



USER'S MANUAL



High Definition Digital Satellite
Television Receiver and Recorder

□ ***SRT 4950H***

Warranty Information

This product carries the manufacturer's warranty against defects in workmanship for a period of 12 months from the date of purchase.

A faulty unit may be replaced within 30 days from date of purchase.

Within that period, the faulty unit must be returned with all original accessories to either the place of purchase or **STRONG Australia**, along with the original purchase receipt.

Beyond the 30-day period, a faulty unit must be returned to **STRONG Australia** for evaluation. If deemed faulty, it will be repaired or replaced (at the discretion of **STRONG Australia Pty Ltd.**) and returned to its owner.

A faulty product may be sent for evaluation either directly to **STRONG Australia**, or via the place of purchase.

STRONG Australia will cover the costs incurred for returning for evaluation a faulty product, when the product is deemed truly faulty. In case the product is found to have no fault, the costs incurred in delivering product to and from **STRONG Australia** will be borne by the customer.

STRONG products carry the guarantees that cannot be

excluded under the Australian Consumer Law. You are entitled to a replacement or refund in the event of a major failure, and for compensation for any other reasonably foreseeable loss or damage resulting from such failure. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

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Safety Precaution.....	3
1. Reference	6
1.1 General Features	6
1.2 Accessories	6
2. Product Overview	7
2.1 Front Panel.....	7
2.2 Rear Panel	7
2.3 Remote Control Unit (RCU)	8
3. Installation.....	9
3.1 Powering On	10
3.2 Antenna Setting for Satellite.....	10
3.3 Search Channels from Satellite.....	10
3.4 Antenna Setting for Motor	11
3.5 Factory Default.....	12
4 . Basic Operation	12
4.1 Audio	12
4.2 Zoom In	13
4.3 Satellite List.....	13
4.4 EPG.....	13
4.5 Subtitle	14
4.6 Teletext.....	14
4.7 Timer	15
4.8 Sleep	15
4.9 Multi Pictures.....	16
4.10 Program Information	16
5 . Channel Manager.....	17
5.1 Edit Channels.....	17

5.2 Edit Favorite	17
5.3 Sort Channels	17
5.4 Delete Satellite channels.....	17
5.5 User Channel List.....	17
6 . Channel List	18
6.1 OK List	18
6.2 Favorite List.....	18
7 . Preferences	19
7.1 System Setting	19
7.2 OSD Setting	20
7.3 Timer Setup.....	20
7.4 Parental Control	21
7.5 USALS Setup	21
8. USB Control	21
8.1 Play Files.....	21
8.2 Recording and Timeshift	23
8.3 Other Operations.....	24
9. Network.....	25
9.1 Connecting to the Wi-Fi.....	25
9.2 Network Application.....	26
10. Additional Information	27
10.1 Trouble Shooting	27
10.2 Technical Specification	29
10.3 Glossary	30

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 vase, shall be placed on the apparatus.

Ventilation:

Keep the slots on top of the receiver uncovered 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 equipment on top of the receiver.

Cleaning:

Unplug 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 satellite LNB or disconnect it from LNB. Failure to do this could possibly cause damage to the LNB.

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-S/DVB-S2 Satellite Compliant (MPEG-II/ MPEG-IV/ H.264)
SCPC & MCPC receivable from Ku and C band satellites
Universal, Single, Single S & C Band Wideband LNB
RF Modulator
DiSEqC1.0/1.1/1.2/1.3 (USALS)
Blind search supported
Auto DiSEqC Search
PAL/NTSC/SECAM Conversion
True full Color (32 bits) on screen display (OSD)
Storing memory: 100 satellite, 4000 transponders and 10000 channels
8 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
Multi-Picture supported
USB 2.0 Interface

