

6. You can press [] key skip to real-time playing or press [] key skip to the beginning of the recording.
7. You can press [A↔B] key to select a repeat playback range.
8. When you playback the record file, you can press [repeat] key to setting repeat mode. You can also press [left /right] or [Go to] key skip to different position, in "Go To Special Time" menu you can press [up] key and input the special time to start playback.




9. This HD receiver supports 2 channels recording and 1 channel viewing at the same time on the same TP. Or 1 channel recording and 1 channel TMS at the same time. You can press [] key to stop 1 or both recording when you record 2 channels at the same time.



10. If you select "Timeshift to record" as "On" in PVR Setting menu, when you press [] key during Timeshift, the Timeshift part will be saved to the record file.
11. Sometimes just connect a new disk when prompt a message like "checking partition for consistency, please try later..." which means still checking the hard disk, you can record later



12. Press [] key to stop the recording.

8.20 MEDIA

In full screen, press [MEDIA] key enter to "MEDIA" menu directly.

8.21 ShortCut

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



1. In this menu you can press [up /down /left /right] and [OK] key enter to these functions directly.
2. When you enter to these functions from "shortcut" menu, press [menu] key can return to "ShortCut" menu again.
3. You can press [red] key to move the menu location as you like.



8.22 Find

1. Press [Find] key in full screen can open the "Find" window like below. You can press [Left/Right/Up/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. Press [Blue] key can close "Find" window then you can select channel from the channel list directly.

8.23 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, x3, x4.
- 3) In "x2 ~ x4" image, using [Up/ Down/ left/ right] keys to move the image center area you want to see.
- 4) In zoom mode, press [Exit] key to close "Zoom" window.

8.24 TV/SAT

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

8.25 Menu

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

8.26 Video Format

Press [V.FORMAT] key under Full Screen at the first time, it will show the current system outputting video resolution, continuously press this key, system will switch its outputting video resolution by sequence "480p_60->576p_50->720p_60-> 720p_50->1080i_30-> 1080i_25->1080p_60 ->1080p_50 ".



8.27 Exit

Press [EXIT] key can exit the current menu to last menu or close the window.

9. Service

1. When you press [Menu] key enter to menu, there will display the picture like below, If Menu Lock is "On", and it will display a dialogue for user to input the password. The default Password is "0000".
2. Press [Left/Right] key to select submenu pages among Service, Installation, System, media, Plug-in, Conax. Game and Application.



3. Press [left/right] key you can select the service options, and press [OK] key to enter this menu;



4. Press [left/right] key you can select the submenu between “Organizing services” and “Organizing Favourites”.
5. Press [OK] key enter to “Organizing services” or “Organizing Favourites” menu and Press [menu] key return 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 [Up/ Down] key and [OK] key to select the programs which you want to edit.
2. You can press [Page▲/Page▼] 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 Groups



- 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” windows 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) You can press [OK] key to select the channels which you want to move in channel list, or press [green] key via other options to select the channels which you want to move in channel list.
- 2) Then press [Right] key to move the high light to right toolbar.
- 3) Select Move icon by press [Up/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) You can press [OK] key to select the channels which you want to lock in channel list, or press

[green] key via other options to select the channels which you want to lock in channel list .

- 2) Then press [Right] key to move the high light to right toolbar.
- 3) Select Lock icon by press [Up/Down] key and [OK] key.
- 4) Lock the channel by press [OK] key. Like the following picture:



9.1.5 Delete

- 1) You can press [OK] key to select the channels which you want to delete in channel list, or press [green] key via other options to select the channels which you want to delete in channel list.
- 2) Then press [Right] key to move the high light to right toolbar.
- 3) Select Delete icon by press [Up/ 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



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

9.2 Organizing Favourites

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



9.2.1 FAV List

You can choose the FAV List by press [FAV] key, we offer 32 groups favourites

9.2.2 Add

To add services into favorites, Mark the desired services by press [OK] key in Service List, Press [right] key move to add menu and press [OK] key add to FAV list.

9.2.3 Remove

To remove services from favorites, Mark the desired services by pressing [OK] key in Favorite List, Press [Left] key choose Remove menu and press [OK] to remove.

9.2.4 Move

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

9.2.5 Rename

Select the desired FAV List by pressing [FAV] key, using [up/down] key to choose rename mode and press [OK] key to display keyboard, and rename it.

9.2.6 Group, Options and Find functions

Please refer to the "Organizing Services" part in this manual

10. Installation



1. When you press [Menu] key enter to main menu, press [left /right] key to select Installation menu, Press [OK] key to enter the "Installation". Press [left/right] key to select submenu. Press [menu] key to go back to main menu, when you enter to satellite installation options, you can press [up /down] key to select menu items.

10.1 Satellite Installation

10.1.1 Satellite

- 1 Satellite: Press [up/ down] key to enter the Satellite list.



Press [OK] key to select satellite. Press [Page▲/Page▼] key to page up or page down.

10.1.2 LNB Type

Press [right] key to select this item, press [OK] key and [Up/Down] key can switch among “Standard”, “User”, “unicable” and “Universal” mode.

