



# User's Manual

High Quality Digital Terrestrial Receiver  
CoreTrust CAS Embedded

CVOX 5H4

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# 1. Safety Warning

This product has been manufactured to comply with international safety standards. Please read the following safety precautions carefully.

## **MAIN SUPPLY**

100~240V AC 50/60Hz

Operate this product only from the type of power supply indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your local power company.

Disconnect the product from the main before you start any maintenance or installation procedures.

## **OVERLOADING**

Do not overload a wall outlet, extension core or adapter as this may result in electric fire or shock.

## **LIQUID**

The product should not be exposed to liquid of any kind. In addition, no objects filled with liquid should be placed on the apparatus.

## **CLEANING**

Disconnect the product from the wall outlet before cleaning.

Use a cloth lightly dampen with water (No solvents) to clean the exterior.

## **VENTILATION**

This slots on top of the product must be left uncovered to allow proper airflow into the unit.

Do not stand the product on soft furnishings or carpets.

Do not stack electronic equipments on top of the product.

## **ATTACHMENTS**

Do not use any unsupported attachments as these may be hazardous or cause damage to the product.

## **LIGHTNING, STORM or NOT IN USE**

Unplug the product from the wall outlet and disconnect the antenna during a thunder-storm or when left unattended and unused for long periods of time. This will prevent damage to the unit due to lightning and power-surges.

## **EXTRANEIOUS OBJECTS**

Do not insert anything through the openings in the unit, where they can touch dangerous voltage points or damage parts.

## **REPLACEMENT OF PARTS**

When replacement of parts is required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitution may result in additional damage to the unit.

## 2. Package Accessories

Please check the following accessories before using your product.



User's Manual



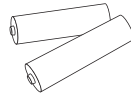
Remote Controller



HDMI Cable



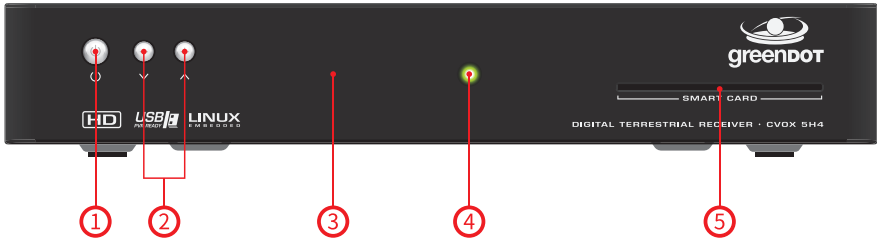
AC Adapter



Batteries

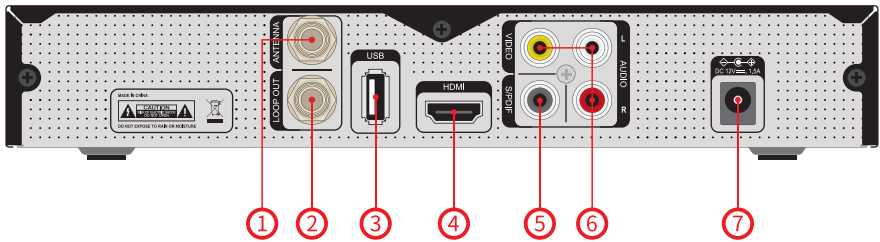
## 3. Hardware Description

### 3.1. Front Panel



- ① **POWER**  
Turn on or off (Standby Mode) the receiver.
- ② **DOWN/UP**  
Move the channels down or up.
- ③ **IR SENSOR**  
Receive the IR command from the RCU.
- ④ **LED**  
This LED shows the current status (red in standby mode and green in active mode).
- ⑤ **SMARTCARD**  
A slot for Smartcard.  
Please make sure that the gold chip on the Smartcard should face downwards when you insert it into the Smartcard slot.