1.2 Accessories

Users manual/Remote Control Unit/Batteries/AV Cable/HDMI Cable/ Wi-Fi Dongle

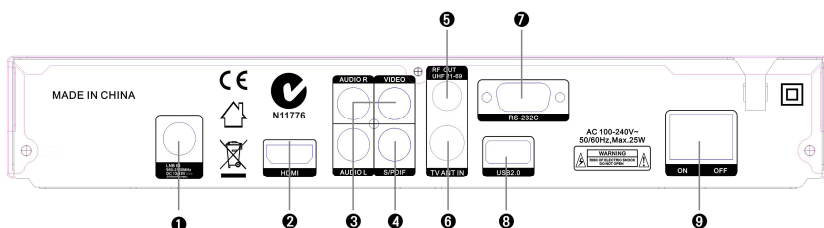
2. Product Overview

2.1 Front Panel



1. **POWER:** Switch between operation and STAND-BY modes.
2. **VOL+/-:** Change volume while watching program or change option from left to right.
3. **CH+/-:** Change channels while watching program or change option from up to down.
4. **POWER LED:** Power Indicator.
5. **SIGNAL LED:** Signal Indicator.
6. **DISPLAY:** It displays channel number. In STAND-BY mode it displays local time.
7. **USB:** USB 2.0 port.

2.2 Rear Panel



1. **LNB IN:** Connect the satellite antenna cable.
2. **HDMI:** Connect to the TV using an HDMI cable.
3. **AUDIO/ VIDEO:** Connect to the TV using an RCA cable.

4. **SPDIF**: Digital Audio output (Coaxial).
5. **RF OUT**: Connect to TV set using modulator.
6. **TV ANT IN**: Connect to TV antenna.
7. **RS232C**: Connect to the computer using serial line.
8. **USB2.0**: One USB 2.0 Host Port Front. One USB Port Rear for Wi-Fi Dongle
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.**POWER**: Switch between operation and low power modes.
- 2.**STAND-BY**: Switch between operation and standby modes
- 3.**TEXT**: Display the Teletext.
- 4.**SUBTITLE**: Display the subtitle language list.
- 5.**AUDIO**: Display audio track list.
- 6.**MUTE**: Mute audio.
- 7.**NUMERIC KEY (0~9)**: Enter a TV/radio channel number, menu option number.
- 8.**TV/RAD**: Switch between TV and RADIO.
- 9.**SLEEP**: enter the sleep timer menu.
- 10.**EPG**: Display the program guide.
- 11.**INFO**: Display the program information.
- 12.**RECALL**: Show the previous viewed channels list.
Or switch to the previous viewed channel.
- 13.**SAT**: Show the scanned satellite list.
- 14.**MENU**: Activate main menu or exit to live channel.
- 15.**EXIT**: Exit current menu step by step.
- 16.**VOL+/VOL-**: Change volume.



17.CH+/CH-: Change program.

18.OK: Confirm the selected operation or display the channel list while watching a program.

19.PVR List: Enter the PVR folder.

20.FAV: Display favorite channel list.

21.Page▲/▼: Page up/down on menu.

22.REW: Fast rewind.

23.TIME SHIFT: Time shift.

24.▶: Play

25.FWD: Fast forward.

26.REC: Record.

27.STOP: Stop USB DVR function.

28. I◀◀: Previous.

29. ▶▶I: Next.

30.MULTIPC: Display multi-picture menu mode list.

31.FREEZE: Freeze the picture.

32.ZOOM: Picture zooming function.

33.WWW: enter into network application.

34.F1: Accessory function.

35.F2: Switch 4:3 & 16:9 Screen Formats.

36.F3: Setup event timer.

37.F4: Setting network type.

3. Installation

Installation Procedure.

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

3.1 Powering On

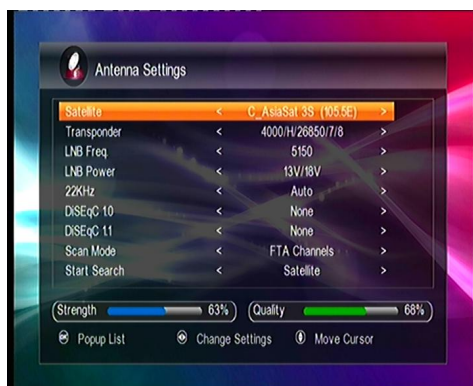
1. Connect the power cord of the product to a wall outlet.
2. Ensure the **ON/OFF** switch at the rear of the product is switched to **ON**.
3. Power on by pressing the **POWER** button on the remote control or the **STAND-BY** button at the front of the product.

