

User Manual

ab **CryptoBox 650HDC**
HD Digital Cable Receiver

 **MediaPlayer**
with MediaShare



- CPU**
DUAL CORE
600MHz
- IPTV**
WATCHING TV
OVER THE
INTERNET
- MEDIA
PLAYER**
AND
**MEDIA
SHARE**
- DDRIII**
NEW GENERATION
HIGH SPEED
MEMORY
- PVR**
AND
TIMESHIFT
- ETHERNET
AND
WIFI**
WEB AND CABLE
USB (W/ Dongle)
- 7SEGMENT
DISPLAY**
INFO ABOUT
RECORDING
TV PROGRAM
- 2xUSB**
FOR
HDCAMERA
AND MORE...
- 1xCX**
1 x SLOT FOR
SMARTCARD
- OPTICAL
S/PDIF**
- RS232**
FOR
ADVANCED USERS
- ECO**
Low Power
Consumption
(1 Stand By)

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0. Safety Precaution

This STB has been designed and manufactured to satisfy the international safety standards. Please read the following safety precautions carefully before operating this receiver.

Main Supply:

Before operating, please check the units operating voltage is 90~250V AC 50/60Hz.

Overload:

Do not overload a wall outlet, extension cord or adapter, neither use damaged power cord or touch it with wet hand as this may result in electric shock.

Liquid:

The receiver shall not be exposed to dripping or splashing water, and that no objects filled with liquids, such as base, shall be placed on the apparatus.

Ventilation:

Keep the slots on top of the receiver uncover to allow sufficient airflow to the unit. Do not put the receiver on soft furnishings or carpets. Do not expose the receiver to direct light or do not place it near a heater or in humid conditions. Do not stack other electronic equipments on top of the receiver.

Cleaning:

Plug out the receiver from the wall outlet before cleaning. Clean the receiver by a soft cloth or mild solution of washing-up liquid (no solvents).

Connection:

Disconnect the receiver from the mains when you connect it to antenna cable. Failure would possibly cause damage to the LNB.

Location:

Put the receiver indoor in order to avoid lightening, raining or sunlight.

Uncover:

Do not remove the cover, to reduce the risk of electric shock. Contact qualified and licensed service personnel to repair the receiver, or contact your dealer.

1. Reference

1.1 General Features

DVB-C Compliant (MPEG-II/ MPEG-IV/ H.264)
Sensitive Tuner with Loop-Through
Blind search supported
PAL/NTSC Conversion
True full Color (32 bits) on screen display (OSD)
26 favorite group and parental lock supported
Multi-language menu supported
Multi-language audio supported
Multi-language DVB Subtitle output
7 days Electronic Program Guide (EPG)
Teletext output through VBI and OSD
USB 2.0 Interface
CI module Supported
Support many network functions

1.2 Accessories

I Users manual

I Remote Control Unit

I Batteries

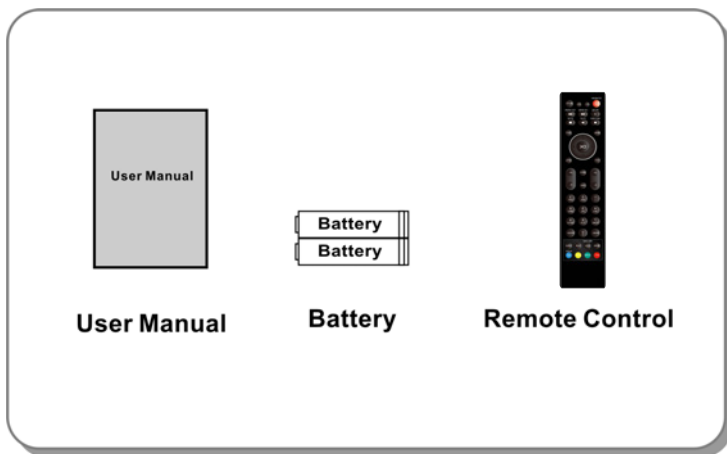


Figure 1.Accessories

2. Product Overview

2.1 Front Panel



Figure 2. Front Panel

1. Power LED

Power indicator.

2. Display

It displays channel information. In standby mode it displays local time.

3. Power button

Switch between operation and standby modes.

4. CH+/CH-

Change channel in viewing mode and move the cursor up/down in menu mode.

2.2 Rear Panel

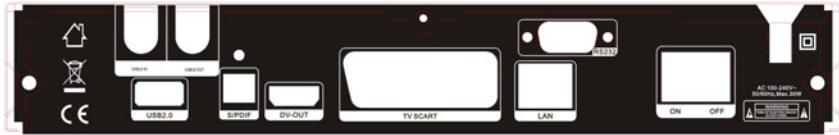


Figure 3. Rear Panel

1. Cable out

Connect another receiver.

2. Cable In

Connect the cable antenna.

3. USB2.0

Connect to the TV using a Scart cable.

4. SPDIF

Digital Audio output (Optical).

5. DV-OUT

Connect to the TV using an HDMI cable.

6. TV SCART

Connect to the TV using a Scart cable.

7. RS232

Connect to the computer using a serial line.

8. LAN

Connect to the internet using an Ethernet cable.

9. ON/OFF

Power on/off.

2.3 Remote Control Unit (RCU)

You can control this receiver by this remote controller with full function.

