

# User Manual



## DIGITAL SATELLITE RECEIVER



USB



ETHERNET



WEATHER



## CONTENTS

|                                             |    |
|---------------------------------------------|----|
| * 1. SAFETY PRECAUTION                      | 2  |
| * 2. FEATURES                               | 2  |
| * 3. ACCESSORIES                            | 3  |
| * 4. CONTROL PANEL                          | 3  |
| * 5. Remote Control                         | 4  |
| * 6. CONNECTION                             | 5  |
| * 7. FAST INSTALLATION                      | 6  |
| * 8. MENU OPERATION                         | 7  |
| Main Menu                                   | 7  |
| Shortcut Keys                               | 7  |
| I Edit Channel                              | 8  |
| I.1 Channel Edit                            | 8  |
| I.2 Favourites Edit                         | 9  |
| I.3 Delete All                              | 9  |
| II Installation                             | 10 |
| II.1 Installation Antenna & satellite Quick | 10 |
| II.2 Satellite List                         | 10 |
| II.3 Antenna Setup                          | 11 |
| II.4 Single Satellite Search                | 11 |
| II.5 Multi Satellite Search                 | 11 |
| II.6 TP List (Transponder List)             | 11 |
| II.7 LNB Power                              | 11 |
| III System Setup                            | 12 |
| III.1 Language                              | 12 |
| III.2 TV System                             | 12 |
| III.3 Display Setting                       | 12 |
| III.4 Local Time Setting                    | 13 |
| III.5 Time Setting                          | 13 |
| III.6 Parental Lock                         | 13 |
| III.7 OSD Setting                           | 13 |
| IV. Tools                                   | 14 |
| IV.1 Information                            | 14 |
| IV.2 Factory Setting                        | 14 |
| IV.3 CA Slot Setting                        | 14 |
| IV.4 Upgrade By USB                         | 14 |
| IV.5 Dump By USB                            | 14 |
| IV.6 Remove USB Device Safely               | 14 |
| V. Multimedia                               | 15 |
| V.1 PVR Storage Information                 | 15 |
| V.2 PVR Setting                             | 15 |
| V.3 Media Player                            | 15 |
| VI. Network Local                           | 15 |
| VI.1 Network Local Setting                  | 16 |
| VI.2 WiFi Manager                           | 16 |
| VI.3 Upgrade By Network                     | 16 |
| VI.4 CCcam Client Setup                     | 16 |
| VI.5 AvatarCam Setup                        | 16 |
| VI.6 MGcamd Plug Setup                      | 16 |
| VI.7 RS232 Function Setup                   | 16 |
| VI.8 Weather                                | 16 |
| * 9. MENU STRUCTURE                         | 17 |
| * 10. TROUBLE SHOOTING                      | 18 |
| * 11. TECHNICAL SPECIFICATIONS              | 19 |

## SAFETY PRECAUTION

### WARNING:

- To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.
- The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquid, such as vases, shall be placed on the apparatus.
- To reduce the chance of fire, electric shock, or annoying interference, use only the recommended accessories.
- The mains plug is used as the disconnect device, the disconnect device shall remain readily operable.
- Keep not less than 5cm distances around the apparatus for sufficient ventilation.
- Keep the ventilation should not be impended by covering the openings with items such as newspapers, table-cloths, curtains, etc.
- The label was silk-printed on the exterior of the bottom of the apparatus.
- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
- Correct Disposal of this product.