3.2 Antenna Setting for Satellite

Antenna Setting allows you to configure the antenna setting parameters.

Menu->Installation -> Antenna Setting

In this menu, while the cursor is highlighting the **Satellite** option, pressing the **OK** button will display the help menu to **Select, Add, Delete, Move** or **Rename** the satellite. While the cursor is highlighting the **Transponder** option, pressing the **OK** button will display the help menu to **Select, Add, Delete** or **edit** the transponder.



3.3 Search Channels from Satellite

3.3.1 Satellite Search

1. Select the desired satellite.
2. Complete the antenna setting of this satellite.
3. Move the cursor to **Start Search** and select **Satellite**, then press the **OK** button to search.
4. Enter the **satellite scan** menu, you can also select satellite, then press the

yellow button to search.

3.3.2 TP Search

1. Select the satellite and the transponder you require.
2. Complete the antenna setting of this satellite.
3. Move the cursor to **Start Search** and select **Transponder**, then press the **OK** button to search.
4. Enter the **Manual Scan** menu, you can also select the satellite and the transponder you require, then press the **yellow** button to search.

3.3.3 Blind Search

1. Select the satellite you want or add a new satellite.
2. Complete the antenna setting of this satellite.
3. Move the cursor to **Start Search** and select **Blind Search**, then press the **OK** button to search.
4. After searching, it will save all the transponders automatically.

3.3.4 Multi-Sat Search

1. Move the cursor to **Start Search** and select **Multi-Sat**.
2. Press the **OK** button and select the satellites you want.
3. Press the **EXIT** button can start search.

3.4 Antenna Setting for Motor

Menu->Installation ->Motor

Mode->DiSEqC1.2&USALS

Move the cursor to **Motor Mode**,
Select **DiSEqC 1.2** or **USALS**
using the **VOL+/VOL-** button.

DiSEqC 1.2: General motor



antenna using DiSEqC 1.2.

USALS: Motor antenna using USALS.

1. **Position auto:** Press the **VOL+/VOL-** button, the motor will drive automatically until it gets the signal.
2. **Continuously move:** The motor can drive only when you hold on down the **VOL+/VOL-** button.
3. **Move steps:** Input the number to set the driving step and press the **VOL+/VOL-** button, the motor will drive several steps.
4. **Limit set:** You can set the maximum motor limit for both *East* and *West* to prevent damage to the antenna. When you set *Disable* the Motor limit setting is released.

5. Command Type:

- A). **Save Position:** Save current position of Motor.
- B). **Go to Position:** Drive Motor to the position which you saved previous.
- C). **Go to Reference:** Drive Motor to zero point.
- D). **Go to XX:** Drive Motor according to **USALS Setup**

3.5 Factory Default

You can restore the product to the factory default by following these steps.

1. **Menu->Channel Manager->Factory Default**
2. Input the password.
3. Highlight the option you want and press the **OK** button to execute it.

4 . Basic Operation

4.1 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 the **OK** button to select the audio language you prefer.
3. Select audio direction (**Left**, **Right**, **Stereo**) using the **VOL+/VOL-** button.
4. Press the **EXIT** button to close.

4.2 Zoom In

You can zoom in the current video picture.

1. Press the **ZOOM** button.
2. Press the **CH+/CH- VOL+/VOL-** button to move the icon to the position you want to zoom in.
3. Press the **OK** button to display.
4. Press the **EXIT** button to close.

4.3 Satellite List

You can select or hide the satellite that you want.

1. Press the **SAT** button.
2. Highlight the satellite that you want.
3. Press the **OK** button, channels from this satellite will only be available.
4. Press the **RED** button to hide or show the satellite. If it is hidden, the channels of this satellite will be hidden in the channel list.