1. **STANDBY**: Switch between operation and standby modes.
2. **F1**: Accessorial function.
3. **SHIFT**: Enable/Disable timeshift.
4. **MUTE**: Mute audio.
5. **II** : Pause/Time shift.
6. **◀◀**: Fast rewind.
7. **▶▶**:Fast forward.
8. **●**: Record.**SLEEP**: Set sleep time.
9. **▶**: Play.
10. **■** : stop recording and playing.
11. **MENU**: Activate main menu.
12. **EXIT**: Exit current menu step by step..
13. **▲/▼/◀/▶** :Navigates through the Menus
14. **OK**: Confirm
15. **RELOAD**: Move to the previous viewed channel.
16. **EPG (Electronic Program Guide)**: Display the program guide.
17. **V+/V-** : Change volume in viewing mode.
18. **P+/P-**: Change program.
19. **INFO**: Display the program information.
20. **FAV**: Display favorite channel list you set before.
21. **NUMERIC KEY (0~9)**: Enter a TV/radio channel number or menu option number
22. **PAGE-/PAGE+**: Page up/down on menu or channel list.
23. **MEDIA** : Access to the USB menu.
24. **SAT**: Show the scanned program list.
25. **SUB**: Display the subtitle language list.
26. **TV/RAD**: Switch between TV and RADIO.



Figure 4. Remote Control Unit

27. FIND: Quickly find channels which you want.

28. V-FORMAT: Set the screen mode.

29. TXT: Display the teletext.

30. AUDIO: Display the audio list

3. Installation

You should install the receiver when powering on your product for the first time after purchase.

Tip: The default password is **0000**. If you have forgotten your password, please contact your local product distributor.

3.1 Powering On

1. Connect the power cord of the product to a wall outlet.
2. Ensure the **ON/OFF** switch at the rear of the product is switched to **ON**.
3. Power on by pressing the **STANDBY** button on the remote control or the **STANDBY** button at the front of the product.

3.2 Antenna Settings

Antenna Settings allows you to configure the antenna setting parameters.
Menu->INTALLATION->Manual Search

1. Transponder (TP for short): Press the ◀ / ▶ button to change the TP.

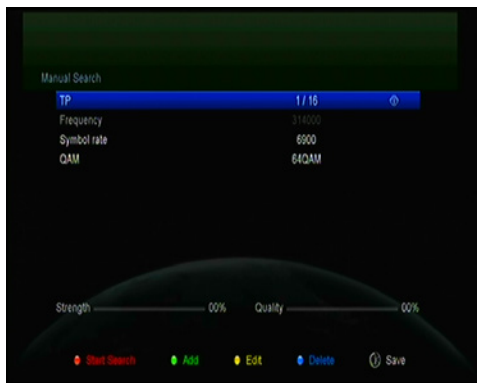
Green button to add a new TP, If you can not find it in the default TP list.

Yellow button to Edit the TP.

BLUE button to delete the TP.

2. Symbol Rate: Highlight the Symbol rate and input the Symbol rate.

3. QAM: Press the ◀ / ▶ button to change the QAM type.



4. **Start search:** Press **RED** Button to start search.

3.3 Auto Search

Menu->Installation->Auto Search

Enter the Auto Search Menu and press the **OK** button to search the pre-stored TP after connecting to the signal cable.

3.4 Blind Search

Menu->Installation->Blind Search

When you don't know what TP and channels will exist in the cable signal, you can do blind search frequencies from 306000KHz to 858000KHz.

3.5 Factory Default

You can restore the product to the factory default and you can also setup it according to the wizard.

Warning: Please note that once you perform ***Factory Default all***, all data and settings will be deleted.

1. Menu->Installation-> Factory Default

2. Highlight the option you want and press the **OK** button to execute it.

1) **All:** All data and settings will be deleted.

Tip: If you select “yes”, all data and setting will be lost. Then waiting a moment, you will view the OSD language menu where you can select the language according your mind.

2) **Channel List Only:** All channels data will be deleted.

3) **Radio Channel Only:** All radio channels data will be deleted.

4) **Scramble Channel Only:** All scramble channels data will be deleted.

4. Channel Manager

Tip: You can press the **Sat** button to choose different source according to the **help** information, press **OK** to confirm, then all the channels of this sat will be display.

4.1 Edit Channel

Menu->EDIT CHANNEL->TV Channels / Radio Channels

Edit Channels enables you to move, delete, rename, lock/unlock, swap the channels in the channel list conveniently.

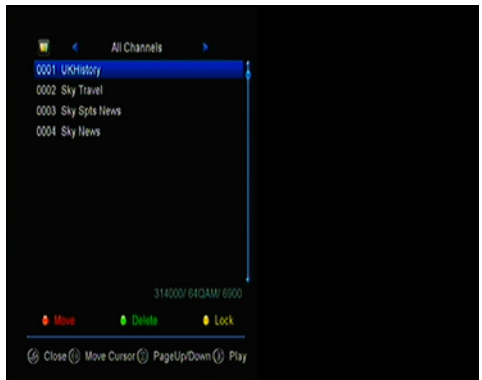
Tip: Radio Channels operation similar to the **TV Channels**.

1. Move Channels

- 1) Press **RED** button to enter move mode.
- 2) Highlight the channel you want to move and press **OK** to select the channel.
- 3) Press the **▲/▼** button to the destination in the channel list and press the **OK** button.

1.1 Move Group Channels

- 1) Highlight the channel you want to group move. Then press the **BLUE** button to sign the channel.
- 2) Press the **▲/▼** or **◀/▶** button to highlight other channels you want to group move. Then press the **BLUE** button to sign the channel one by one.
- 3) Press the **▲/▼** to the destination in the channel list and press **OK** to confirm.