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

## FEATURES

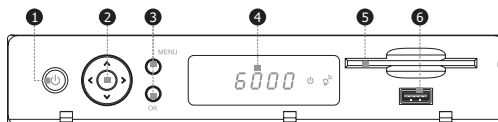
- DVB-S2, HD H.264, 1080p
- C/Ku band and horizontal/vertical polarized program
- Intelligent OSD menu.
- Electronic Program Guide (EPG)
- Multi-channel edit functions (Favorite/ Move/ Lock/ Delete /Sort etc)
- Satellite signals quality / strength display helps position antenna
- Supports satellite auto-location (Go-to-X) function.
- Supports 22 KHz DisEqC1.0 and DisEqC1.2 control, one- receiver-multi-satellite reception obtainable.
- All satellite and transponder information editable.
- QPSK demodulation mode, SCPC and MCPC compatible
- Capacity of 10,000 programs.
- Auto scan, Manual Scan and NIT Scan.
- Supports OSD & VBI teletext output
- SCART interface
- Supports HDMI output
- RS232 jack
- Electricity interruption memory, automatic resumption.
- Timer setting for broadcasts
- LNB short-circuit power protection
- OTA and SCART upgrade

## ACCESSORIES

Please check all package contents before using your product.

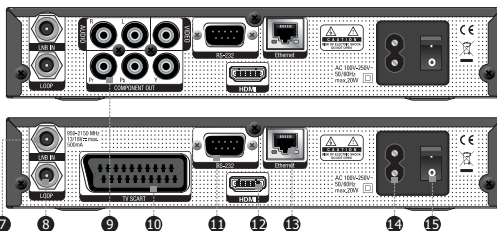
- |                   |                                                  |
|-------------------|--------------------------------------------------|
| 1. Receiver Unit  | 4. HDMI Cable                                    |
| 2. Remote Control | 5. Power Cable                                   |
| 3. User Manual    | [Europe, UK, Australia, America plugs Optional ] |

## CONTROL PANEL



### Frontpanel

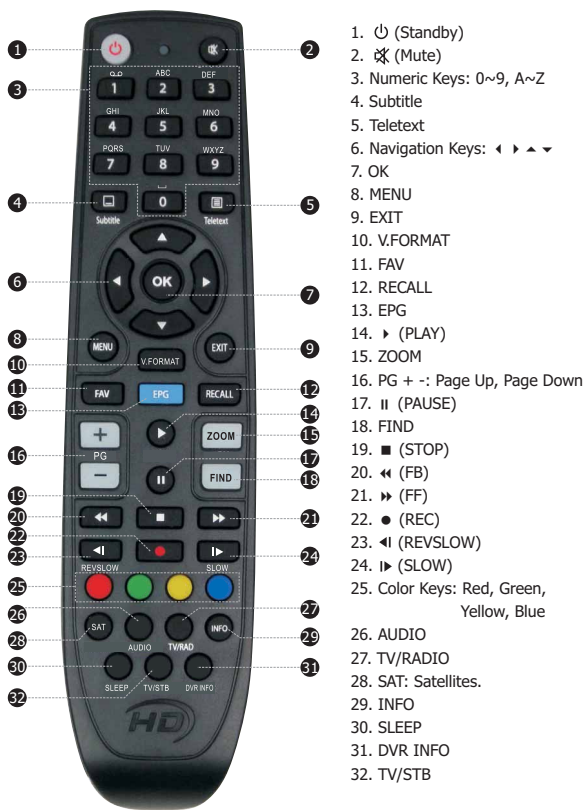
- Standby button: Turn on & off the receiver in standby mode.
- Navigation button: CH- CH+ VOL- VOL+ key buttons.
- MENU button; OK button: Confirm the selection.
- 4 Digital 7-segment LED Display.
- Smart card Reader slot.
- USB Host: Please check all package contents before using your product.



### Rearpanel

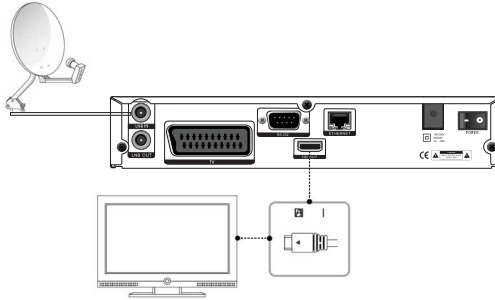
- LNB IN: Connect to the satellite dish for signal.
- LOOP: Connect to another receiver.
- RCA output(Video, Audio L&R); Component output (YPbPr) [AV Model only].
- TV SCART output. [Scart Model]
- RS232 port: Date transfer with PC or other receiver.
- HD OUT output.
- Ethernet port: Connect to the PC or another receiver. [X3 Model only].
- Power Inlet: Connect to the detachable power cord.
- Power Switch: On/Off switch for AC power.