For Example: you can select the Unicable config mode, if you choose manual mode, you should setting the IF Index, IF Frequency and Satellite Position according your LNB type.



10.1.3 22K

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

Notice

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

22K.



10.1.4 0/12V

You can use [OK] and [Up/Down] key to switch “ON /Off” by control of 12V power supply. When this item switches to “On”, receiver will receive signal from 12V port. If the item switches to “Off”, the receiver will receive all signals from 0V

10.1.5 Tone burst mode

In “Tone burst” item, you can press [OK] and [Up/Down] key to switch “None/ Tone burst A/ Tone burst B” functions.

10.1.6 DiSEqC

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

- 1) A, B, C, D: 4 ports DiSEqC 1.0
- 2) 1, 2,...,16: 16 ports DiSEqC 1.1





10.1.7 Motor Setting

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



10.1.8 Polarity

In Satellite item, press [green] key to switch satellite list and TP list, in TP list, you can press [blue] key to add/edit/delete TP, this menu you can set polarity, in add and edit menu press [Left/ Right] key to switch “H / V” functions.

10.1.9 TP Edit

In TP list, when you press [blue] key, there will display the screen like below:



- 1) You can use [up/down] and [OK] key to Add /Edit /Delete transponder.
 - ✧ When you select “Add transponder”, it will display “Add Transponder” in screen; you should set the parameters of “TP Frequency”, “Symbol Rate” and polarization, 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 select “Edit transponder”, there will be covered by the original transponder, and show up a new transponder, the parameters range is the same like add transponder.
 - ✧ When you select ‘Delete transponder, there will pop a warning dialog for reminding whether you will save change? If you select “Yes”, these transponders will be deleted.
 - ✧ When you select “Delete All”, there will pop a warning dialog for reminding whether you will save change? If you select “Yes”, all transponder will be deleted from the current satellite.
- 2) When you complete your modification, Press [Red] key, it will show up a dialog to ask you setting the parameters: Network Search, channel type, scan mode and scan type. After you set up, press [OK] key to start scanning.
- 3) In this item, press [menu] key to exit the scanning and save the current parameters.

10.1.10 Single Scan

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), channel type (means you want to scan all channels or only scan TV/Radio channels), scan type (means Manual scan, that is searching the existed TP. blind scan means It is no need existed TP info) and NIT Search on/off. After you set up, press [OK] key to start scanning.

10.1.11 TP Scan

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

10.1.12 Auto DiSEqC

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



10.1.13 Blind Scan

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



10.2 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. Moving highlight to "Calculate" item and press [OK] key. The lower column on the screen will calculate the corresponding value automatically.
3. Orientation means the angle between north and satellite.
4. Press [menu] key to draw back to "Installation" menu.

11. SYSTEM

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



In "system" menu:

1. Press [Up/ Down/left/right] key to select menu items among Language, A/V Control, Ethernet Setting, Local Time setting, Timer, Parental Lock,

Miscellaneous Setting, software Upgrade, Default Setting and Information

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

11.1 Language

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



1. OSD Language: press [OK] and [up/ down] key to select menu languages, the selections of languages include: English, Russian, Spanish, French, Ukrainian, Belarusian, German, Portuguese, Swedish, Italian, Dutch, Turkish, Greek, Arabic etc.
2. Audio Language: Some channels have more than one audio language for choosing; by this function you can set the first audio for this channel. 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, Russian, Spanish, French, Ukrainian, Belarusian, German, Portuguese, Swedish, Italian, Dutch, Turkish, Greek, Arabic etc.
3. Second Audio: If the channel has no corresponded 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, Russian, Spanish, French, Ukrainian, Belarusian, German, Portuguese, Swedish, Italian, Dutch, Turkish, Greek, Arabic etc.

4. EPG language: Press [OK] and [up/ down] key can select EPG language.
5. Subtitle Language: Press [OK] and [up/ down] key can select subtitle language.
6. If the channel has no corresponded subtitle with "First subtitle" but have corresponded subtitle with "Second subtitle", system will play the second subtitle language as default. If no subtitle language corresponds with the "Second subtitle", then the default language of current channel will be played automatically.
7. Teletext Language: You can set teletext language. If the streams have this language you can see the teletext in language you set.
8. Press [Menu] key to draw back from "Language" menu.