2. Delete Channels

- 1) Highlight the **Delete** function using ◀/▶ button or press **GREEN** button directly.
- 2) Press the ▲/▼ to highlight the channel you want to delete, press the **OK** button to sign the channel.
- 3) Press the **EXIT** button, here, select **Yes** will delete the chosen channels.

3. Lock/unlock Channels

- 1) Highlight the **Lock** function using ◀/▶ button or press **YELLOW** button directly.
- 2) Highlight the channel you want to lock, press the **OK** button to confirm.
- 3) Input the password to lock the channel. If you want to lock another channel, you will not be asked to Input the password again until you press **EXIT**.

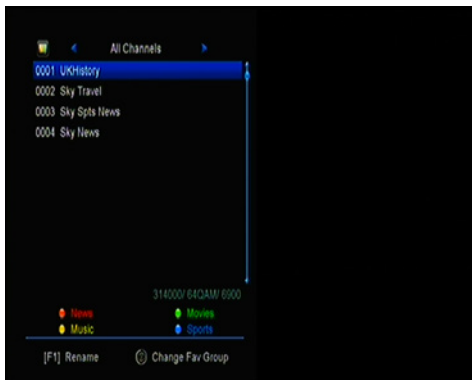
Note: If the highlighted channel is locked, press the **OK** button is switched into Unlock.

4.2 Edit Favorite

Menu->EDIT CHANNEL-> Favorites

You can add or remove channels from the favorite groups.

1. Highlight the channels you want to add or remove from the favorite channel list.
2. Press the ◀/▶ button to change the favorite group and press the color button to add the channel to the corresponding favorite group.
3. Press the **EXIT** button to exit the menu and save it.



Note:

If you select a favorite list, press the ▲/▼ button can only change the channels in this favorite list and press the **OK** button can only display the channels in this favorite list.

4.3 Sort Channels

You can sort the channels list.

Menu-> EDIT CHANNEL ->Sort Channels

Highlight the option you want and press the **OK** button to sort the channel list. You can sort byLCN, Alphabet, Transponder, FTAToCAS, Default, Favor , FTAToCAS + Alphabet ,provider and Service ID.

4.4 User Channel List

User Channel List allows you to save or load all the data and settings.

1. Menu->EDIT CHANNEL-> User Channel List->Save User Data

2. Menu->EDIT CHANNEL-> User Channel List->Load User Data

5. Settings

5.1 System Settings

Menu->SETTINGS->System Settings

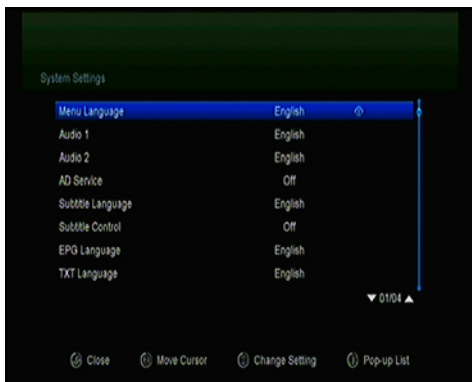
Tip: You can set all the settings here by pressing ◀ / ▶ button.

1. **Menu Language:** Set the menu language.
2. **Audio1:** Set the preferred audio language.
3. **Audio2:** Set the sub-prime audio language.
4. **Subtitle Language:** Set the subtitle language.
5. **EPG Language:** Set the EPG language.
6. **TXT Language:** Set the TXT language.
7. **Digital Audio:** If a channel has AC3 and PCM audio language at the same time, when you select **RAW** it will set AC3 audio language as default output and when you select **PCM** it will set PCM audio language as default output.

8. **Scart Output** : While the **HDMI Mode** is set to **576i** or **480i** mode, you can change the scart output mode between **CVBS** and **RGB** mode.

9. **Auto Channel Selection:** If you set **ON**, in the channel list will play automatically when you highlight the channel. If you set **OFF**, in the channel list when you highlight the channel, you should press the **OK** button to play it.

10. **Auto Exit CH List:** If you set **ON**, the channel list will disappear when you press **OK** on a Highlighted channel. If you set **OFF**, the channel list will disappear when



you press **OK** on a playing channel.

11. **Recall List:** You can turn Recall List on or off. If you set **ON**, when you press Recall button of RCU you can get the recall list. If you set **OFF**, when you press recall button you can go back to the last program you have selected.

12. **Low Power Standby :** You can turn Low Power Standby on or off.

13. **Standby Time:** You can set the Standby Time on or off.

14. **Front Panel Light:** Set the brightness of the LED.

15. **Front Panel Display:** Set the LED display channel or clock.

16. **Channel list type:** You can set the Channel List wide or simple.

5.2 OSD Setup

Menu->SETTINGS->OSD Setup

1. **Menu Transparency:** Set the transparency of all menus.

2. **TXT Transparency:** Set the transparency of teletext.

3. **Display Mode:** Set the HD format between 1080p, 1080i, 720p, 576i or 576p.

4. **TV Type:** Set the TV Type on **PAL/NTSC/Auto** state.

5. **Screen Mode:** Set the display format according to the screen ratio. Select TV screen mode either 4:3 or 16:9 according to the TV type, or press the **MODE** button of RCU directly.

6. **OSD Timeout:** Set the display time of the program information.



5.3 Parental control

Menu-> SETTINGS ->Parental Control

Parental Control allows you to set limits for each program or change your previous password. You can also lock the changes you have made using **Installation Lock**, **Edit Channel Lock** and **System Lock**. And you can change **Age Rating**.

