USER'S MANUAL

REVOLUTION 500 Pius

Digital Satellite PVR Receiver





WITH SMART CARD READER USB2.0 INTERFACE

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1. General Information

1.1 Important Safety Instructions

- Read this user manual before starting your operation.
- Never open the cover.
- If you don't use this unit for long time, please pull the power plug out form the outlet. Do not use a damaged power cord.
- Do not touch the power with wet hands.
- Install the dish with correct direction and angle.
- Install the unit in place with:

Good Ventilation

Suitable Temperature

No Direct Sunrays

Low Humidity

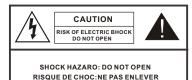
• Do not put heavy objects on the unit.

1.2 Marks on the Rear Panel

General:

The marks appear on the rear panel of the receiver.

Part 1



CAUTION:

To reduce the risk of electric shock, do not remove the rear panel. Equipment service and maintenance should be undertaken only by trained technician.



Part 2

This symbol indicates that electric shock may happen due to improper operation.



The symbol indicates that serious danger may happen due to improper operation.

2. Control and Functions

2.1 Remote Control Unit



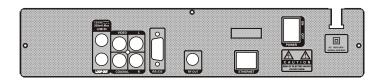
POWER	Turn on/off the STB	
TV/SAT	Switch among TV/AV VCR mode	
MENU	Show the main menu or exit back to previous menu	
MUTE	Enable or disable the audio output	
0-9	Select channels or enter programming	
EXIT	Escape from present menu and save the settings	
ОК	Confirm the selected item or show the channel list	
CH+/CH-(▲)(▼)	Channel change or move cursor up or down	
VOL+/VOL-(◄)(▶)	Volume Control or move cursor left or right	
SAT	Display the searched satellite list	
EPG	Display the TV/Radio Program Guide	
FAV	Display the favourite list	
AUDIO	To set the output direction for speaker and change the Audio Language	
TV/RADIO	Switch between TV and Radio mode	
INFO	To display channel status or various program information for	
	current channel	
RECALL	Switch to the previous viewed channel	
POS	Display position bar on the screen to adjust the antenna or for	
	manual search	
P/N	PAL/NTSC selection	
MP	Multi-picture function	
ZOOM	Zoom in the selected picture	
TTX	Switch to teletext mode	
SUB.T	Switch to subtitle mode	
PAUSE	Pause the ongoing video and audio	
REC	To record current channel	
•	Play or resume	
	Stop Play	
>>	Fast forward	
44	Fast backward	
T/S	Time shift	
•••VOL•••	Increase or Decrease the volume	
•••PAGE···	Page up or page down	

2.2 Front Panel



KEY	FUNCTION	
ტ	Turn on/off receiver	
MENU	Shows the main menu or back to previous menu	
ОК	Confirm the selection, or jump back to last menu	
CH+/CH-	Channel change(Up/Down)	
VOL+/VOL-	Volume Control(Up/Down)	

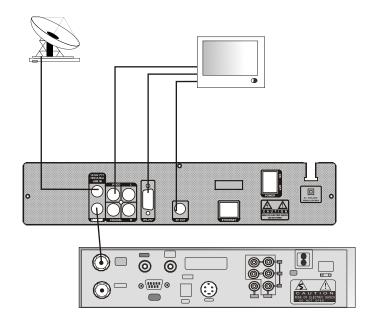
2.3 Rear Panel



CONNECTOR	FUNCTION	
LNB IN	Connect to satellite antenna cable	
LOOP OUT	Connect to another receiver(IF loop through output	
	from digital tuner)	
RS232	Connect to PC for software upgrade	
VIDEO	Connect to TV's video port	
AUDIO R/L	Connect to TV'S audio port	
ETHERNET	Connect the Ethernet port	
RF OUT	UHF RF output to TV	
COAXIAL	Connect to digital audio amplifier	
POWER ON/OFF	Power On/Off	

2.4 Installation of receiver

Please refer to the right way for installation as following picture.



3. Installation

• This menu consists of sub-menus as shown below:

Antenna Setting Automatic Search

Manual Search Blind Scan

Motor Setting

Factory Default

3.1 Antenna Setting

- Under the Antenna Setting menu, you can edit satellite data and LNB information.
- Press Red key to enter Automatic Search menu.
- Press Green key to enter Manual Search menu.
- Satellite Name: Select the satellite needs to search.
- Transponder: To show or edit transponder information under current satellite.
- LNB Type: Select the type of your LNB. If you have universal LNB, select universal.
- LNB Freq (Low/High Freq): Enter the proper LNB frequency via RCU or use the keypad displayed by pressing OK key.
- Switches (22k, DiSEqC Switch Setting): To configure the antenna.
- LNB Power: Select the LNB Power to Auto, Off, 14V or 18V.