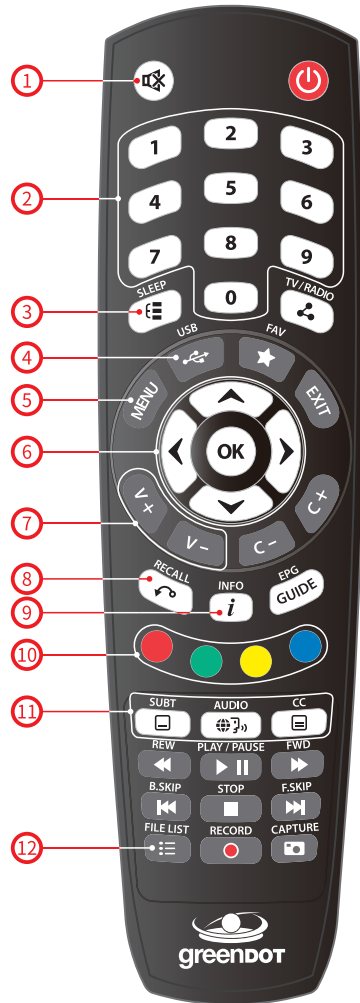
## 3.2. Rear Panel



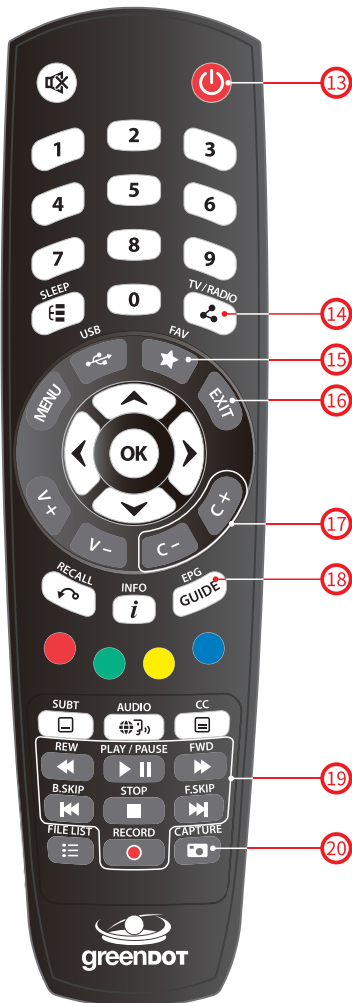
- ① **ANTENNA**  
Connect the coaxial cable.
- ② **LOOP OUT**  
Connect to antenna port of other receiver via RF cable.
- ③ **USB**  
A slot for USB memory (HDD).
- ④ **HDMI**  
Connect to TV via HDMI cable.
- ⑤ **S/PDIF (Coaxial)**  
Connect to a digital amplifier to output digital audio signals.
- ⑥ **RCA**  
Connect to TV via RCA cable to output video and audio signals.
- ⑦ **POWER SUPPLY**  
Connect to AC adapter.

### 3.3. Remote Controller

- ① **MUTE**  
Mute or unmute the audio temporarily.
- ② **NUMERIC (0~9)**  
Used to enter a channel number or to specify values.
- ③ **SLEEP**  
Sleep timer setting.
- ④ **USB**  
Used to enter a USB Shortcut menu.
- ⑤ **MENU**  
Display the main menu.
- ⑥ **ARROW**  
Change channel on live and move the cursor on menu.
- ⑦ **V+/V-**  
Adjust the audio volume.
- ⑧ **RECALL**  
Show the previous channel.
- ⑨ **INFO**  
Display the channel and program information.
- ⑩ **COLOR** (Red, Green, Yellow, Blue)  
Additional button.
- ⑪ **SUBT**  
Display the subtitle service.  
**AUDIO**  
Used to select the audio language.  
**CC**  
Display the Closed Caption service.
- ⑫ **FILELIST**  
Show the recorded file list.



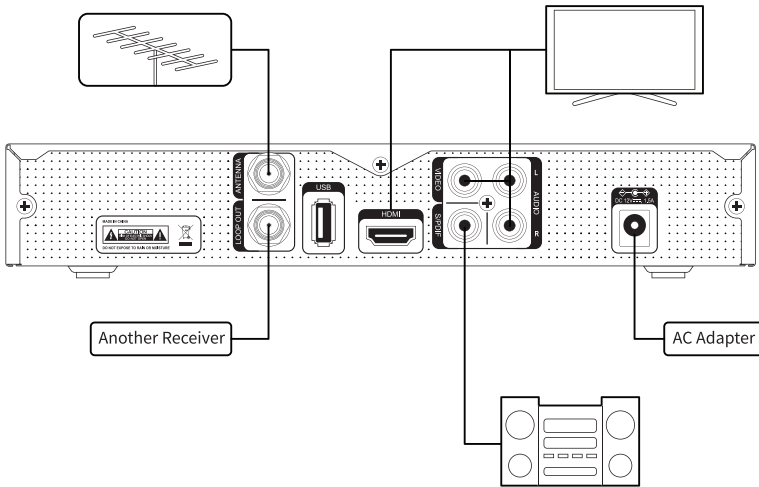




- ⑬ **POWER**  
Switch between Standby Mode and Operation Mode.
- ⑭ **TV/RADIO**  
Switch between TV and radio channel.
- ⑮ **FAV**  
Show the favorite channel group list.
- ⑯ **EXIT**  
Cancel or exit from menu.
- ⑰ **C+/C-**  
Change channel on live and move the cursor on menu.
- ⑱ **EPG**  
Show the Program Guide.
- ⑲ **REW**  
Used to fast rewind on playback.
- PLAY/PAUSE**  
Pause on playback and Timeshift record on live channel.
- FWD**  
Used to fast forward on playback.
- B.SKIP**  
Jump to back on playback.
- STOP**  
Stop the recording or playback.
- F.SKIP**  
Jump to forward on playback.
- RECORD**  
Start the recording.
- ⑳ **CAPTURE**  
Capture the screen on live channel.

## 4. Setup

There are several ways to setup the receiver. Setup the receiver suitably to your television and other appliances. If you have any problem with your setup or need help, please contact the service provider.



### 4.1. Connect to the Broadcasting Cable

Whatever sort of connection you have between the receiver and the television, you need to connect the receiver to the broadcasting cable so that it can receive digital television services.

Connect the broadcasting cable to the **ANTENNA** connector. If you have another receiver, link it from the **LOOP OUT** connector.

## 4.2. Connect to Your Television

Between the following connectors of receiver, we recommend you to use the first connector to get best picture quality. If your television does not have the matching connector then use the next connector in the following order for better picture quality.

### 1) HDMI connector

If you have a high definition television set, you should use a HDMI cable for best results. Plug one end of the cable into the **HDMI** connector on the receiver, and the other end into the matching connector on your television. In this case, you do not have to make audio connections because **HDMI** connector can output audio.