5.4 Times

Menu-> SETTINGS ->Times

5.4.1 Time Settings

Menu-> SETTINGS ->Times->Time Settings

Time Settings will set the time mode, time zone and summer time.

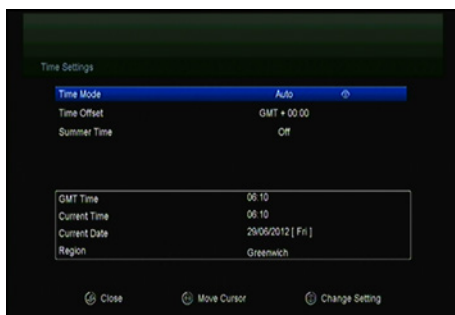
1. Time Mode

You can switch the Time Mode to **Auto** or **Manual** by pressing ◀/▶ button. If the Time Mode is **Manual** you can change the current time and current date.

2. Time Offset

Set the time zone according to your city.

3. Summer Time



If your region needs summer time to correct the current time please make it **ON** by pressing ◀/▶ button.

4. Time

You can select network or satellite.

5.4.2 Event Timer

Event Timer You can set 8 timer events. It will record or play the program automatically according to the timer event list that you set.

1. **Menu-> SETTINGS ->TIMES-> Event Timer** or press the **TIMER** button directly.
2. Press the **RED** button to setup a timer, and press the **OK** button to save the timer after setup.

Channel

Select the Channel from Channel List.

Date

Input start date of the timer.

Start/Stop

Set Start and Stop time of the timer.

Repeat

- <1X> only one time.
- <Day> Repeat every day.
- <Weekly> Repeat the channel weekly.
- <1-5> Repeat the channel from Monday to Friday.
- <6-7> Repeat the channel from Saturday to Sunday.

Standby when Stop

If set **YES**, the receiver will go to standby mode after the timer, if set **NO** it won't be standby.

3. In **Event Timer** menu, highlight one event, press the **RED** button will cancel this

timer and press the **YELLOW** button can go to edit this timer.

5.4.3 Sleep Timer

SLEEP Timer can set the automatic turn off time.

5.4.4 APD Settings

APD Setting can set the power turn down automatically.

5.5 CA Menu

You can view the information about CA card.

Menu-> SETTINGS ->CA Menu

1. You must insert the smart card with gold chip down to CA slot.
2. You can read the detail information about the smart card after it initialize OK.
3. The Pay-TV which correspond to smart card standard can be decoded

5.6 Connecting to the LAN

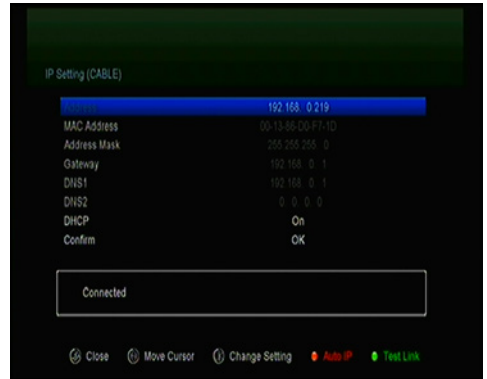
5.6.1 IP Setting

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

2. **Menu-> SETTINGS ->IP Setting**

If the Ethernet cable is connected fine, it will display “**Connect**”. In this menu, you can set IP address manually, also you can get IP address automatically.

- **RED**: Get IP address automatically.
- **GREEN**: Test the network if connect correctly.



5.6.2 Connecting to the Wi-Fi (Wireless LAN)

1. Plug in the wireless USB dongle to the USB port.
2. Enter **Menu->SETTINGS->Wireless Setting->Search Access Pointer**.
3. Select the network name of your Wi-Fi access point from the list.
4. Press the **OK** button, then input the right password. And you can press **RED** button to disable/enable the Wi-Fi.
5. Enter **Menu-> SETTINGS->Wireless Setting->IP Setting**.

If the Network is connected, it should get the correct IP address and display the “Connect”.

5.7 USB Update

Menu-> SETTINGS ->USB update

USB Update can update software by using USB HDD or USB disk.

5.8 Network Update

Menu-> SETTINGS ->Network update

Network Update can update software by network.

5.9 About STB

Menu-> SETTINGS ->ABOUT STB

ABOUT STB can get the information about the STB, such as product name, software & hardware version, and serial number and so on. When you need service from the dealer you need to submit this information in order go get the correct and fast after sales service.

6. X-tras

6.1 Calendar

Menu->X-tras-> calendar

Calendar can get the date information. And you can add the memo of the day.

6.2 Games

Menu->X-tras-> games

Games offer 9 funny games you can play.

6.3 Network Apps

Menu->X-tras-> Network Apps

6.3.1 Weather

Here you can input the city name to browse the weather of this city in future 5 days.

- **RED:** Change the city and unit of temperature.
- **GREEN:** Change the display mode.
- **BLUE:** You can browse the weather of this city in future 5 days or 10 days.

6.3.2 FTP Download

You can Download S/W, music, photo and other media files from the FTP.

1. Input the correct information for every option.
2. Highlight on the **Connect Net**, press the **OK** button to enter the FTP.
3. According to the prompted information select the file you want to download and press the **OK** button to download it to USB device.
4. Press the **RED** button to enter the **FTP_DOWNLOAD** folder in **USB**.

6.3.3 RSS

You can press the **RED** button to add the RSS websites and then you can read content of the websites. And also you can press the **YELLOW** button to delete the RSS websites.

6.3.4 Stock View

You can view stock information.