3.2 Automatic Search

Automatic Search function is a convenient tool to search all preset satellites at the same time.

- Press Up/Down key to choose desired satellite then press OK key to confirm, a tickle will appear to indicate the selected satellite.
- Add TP: Press Green key to add TP into default TP list, which is shown in the right of screen.
- Rename: Press Yellow key to rename the satellite.
- Scan: After selecting the desired satellite, press Blue key to start channel search through various search modes.

3.3 Manual Search

- Satellite Name: Select the satellite needs to search.
- Transponder: Press Left/Right key to select your desired transponder. Press OK key to activate TP list.
- Frequency& Symbol Rate: Press Left/Right key to select the appropriate item or use the numeric key of RCU to input the required value.
- Polarization: Press Left/Right keys to select the polarization of











transponder between HOR and VER.

- Search Type: FTA means only free to air channels can be searched. CAS means only scrambled channels can be searched. Select All to search all channels.
- NIT Search: Please Left/Right key to select On or Off.
- Delete TP: Press Green key to delete the current transponder.
- Set PID: Press Yellow key to set the PID and input the Video PID, Audio PID and PCR PID to search.

3.4 Blind Search

- Satellite Name: Select the satellite needs to be search.
- Start Frequency: Edit the start frequency.
- End Frequency: Edit the end frequency.
- Start Symbol: Edit the start symbol rate.
- End Symbol: Edit the end symbol rate.
- Polarization: Select the polarization type as HOR, VER or ALL.
- NIT Search: Select NIT search as On or Off.

3.5 Motor Setting

If you connect a DiSEqC1.2 motor, select the Motor Setup type to DiSEqC1.2.

- Satellite Name: Select the satellite that needs to move.
- Motor Setup: Press Left/Right key to select DiSEqC1.2.
- Transponder: Select the transponder to check the signal level.
- Move: Select this item and then keep pressing Left/Right keys to
 move your antenna east or west. Use the signal strength and signal
 quality bars at the bottom of the screen to judge the best position of the antenna.
- Store Position: Press OK key to save the current position.
- Recalculate All Position: Press OK key to recalculate all satellite position.
- Goto Reference: Press OK key to move the motor to the reference position.
- Limit Setting: Press OK key to set West or East limit.

If you connect a USALS positioner, first get to know your local longitude and latitude, then select the Motor Setup type as USALS.

- Satellite Name: Select the satellite that needs to move.
- Motor Setup: Press Left/Right key to select USALS.
- Transponder: Select the transponder to check its signal level.
- Local Longitude: Input the local longitude through numeric keys.
- Local latitude: Input the local latitude through numeric keys.

3.6 Factory Default

- Factory default allows user to restore the factory-reset values.
- When you press OK key, the Warning window will appear, if you select Yes, the system setup will be reset to the default values.

Warning: All previously set data and information will be lost after factory default.







4. Channel Manager

4.1 Channel Manager

This menu allows you delete channels, lock channels, move channels, rename channels, and sort channels etc.

 Delete: Move up or down and press OK key to select desired channels to delete. Press the color keys to delete all, delete TP and delete SAT channels.

Note: The deleted channel cannot be watched unless re-searched.

- Lock: Move up or down and press OK key to select desired channels to lock. Password is needed to see locked channels.
- Move: Move up or down and press OK key to select desired channels to move. Press RED and Up/Down keys or input numeric keys to move the selected channel for new location.
- Sort: Press OK key to enter sort type menu. Select the sort order through Up/Down key and press OK key to confirm.

Alphabet: All the channels will be sorted in alphabetical order.

Satellite: All the channels will be sorted in satellite order.

FTA->CAS: FTA channels will be listed ahead of the scrambled channels.

CAS->FTA: Scrambled channels will be listed ahead of the FTA channels.

FAV: Favourite channels will be listed ahead of the others.

Rename: First select the channel needs to rename, then select Rename icon and press OK key to
confirm. A keypad dialog consisting of a title bar, an alphabet and function keys will appear on the
screen. Use the direction key of RCU to select the required character and press OK key to confirm.
Then the selected character will be shown in the title bar. After finishing the input, use direction key
of RCU to select OK.

4.2 Set Favourites

- This menu allows user to set channel through 8 favourite types.
- Press Up/Down key to select your favourite channel, and press OK Key to confirm.
- Press **OK** key again to remove desired channel from favorite list.
- Press Red key to modify name of the favorite group.