### 2) VIDEO connector

Plug one end of the cable into the **VIDEO (Yellow)** connector on the receiver, and the other end into the matching connector on your television.

In this case, you have to make audio connections.

Plug one end of the cable into the **AUDIO (White, Red)** connector on the receiver, and the other end into the matching connector on your television or audio systems.

To enjoy the digital audio, your television or audio system must be able to decode digital audio, and you will need to obtain S/PDIF cable. Plug one end of the cable into the **S/PDIF** connector on the receiver, and other end into the matching connector on your audio system.

- You can not view high definition video with the VIDEO connector.

## 4.3. Powering On

When powering on your receiver for the first time after connecting the cable and television, channel will be automatically searched.

- The default PIN CODE is 0000.
- If you have forgotten your PIN CODE, please contact the service provider.

- 1) All the channel, now on service will be found.
- 2) Press **OK** button to save the searched channels.
- 3) You can watch the first channel after searching channel automatically.

## 5. Menu Tree



Channel

Edit Channel

Edit Favorite



Installation

Auto Search

Manual Search

Antenna Power 5V

Factory Default

Software Update

CAS



Settings

Time

Scheduler

Display

Menu Lock

PVR

Information



Utility

Media Player

USB Removal

## 6. Basic Operation

There are several ways to set up the receiver. Setup the receiver suitably to your television and other appliances. If you have any problem with your setup or need help, please contact the service provider.

### 6.1. Volume Control

Volume control allows you to adjust the audio volume.



- 1) Press **V+ / V-** button to adjust the audio volume.
- 2) Press **MUTE** button to stop the audio temporarily. Press it again to restore the sound to previous level.
  - You may need to adjust the volume on your television.
  - The mute function remains set while you switch channels.

### 6.2. Change Channel

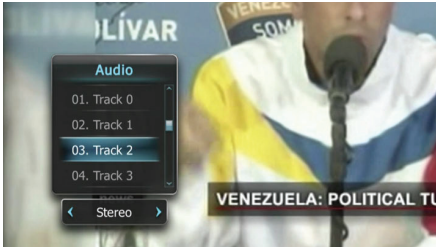
Change channel allows you to change the current channel using one of the following methods.



- 1) Press **C+ / C-** button.
- 2) Enter the channel number using the **NUMERIC (0-9)** buttons to move to the channel directly.
- 3) Press **TV/RADIO** button to switch between TV and radio channels.
  - You can change channels using the **Channel List** or **EPG** menu.
  - To return to the previous channel, press **RECALL** button.

## 6.3. Audio



You can select the language that you prefer to listen in, if the current program is available in multiple audio languages.



- 1) Press **AUDIO** button.
- 2) Select the audio language you prefer using   button.
- 3) Select audio direction (left, right, stereo) using the   button.

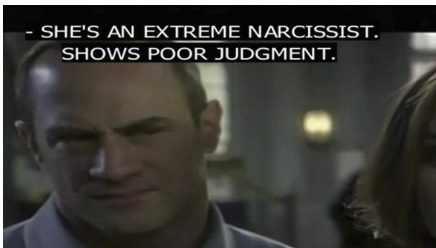
## 6.4. Subtitle

You can select the language for the subtitle if the program provides subtitle services.

- 1) Press **SUBT** button.
- 2) Select the required subtitle language using   button and press **OK** button for display in the screen.
- 3) If you want to disable the subtitle, select **Disable** in subtitle popup menu.

## 6.5. CC (Closed Caption)

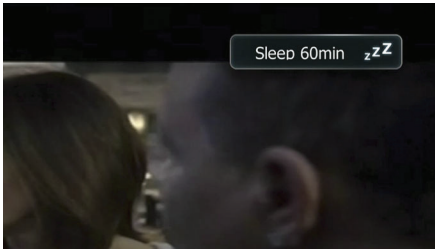
You can enable the CC to view the Closed Caption service if the program provides Closed Caption services.



- 1) Press **CC** button.
- 2) Press **CC** button again if turn off the Closed Caption view.
  - You can turn on and off the CC in **Display** menu.

## 6.6. Sleep

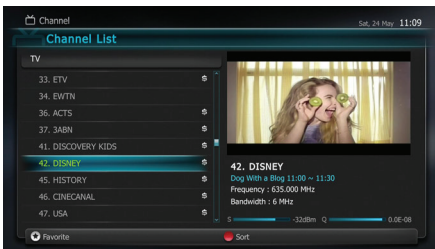
You can set the sleep timer.





- 1) Press **SLEEP** button.
- 2) Select the sleep time by continuously pressing **SLEEP** button.
- 3) The receiver enters to Standby Mode after sleep time.

## 6.7. Channel List

You can select the channel easily in Channel List. This provides the information such as the channel name, number and whether the program is locked and recording.



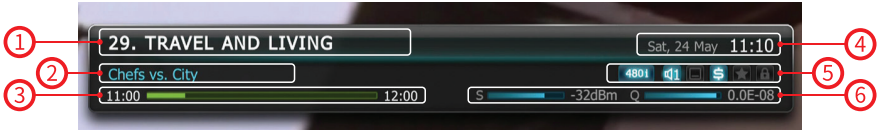
- 1) Press **OK** button during watching the channel.
- 2) Select the channel you want to watch by using   button.
- 3) Press **OK** button. The new channel will be displayed.
- 4) If you press **OK** button again, the **Channel List** will disappear.