## REMOTE CONTROLLER

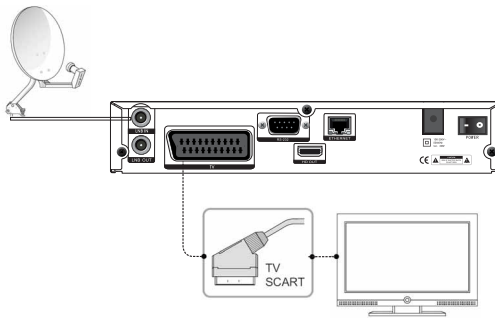


## CONNECTION

### 1. Connecting to TV set and Satellite Dish via HDMI cable



### 2. Connecting to TV set and Satellite Dish via Scart Cable



## FAST INSTALLATION

---

Connect the receiver and other equipments according to "**CONNECTION**".

1. Connect this unit to a mains outlet, then press **STANDBY** button to turn on the unit.
2. Press **MENU** button to access the menu system, then press  $\blacktriangle/\blacktriangledown$  button to choose **Tools** submenu, then press  $\blacktriangleright$  button to access it with the default password "0000" input. Use **CH-/CH+** button to choose **Factory Setting**, press  $\blacktriangleright$  again to access before pushing  $\blacktriangle/\blacktriangledown$  button to choose **YES** and press **OK** to confirm the restoration of Factory Setting.

Once the operation is finished, press **EXIT** to quit.

**Note:** It is a must to perform this operation if this receiver is used for the first time or the software has just been upgraded.

3. Press  $\blacktriangle/\blacktriangledown$  button to move to Installation submenu, then press  $\blacktriangleright$  button to access it with the password "0000" input.
  - a. Press  $\blacktriangleright$  button to highlight Satellite List where a satellite should be selected, and press **EXIT** to quit once the selection is complete. (Please conduct this operation following the guidance displayed on the screen);
  - b. Press  $\blacktriangleright$  button to access LNB Freq where the Local Oscillation Frequency of the tuner and some other related items can be set after you choose Antenna Setup. Press **EXIT** to quit as soon as the setup is finished.
  - c. Press  $\blacktriangleright$  button to highlight Single/ Multi Satellite to set the search information involved, then press  $\blacktriangleright$  button again to start Auto Search.

Regarding actual operation please refer to the following instructions for more information.

## MENU OPERATION

### Main Menu

Press **MENU** key, it will display 6 subsidiary icons.

- Edit Channel
- Installation
- System Setup
- Tools
- Multimedia
- Network Local



Press **▲/▼** button to move the cursor up and down to select one item, and press **▶** or **OK** button to enter the submenu; **◀** /**EXIT**/**MENU** button are used to get back to the upper-level menu, and **EXIT**/**MENU** to quit menu operation.

- Note:**
1. **▲, ▼, ▶, ◀, PG+, PG-, OK, EXIT** and **MENU** buttons function the same in menus at all levels; **PG+ / PG-** button can be used not only to turn over pages, but also to select a satellite.
  2. Refer to the screen hints during operation of some menu items.
  3. The color buttons represent different function in different menu windows.

### Shortcut Keys

1. EPG: View the EPG information of the current service (if available).
2. TEXT: View the text information of the current service (if available).
3. Subtitle: Enable or disable subtitle display on the screen (if available).
4. INFO: Check the relevant information of the current service
5. TV/RADIO: Press this button to turn on or off the channels.
6. RED, GREEN, YELLOW, BLUE: These buttons are used for various function operations following the guide.
7. RECALL: Shift to the previous service.
8. AUDIO: Shift the audio channels as well as audio languages.
9. STANDBY: Press this button switch on /off STANDBY status.
10. MUTE: Enable or disable mute functionality.
11. FAV: Bring up Favorite Groups window for detailed setup.
12. **◀/▶**(FF/ FB): Fast playback of recorded programs.
13. **▶ / II** (PLAY/ PAUSE): Play or make a pause to the playback of a recorded program.
14. **■** (STOP): Stop playing current program.
15. **●** (REC): Start recording current program.