5. Preference

This menu consists of sub-menus as follows:

System Options

AV Setting

Video Adjust

Time Settings

Timer

Parental Control

About Receiver

5.1 System Options

- OSD Language: Press Left/Right key to select your desired language.
- OSD Transparence: Press Left/Right key to select the transparency level of the MENU window.
- OSD Timeout: Set the delay time for information banner to disappeare.
- Audio Language: Select the first language to listen if this language is supported by current program. This depends on the TV content provider.

5.2 AV Setting

- Screen Ratio: Select the TV Screen format 4:3 or 16:9.
- Screen Mode: Select the Screen Mode letter Box or Pan Scan.
- Black Freeze: Select the back freeze No or Yes.
- Monitor Type: Select the TV mode AUTO, PAL, NTSC or SECAM.

5.3 Video Adjust

 This function allows user to adjust the screen brightness, contrast, saturation and hue.

5.4 Time Settings

- Set user's local time.
- Select GMT of users' local area, and set the current date and time.
- The unitwill get time information automatically from the satellite.
- Summer Time: Select whether to use daylight saving for Local time.

5.5 Timer

- 10 timers could be set with various statues such as Off, Once, Daily and Weekly.
- Use the numeric of RCU to input the Hour and Duration Time.











5.6 Parental Control

- Default password is "0000"
- Parental Lock: Parental Lock menu is controlled by a password.
- Install Lock: Installation menu in main menu is controlled.
- To change the password as following steps:
 - 1. Select Parental Lock.
- 2. Select the Current Password and input "0000"
- 3. Select the New Password and input a new PIN.
- 4. Select the Confirm Password and input the same new PIN.

Note: Do not forget the password. For further assistance, call your local distributor.

5.7 About Receiver

This menu displays Software Version, Hardware Version and Date information.





6. Game

- This menu consists of Teris, Gobang, Canvas and Boxman games.
- Press OK key to enter the corresponding sub-menu. User can play the game via remote control.



7. General Viewing Function

7.1 Program Information

Press Info key to check program information included in the current channel program.

Note: Progam information is not always sent with the channel program.

7.2 Channel List

- In full screen play mode, press **OK** key to display the channel list.
- Press Up/Down and OK key to enter the desired channel.
- Press RED key to enter the advanced channel list.
- In advanced channel list, user can check all channels in different sort type such as Alphabet/Satelite/FAV/CAS.

7.3 EPG (Electronic Program Guide)

- Press EPG key to show Program Guide menu.
- Naviagte EVENT: Press Red or Green key to navigate the information in 7 days.
- Detail Info: Press Blue key to display the detail information.
- Timer: Press OK key to set the Timer.

Program Guide - (1) - 0/10/2001 (130) - 2) TV Brass - (1) - 0/10/2001 (130) - (1) - 0/10/200

7.4 Satellite List

 Press SAT key to display satellite list, and press Up/Down and OK keys to enter channel list under the selected satellite.

7.5 Favourite List

Press FAV key to enter favourite channel list, press FAV key again to choose favourite type.

7.6 Multi Video Type

• Press MP key to enter Multi Video Type menu for 9, 12 or 16 options.

7.7 Zoom Function

• Pess **Zoom** key then press **OK** key, the selected picture within the frame will be enlarged.

7.8 Audio

Volume

- Press Left/Right key to adjust the volume.
- Press **Mute** key to mute volume and press **Mute** key again to resume the volume.
- Press Left/Right key also to resume the mute function.

Audio Control

- Press Audio and Left/Right keys to choose audio channel(Left, Right and Stereo).
- Press Audio and Up/Down keys to choose audio language.

7.9 TV/Radio

While watching a TV channel, press TV/Radio key to switch between TV and Radio mode.

7.10 TV/SAT mode (Optional)

The **TV/SAT** key lets user change the mode from satellite to TV or VCR.

Press once to move to TV mode.

Press twice to move to VCR mode

Press three times to change back to satellite mode.

7.11 Recall

Press Recall key to switch to the previous channel.

8. USB Function

The unit with built-in USB port supports the following devices:

- USB portabe hard disc
- USB memory

USB function as listed below:

- PVR(Personal Video Record)
- Timeshift record
- Audio/Video file display
- Photo display
- Software Upgrade
- Format disk
- Delete/Rename disk file
- Device Info display

USB Browser

There are two parts under this menu: disk partition list and file list. User can switch between two lists with **left /Right** keys. While the cursor in partition list, press **OK** key to choose disk partition. While the cursor in file list, press **OK** key to enter directory or start to play current file.