6.4.8 IPTV

You can visit the IPTV To add a site to visit.

6.4.9 Email

You can access the mail in receiving or sending mail.

7. Multimedia

Menu->Multimedia or press the **MEDIA** button directly

Multimedia can play many kinds of media files, you can record program and playback it and you can do various operations when using USB HDD or USB disk.

Note: It supports FAT, FAT32 and NTFS format USB disk or USB HDD.

8.1 Basic Operations

1. Tool

➤ Rename Files

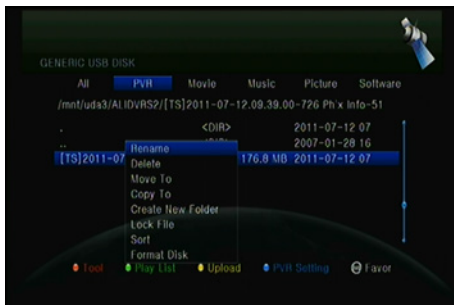
- 1) Highlight the file or folder.
- 2) Press the **RED** button and Highlight the **Rename**.
- 3) Press the **OK** button can rename the file or folder.

➤ Delete Files

- 1) Highlight the file or folder.
- 2) Press the **RED** button and Highlight the **Delete**.
- 3) Press the **OK** button can delete the file or folder.

➤ Move Files

- 1) Highlight the file or folder.
- 2) Press the **RED** button and Highlight the **Move To**.
- 3) Select a destination folder.
- 4) Press the **OK** button to move the highlight folder or file to destination folder.



➤ **Copy Files**

- 1) Highlight the file or folder.
- 2) Press the **RED** button and Highlight the **Copy To**.
- 3) Select another disk partition.
- 4) Press the **OK** button to copy the highlight folder or file to disk partition which you selected.

➤ **Create New Folder**

- 1) Press the **RED** button and Highlight the **Create New Folder**.
- 2) Press the **OK** button to create a new folder in current folder.

➤ **Sort**

- 1) Press the **RED** button and Highlight the **Sort**.
- 2) Select the sort type. (First Name/Date/Size)
- 3) Press the **OK** button to sort by sort type which you selected.

➤ **Format Disk**

- 1) Highlight a disk partition or enter a disk partition.
- 2) Press the **RED** button and Highlight the **Format Disk**.
- 3) Press the **OK** button and then select a format mode (Fat and NTFS). Then press **OK** button to confirm format. After formatting, all the files in current disk partition will be lost.

2. Upload

➤ **Upload Data to USB**

- 1) Enter the USB disk.
- 2) Press the **YELLOW** button and highlight the **Upload Data to USB**.
- 3) Press the **OK** button can upload the data and setting to usb disk.

➤ **Upload to FTP**

- 1) Highlight the file or folder.
- 2) Press the **YELLOW** button and highlight the **Upload to FTP**.
- 3) Press the **OK** button can upload the highlight file or folder to FTP.

7.2 Setting

1. Play Mode

➤ Loop

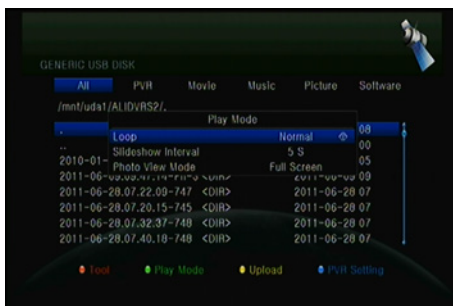
Set the Loop state on **Normal**, **Reverse**, **Random**, **Single** or **Off**.

➤ Slide Show Interval

Set the Slide Show Interval from **2S-10S**.

➤ Photo View Mode

Set the Photo View Mode state on **Full Screen**, **2x2 Thumbnail** or **2x3 Thumbnail**.



2. PVR Setting

➤ Record Partition

Select the Partition where save your record or other result of your operation.

➤ Record Mode

Set the Record Mode **Channel** or **Transponder**.

➤ Record Type

Set the Record Type **TS** or **PS**.

➤ Record Time

Set the Record Default Time **off**, **30**, **60**, **90**, **120** minute or input number directly.

➤ Auto Timeshift

Set start the Timeshift if automatically.

➤ Timeshift Buffer Size(MB)

Set the Timeshift Buffer Size **off**, **100**, **200**, **400**, **800**, **1600**, **3200**, **6400MB**.



➤ **Timeshift Need Save**

Set the Timeshift if need to save in USB device.

➤ **Timeshift To Record**

It allows you to whether add the content of auto timeshifted into recorded file or not.

➤ **Play Start Pos**

When playing the PVR file, set the Play Start Pos whether head of the file or last pos (Stop play by manual last time) of the file.

7.3 Play Files

1. Music

1) Press the ◀▶ to highlight the **Music**.

2) Press the ▲/▼ to change the folder or file and press the **OK** button to open the folder or play the music file.

OK: Play the selected file.

▲/▼: Change the highlighted item.

▶: Play the file.

■: Stop playing file.

I◀◀: Play the previous file.

▶▶I: Play the next file.

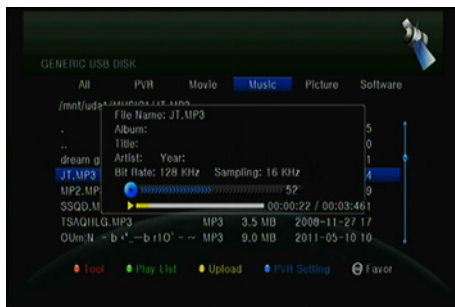
◀◀: Fast rewind.