- **RED** button : Popup menu for sorting the channel list.
- **FAV** button : Popup menu for choosing the favorite list.

## 6.8. Information







You can see the Channel Bar which has specific information of the channel.

1) Press **INFO** button. You can see all the followings in the Channel Bar.



- ① Channel number and name.
- ② Program summary of the current channel.
- ③ Program broadcasting time and progress bar.
- ④ Current time and date.

⑤ Icons

-  Size (Resolution) of this channel.
-  Number of audio on this channel.
-  Subtitle information of this channel.
-  Pay TV information of this channel.
-  Whether this channel is in favorite list.
-  Lock information of this channel.

⑥ Signal level and quality.



- The Channel Bar will be disappear after few seconds.
- You can see the Channel Bar when you change the channel.



## 6.9. Detailed Information

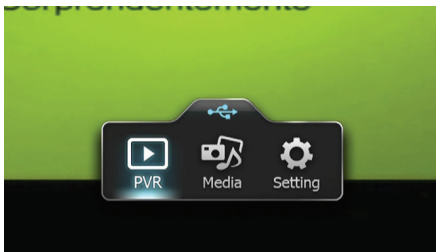
You can see the detailed information about the current channel.



- 1) Press **INFO** button when the Channel Bar is displayed.
- 2) If the detailed program information is over one page, use the   button to move the next or previous page.
- 3) You can see the next program information when you press **YELLOW** (Next) button.
- 4) You can see more specific information such as provider name and frequency when you press **BLUE** (Info) button.
  - **GREEN** button : Current detailed program information.
  - **YELLOW** button : Next detailed program information.
  - If you press **INFO** button again, the Channel Bar and detailed information will disappear.

## 6.10. USB

This is the menu for easy use of USB related functions.



- 1) Press **USB** button while watching a program. You can see **USB Shortcut** menu.
  - **USB Shortcut** menu can be used only USB Memory/Disk inserted.
  - Please see the detailed information on **9.PVR (27p)** part.

## 6.11. Capture

You can capture and save the current screen image to your USB Memory/Disk on live channel.

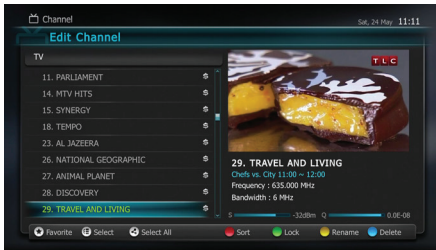
- 1) Press **CAPTURE** button while watching a program.
  - Capture can be used only USB Memory/Disk inserted.
  - The captured image will be saved in **cv\_image** folder on your USB Memory/Disk.

# 7. Menu



## 7.1. Edit Channel

Menu / Channel / Edit Channel



You can delete, rename and lock the channel in this menu.



### 7.1.1. Delete

- 1) Select the channel to delete by pressing  (Select) or  (Select All) button.
- 2) Press **BLUE** (Delete) button.
- 3) Enter the PIN CODE. (Request PIN CODE to service provider.)
- 4) Press **OK** button if you are sure to delete.
  - It is possible to delete one or several channels at the same time.

### 7.1.2. Lock

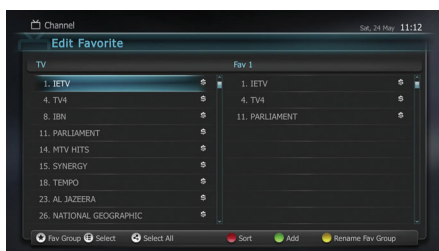
- 1) Select the channel to lock/unlock by pressing  (Select) or  (Select All) button.
- 2) Press **GREEN** (Lock) button.
- 3) Enter the PIN CODE. (Request PIN CODE to service provider.)
- 4) Press **OK** button if you are sure to lock/unlock.
  - Lock channel will be unlock and unlock channel will be lock.
  - You can view the lock icon right side of the channel name after lock.
  - It is possible to lock one or several channels at the same time.

### 7.1.3. Rename



- 1) Place the focus in the channel which you want to rename.
- 2) Press **YELLOW** (Rename) button.
- 3) You can view the popup **Edit Channel Name**.
- 4) If you press **OK** button, you can view the popup **Keyboard**.
- 5) Edit the channel name and then press **RED** (Apply) button.
- 6) Press **RED** (Save) button to confirm it.

## 7.2. Edit Favorite



Menu / Channel / Edit Favorite



### 7.2.1. Add

- 1) Place the focus in left side.
- 2) Select the channel to add by pressing  (Select) or  (Select All) button.
- 3) Press **GREEN** (Add) button.
  - You can view the channel name in favorite group list after add.
  - It is possible to add one or several channels at the same time.

### 7.2.2. Delete

- 1) Place the focus in right side.
- 2) Select the channel to delete by pressing  (Select) or  (Select All) button.
- 3) Press **GREEN** (Delete) button.
  - You can view the channel name will be disappeared in favorite group list after delete.
  - It is possible to delete one or several channels at the same time.