## MENU OPERATION

### I Edit Channel

Press **OK** to enter the submenu which includes 3 items.

- Channel Edit
- Favourites Edit
- Delete All



#### I.1 Channel Edit

Press **OK** to enter this item, and use  $\blacktriangle/\blacktriangledown$  to select the channel to Edit. In the right side of the menu, it have 4 icons. Press  $\blacktriangleright$  button, you can select Move/Lock/Delete/Edit/Skip icon.



- Move: Select channels you want to move. Press  $\blacktriangleright$  button to select icon. Press **OK** button, then move the channel by using  $\blacktriangle/\blacktriangledown$  button.
- Lock: Select channels you want to lock. Press  $\blacktriangleright$  button to select icon. Press **OK** button, then the channel will be locked. Press **MENU/EXIT** button and Press **Yes** button to save.
- Delete: Select channels you want to delete. Press  $\blacktriangleright$  button to select icon. Press **OK** button, then the channel will be deleted. Press **MENU/EXIT** button and Press **Yes** button to confirm.
- Rename: Select one channel you want to rename. Press  $\blacktriangleright$  button to select icon. Press **OK** button, then it will display a window to modify the name of the channel.



Red button (CAPS): Use this button to shift the alphabet form (capitalized/ small).

Green button(DEL): Delete present letter.

Yellow(OK) button: Confirm current editing status.

Blue(CANCEL): Cancel editing operation and exit.

- Skip: Select channels you want to skip. Press  $\blacktriangleright$  button to select icon. Press **OK** button, the channels will be skipped .

RED(Group): Select the channels by groups.  
(ALL/Favorite/Satellite/Provide/A~Z).

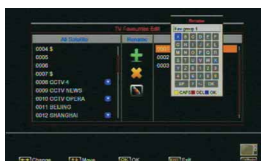
GREEN(Option): Select the channels by Option. (Select All/Unselect All/  
Select Others/Select TP/Select Satellite/Lock/Skip)

## MENU OPERATION

### I.2 Favourites Edit

Press **OK** button to enter this submenu.

- Add: Select channels you want to add to Favorite Group, then press **▶** button to select **+** icon. Press **MENU/EXIT** to save the operation.
- Delete: Select channels you want to delete from Favorite Group, then press **◀** button to select **✕** icon. Press **MENU/EXIT** to save the operation.
- Rename: Select channels then press **◀** or **▶** button to select **✎** icon, then it will display a window to modify the name of Favorite Group.



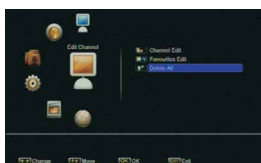
RED(Group): Select the channels by groups.

(ALL/Favorite/Satellite/Provide/A~Z).

GREEN(Option): Select the channels by Option. (Select All/Unselect All/ Select Others/Select TP/Select Satellite/Lock/Skip)

### I.3 Delete All

Press **OK** button, it will display a window message "Warning! Do you really want to delete all channels?". Press Yes button to confirm the operation.



## MENU OPERATION

### II Installation

There are 7 options under this directory.

- Installation Antenna & satellite Quick
- Satellite List
- Antenna Setup
- Single Satellite Search
- Multi Satellite Search
- TP List
- LNB Power



#### II.1 Installation Antenna & satellite Quick

Press **OK** button to enter the submenu item, there are four item to setup.

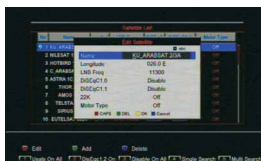
- Local Longitude: Input the number of longitude.
- Local Latitude: Input the number of latitude.
- LNB Power: Two selection On/Off.
- Limit Setup: Press **OK** button, it will display three selections ( Disable Limit/East Limit/West Limit).