▶▶: Fast forward.

PAUSE/||: Pause.

VOL+/**VOL-**: Adjust volume.

EXIT: Exit playing state and return to file list menu.



2. Picture

- 1) Press the ◀/▶ to highlight the **Picture**.
- 2) Press the ▲/▼ to change the folder or file and press the **OK** button to open the folder or play the picture.

Tip: You can press the **Green** button to go to **Play Mode** Set the **Photo View Mode** state on **Full Screen, 2x2 Thumbnail or 2x3 Thumbnail** in the **USB** menu. The picture followed is 2x2 Thumbnail mode.

OK: View the photo.

▲/▼/◀/▶: Highlighted the previous/next photo when photo view mode is **2x2 Thumbnail or 2x3 Thumbnail**. ◀/▶ button also can rotate the picture when photo display of full screen.

I◀◀: Play the previous file.

▶▶I: Play the next file.

PAUSE/||: Pause.

EXIT: Exit the current menu.

3. Movie

- 1) Press the ◀/▶ to highlight the **Movie**.
- 2) Press the ▲/▼ to change the folder or file and press the **OK** button to open the folder or play the movie file.

OK: View play list or play the highlighted file in the play list.

▶: Play the file.

PAUSE/||:Pause.

■: Stop playing file.

◀◀: Fast rewind.

▶▶: Fast forward.

I◀◀: Play the previous item.

▶▶I: Play the next item.

INFO: Display the playing progress. In this menu, press the **INFO** button again to display the file's detail information.

AUDIO: Set the audio language.

SUB: If the file has subtitle, press the **SUB** button can change the subtitle.

VOL+ /VOL- : Adjust volume.

Find&(0-9): Jump to position as you like.

EXIT: Exit the current menu.

4. PVR

1) Press the ◀/▶ to highlight the **PVR**.

2) Press the ▲/▼ to change the folder or file and press the **OK** button to open the folder or play the PVR file.

You can playback the files you recorded. And the recorded files are saved in folder named ALIDVRS2.

OK: View play list or play the highlighted file in the play list.

▶ : Display playing progress.

PAUSE/||: Pause or Step.

■: Stop playing file.

◀◀: Fast rewind.

▶▶: Fast forward.

I◀◀: Play the previous item.

▶▶I: Play the next item.

INFO: Display playing progress. In this menu, press the **INFO** button again to display the EPG information.

AUDIO: Set the audio language.

SUB: If the file has subtitle, press the **SUB** button can change the subtitle.

TXT : If the file has teletext, press the **TXT** button can display the teletext.

CH+: Mark on current time when info bar display.

CH-: Jump to mark when info bar display.

Find&(0-9): Jump to the valid time that you input.

◀/▶ : Jump to forward or rewind of a time interval when info bar display.

EXIT: Exit the current menu.

5. Play List

You can play the movie/photo/music/PVR files in the Play List.

1) In the **USB Menu** highlight a **movie/ photo/music/PVR** file and press the **FAV** button to mark it, then press the **GREEN** button to enter the **Play List** menu, you will see the files marked included in play list.

2) In the **movie/ photo/music/PVR Play List**, press **FAV** key to add the all available files to the Play List. (Just according to the help information)

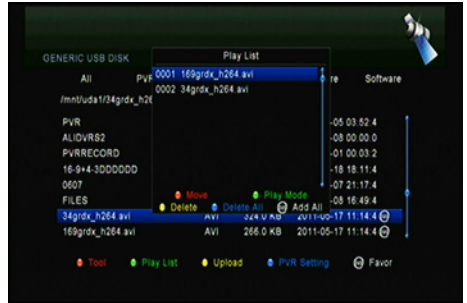
3) In the **movie/ photo/music/PVR Play List**, highlight the

movie/photo/music/PVR file and press the **Red** button to mark it, then move it to the destination press OK to confirm, then you can move the marked file to destination.

4) Press the **GREEN** button set the **Play Mode**.

5) Press **YELLOW** key to delete highlighted file from **Play List**.

6) Press the **BLUE** button to delete all files from **Play list**.



8. Basic Operation

8.1 Audio

You can select the language you prefer in **Audio** if the current program is available in multiple audio languages.

1. Press the **AUDIO** button.
2. Press **▲/▼** button and then press the **OK** button to select the audio language you prefer.
3. Select audio direction (**Left**, **Right**, **Stereo**) using the **◀/▶** button.
4. Press the **EXIT** button to close.



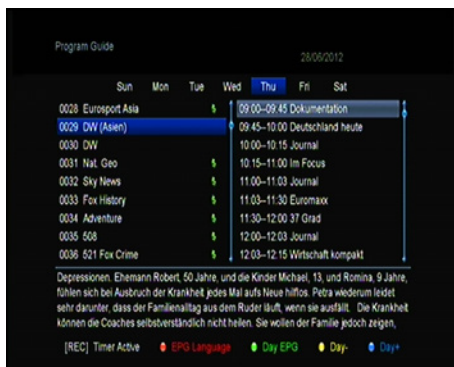
8.2 EPG

You can view the EPG information of all channels in time and date order.

1. Press the **EPG** button.
2. Press the **GREEN** button to switch EPG mode between **Weekly EPG** and **Day EPG**.

Weekly EPG:

- 1) Press the **▲/▼** button to change program.
- 2) Press the **◀/▶** button to change the date, and it displays the EPG list in one day of the selected channel.