4.4 EPG

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

1. Press the **EPG** button.
2. Press the **RED** button to switch EPG mode between **Weekly EPG** and **Daily EPG**.

Weekly EPG:

- 1) Press the **OK** button to switch between EPG list and channel list.
- 2) Press the **CH+/CH-** button to change channel or EPG event.

- 3) Press the **VOL+/VOL-** button to change the date, and it displays the EPG list in one day of the highlighted channel.
- 4) Highlight the EPG event which you want, press the **GREEN** button to enter **Timer Setup** menu. After setup, press the **OK** button to add the EPG event to the Timer.

Day EPG:

- 1) Press the **CH+/CH-** button to change channel.
- 2) Press the **VOL+/VOL-** button to change EPG event of the highlighted channel.
- 3) Press the **YELLOW** button to display the detailed information of the highlighted EPG event.
- 4) Highlight the EPG event which you want, press the **GREEN** button to enter **Time Setup** menu. After setup, press the **OK** button to add the EPG event to the Timer.

4.5 Subtitle

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

1. Press the **SUB** button and press the **VOL+/VOL-** change to the subtitle mode.
2. Select the required subtitle language and press the **OK** button. The subtitle will be displayed in the selected language at the bottom of the screen.

4.6 Teletext

You can view the Teletext information of this program should Teletext be available.

1. Press the **TEXT** button.
2. Press the **CH+/CH-** 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.

5. Press the **VOL+/VOL-** button to change the sub-page of this page.

4.7 Timer

You can set 32 timer events. It will record or play the program automatically according to the timer event list that you set.

1. Go to **Menu->Timer Adjust->Event Timer**.
2. Press the **GREEN** button to setup a timer, and press the **OK** button to save the timer after setup.

Source: Switch TV and radio.

Channel: Press the **VOL+/VOL-** button to display the channel list and press the **OK** button to select the channel.

Date: Input the date of the timer.

Start: Input the start time of the timer.

Stop: Input the stop time of the timer.

Repeat: Select the repeat times of the timer. (one time/every day/one week/from Monday to Friday/from Saturday to Sunday).

Record: To set if you want to record the timer.

STB Off: Set **YES**, the receiver will go to STAND-BY mode after the timer, set **NO** it will not go into STAND-BY mode after the timer is complete.

3. In **Event Timer** menu, highlight one event, press the **RED** button will cancel this timer and press the **YELLOW** button to edit this timer.



4.8 Sleep

You can set the automatic turn off time.

1. Go to **Menu->Timer Adjust->Sleep Timer**.

2. Press the **OK** button and then press the **VOL+/VOL-** button to select the option or input the number at “-- **Min**” option.
3. Press the **OK** button to save.

4.9 Multi Pictures

You can view multi programs at one time.

1. Press the **MULTIPIC** button.
2. Select the mode you want and press the **OK** button to enter multi-picture.
3. Press the **CH+/CH-/ VOL+/VOL-** button to switch program.
4. Press the **OK** or **EXIT** button to exit multi-picture.

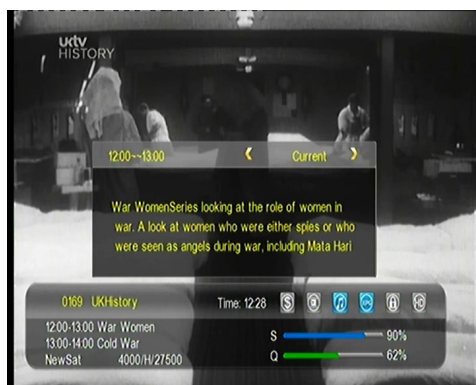
4.10 Program Information

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

1. General Information

2. EPG Information

Press the **INFO** button when the information menu is displayed to view detailed EPG information, press the **VOL+/VOL-** to switch current and next and press the **INFO** button once more to hide the detailed EPG information.



5 . Channel Manager

5.1 Edit Channels

Menu->Channel Manager ->Edit Channels

In this menu, press the **CH+/-** button to change channel, press the **VOL+/-** button to change the function, and automatically play the highlighted channel.

Edit Channels enables you to delete, rename, view or lock/unlock the channels in the channel list.