Green key to play the current file. **Blue** key to stop playing. **Yellow** key to enter volume adjust menu. **Red** key to ener USB functions list and detailed direction as follows:

Delete -- Delete current file

Rename -- Change the current file name

Show MP3 -- Switch to the mode which only display MP3 file.

Show PVR -- Switch to the mode which only display PVR record file.

Show Jpeg -- Switch to the mode which only display JPEG file.

Show BIN -- Switch to the mode which only display .bin file.

Show All Files -- Switch to the mode which display all supported files.

Format Disk -- Formatting the disk

Show Disk Information -- Display current disk partition informaitn, such as: Capacity, File system type, Used space and Free space.

Set Record Path -- Place all recorded files into a folder by set record file path.

Switch to Order(Random) Play -- Set order or random play.

Switch to Auto(Manual) Play -- Set auto or manual play.

PVR Function

User can record any audio and video data to hard disk and watch these programs afterwards. There are two record modes which is manually recorded or recorded by timer. For the manual record, you can record another program under the current TP while watching the current program. Under the mode of manual

record, there will appear the channel list for recording as the right picture for user to choose what to record.

Record and Play menu:

Time shown in the left tells the timer duration of playing and right time tells the total recorded time.





9. Technical Specification

TRANSMISSION STANDARDS		
DVB-S, MPEG-2		
SATELLITE INPUT/DEMODULATI	ON	
Connector Type	2XF Type(1 Input/1 Loop Through)	
Input Frequency	950 to 2150 MHz	
Signal Input Level	- 65 to 25 dBm	
Band Switch Control	22KHz	
LNB Supply	13.0 +0.5V/16V +0.7V, Max 500Ma	
Demodulation Type	QPSK/FRC Coding(DVB prETS 300 421)	
Symbol Rate	2 <rs<45 mband(scpc="" mcpc)<="" td=""></rs<45>	
AUDIO/VIDEO PROCESSING		
Audio Decompression	MPEG-1 layer I and II / Musicamr	
Audio Outputs	Stereo Channel/Dual Mono/Joint Stereo/ Mono	
Video Decompression	MPEG-2 Main Profile @ Main Levels With Lette	
Video Buffer	64 Mbits of SDRAM is provided	
Data Rate	Up to 15Mbits/s (Max. burst rate: 228 Mbits/s)	
Video Output	PAL-25 frame @720 x 576; NTSC-30 frame @720x480	
Video Format	4:3, 16:9	
POWER SUPPLY		
Main input voltage	100 - 240V AC @ 50Hz/60Hz±5%	
Power consumption	Max. 30W	
REAL PANEL		
Connections	1 RF Input / 1 RF Loop through output RF OUT / RF IN 2 x Audio L/R (RCA) 1 x Video Signal (RCA) 1 x RS-232 (9-pin D-sub male) 1 x Y/Pb/Pr Video Signal (3RCA) 1 x ETHERNET	

10. Trouble Shooting

Problem	Possible Causes	What To Do
No display light up on front panel	Power Cord is not well plugged	Check whether power cord has been plugged
		properly into power socket.
No sound or picture, but the front panel red light is ON.	The unit is in standby mode	Press the standby button.
No sound or picture	The satellite dish is not pointing at the satellite.	Adjust the dish. Check the Signal Level in the
		Antenna Setup Menu
Bad picture/Blocking Error	No signal or weak signal	Check the cable connections. LNB and other
		equipment connected between the LNB and the
		receiver and adjust the dish.
	The satellite dish in not pointing at the satellite	Adjust the dish.
	Signal is too strong	Connect a signal attenuator to the LNB input
	Satellite dish is too small	Change to a larger dish
	LNB noise factor too high.	Change to an LNB with lower noise factor
	The LNB is faulty.	Change the LNB
No picture(Video)	The system is connected by SCART cable and	Check the UHF channel fixed in your system and
	TV is not in AV/EXT mode.	tune the UHF properly.
There is interference on your	The system is connected using RF cable and the	Change the receiver output channel to a more
digital satellite channel.	output channel of the receiver interferes with an	suitable channel or connect the system using
	existing terrestrial channel or Video Signal.	SCART cable.
The RCU is not working.	Out of battery	Change the battery
	RCU is aimed at wrong direction	Aim the RCU at the unit, and make sure no blocks
	-	between the front panel and RCU

Note: If you still cannot resolve the problem with above reference. Please contact the local dealer or their after-sales service center.