

Contents at a Glance

GETTING STARTED

GENERAL FEATURES	1
SAFETY PRECAUTIONS	2
SAFETY OPERATION AND MAINTENANCE	2
IN PACKING	3
FRONT PANEL INFORMATION	3
REAR PANEL INFORMATION	4
REMOTE CONTROL UNIT	4
HOW TO USE THE REMOTE CONTROL UNIT	5

HOW TO RECEIVE

SATELLITE PROGRAMS

CONNECTIONS TO DIGITAL RECEIVER	6
OPERATION INSTRUCTION	6

APPENDIX

TROUBLE SHOOTING	10
SPECIFICATION	10

please read this manual carefully before operation.

GENERAL FEATURES

The Receiver has the latest decoding CPU, Its main features all satisfy DVB - S / MPEG-2 standard. The Receiver has high articulation digital screen and Hi- Fi digital stereo output, full-function infrared remote control, English and Chinese menu, and you can operate it very conveniently.

- Compliant with DVB-S Specification, DVB-S Satellite digital TV/Radio programs receivable.
- Chinese/English OSD display; Maximum Memory up to 200 programs.
- Scpc/Mcpc compliant, all free-on-air digital programs can be received.
- LNB Horizontal and Vertical polarization controllable.
- Highly reliable switch power (80-270VAC 47-63Hz).
- Memory before broken and signal level indicator.
- RS-232 connector, software upgrading.
- Left, right, Stereo Audio selectable.
- Static threshold (<2.2dB).
- S-VIDEO, AV output.
- C/Ku band compliant.
- Teletext function
- PID setting.

SAFETY PRECAUTIONS

The DSR has been manufactured to comply with International Safety Standard. Before using this device, please read the following carefully.

1. Avoid overloading: Do not place anything heavy on the ventilation openings.
2. Avoid Extreme Humidity: Do not install the equipment in an overly humid place.
3. Ventilation Opening and Installation: Do not block the DSR's ventilation opening to prevent it from overheating, which may cause malfunction. Install the equipment on a firm and flat surface. Avoid extreme heat and direct sunlight.

SAFETY OPERATION AND MAINTENANCE

Please read this manual carefully before using.

- ◆ The Receiver's working conditions:

Environment Temperature: 0 - 40°C

Relative Humidity: 10% - 90%

Atmosphere Pressure: 86 - 106kPa

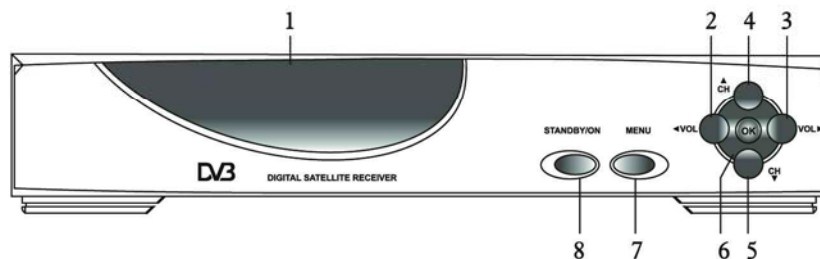
- ◆ To prevent electric shock, do not attempt to open or disassemble the product, do not touch the components.
- ◆ Do not plug in the power plug if you don't use the DSR. Do not touch the machine when your hand is wet.
- ◆ Do not use the broken power plug with the extension cord. Avoiding damage to the power cord, you should hold the plug when pulling it out. Do not bundle the power cord together with the antenna cable.
- ◆ Do not clean the equipment by using the melting agent, which will damage the lacquer finish, such as naphtha and the thinner. You can clean the machine by using the clean and soft cotton. If the machine is very dirty, you can clean it by using the wet cotton at first, and then clean by the dry cotton. Before cleaning the house, you should turn off the DSR and pull out the power plug.
- ◆ When thundering, avoid touching the lead-in, and pull out the power plug from the wall as soon as possible.
- ◆ If you move the DSR from a cold place to a warm place, you should use it 2-3 hours later, otherwise, it will engender the water bead inside the DSR, resulting in false working.