5.2 Edit Favorite

Menu->Channel Manager->Edit Favorite

In this menu, press the **CH+/-** button to change program, press the **VOL+/-** button to change the favorite group, and press the **OK** button to set favorite.

5.3 Sort Channels

You can sort the channels list.

Menu->Channel Manager ->Sort Channels

Highlight the option you want and press the **OK** button to sort the channel list.

5.4 Delete Satellite channels

You can delete one or all channels of a satellite.

Menu-> Channel Manager ->Delete Satellite Channels

1. Highlight the satellite you want to delete.
2. Press the **OK** button.
3. Selecting **Yes** will execute it.

5.5 User Channel List

You can save or load the channel list you want.

1. Save Channel list

Menu-> Channel Manager ->User Channel List->Save

- 1) Select **Yes** to enter the keyboard menu. Here you can name the channel list.
- 2) Press the **RED** button to save the name and the channel list.

2. Load Channel list

Menu->Channel Manager->User Channel List->Load

- 1) Highlight the list name you want to load.
- 2) Press the **OK** button to load it, press the **RED** button to delete it and pressing the **GREEN** button will delete all the lists.

6 . Channel List

This chapter will help you edit the channel list.

6.1 OK List

- 1) Press the **OK** button to enter the channel list while watching a program.
- 2) Press the **RED** button to display the satellite list.
- 3) Press the **GREEN** button to find the program.
- 4) Pressing the **YELLOW** button can help you quickly find the channel according to the alphabet.
- 5) Press the **BLUE** button to edit the program.



6.2 Favorite List

- 1) If you have set several favorite lists, press the **FAV** button to enter the all

channels list first then press the **VOL+/VOL-** button to enter the favorite list.

- 2) Press the **RED** button to move channel in the favorite list.
- 3) Press the **GREEN** button to delete the channel from the favorite list.
- 4) Press the **YELLOW** button to help you quickly find the channel you want.
- 5) Press the **BLUE** button to rename the favorite list.

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

7 . Preferences

7.1 System Settings

Menu->System Settings->System

1. **Menu Language:** Set the menu language.
2. **Audio1:** Set the preferred audio language.
3. **Audio2:** Set the sub-prime audio language.

4. **EPG Language:** Set the preferred EPG language.

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



6. **Recall List:** If set to **ON**, when you press the **RECALL** button, it will display the channel list you viewed previously. If set to **OFF**, when you press the **RECALL** button, it will take you back to the previously viewed channel.
7. **Volume Per Channel:** If set to **ON**, you can set different volume levels for

each channel. If set to **OFF**, all channels will have the same volume.

8. **Change Channel Option:** If you select **Freeze**, when you switch channels, it will display the last frame of the previous channel. If you select **Blank**, when you switch channels it will display blank a screen.

9. **Front panel Light:** Set the brightness of the front panel.

10. **RF Channel:** set RF channel number.

11. **RF System:** Set RF output mode: PAL B/G,PAL I,PAK D/K,NTSC M

12. **GTV Remote Service:** When connected to the network, if set to on, you can control the STB using an android mobile phone. To use this function install the "GoogleTVRemote" on your phone.

7.2 OSD Setting

Menu->System Settings->OSD

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

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

3. **Time Out:** Set the display timeout of the program information.

4. **TV Screen Format:** Set the display format according to the screen ratio.

5. **HDMI Mode:** Set the HDMI output mode.

6. **TV System:** Set the TV system mode.

7. **Audio Mode:** Set the audio mode to PCM or DIGITAL.



7.3 Timer Setup

Menu->Timer Adjust->Time Setup

You can setup the system time.

1. **Time Mode:** Set the system time mode.
2. **Time Zone:** Set the timer zone according to your city.
3. **Summer Time:** Set summer time **ON** or **OFF**.

Note: The time you set will be shown on the front panel when the receiver is in STAND-BY mode.

7.4 Parental Control

Menu->System 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**.

7.5 USALS Setup

Menu->Installation->Motor Mode

If you set the **Motor Mode** to **USALS**, you need set the longitude and the latitude in **USALS Setup**.