#### II.2 Satellite List

Press **OK** button to enter the submenu item, and press **▲/▼** button to select a satellite, or press **EXIT/ MENU** to quit current operation.

- Edit: Press **Red** button to edit the satellite. Use **▲/▼** button to select the items, there are Name/Longitude/LNB Freq/DiSEqC1.0/DiSEqC1.1./22K/Motor Type to edit.  
Red button(CAPS): Use this button to shift the alphabet form ;  
Green button(DEL): Delete present letter;  
Yellow(OK) button: Confirm current editing status;  
Blue(CANCEL): Cancel editing operation and exit.
- Add: Press **Green** button to add a satellite. Regarding the operation, refer to the Edit section above.
- Delete: Use **▲/▼** to choose the satellites you want to delete, and press blue button to delete a Satellite by selecting Yes or No in the screen hints.



## MENU OPERATION

### II.3 Antenna Setup

Press **OK** button to enter the submenu item, and press **▲/▼** button to select an option.

- Satellite: Select a satellite.
- LNB Freq: Press **OK** to select a proper LNB Frequency.
- Transponder: Press **OK** to select a transponder.
- DiSEqC1.0 : Press **OK** to select a port(Disable/ Port 1, Port 2...Port 4).
- DiSEqC1.0 : Press **OK** to select a port..
- 22K: Use **◀/▶** button to activate 22K Hz switch, select On/Off.
- Motor Type: Use **◀/▶** button to select a item(Off/DiSEqC1.2/USALS).



### II.4 Single Satellite Search

- Satellite: Press **OK** to choose a satellite for search.
- FTA Only: Select Yes /No.
- Scan Channel: TV Channel, Radio, and TV + Radio.
- Network Search: Yes/No.  
(This operation can be performed only in Preset Scan mode.)
- Scan Mode: Blind Scan/Preset Scan/Accurate Scan.
- Search: Start searching.



### II.5 Multi Satellite Search

- Satellite: Press **OK** to choose a satellite for search.
- FTA Only: Select Yes /No.
- Scan Channel: TV Channel, Radio, and TV + Radio.
- Network Search: Yes/No. (This operation can be performed only in Preset Scan mode.)
- Scan Mode: Blind Scan/Preset Scan/Accurate Scan.
- Search: Start searching.

### II.6 TP List (Transponder List)

Press **OK** button to enter the submenu item. Then press **▲/▼** button to choose an option, and press **OK** to start search. As for the operation of Edit/ Add/ Delete/ Search function, please refer to item II.2 Satellite List for more information.

### II.7 LNB Power

Press **OK** button to enter the submenu item. Use **◀/▶** button to select a item(On/Off).

## MENU OPERATION

### III System Setup

7 submenu items are included under this directory.

- Language
- TV System
- Display Setting
- Local Time Setting
- Timer Setting
- Parental Lock
- OSD Setting

Press ▲/▼ button to move the cursor up and down to make a selection and press **OK** to enter the function item. In the case that there is some navigation guides ◀/▶, you can also access certain item by pushing ◀/▶ button to move to the option item, or press **EXIT/ MENU** to get back to upper menu or quit current operation in the end.



#### III.1 Language

- Language: English, French, German, Italian, Portuguese, Russian, Spanish, Turkish, Polish, Czech, Finnish, Greek etc.
- First Audio: English, French, German, Italian, Portuguese, Russian, Spanish, Turkish, Polish, Czech, Finnish, Greek etc.
- Second Audio: English, French, German, Italian, Portuguese, Russian, Spanish, Turkish, Polish, Czech, Finnish, Greek etc.
- Teletext: English, French, German, Italian, Portuguese, Russian, Spanish, Turkish, Polish, Czech, Finnish, Greek etc.