### 7.2.3. Favorite Group

- 1) Select the favorite group in the list by pressing **FAV** (Fav Group) button.
- 2) You can view the name of favorite group in favorite title bar.
  - The receiver supports the 6 favorite group.

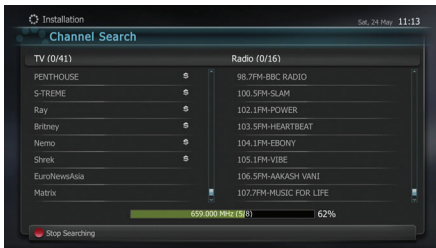
## 7.2.4. Favorite Group Rename

- 1) Select the favorite group to rename by pressing **YELLOW** (Rename Fav Group) button.
- 2) You can view the popup **Edit Favorite Name**.
- 3) If you press **OK** button, you can view the popup **Keyboard**.
- 4) Edit the favorite group name and then press **RED** (Apply) button.
- 5) Press **RED** (Save) button to confirm it.

## 7.3. Auto Search

Menu / Installation / Auto Search

You can search all the channel automatically. After finish, it will show the searched channel. Press **OK** button to save and then the first channel will be displayed.

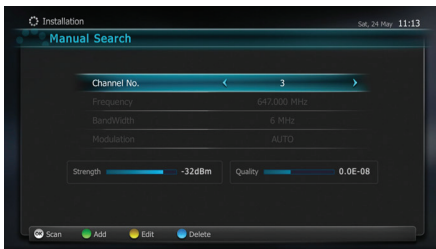


- When you press **RED** (Stop Searching) button during channel search, the search will be discontinued and the accumulated search results will show.

## 7.4. Manual Search

Menu / Installation / Manual Search

You can search the channel separately in Manual Search.



- 1) Select the **Channel Number** you want to search.
- 2) Make sure the **Frequency** and **Bandwidth** and check the **Strength** and **Quality** of the signal.
- 3) If you want to add/change/delete the parameter, press **GREEN** (Add), **YELLOW** (Edit), **BLUE** (Delete) button. It will show the popup menu. So you can adjust the parameter.

- 4) Press **OK** button to start the search.
- 5) Press **OK** button to save and then first channel will be displayed.
  - If **Strength** is low and **Quality** is 1.0E-00, check the antenna connection and parameter.

## 7.5. Antenna Power 5V

Menu / Installation / Antenna Power 5V

You can select antenna power On/Off.

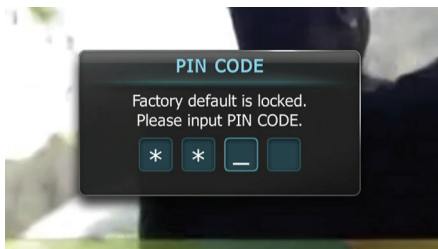


- The default setting value of Antenna Power 5V is Off.

## 7.6. Factory Default

Menu / Installation / Factory Default

You can reset all data of the receiver. The channel data and timer events will be deleted also.



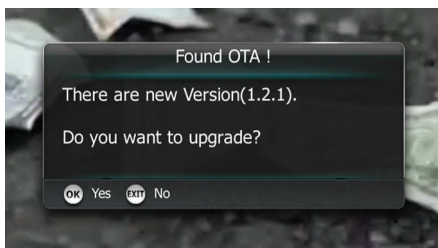
- 1) You are asked the PIN CODE for confirm after select **Factory Default**.
  - 2) Enter the PIN CODE.
  - 3) Press **OK** button.
- The default PIN CODE is 0000.

## 7.7. Software Update

Menu / Installation / Software Update

You can update the software.

Please refer the **10.Software Update** (29p) part for more information.

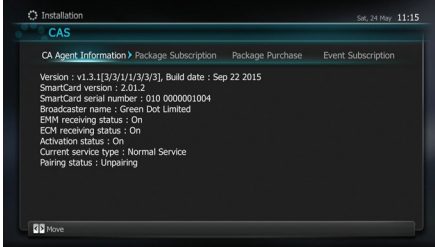


- 1) If the receiver needs to upgrade the software, You will view the “There are new version. Do you want to upgrade?”
  - 2) Press **OK** button to upgrade.
  - 3) The receiver will reset and start the upgrade automatically.
- Don’t power off and put off the cable during upgrade.

## 7.8. CAS

Menu / Installation / CAS

You can view the CoreCrypt™ CAS information such as **CA Agent Information**, **Package Subscription**, **Package Purchase** and **Event Subscription**.

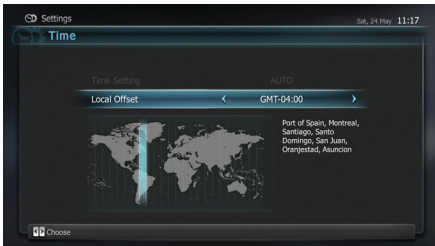


- If CoreCrypt™ Smartcard is not inserted in Smartcard slot, you can view only “Please insert Smartcard”.

## 7.9. Time

Menu / Settings / Time

You can adjust your local time.

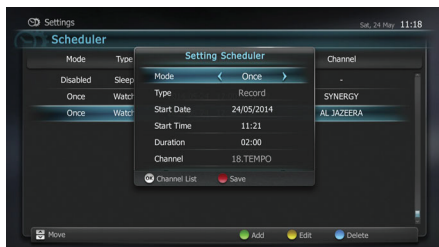


- The default setting value is GMT-04:00.
- The **EPG** and the **Reservation** function will not be work properly if you change the **Local Offset**.