11.2 AV Control

When you enter to "AV Control" menu, you will see the screen like below:



1. Video Resolution is for switching the system outputting video resolution. Move highlight on it and press[OK] and [up/ down] key, it will switch video resolution circularly by the sequence "480p_60->480i_30 ->576p_50-> 576i_25-> 720p_60-> 720p_50->1080i_30-> 1080i_25->1080p_60 ->1080p_50->Auto Detect". This effect is equal to press V.Format Key under Full Screen and their last setting saving will be efficient for each others. Auto Detect 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.
2. Aspect Ratio is for switching the screen aspect ratio mode. Now we provide below options: 4:3

LB / 4:3 PS / 16:9/Full Screen. You can press [OK] key and [up/down] 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. Full Screen 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 [OK] key and [up/down] key to select RGB or CVBS
4. Volume Set: Press [OK] key and [up/down] key to select Global or Each, Global means when you adjust the volume on one channel, then all channels volume will be adjusted. "Each" means when you adjust the volume, then only current channel volume will be changed.
5. HDMI Audio: press [OK] key and [up/down] key to select Mute, PCM or RAW, this menu controls the HDMI port for digital audio output function, if you select Mute option, then all channels no sound from HDMI output when you adjust the volume, even no press [MUTE] key. It is the same function like press [MUTE] key in full screen. If you select PCM option, the digital audio output will all transformed to PCM format. If you select RAW, then all audio output will maintain the original state.
6. SPDIF is for switching the SPDIF audio output, now we provide below options: Mute, PCM, Bit stream. The same parameter settings like HDMI Audio.
7. RF System is use for switching RF format. Now we provide below options: PAL-BG / PAL-I / PAL-DK / NTSC.
8. RF Channel is use for setting TV frequency range, please refer to the table as below:

System	Range
PAL-BG	21~69(Italian; default value) 28~68(Australian)
PAL-I	21~69
PAL-D/K	21~69
NTSC	14~83

9. RF function can receive satellite TV channel from receiver and add new channel to your TV channel. After setting, while you want to see the satellite channels, you can search the channel in TV mode and needn't switch video to AV mode.
10. OSD Transparency: This menu is for setting the OSD transparency. You can press [left/right] key to select the values. There are 7 levels of transparency, 10%, 20%, 30%, 40%, 50% and 60% and "0%" (means no transparency function).
11. Contrast / Brightness / Saturation /HUE : You can adjust the parameter about the Video image by using the [OK]button or press [left/right] key, the default value is 50%.
12. Press [menu] key to draw back from "AV Control" menu.

11.3 Ethernet Setting

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



11.3.1 Wire Network.

- 1) Select **Wire Network** on **Default Network Type** item.
- 2) You can configure the Ethernet setting options.
 - ✧ **DHCP**: The system will automatically assign a dynamic IP address to the digital receiver
 - ✧ **Static IP**: The IP Address, Subnet Mask, Gateway and DNS options become enabled. You have to set these options according to your IP address.
 - ✧ **Bootp**: The system will automatically assign a dynamic IP address to the digital receiver ,but in diskless workstation LAN to effective
 - ✧ **PPPOE**: In this menu you can get the IP parameters via dial-up access, but need the

network operators provide account and password, then enter “Start” to get the IP address.

- 3) Press [Menu] key to save and exit.



11.3.2 Wifi Network

- 1) Select **Wifi Network** on **Default Network Type** item.
- 2) When you insert the wifi dongle, the screen will display a message like “[wifi] device plug in” after about 5 seconds.
- 3) Select “config” menu the wireless LAN network list will appear, Select you Wi-Fi network and press [ok] key, at last input password. Select Link menu to connect to the wireless LAN network. if you have wireless LAN network no found ,you can press [green] key to add by manual:
 - ✧ **SSID:** The network name.
 - ✧ **Network type:** Press [OK] key and [up/down] key to select AD-Hoc or infrastructure
 - ✧ **Encryption:** Press [OK] key and [up/down] key to select No Security, WEP-64bit ASCII and WEP-64bit HEX etc.
 - ✧ **Password:** Press [ok] key to input the password.
 - ✧ **Auto Link:** When you select this menu, if the wifi dongle connect to a network successful and then remove the wifi dongle, it will connect to the same network automatically when you insert the same wifi dongle again.
- 4) Press [red] key to refresh the AP list.
- 5) Press [yellow] key to Disconnect.
- 6) Press [menu] key return to Ethernet setting menu.



11.3.3 3G Network

- 1) Select **3G Network** on **Default Network Type** item.
- 2) When you insert the 3G dongle, the screen will display a message like “3G Device plug in “after 10 seconds.
- 3) You can select auto mode and press [blue] key to connect to network.
- 4) If you have the specification of the 3G dongle, you can select manual mode to setting by yourself. Press [red] key to add the Area, operator and APN. Press [green] key to modify the Area, operator and APN, press [yellow] key to delete the Area, operator and APN. Press [blue] key to connect to network or disconnect the network.



11.3.4 Ping Test

This function is for checking the network connection status, you can input IP address which you want to check and enter Start to run the IP ping function.

11.3.5 Preferred Storage

If you connect more than one USB disks or the USB disk has multi-partition, you can use this menu to change the default storage, the default storage is the first partition.

11.3.6 Network Proxy



11.4 Local Time Setting

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



1. GMT Usage: This item is use for open the usage of GMT. You can press [Up / Down] keys to switch “SAT, NTP or manual”, “SAT” means time from the satellite, “NTP” means time from the network.
2. The “GMT Offset” item is valid only when the setting of “GMT Usage” is “SAT” or NTP. You can press [OK] and [Up / Down] keys to switch “GMT Offset” value and the range is “-12:00 ~ +12:00”, increase each half hour progressively.
3. You can press [OK] and [Up / Down] keys to control Summer time on or off.
4. “Date” and “Time” items are valid only when the setting of “GMT Usage” is “manual”. You can press [left /right] keys to moving cursor and use number

keys to input directly or [up / down] keys change numbers.