8. USB Control

You can play various types of media files, record and playback programs using a USB HDD or USB disk.

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

8.1 Play Files

1. Go to **Menu->Expansion->USB Menu** or press the **USB** button directly to enter the USB menu.
2. Press the **VOL+/VOL-** to select the file type.
3. Press the **CH+/CH-** to change the folder or file and press the **OK** button to open the folder or play the file.

8.1.1 Music

It supports *.mp3 , *.mp2,*.flac,*.m4a, *.ra,*.wav,*.aac and *.wma format music files.

8.1.2 Picture

It supports *.bmp, *.tif, *.png*.jpg and *.gif format photos.

8.1.3 Movie

It supports *.3GP, *.AVI,*.MKV, *.MP4, *.MOV, *.MPG, *.TS, *.divx,*.M2TS, *.DAT, *.VOB, *.FLV format movie files.

8.1.4 Play List

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

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

2) In the **movie/ Photo/music Play List**, press **FAV** key to add all available files to the Play List.

3) In the **movie/ Photo/music Play List**, highlight the movie/photo/music file and press the **Red** button to mark it, then move it to the destination and press OK to confirm, then you can move the marked file to the desired destination.



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

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

8.1.5 PVR Files

You can playback the files you recorded. The recorded files are saved as *.TS or *.mpg format in the **PVR** folder.

8.1.6 PVR Setting

Enter the **USB menu**, press the **RED** button.

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

Auto Time Shift: Enables Auto Timeshift function.

Auto TMS Limit Size (MB): Set the Timeshift Limit Size **off**, **100**, **200**, **400**, **800**, **1600**, **2000MB**.

Auto TMS Limit Time (Min): Set the Record Default Time **off**, **30**, **60**, **90**, **120** minute or input number directly.

Record Partition: Select the Partition where to save the recorded programs.



8.2 Recording and Timeshift

8.2.1 Recording

You can watch another channel from the same TP while recording.

1. Start Recording

- 1) You can press the **●** button to start recording while watching program.
- 2) If you have set the timer, 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.
- 2) If you have set a 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.

8.2.2 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 || button can pause or play the program, press the ◀◀/▶▶ button to fast rewind or fast forward, press the ■ button to stop Timeshift.

8.3 Other Operations

8.3.1 Upload/Download

You can upload or download data or software.

1. Enter the **USB Menu**.
2. Press the **YELLOW** button and press the **OK** button to upload data.
3. Highlight the file you want to download, press the **OK** button to download the file to the receiver.

8.3.2 Rename/Delete Files

1. Enter the **USB Manager** menu.
2. Highlight the file or folder.
3. Press the **GREEN** button and select **Rename** or **Delete** to rename or delete the file or folder.

8.3.3 Create Folder

1. Enter the **USB Manager** menu.
2. Press the **GREEN** button.
3. Highlight the **Create Folder**.
4. Press the **OK** button to create a new folder within the current folder.

8.3.4 Set Recording Path

1. Enter the **USB Manager** menu.
2. Select the folder you want to save the recorded files to and enter it.

3. Press the **YELLOW** and highlight the **Set Recording Path**.
4. Press the **OK** button to save the path.

8.3.5 Format Disk

1. Enter the **USB Manager** menu.
2. Press the **GREEN** button.
3. Highlight the **Format Disk** and press the **OK** button to format the USB disk.

8.3.6 Copy and Move

1. Enter the **USB Manager** menu.
2. Press the **GREEN** button.
3. Highlight the **Move to / Copy to**
4. Press the **OK** button and select the path you want to move or copy, then press the **RED** button

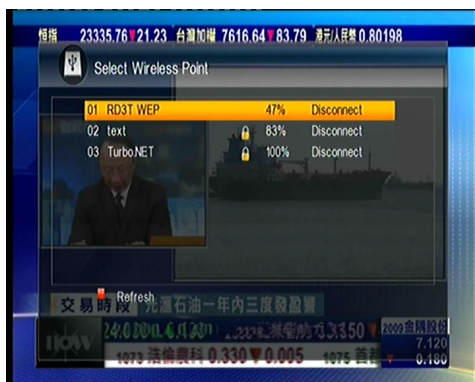
9. Network

You can access the network function via Wi-Fi.