#### III.2 TV System

- Video Resolution: 1080p-50, 1080p-60 etc.
- Aspect Mode: Auto/4:3LB (Letterbox)/4:3 PS (Pan & Scan) /16:9 available.
- Video OUT: YUV/RGB.
- Digital Audio Out: BS OUT/LPCM OUT.



#### III.3 Display Setting

- Brightness: Select the number.
  - Contrast: Select the number.
  - Saturation: Select the number.
  - Hue: Select the number.
  - Sharpness: Select the number.
- Use this menu to set your comfortable display conditions.



## MENU OPERATION

### III.4 Local Time Setting

- Region: Press **OK** to select the country.
- GMT Usage: Off/By Region/ User Define.
- GMT Offset: Select the local GMT offset.
- Summer Time: Activate or deactivate Summer Time.
- Date: Set the present date.
- Time: Set the present time.



### III.5 Time Setting

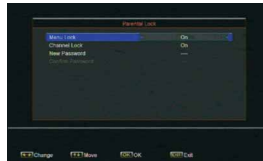
Totally there are 30 items regarding this setting.

### III.6 Parental Lock

Press **OK** button when entering the submenu, it need to input password: a 4-digit number.

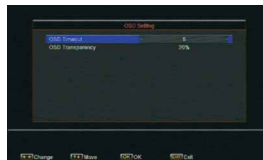
(The initial password is "0000")

- Menu Lock: On/ Off.
- Channel Lock: On/ Off.
- New Password: Input the new password.
- Confirm Password: Confirm the new password.



### III.7 OSD Setting

- OSD Timeout: 1~10 seconds.
- OSD Transparency: 10%, 20%, 30%, 40% available.



## MENU OPERATION

### IV. Tools

There are 6 submenus items under this directory.

- Information
- Factory Setting
- CA Slot Setting
- Upgrade By USB
- Dump By USB
- Remove USB device safely



#### IV.1 Information

Display the relevant information of the system software.

#### IV.2 Factory Setting

Press **►** to access this Factory Setting. According to the screen hints, you may choose either Yes (Restore) or No (Cancel) before pressing **OK** to confirm. Please perform this step when you use this receiver for the first time or the receiver has just been upgraded.

#### IV.3 CA Slot Setting

Insert a smart card into the smart card reader of the receiver.

Press OK button to enter this submenu.

- CA Slot Clock Setting:  
6.12Mhz/3.57Mhz.
- Emm Allow: Enable/Disable.
- Smartcard information: Display the smartcard information.
- Edit Smartcard Config: Edit the Config.



#### IV.4 Upgrade by USB

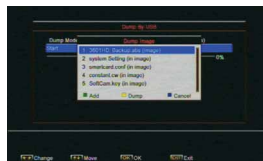
Choose this submenu if you want to upgrade your receiver by USB device. Refer to actual operation for more details.

#### IV.5 Dump By USB

Choose this submenu if you want to save your receiver files to USB device.

- Dump Mode: Select Misc Files/ or Image File(\*.abs).

Then press Start to select the files you want to dump.



#### IV.6 Remove USB Device Safely

To guarantee the normal function of both the receiver and the USB device, it is recommended that you perform this operation every time you want to remove your USB device from the interconnection with the receiver.

## MENU OPERATION

### V. Multimedia

Select and open this menu which contains 3 submenus.

- PVR Storage Information
- PVR Setting
- Media Player



#### V.1 PVR Storage Information

Select this submenu to check the relevant information of your storage device.

#### V.2 PVR Setting

Select this submenu to set the working conditions for your DVR device.

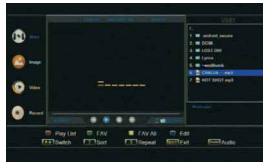
- Timeshift: On/Off.
- Jump: 30sec, 1min, 5min, 10min, 30min.
- PS Record: On/Off.



#### V.3 Media Player

Select this submenu to watch and play the Music, Image, Video, and Record files.

- Music: Select music files to play.
- Image: Select picture files to play.
- Video: Select video files to play.
- Record: Select record files to play.