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.

5. Press [Menu] key to draw back from “Local Time Setting” Menu.

11.5 Timer

You can press [OK] key to open timer menu. You will see the screen like below:

1. Timer list: You can press [Up / Down] keys to select Timer event, there are 27 timer events in total.
2. If you have added some timer events, but you want to delete them, you can press [red] key to delete all timer events, or press [green] key to delete timer event one by one.



3. Press [yellow] key or [OK] key to edit timer event.



- ✧ Current time information will display on the right corner; if the current time is incorrect, please modify the time information in “Time” item.

- ✧ Date: use number keys to input your timer event date.
- ✧ Program Name: press [OK] key to enter channel list, and press [up /down] key or [page▲/Page▼] key and [OK] key to select channel that you want to record or switch to.
- ✧ Start Time: Input the timer wakeup time by number key, when the wakeup time is up, the timer will be started automatically.
- ✧ Mode: There are several modes for Timer to setting, include Once, Daily, Weekly and Monthly.
- ✧ Type: There are two options for “channel switch”, include “TV Channel” and “Radio Channel” (timer setting for channel change and Wakeup/Sleep) and “Recorder to HDD” (Timer setting for Record the TV or Radio program to USB Hard Disk)
- ✧ Duration: Input the duration time by number key.
- ✧ PVR File Format: You can press [ok] and [up /down] key to setting the recording files type to “TS ” or “PS”.
- ✧ If you set the timer type as recorder to HDD, you should connect the HDD and setting the record parameter in PVR Setting menu first.
- ✧ According to the above parameter setting, you should press [blue] key to save the timer setting.
- ✧ You can press [menu] key to exit the current menu.

11.6 Parent Lock

You can set a password for anyone who wishes to operate in the main menu. You can also set the password for the lock channels and setting Parental Rating, Here will show you how to setting and how to revising the password.

1. In “Parental Lock” function, press [OK] key, there will pop a dialogue for you to input the password. When you input the correct password,(the default Password is “0000”),you will see a screen like below:



2. System Lock determining that when users wish to enter main menu, whether have to input Password or not. If the setting of “System Lock” is “On” which means user have to input password, set “Off” means unlock.
3. Channel Lock determining that when users 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”, play the channels with lock mark will no need input the password.
4. Parental Rating determining that when you playing Rating channels, below the Rating age will have to enter the password, this function requires front-end program support, we offer 16 options include “ 4~18” and “off “.
5. Change Pin Code 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 “save successful”. After finish saving and draw back to “parent lock” menu, the revising is complete.
6. Press [Menu] key to draw back from the “parent lock” menu.

11.7 Miscellaneous Settings

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



1. Auto Standby: You can press [OK] and [Up/ 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.
2. Deep Standby: If you set to "On", Press power key receiver will be in real standby status, the consumption will be less than 0.5 Watt. If it's set to "Off", Press power key, receiver will be in fake standby status, just closed the screen.
3. Standby LED Display: When you press power key to the power indicator light, if you select to "On", press power key will be lights, if it's select to "Off", press power key will be not light. This function only valid when the Deep Standby is off.
4. Channel list Mode: This item provides below options: 1/2/3, you can press [OK] and [up/ down] key to select each mode circularly.
5. Hard hearing: This function helps the hard of hearing person. this function requires front-end program support
6. 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 [OK] and [up/ down] key to set the time. The range of the duration is "1 second ~ 10seconds".
7. Subtitle Auto: You can press [OK] and [up/ 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 [SUBTITLE] key on remote.
8. Network Adult means that when you set to "On", in the APPLICATION menu display Youporn and

Redtube menu, press [OK] key, there will pop a dialogue for you to input the password. When you input the correct password, (the default Password is same the system password with "0000") the default set is "Off"

9. Front Panel: This menu is for the VFD panel display mode, if you select channel NO. option, VFD will display the channel name, and if you select Time option, the VFD will display the current time.
10. Screen Saver for Radio: You can press [OK] and [up/ down] key to select the time or "Off", if you select time, Radio full-screen playback duration this time if no any operation on receiver, it will go to Screen protect
11. Page: This menu set to the page key with remote, when you select "+/-", then press [PAGE+] key in channel list will page to last page, press [PAGE-] will page to the next page, instead of option "- /+" is reversed.
12. Debug: You can setting debug On/Off with this menu.
13. Remote Control: You can use this function to control the receiver with mobile devices like a Remote Control, (For example: mobile phone or pad that support Android system), you can enable or disable this function and setting a password as you need.
14. Press [menu] key to draw back from the "Miscellaneous Settings" menu.

11.8 Software Upgrade

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



1. In this menu, you can select different upgrade mode by USB , HTTP or FTP, if you get the “FTP Upgrade [sunbird].txt” file, you can press [red] key to update the FTP upgrade URL from USB, and get to you “Http Upgrade [sunbird].txt” file, you can press [green] key to update the HTTP upgrade URL from USB.