9.1 Connecting to the Wi-Fi

1. Plug in the wireless USB dongle to the rear USB port.
2. **Menu->Expansion->Network Settings-> Network IP Setting**

Enter the **Search Access Point Menu**, select the network name of your Wi-Fi access point from the list.



3. Press the **OK** button, then input your Wi-Fi password.
4. Enter **Menu->Expansion->Network Settings-> Network IP Setting->IP Situation**

If the Network is connected, an IP address and “**Connect**” will be displayed.

9.2 Network Application

9.2.1 VFTP

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

1. **Menu->Expansion->Network Settings>VFTP**
2. Input the correct information for every option.
3. Press the **RED** button to enter the FTP.
4. According to the prompted information select the file you want and press the **OK** button to download it or play it.

9.2.2 Stock view

Menu->Expansion->Network Application->Stock View

You can view the information about given stock. Add, delete, edit stock information is also possible.



9.2.3 Youtube

Menu->Expansion-> Network Application -> Youtube

Visit Youtube to access all available videos.

9.2.6 Google Map

Menu->Expansion-> Network Application ->Google Map

Access the Google Maps service.

Menu->Expansion-> Network Application ->Weather

9.2.7 Weather

You can check the weather of all major cities around the world.

9.2.8 RSS

Access to current trending news feeds.

10. Additional Information

10.1 Trouble Shooting

Before contacting your local service center, please read the tips below carefully. If the problem persists after completing the following procedure, please contact your local product distributor or service center 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 STAND-BY button)
- Make sure that the AV/HDMI 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.
- [Satellite] Check if your dish alignment is correct.

- [Satellite] Change the satellite dish for a larger one as this will increase the signal levels received.
- [Satellite] Replace the LNB with a lower Noise factor in cases where the Noise factor is too high.
- [Satellite] Replace the LNB with a new one in case it is damaged or out of order.
- [Satellite] Check the signal levels and adjust your antenna if the level is too low. 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.

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 to a network

- Make sure the network of your family is good.
- Test the Wi-Fi network to ensure it is accessible and functioning on another device.
- Input the Wi-Fi password again.
- Request automatic IP again.
- Restart the receiver again.

10.2 Technical Specification

Tuner & Channel

No. of Tuners	2
Frequency Range	950 MHz to 2150 MHz
Signal Level	-25 to -65 dBm
LNB Tone Switch	22KHz \pm 2KHz, 0.6Vpp \pm 0.2V
DiSEqC Control	Version DiSEqC 1.0/1.1/1.2/1.3(USALS)Compatible, Tone burst A/B

MPEG

Transport Stream	MPEG-2 ISO/IEC 13818Transport 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.
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 lightening Protection

Physical Specification

Weight (Net)	About 1kg
Operating Temp	0℃ to + 40℃
Storage Temp	-40℃ to + 65℃

10.3 Glossary

Antenna

A device that collects and radiates electromagnetic waves. Includes a satellite dish and broadband antenna.

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.

DiSEqC

DiSEqC (Digital Satellite Equipment Control) system, it is a communication bus between satellite receivers and peripheral equipment using only the existing coaxial cable.

DVB

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

LNB (Low-Noise Block converter) or LNBF

An electronic unit mounted on the satellite dish. It receives the signals reflected by the dish and converts them to signals that can be used by the digital satellite receiver.

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.

Polarization

Polarization allows several programs to be fit into the same frequency band. The signals from a satellite are transmitted either with linear (vertical or horizontal) polarizations or circular (right or left) polarization.

QPSK/8PSK (Quaternary Phase Shift Keying/8 Phase Shift Keying)

Phase-shift keying in which four different phase angles are used.

Transponder

It is a frequency / carrier that carry many Channels including TV, Radio & Data.

Symbol rate

Speed of the digital transmission

Scrambled TV program

Some TV programs are transmitted in scrambled form.



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