## 7.10. Scheduler

Menu / Settings / Scheduler

You can set the sleep time and the scheduler for channel watch and recording.



### 7.10.1. Sleep Timer

- 1) Focus the cursor on the first line of the scheduler.
- 2) Press **YELLOW** (Edit) button.
- 3) Select the mode and time.
- 4) Press **RED** (Save) to save the timer.

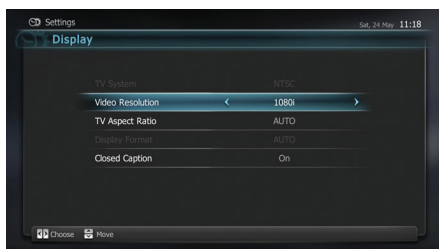
### 7.10.2. Scheduler Timer

- 1) Press **GREEN** (Add) to create or **YELLOW** (Edit) to edit.
- 2) Set the each items.
- 3) The current channel is default. If you want to change the channel, press **OK** and select the channel.
- 4) Press **RED** (Save) to save the timer.
  - You can delete the scheduler timer with pressing **BLUE** (Delete) button.

## 7.11. Display

Menu / Settings / Display

You can set the video related functions.

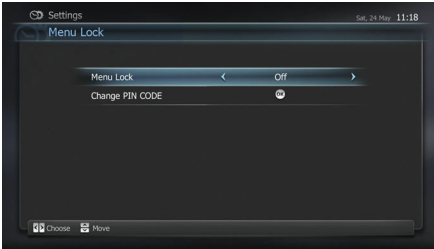


- 1) TV System : This receiver support NTSC Only.
- 2) Video Resolution : You can select 480i, 480p, 720p, 1080i, 1080p.
- 3) TV Aspect Ratio : Auto, 4:3, 16:9
- 4) Display Format : Full, Letterbox, Pan&Scan
- 5) Closed Caption : On, Off

## 7.12. Menu Lock

Menu / Settings / Menu Lock

You can lock the menu here and can change the PIN CODE.

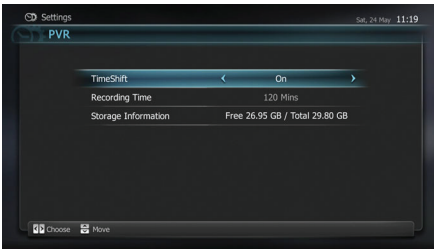


- The default PIN CODE is 0000.
- You are asked the PIN CODE when you press **MENU** button after Menu Lock enable.

## 7.13. PVR

Menu / Settings / PVR

You can select the Timeshift On/Off and Recording Time.

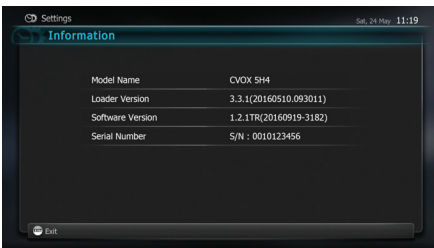


- Please note the **9.PVR (27p)** part for more information.
- The recording will be stopped when the time reaches to the recording time.

## 7.14. Information

Menu / Settings / Information

You can view the Model Name and Loader/Software/Serial Number of receiver.







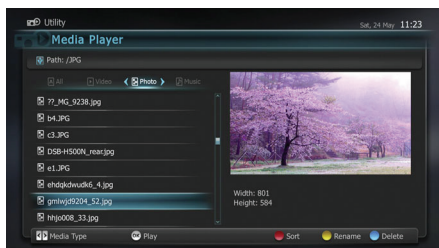
## 7.15. Media Player

Menu / Utility / Media Player

You can enjoy the media contents of USB Memory/Disk.

In Media Player, you can use **RED** (Sort), **YELLOW** (Rename), **BLUE** (Delete) functions commonly.

Also you can select the type of media (Video, Photo, Music) by pressing   button.

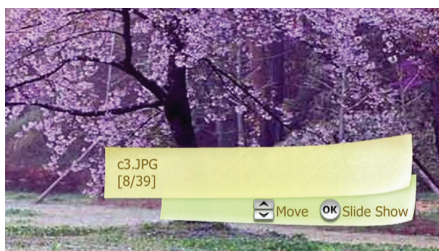




### 7.15.1. Video



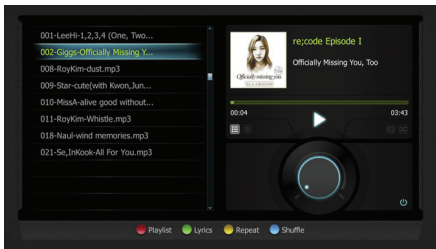
- 1) Select the video file which you want to play.
- 2) Focus the cursor on the name of the select file and press **OK** button.
- 3) The video will be played automatically.
- 4) All functions such as **PAUSE/PLAY**, **REW (2-32x)**, **FW (2-32x)**, **B/F SKIP** can be used. Please refer the **9.PVR (27p)** part for more information.