Note:

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

11.8.1 Upgrade By USB

In Upgrade By USB Menu like below:



In this menu you can upgrade the software from USB conveniently, in File path item press [OK] and [up /down] key select USB port.



If you had many upgrade files, in Upgrade File item you can press [OK] and [up /down] key to select upgrade files.

In Upgrade Mode item you can select the Upgrade Mode among all; SW+ Channel list; Software, Channel list; after you select the "Upgrade Mode" and "Upgrade

File", press [OK] key on "Start" item, the receiver can upgrade automatically.

Note:

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

11.8.2 Http Upgrade

In Http Upgrade Menu like below:



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.

11.8.3 FTP Upgrade

In Ftp Upgrade Menu like below:



When connected to the Ftp server, you can download and upgrade the new software from FTP server.

Note:

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

11.8.4 Backup to USB

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

- 1) In "Backup file", you can press [OK] key to edit the file name; there will pop a dialogue for you to enter to the new file name, Press [up /down] key in File path to select partition or drives;
- 2) In "Backup to USB", you can press [OK] key to start backup software.
- 3) In this menu, you can press "0000" key to display "backup channel list" item. If you select this item, you can see default DB.bin and defaultFAV.bin file in root directory of the USB storage.



11.9 Default Setting

When you enter to "Default Setting" menu, there will pop a dialogue for you to enter to the password, and the default password is "0000", after you input the correct password, you will see a screen like below:



11.9.1 Default all Value:

In Default All Value Menus like below:



When you press [OK] key in the "Default Setting" item:

- 1) There will show a warning message to inquiry you "This operation will load default and erase all the channels that user added, continue?"
- 2) If you select "Yes" option, the all revised parameters of the receiver will reset to default value. Please carefully to using this function.
- 3) In step 1 and step 2, press [Exit] key or select "no" option, can draw back from this item and without saving.

11.9.2 Delete Channel by SAT:

In Delete Channel by SAT Menu like below:



When you press [OK] key in the "Delete channel by SAT" item, it will show all satellites which already scan channels, you can press [ok] or [green] key and [up / down] key to select satellite, then press [yellow] key while the delete function, it will pop a warning dialogue to inquiry you "Do you want to delete channels by satellite". If you select "Yes" item, the all channel will be deleted by select satellite.

11.9.3 Delete All Channel:

In Delete All Channel Menu like below:



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 “Yes”, the entire channel will be deleted.

11.9.4 Save default value

In Save Default Value Menu like below:



When you press [OK] key in the “Save default value” item, there will show a message to inquiry you “Do you want to set current database as default data”, If you select “Yes” option, it will to set current data as default data

Note:

If you save default value, but want to return to the default state, you must re-upgrade.

11.10 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, Build Date, STB SN, STB ID, Chip ID.
2. Press [Menu] key to draw back to “system” menu.

12.MEDIA

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

Note:

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



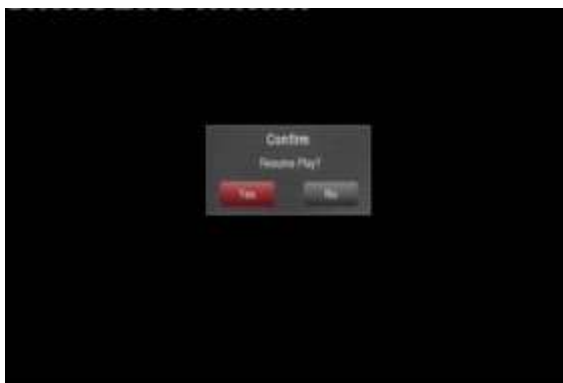
If you have network storage, you can press [DEV] key to login the network storage and visit the media files into the SAMBA function in all media submenu.

12.1 Record

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



1. In this menu you can press [Up/Down] and [OK] to choose a record file to play back or press number key to choose the record file directly. And you can press [INFO] key to check the current partition details.
2. During playback the record file, you can press [||] key to pause the video, Press [■] key to stop playback to return "Record list" menu.
3. You can press [◀◀] or [▶▶] key to Fast Backward or Fast Forward, and press [▶▶▶] key to go to the next file or press [◀◀◀] key to return to the previous file.
4. If the record file hasn't finished playing when you quit, the next time when you play this file again, it will prompt a message like below:



5. If you choose "yes" option, it will start from the last played position to continue playing. And otherwise will start from the beginning.
6. When you playback the record file, you can press [repeat] key to setting repeat mode. You can also press [left /right] or [Go to] key skip to different position, in "Go To Special Time" menu you can press [up] key and input the special time to start playback.
7. You can press [bookmark] key to labeled book marks, support up to 6 times.