3) Press **OK** button, then press **▲/▼** button to highlight the EPG event which you want, and the current EPG detail information will display on the bottom of screen. Highlight the EPG event which you want, press the **Record** button to enter **Timer Setup** menu. After setup, press the **OK** button can add the EPG event to the Timer.

Day EPG:

1) Press the **▲/▼** button to change channel.

2) Press the **◀/▶** button to change EPG event of the highlighted channel.

3) Highlight the EPG event which you want, press the **Record** button to enter **Timer Setup** menu. After setup, press the **OK** button can add the EPG event to the Timer.



8.3 Subtitle

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

1. Press the **SUB** button.

2. Select the required subtitle language and press the **OK** button. The subtitle of the selected language will be displayed at the bottom of the screen.

8.4 Teletext

You can view the teletext information of this program.

1. Press the **TXT** button.

2. Press the **▲/▼** button to page up or page down.

3. Press the **NUMERIC(0-9)** buttons can go to the designated page directly.
4. Press the color button can back to the previous page.



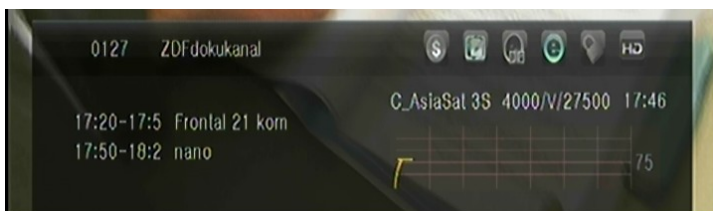
8.5 Find channel







You can find the channels you want quickly just by pressing the **FIND** button directly. Or by pressing **Blue button** in **OK List/FAV List**.







8.6 Program Information

You can view the program information by pressing the **INFO** button while watching a program.

1. General Information



-  : It is a FTA program.
-  : It is a scramble program.
-  : The sound of current program is not Dolby.
-  : The sound of current program is Dolby.
-  : Current program has no EPG information.
-  : Current program has EPG information.

-  : Current program has no teletext information.
-  : Current program has teletext information.
-  : Current program is unlocked.
-  : Current program is locked.
-  : Current program is not a HD program.
-  : Current program is a HD program.

2. EPG Information

Press the **INFO** button twice to view detailed EPG information, press the ◀▶ to switch current and next and press the **INFO** button once more to hide the detailed EPG information.



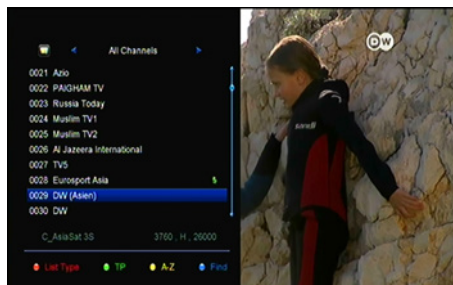
9. Channel List

This chapter will help you manipulate the channel list.

Tip: You can press the **Sat** button to choose different source when you are operating on a channel list, press **OK** to confirm, then all the channels of this sat will be display.

9.1 OK List

- 1) Press the **OK** button to enter the channel list while watching a program.
- 2) Press the ◀▶ button to switch the



channel list type. (**All Channels/FTA Channels/Scramble Channels/HD Channels**)

3) Press the **RED** button to sort the channels. Highlight the option you want and press the **OK** button to sort the channel list.

Note: The **Original Channel List** is back to the channel list you sort it last time.

4) Press the **GREEN** button to list the channels by transponder.

5) Press the **YELLOW** button can help you find the channel quick by the first character of name.

6) Press the **BLUE** button to enter the **Quick Find** menu.

9.2 Favorite List

1) If you have set several favorite lists, press the **FAV** button can enter the favorite list.

2) Press the **◀/▶** button to change different favorite list and press the **OK** button can select the a program in current favorite list.



3) Press the **RED** button to sort the channels of the favorite list.

4) Press the **GREEN** button to manipulate the favorite list channels (move, delete, rename, lock/unlock, swap the channels of the favorite list).

5) Press the **YELLOW** button can help you find out channels quick by their first name.

6) Press the **BLUE** button can help you quickly find the channel you want.

Note: If you selected a favorite list, press the **CH+/CH-** button can only change the channels in this favorite list and press the **OK** button can only display the channels in this favorite list.

10. USB Control

10.1 Recording and Timeshift

1. Start Recording

- 1) You can press the **●** button to start recording while watching program.
- 2) If you have set the timer, and set the **Time Record** on, it will start recording automatically according to the start time of the timer.

2. Stop Recording

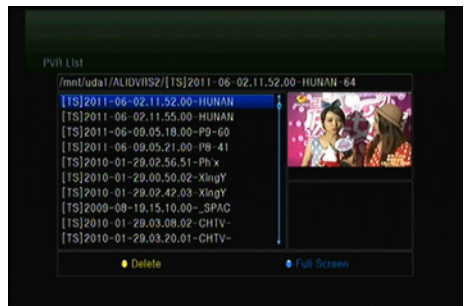
- 1) You can press the **■** button to stop recording. If you don't press the **■** button, it will stop recording according to the record duration.
- 2) If you have set the timer, it will stop recording automatically according to the stop time of the timer.
- 3) If the free space on the USB HDD or USB disk is insufficient, recording will stop.

3. Other Operations while Recording

While the recording channel is current channel, press the **INFO** button can display the recording time. And press the **INFO** button twice can display the detail information of the recording. Press the **▶**

button will enter the playback mode.