### 7.15.2. Photo



- 1) Focus the cursor on the name of the image file.
- 2) You will view the image on the right side.
- 3) If you want to see the full screen image, press **OK** button.
- 4) You can see the next/previous image with pressing   button.
- 5) If you want to see the slide show, press **OK** button.

### 7.15.3. Music

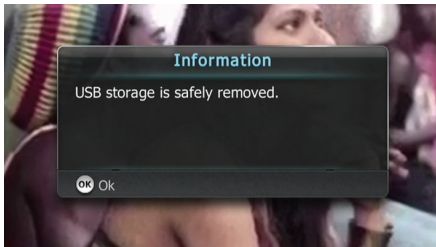


- 1) Select the MP3 file which you want to play.
- 2) Focus the cursor on the name of the selected files and press **OK** button.
- 3) You will see the music player and the first file will be played automatically.
- 4) You can enjoy other functions.
  - **RED** button : Shows playlist
  - **GREEN** button : Shows lyrics
  - **YELLOW** button : Repeat
  - **BLUE** button : Shuffle

### 7.16. USB Removal

**ⓘ** Menu / Utility / USB Removal

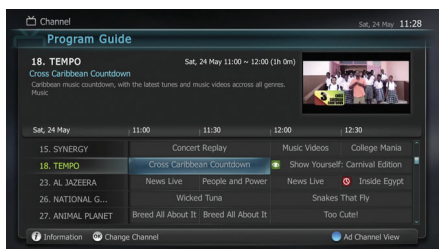
You can safely remove the USB Memory/Disk after USB Removal. It prevents the loss of your data or damage of USB Memory/Disk.



- If you want to use the PVR or Media Player functions after USB Removal, plug again.

## 8. EPG (Electronic Program Guide)

The EPG menu shows the current and scheduled program that are or will be available on each service with a short summary of all channels.



- 1) Press **GUIDE** button to view the EPG.
- 2) You can see the scheduled program, program summary and broadcasting time on each program of all channels.
- 3) Press **◀▶** button to see previous/next program within the channel and press **▲▼** button to see the other channel.
- 4) Press **INFO** button if you want to see more detailed information.

- **OK** button will be used for two ways as follows **8.1, 8.2**.

### 8.1. Change Channel

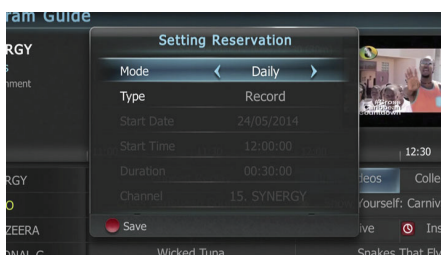
- 1) If cursor is on the current program in the other channel, **OK** button is used to change channel.

### 8.2. Reservation Watch

- 1) If cursor is in the program of the future time, **OK** button is used to reserve the watch simply. So you can view that program at the reserved time automatically.
- 2) If you press **OK** button again, The reservation is canceled.

### 8.3. Reservation

You can create the reservation for record and watch the channel.



- 1) Press **GREEN** (Reservation) on the program of the future time.
- 2) You can set each items.  
Mode : Once / Daily / Weekly  
Type : Watch / Record
- 3) Press **RED** (Save) button. So you can watch/record the program at the reserved time.

## 9. PVR (Personal Video Recording)

This part explains how to record (Timeshift) the channel and play the recorded file. The receiver has the USB port in rear of it. You need to plug the USB Memory/Disk for using the PVR.

- FAT32, NTFS format are supported.
- The USB Memory/Disk should be sufficient space for recording. You can check the free space of USB in **Menu / Settings / PVR**.
- A one hour recording may require 2-3GB of space normally.
- You can't record the radio channel.

### 9.1. Record



- 1) Press **RECORD** button to record the channel you are viewing. Record will start automatically.
- 2) Press **STOP** button if you want to stop the recording. Otherwise recording will stop at the recording end time which you can set it in the **PVR** menu.

- You can view the recording information if you press **INFO** button or when change the channel.

### 9.2. Playback

To view a recorded files, press **FILELIST** button or select the **Menu / Utility / Media Player**.



- 1) Select the movie file which you want to play.
- 2) Focus the cursor on the name of the select file and press **OK** button.
- 3) The recorded file will be played automatically.
- 4) Press **STOP** button if you want to go back to live channel or file list.

- When the recorded file is playing you can operate the function with RCU.

### 9.2.1. Play/Pause

- 1) Press **PAUSE** button to pause the playing.
- 2) If you press the **PAUSE** button again, it will be resumed from that point.



### 9.2.2. Forward/Rewind

- 1) Press **FWD/REW** button to Forward/Rewind.
- 2) The speed will be increased each time you press the button.
- 3) If you press **PLAY** button, the file is played at normal speed.

### 9.2.3. Forward Skip/Backward Skip

- 1) Press **F.SKIP/B.SKIP** button to jump ahead and play from that point.

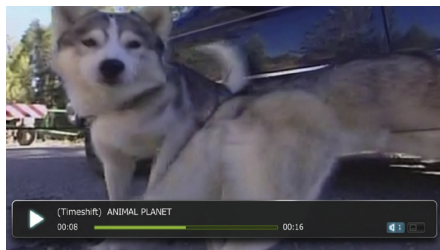
### 9.2.4. Multiple Audio

- 1) Press **AUDIO** button to select the language you prefer in audio.
- 2) Select the audio language you prefer using   button.