12.2 Movie

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



1. You can see the video files in this menu, supports most movies formats (for example: .TS stream, .m2ts, .AVI, .Divx, etc), when you move the highlight to a file, you can preview the video at the top right corner. You can press [VOL + / VOL-] key to adjust the volume while you preview the record file on top of the right corner .and you can press [Mute] to enable or disable the audio.
2. Supports "record" menu 2~7 steps.
3. When you playing videos, you can see the detailed information of the video file from the below of the info bar.
4. If the media files have multi-subtitles, you can press [SUBTITLE] key to select the different subtitle to view when playing the movies.



- If the media files have multi-Audios, you can press [red] key to change the audios during playing.



12.3 ISO

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



Enter to this menu like a DVD function.

12.4 Music

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



- The right sides display the file information and the player current repeat mode. In this menu you can select the Music file to play by press [OK] key or [Enter] key.
- If the lyric also in the same folder, it will be displayed on the bottom right side when playing music.
- You can press [A↔B] key to select a repeat playback range, and press [repeat] key to setting repeat mode, and press [Go to] key to setting shuffle play mode.
- You can press [up / down] key or number key and [OK] key to select music to play, you can press [||] key to pause and press [■] key to stop playing.
- You can press [◀◀] or [▶▶] key to Fast Backward or Fast Forward, and press [▶] key to go to the next file or press [◀] key to return to the previous file.

- Supports most music formats(for example:.MP3, .ogg, .flac, etc)

12.5 Image

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



- Press [OK] key on the selected files to play the files.



- You can preview the picture at the image menu, press [Up/Down/Left/Right] key and [OK] key to view the picture in full screen. Supports most

photos formats (for example: .jpeg, .bmp, .png, etc).

- When you view the pictures, you can press [red] key to change the display time and repeat mode, or press [repeat] key to setting repeat mode by playing pictures:



- If you are playing music during view the picture, you can press [green] key to show the music list and change the music to play.



- You can press the [OK] key to rotate the picture



- You can press [||] key to pause the pictures and press [>>] key or [right] key to go to the next pictures or press [<<] or [left] key key to return to the previous picture.

12.6 PVR setting

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



In this menu you can select PVR settings item to set.

1. PVR File Format

You can press [ok] and [up /down] key on the “TS or PS” selected recording file type.

2. Timeshift

Auto: Time shift function start automatically after switch channels.

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

Off: Disable the Time shift function.

3. Timeshift length

You can select time shift length (Auto / 30min / 1hr / 2hr) by pressing [OK] and [up / down] key.

4. Timeshift to Record:

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

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

5. PVR 1

You can press [OK] and [up / down] key to select the first channel recording path.

6. PVR2

You can press [OK] and [up / down] key to select the second channel recording path.

7. Press [Menu] key to draw back to “media” menu.

12.7 Disk Manage

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



1. In this menu you can edit files or folders, format HDD, and preview all files in this menu, when you select a folder in the top right corner of the preview window will show the folder icon, select the file type when you display the appropriate icon, doesn't recognize the file as a text display.

✧ You can press info key to view the HDD information

✧ If you had more partition or connect with multi-disks, you can press number key to select the partition or disk directly.

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



3. Press [green] key to select files or folder, and press [yellow] key copy them to another disk or specified location, and press [blue] key move them to another disk or specified location.
4. When you press [green] key to see a screen like below:



You can press [left/ right] key to select FAT32 or NTFS format, move the highlight bar to “OK” option to format and select “Cancel” to exit.

When you select any disk, you can edit the file or folder to the disk. You will see a screen like below:



- ✧ Press info key to view the HDD information;
- ✧ Press number key to select file directly;
- ✧ Press [red] key to move or copy files or folders;
- ✧ Press [green] key to rename files or folders;
- ✧ Press [yellow] key to delete files or folders one by one;
- ✧ Press [blue] key to delete all the files under the current folder, if it is in the root directory of the disk, will delete all the files or folders.

12.8 EBook

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



1. Press the number key to select an eBook directly.
2. Press [OK] key to open the book;
3. Press the [up / down] key to page in reading;
4. Press the number key to jump to a specific page in reading.

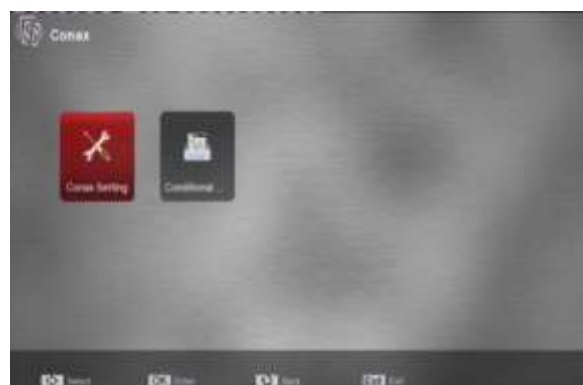


13.Plug-in

You can download some plug in from internet, and install to the receiver to support more functions.

14.Conax

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



We provide one CA slots for users 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 card inserted into card reader module. It allows inserted according to help messages visible on the bottom of the screen.