### VI. Network Local

Select and open this menu which contains 8 submenus.

- Network Local Setting
- WiFi Manager
- Upgrade By Network
- CcCam Client Setup
- AvatarCam Setup
- MGcamd Plug Setup
- RS232 Function Setup
- Weather



## MENU OPERATION

### VI.1 Network Local Setting

Select this submenu to setup network.

- Network Device Choose: Select Ethernet Device/WiFi Device.
- DHCP(Dynamic Host Configuration Protocol): On/Off.
- IP Address, Subnet Mask, Gateway, DNS Preferred, DNS Alternate:  
If DHCP is Off, you can setup fix ip address.

After setup, Press **Apply** button to active the network.



### VI.2 WiFi Manager

Before using WiFi manager, you need put WIFI DEVICE active in Network Device Choose.

Select the submenu, and enable the Wifi device On. After a few seconds, it will show wireless network, select one network you want to connect.

After you setup correct parameters, wireless network will be connected.



### VI.3 Upgrade By Network

Select this submenu, you can upgrade the receiver via network sever.

- Protocol: FTP/HTTP modes.
- URL Type: select Number/String type.
- URL: Input the URL address or name.
- User: Input user name.
- Password: Input password.



## MENU OPERATION

### VI.4 CCcam Client Setup

Select this submenu to setup CCcam Client.

- Update Files By USB
- Manage Config Files



### VI.5 AvatarCam Setup

Select this submenu to setup AvatarCam.

- Active Code: Input number. After you input correct number, Press Register Active Code.



### VI.6 MGcamd Plug Setup

Select this submenu to setup MGcamd Plug Setup.

- Update Files By USB
- Manage Config Files



### VI.7 RS232 Function Setup

Select this submenu to setup the RS232 parameters.



### VI.8 Weather

Select this submenu to check the weather information of the city. Confirm the network is active.

- RED(Add): Press **RED** button, input the city name, then it will display the weather information within 4 days. You can add 4 city into the receiver.
- Green(Delete): Press **Green** button to delete the city from the receiver.
- Yellow(Update): Press **Yellow** button, the receiver will update the weather information.
- Blue(Change): Press Blue button, you can change the city name.

MENU STRUCTURE

| Main Menu            |                                        |                                |               |
|----------------------|----------------------------------------|--------------------------------|---------------|
| 1st level            | 2nd level                              | 3rd level                      | 4th level     |
| Edit Channel         | Channel Edit                           | TV Channel Edit                |               |
|                      | Favourites Edit                        | TV Favourites Edit             |               |
|                      | Delete All                             |                                |               |
| Installation         | Installation Antenna & satellite Quick | Local Longitude                |               |
|                      |                                        | Local Latitude                 |               |
|                      |                                        | LNB Power                      |               |
|                      |                                        | Limit Setup                    | Disable Limit |
|                      |                                        |                                | East Limit    |
|                      |                                        |                                | West Limit    |
|                      | Satellite List                         | Satellite List Window          |               |
|                      | Antenna Setup                          | Antenna Setup                  |               |
|                      | Single Satellite Search                | Single Satellite Search        |               |
|                      | Multi Satellite Search                 | Multi Satellite Search         |               |
| System Setup         | TP List                                | TP List Window                 |               |
|                      | LNB Power                              | LNB Power Window               |               |
|                      | Language                               | Language Window                |               |
|                      | TV System                              | TV System Window               |               |
|                      | Display Setting                        | Display Setting Window         |               |
|                      | Local Time Setting                     | Local Time Setting             |               |
|                      | Timer Setting                          | Timer Setting Window           |               |
|                      | Parental Lock                          | Parental Lock Window           |               |
| Tools                | OSD Setting                            | OSD Setting Window             |               |
|                      | Information                            | Information Window             |               |
|                      | Factory Setting                        |                                |               |
|                      | CA Slot Setting                        | CA Slot Setting Window         |               |
|                      | Upgrade By USB                         | Upgrade By USB Window          |               |
|                      | Dump By USB                            | Dump By USB Window             |               |
| Multimedia           | Remove USB device safely               |                                |               |
|                      | PVR Storage Information                | PVR Storage Information Window |               |
|                      | PVR Setting                            | PVR Setting Window             |               |
|                      | Media Player                           | Media Player Window            |               |
| Network Local        | Network Local Setting                  | Network Local Setting          |               |
|                      | WiFi Manager                           | WiFi Manager Setup             |               |
|                      | Upgrade By Network                     | Upgrade By Network             |               |
|                      | CCcam Client Setup                     | Update Files By USB            |               |
|                      |                                        | Manage Config Files            |               |
|                      | AvatarCAM Setup                        | AvatarCAM Setup                |               |
|                      | MGcamd Plug Setup                      | Update Files By USB            |               |
|                      |                                        | Manage Config Files            |               |
| RS232 Function Setup | RS232 Function Setup                   |                                |               |
| Weather              | Weather Window                         |                                |               |