## 9.3. Timeshift

Timeshift means that being able to record a TV program and watch it later.

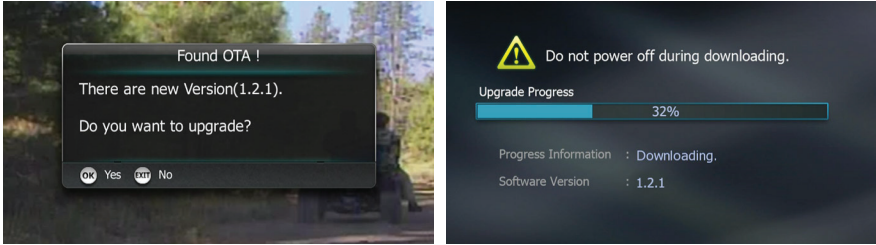
You can pause the current program and restart from that point. And the recorded file will be cleared when exit the Timeshift. You have to enable the Timeshift in **PVR** menu before use.



- 1) Press **RED** or **PAUSE** button during watch the channel.
- 2) Live channel will be paused and will be recorded.
- 3) Press **RED** or **PAUSE** button again to view from that point.
- 4) You can use the **PAUSE / FWD / REW / F.SKIP / B.SKIP** during playback. The usage is same as Playback.

# 10. Software Update

A new software may be released to improve the receiver. It is essential to have the latest version of software. It is recommended that you periodically check for availability of software update.



- 1) You can select the **Menu / Installation / Software Update** for checking new software.
- 2) If software needs to be update, update message will be displayed.
- 3) Press **OK** button to update.
- 4) The receiver will reset and start the update automatically.
  - Other function (Include scheduling operation) will not activate while update.
  - Please be careful to keep the power on and signal line during software update. Otherwise fatal damage may be caused to receiver.



# 11. Troubleshooting

## 11.1. Symptoms

Symptoms	What to do
No display LED on the front panel. No power supply	Check the power code plugged into a power outlet.
No Picture	Check that the receiver is powered on. Check that the AV cable is firmly connected to the TV. Check that the antenna cable is properly connected. Check if the channel is currently on air. (Please ensure the channel is running from your service provider)
Poor picture quality	Check the signal level and adjust your antenna if the level is too low. (It may be effected by weather conditions)
No Sound	Check that your AV cable is connected correctly. Check the Volume level of the TV and Receiver. Check the Mute status of the TV and Receiver.
Remote control does not operate.	Point the remote control directly towards the Receiver. Remove and reinsert the Batteries in the Remote control.
No PIN CODE for Menu Lock is given.	The default PIN CODE is always 0000.
No PIN CODE for Channel Lock is given.	Request PIN CODE to service provider.



## 11.2. Error Messages

Error Messages	Possible causes	What to do
No or Bad Signal	No antenna cable in receiver. Signal is too weak or Wrong setting.	Check that the antenna cable is properly connected.  Check the signal level and adjust your antenna if the level is too low. (It may be effected by weather conditions)
The channel is scrambled or not available.	The channel has a signal, but no audio or video is serviced. Your subscription is invalid.	Confirm if the channel is currently on air  Contact your service provider and check your subscription information
Please insert Smartcard	Smartcard is not plugged in correctly or damaged. Wrong Smartcard is in use.	Check the Smartcard damaged or not, and Insert the Smartcard appropriately.  Check the Smartcard is right from Service provider.
Please insert USB storage.	No USB Memory/Disk inserted or damaged. No supported format of USB Memory/Disk.	Check that the USB Memory/Disk is working properly on your PC or notebook.  Check the format of USB Memory/Disk. (Supported format is FAT32 and NTFS.)

# 12. Specification

## Tuner

Input Connector	IEC 169-24 female
RF Loop-Through Output Connector	IEC 169-24 female
Frequency Range	54MHz ~ 860MHz
Signal Level	-70dBm ~ -10dBm
Input Impedance	75Ω Nominal

## MPEG Transport Stream A/V Decoding

Transport Stream	MPEG-2 ISO/IEC 13818, AVC/H.264
Profile Level	MPEG-2 MP@HL, AVC/H.264 HP@L4.1
Video Aspect Ratio	16:9 Wide Screen, 4:3 Letter Box, Pan & Scan
Video Display Resolution	1080p, 1080i, 720p, 480p, 480i
Audio Decoding	MPEG Layer I&II
Audio Mode	Mono, Left, Right, Stereo

## System Resource Information

Main Processor	Hi3716
Flash Memory	SLC NAND 128Mbytes
DDR SDRAM	256Mbytes

## Conditional Access Interface

Module Type	Smartcard
CAS	CoreCrypt™

## A/V And Data Output

CVBS (Composite Video), Stereo Audio	CVBS Video, Audio Left/Right
HDMI	Digital Video and Audio
S/PDIF	Digital Audio Output (Coaxial)
USB	USB A-Type

## Power Supply

Input Voltage	AC 100~240V - 50/60Hz
Power Consumption	Maximum 18Watts
Protection	Separate Internal Fuse
Type	AC Adaptor, DC 12V/1.5A Output

## Physical Specifications

Dimension (WxDxH)	235x135x38 (mm)
Operation Temperature	5°C ~ 50°C
Storage Temperature	0°C ~ 65°C