14.1 Conax Setting

In this menu you can set conax function to Enable or disable, conax and plug-in functions can't be used simultaneously, so when you use conax function, the plug-in function will be disabled automatically



14.2 Conditional Access

Note: All information showed in this menu and submenu is coming from inserted card. In case anything is wrong, there could be a problem with the card. If conax function disabled and enters this menu it will be display "conax is disabled".



15.GAME

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



1. In this menu, you can play Native32 or SEGA games, and downloaded games from GameStore, you can also management download list and setting the gamepad buttons.
2. Press the [INFO] key to view the help.



15.1 Native 32

When you enter to "Native32" menu, you will see a screen like below:



1. In this menu will show all N32 games which you download from the gamestore, you can choose one game to play, and this game will be add into the Favorite list automatically.
2. If you don't like a game, you can press [Red] button to delete.

- Press [Green] button will show the Favorite list.

15.2 SEGA

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



- In this menu will show all SEGA games which you download from the gamestore, you can choose one game to play, and this game will be add into the Favorite list automatically.
- If you don't like a game, you can press [Red] to delete.
- Press [Green] button will show the Favorite list.
- If you connected the gamepad, you can press [Yellow] button to set the gamepad keys.



- Press [Right] button of the RCU to into the setting menu, then press gamepad key which you want to setting.



- Then press [OK] button of the RCU will pop up the Controller Edit menu, in this menu you can edit this gamepad key as the function what you want for RCU(RCU Button) and gamepad(Control Button), after you edit press [OK] button to confirm.



15.3 Game store

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



- In this menu you can download the games from game store
- Choose one game type and enter, you will see the game list, and you can select one game to download.





3. You can download more games at the same time, and press [Green] button to manage the download list, Delete, Pause or Restart.



16. Application

This menu offers multifarious applications, when you enter to this menu, you will see a screen like below:



16.1 RSS

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



1. In this menu you can select the content which you liked to read it.



2. Select left toolbar menu to change different mode news.
3. Press [red] key to add RSS URL;
4. Press [green] key to edit RSS URL;
5. Press [yellow] key to delete RSS URL.
6. If you get the "RSS List [sunbird].txt" file, you can add more channels and press [blue] key to update the channels from USB.

Note:

You must put the "RSS List [sunbird].txt" file on the /ROOT DIRECTORY of the USB storage.

16.2 YouTube

When you enter to this menu, you will see a screen like

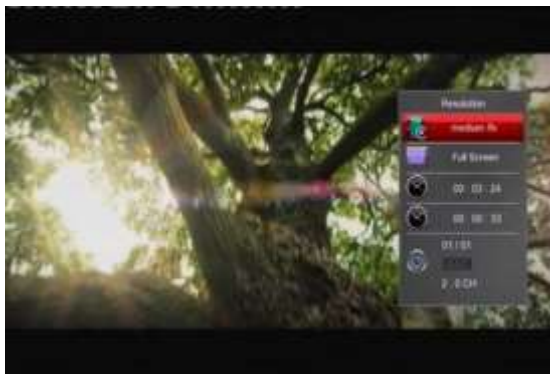
below:



1. Press [up/down] and [OK] key to select videos to play;
2. Press [info] key to view videos information;
3. Press [FAV] key to add favorites list;
4. Press numeric key to quick select page;



5. When you playing videos, you can press the [info] key to display some function menus.



6. Move the highlight bar on time options, you can directly input the time jump to the position what you want.
7. If the video have multi-audio ,you can move highlight bar on last options to change the audio track;
8. You can move highlight bar to second options to switching the screen aspect ratio mode.

16.3 DLNA

With this function you can Enjoy your music, photos and videos, anywhere anytime:



16.3.1 DMP

- 1) This is Digital Media Player, first need installed the "TVersity" software on your PC server, we recommend that you install version with (TVersitySetup_1_9_3.exe); or need installed the "BubbleUPnP" software on your Android equipment (Mobile or PAD).
- 2) Then run the "TVersity" on the PC, or run the app "BubbleUPnP" on your android equipment.
- 3) Press [OK] button to enter the DMP, it will search the server automatically, then you can play the media files from the server.



16.3.2 DMR

- 1) This is Digital Media Renderer, first need installed the "BubbleUPnP" software on your Android equipment (Mobile or PAD), then run the app "BubbleUpnp", in "DEVICES" menu select "sunplus renderer", select the media file in "LIBRARY" menu, select the file that is sent to the "receiver" side play;
- 2) When you enter the DMR submenu, it will automatically search the server, if the server start play a media file, it will show the video, audio or picture.



16.4 Net Photo

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



1. In this menu you can select the "yupoo / Picasa / Flickr" option to browse the Web Albums;
2. Press [red] key to view the yupoo
3. Press [green] key to view the picasa
4. Press [yellow] key to view the flickr
5. Press [blue] key to add friend list;
6. Press numeric key to quick select page
7. When you browse the picture will see a screen like below and you can do the following operations:



8. Press [red] key to download the photos;
9. press [green] key to setting slide time;
10. Press [yellow] key to set the effect on/off;
11. Press [info] key to view photo information;
12. Press the [OK] key to rotate the picture.