# TROUBLE SHOOTING

In case of trouble, please refer following table to solve problems.

| SYMPTOMS                      | CHECK POINTS                                                                                                                                            |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power is not "ON"             | Check the power cord.                                                                                                                                   |
| No Sound                      | Check the audio jack.<br>Check whether the Mute function is on or not.                                                                                  |
| No Satellite TV Channel       | Check the direction of antenna.<br>Check the connection of antenna cable.<br>Check whether the channel search process has been done correctly.          |
| Poor Video & Audio quality    | Check whether the signal level is proper or not.<br>Check whether there is damage on the antenna or not.<br>Adjust the height and direction of antenna. |
| Remote Control is not working | Check whether the batteries are properly fitted into battery rack of your remote control or not.<br>Make sure the remote sensor is not broken.          |

TECHNICAL SPECIFICATIONS

| TECHNICAL SPECIFICATIONS |                             |                                                  |
|--------------------------|-----------------------------|--------------------------------------------------|
| Front Panel              | Display                     | 4-digital 7 segment LED display with Green color |
|                          | Smart Card Slot             | 1                                                |
|                          | USB 2.0                     | 1                                                |
|                          | Key                         | Standby, Menu, Exit, CH-, CH+, VOL-, VOL+        |
| Rear Panel               | Power Switch                | 1                                                |
|                          | Sat-IF Input/Output         | 2 x F-types socket                               |
|                          | Connection TV               | 1 x Scart socket                                 |
|                          | Video Output(Analogue)      | 3 x Cinch socket(YPbPr)/1 x Cinch socket         |
|                          | Video/Audio Output(Digital) | 1 x HDMI                                         |
|                          | Audio Output(Analogue)      | 2 x Cinch socket                                 |
|                          | Ethernet                    | 1                                                |
|                          | RS-232                      | 1                                                |
| Power                    | Mains Voltage               | 100-240V/50-60Hz                                 |
|                          | Power Consumption(Max.)     | 20W                                              |
| RF                       | RF Range                    | 90~2150MHz                                       |
|                          | Modulation, FEC             | DVB-S/DVB-S2 standard                            |
| Video                    | Video Resolution            | 1080p,1080i, 720p,576p,                          |
|                          | Video decoding              | MPEG-2, MPEG-4 compatible                        |
|                          | Input data rate             | 2~45 MSymb/s                                     |
|                          | S/N                         | >53dB                                            |
| Decoding                 | Decoding                    | AC 3, MPEG-4 (AAC-HE), MPEG-1, Layer 1, 2 and 3  |
|                          | Sampling Rate               | 32/4.1/48kHz                                     |
|                          | S/N                         | >65dB                                            |
| LNB                      | LNB Supply(Horiz./Vert.)    | 90~2150MHz                                       |
|                          | Control Signal              | 22kHz ; ToneBurst ; DiSEqCTM1.0/1.1/1.2          |
| General                  | Dimension(W x H x D)        | 220 x 40 x 160 mm                                |
|                          | Weight                      | App. 0.7Kg                                       |