Press the **●** button can set the record duration. Press the **PAUSE/||** button can pause recording, and continue recording by press **PAUSE/||** button again. Press the **◀◀/▶▶** button can fast rewind or fast forward in playback mode.



4. Timeshift

Timeshift allows you to pause a live broadcast and return to it later and continue where you left off.

Press the **||** button to start timeshift. While it is in timeshift mode, press the **▶** button can play the program, press the **INFO** button can display the recording information, press the **PAUSE/||** button can pause or play the program, press the **◀◀/▶▶** button can fast rewind or fast forward. Press the **■** button to stop timeshift. If you change to another program or do other operations, it will stop timeshift but still record.

10.2 PVR List

You can enter the PVR list directly and then play the PVR file. In the PVR list you also can delete the PVR files.

1. Press **▶** button enter the PVR list when watching program.
2. Press the **▲/▼** to highlight the PVR file you want to play, press the **OK** button to play in small screen.
3. You can press **BLUE** button to play the PVR file in full screen. And press **Exit** button will return to the PVR List.
4. If you want to delete PVR files, first you must press the **▲/▼** to highlight the PVR file you want to delete, and press the **YELLOW** button to delete.

11. Additional Information

11.1 Trouble Shooting

Before contacting your local service centre, please read the tips below carefully. If the problem persists after completing the following procedure, please contact your local product distributor or service centre for further instructions.

1. No message displayed on the front display. (The product will not switch on.)

- Check the main power cable and make sure it is plugged into a suitable power outlet.
- Check that the mains supply is switched on.
- Connect the power cable to a different power outlet.
- Check that the power switch is on at the rear of the product. (where applicable)

2. No picture

- Make sure that the product is powered on and in operation mode. (Press the STANDBY button)
- Make sure that the AV/HDMI/YUV cable is firmly connected to the TV.
- Make sure that the antenna cable is properly connected to the product.
- Be sure to activate channel search.
- Check the brightness level of the TV.
- Check if the channel is currently on air. Contact the broadcaster to ensure that the channel is running.

3. Poor picture/sound quality

- Make sure there is no mobile phone or microwave oven near the product.
- Check that your cable alignment is correct.
- The signal level may be affected by weather conditions.

4. No or poor sound

- Check that your AV/HDMI cable is connected correctly.
- Check the volume levels of your TV set and the product.
- Check if the product or TV is on mute.
- Check audio type or soundtrack option. (where applicable)

5. Remote control does not operate.

- To control the product, the top end of the remote control should point directly towards the receiving part of the product.
- Remove and reinsert the batteries in the remote control.
- Replace the batteries in the remote control for a new set.

6. Cannot connect network .

- Make sure the network of your family is good.
- Make sure the Ethernet cable is inserted firmly to the LAN router.
- Make sure the Wi-Fi can work on other device.
- Input the Wi-Fi password again.
- Get auto IP again.
- Restart the receiver again.

11.2 Technical Specification

Tuner & Channel

No. of Tuners	1
Input Frequency	51 - 860MHz
Input Level	40dBuv - 90dBuv
Input impedance	50Ω
Demodulation	4, 16, 32, 64, 128 and 256-QAM (ITU-T J.83 annex A, B and C compliant).

MPEG

Transport Stream	MPEG-2 ISO/IEC 13818 Transport stream specification
Profile Level	MPEG1, MPEG-2 MP@ML, H.264, VC1, DV, DivX, and MPEG4
Input Rate	80 Mbps for MPEG Transport Stream and 25 Mbps for DV streams
Aspect Ratio	4:3, 16:9
Video Resolution	576i, 576p, 480i, 480p, 720p50, 720p60, 1080i, 1080p
Audio Decoding	MPEG-2 layer I and II (Music cam), MPEG4 AAC and MPEG4 AAC-HE (AAC+), Dolby Digital (AC-3) with bit rates up to 640 K bits /s, LPCM up to 48 KHz, MP3.
Audio Mode	Single channel/Dual channel/Joint stereo/Stereo
Sampling	32, 44.1 and 48 KHz

Power Supply

Input Voltage	AC 100 ~240V, 50/60Hz
Power Consumption	Max. 25 W
Protection	Separate internal fuse. Input shall have lightning Protection

Physical Specification

Weight (Net)	About 2.5kg
Operating Temp	0°C to + 40°C
Storage Temp	-40°C to + 65°C

11.3 Glossary

Antenna

Cable antenna – source of the TV signal.

EPG

An electronic equivalent to a printed television listings magazine; it is an application used with digital set top boxes and digital television sets to list current and scheduled programs that are or will be available on each channel, including a short summary or commentary for each program. The information supplied in the EPG is sent and updated by the channel broadcaster.

DVB

The Digital Video Broadcast group was created to establish a technical framework for the introduction of digital video broadcasting systems.

HDMI (High-Definition Multimedia Interface)

An all-digital audio/video interface that supports standard, enhanced, or high-definition video, plus multi-channel digital audio on a single cable. It transmits all ATSC HDTV standards and supports 8-channel digital audio.

GHz

The prefix giga means milliard, and Hertz means cycles per second. Signals in the GHz range are often called microwaves.

MHz

The prefix mega means million, and Hertz means cycles per second.

MPEG

Moving Picture Experts Group. Established by the International Standards Organization to provide the basis for a picture coding and compression system.

 **Forward Error Correction(FEC)**

A system of error control for data transmission.

 **Symbol rate**

Speed of the digital transmission.

 **Scrambled TV programmer**

Some TV programmer are transmitted in scrambled form.

ab **CryptoBox 650HDC**
HD Digital Cable Receiver