16.5 Google Map

When you enter to "Google Map" menu, you will see a screen like below



1. Select left toolbar menu to change different cities and map mode, move the highlight to the "Begin" option and press [OK] button start to view the map.
2. Find box at the bottom left enter city name find cities;



3. Press [red] key to move the cursor;
4. Press [green] key to zoom in map;
5. Press [yellow] key to zoom out map;

- Press [blue] key to save default city.



16.6 Weather

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



- In this menu you can view the weather for the next five days.
- Select left toolbar menu to change different cities
- Press [red] key to save default city
- Find box at the bottom left enter city name find cities.
- Press [green] key to switch weather select mode



- You can press [OK] and [up /down] key to select you added cities in 'User ID item.



- Press [yellow] key to delete city ;
- If you get the “Weather Forecast List.txt” file, you can add more cities and press [blue] key to update the cities from USB.

Note:

You must put the “Weather Forecast List.txt” file on the /ROOT DIRECTORY of the USB storage.

-

16.7 Net Radio

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



- In this menu you can select your favorite radio to listening, press [■] key to stop it, and press [▶] key to play again.
- Select left toolbar menu to change different mode radios.
- Press [red] key to add radio URL;
- Press [green] key to edit radio URL;
- Press [yellow] key to delete radio URL.
- If you get the “Netradio List.txt” file, you can add more channels and press [blue] key to update the channels from USB.

Note:

You must put the “Netradio List.txt” file on the /ROOT DIRECTORY of the USB storage.

16.8 Web TV

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



1. In this menu you can select your favorite channel to view, press [OK] key play in full screen, you can press [up / down] key to change channels, and press [left / right] key or [volume + / -] key to adjust volume level.
2. Press [red] key to add channel URL;
3. Press [green] key to edit channel URL;
4. Press [yellow] key to delete channel URL.
5. If you get the “WebTV List.txt” file, you can add more channels and press [blue] key to update the channels from USB.

Note:

You must put the “WebTV List.txt” file on the /ROOT DIRECTORY of the USB storage.

16.9 Samba

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



If you have network storage, you can press this menu to login the network storage and visit the media files into



The SAMBA function like Movie, ISO, Music Image and EBook, select any menu to enter, it will be displayed the login screen, if your carrier provides the account and password, you can enjoy more multimedia files.

17. Troubleshooting

If you suspect there is a fault with your receiver, please check the following troubleshooting 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

18. Specifications

SYSTEM RESOURCES	
Main Processor	667MHZ based CPU
Flash Memory	Serial Flash 16MB x 1
DDR SDRAM	DDRIII 1333 16bit 256MBx1
Tuner/Front-end(Optional)	
Tuner Type	DVB-S / DVB-S2
Input Connector	F-type, Connector, Female
Signal Level	-65 to -25 dBm
LNB Power & Polarization	Vertical: +13V
	Horizontal: +18V
	Current: Max. 400mA
	Overload Protection
22KHz Tone	Frequency: 22±1KHz
DiSEqC Control	Amplitude: 0.6±0.2V
	Version 1.0, 1.1 1.2, USALS Available
Demodulation	QPSK, 8PSK
Input Symbol Rate	1 – 45 MS/s, Convolution Code Rate
Forward Error Correction	DVB-S: 1/2, 2/3, 3/4, 5/6,7/8 and Auto
	DVB-S2: 1/2, 3/5 , 2/3, 3/4 ,4/5 , 5/6, 8/9 , 9/10 and Auto
POWER SUPPLY	
Input Voltage	Free Voltage (100~240V AC, 50/60Hz)
Power Consumption	20W MAX
MPEG TS A/V Decoding	
Transport Stream	MPEG-2, H.264
Input Rate	Max.120Mbit/s
Aspect Ratio	4:3LB, 4:3PS, 16:9, FULL SCREEN
Video Decoding	MPEG-2 MP@ML,AVC/H.264 HP@L4.1,MPEG4
	ASP,SMPTE421M/VC-1 WMV-9 AP@L3,REALVIDEO,FLV,DIVX

Video Resolution	480P/I, 576P/I, 720p, 1080i, 1080p
Audio Decoding	WMA-9, WMA-9 pro, MPEG-1 layer I/II, Mpeg2 layer II, MPEG-2 AAC, MPEG-4 AAC, AAC+, REALAUDIO
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
RCA A/V	Video CVBS output
	Audio L/R output
RF Modulator	UHF CH 21-69 Adjustable
CA	Compatible with ISO/IEC 7816 standard
S/PDIF	Optical, Digital Audio
RS-232C	Transfer rate 115.2Kbps
	9 pin D-sub Type
LAN	10M/100M
USB	two USB 2.0 slot Compatible
HDMI	VER1.3
	Type A
PHYSICAL SPECIFICATION	
Size[W*H*D]	260mmX63mmX185mm
Net Weight	<2.0KG
Operation Temperature	0°C ~ +45°C
Storage Temperature	-10°C ~ +70°C
Storage Humidity	5%~95% RH (Non-Condensing)

Specifications are subject to change without further notice.

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

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

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

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