IN PACKING

After purchasing the DSR, unpack it and check to make sure that all of the following items are included in the packaging:

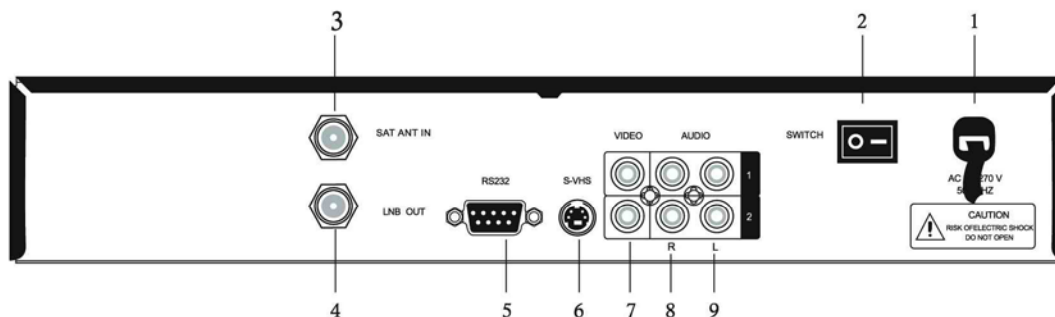
- Remote Control Unit
- AV cord
- User's manual

FRONT PANEL INFORMATION



1. **Display window:** Red lamp lights up when Power ON. Green lamp lights up when signal locked. Three digital LED Display to display the Channel Number when watching. Three digital LED Display the signal level when editing the programs.
2. **Volume down:** When watching, decrease the volume, or in the menu, move to the left item.
3. **Volume up:** When watching, increase the volume, or in the menu, move to the right item.
4. **CH up:** When watching, change to the next channel, or in the menu, move to the upper item.
5. **CH down:** When watching, change to the previous channel, or in the menu, move to the lower item.
6. **OK:** Execute the selected item in the menu.
7. **Menu:** Show the main menu on the screen.
8. **Standby key:** To make the DSR working from the stand-by state, or make the DSR being in the stand-by state form working. It's not the Power ON/OFF key, this key is on the rear panel.

REAR PANEL INFORMATION

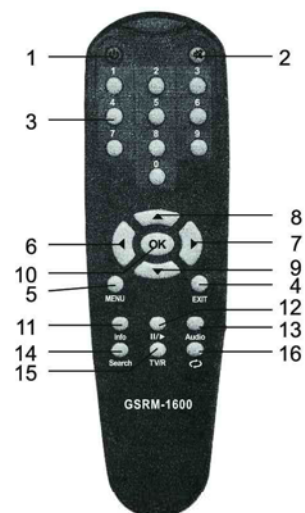


1. **POWER :** To be connected to the 80-270V AC power.
2. **SWITCH :** Turn on and off the power of the receiver.
3. **SAT ANT IN:** To be connected to the LNB output (the Satellite Antenna).
4. **LNB OUT:** To be connected to another receiver.
5. **RS-232:** For software update.
6. **S-VHS:** Connects to the S- VHS jack of the TV or VCR.
7. **RCA VIDEO:** To be connected to the external VIDEO input of the TV (2 Way).
8. **RCAAUDIO R:** Connect the AUDIO R output jack to the TV AUDIO R input or the AUDIO R input of an audio amplifier (2 Way).
9. **RCA AUDIO L:** Connect the AUDIO L output jack to the TV AUDIO L input or the AUDIO L input of an audio amplifier (2 Way).

REMOTE CONTROL UNIT

To use various features of the DSR, use the remote control unit for faster and more convenient usage (insert batteries before using the remote.)

- | | |
|--------------|---|
| 1. POWER | Switch between the working state and the stand by state. |
| 2. MUTE | When watching a channel, mute the sound for listening a phone, etc. |
| 3. 0 - 9 | Enter number of the required menu item or select a channel number and watch. |
| 4. EXIT | Exit from any menu without storing. |
| 5. MENU | Press this key one time and run menu on the screen. |
| 6. VOLUME ◀ | When watching, decrease the volume, or in the menu, move to the left item. |
| 7. VOLUME ▶ | When watching, increase the volume, or in the menu, move to the right item. |
| 8. CH ▲ | When watching, change to the nextchannel, or in the menu move to the upper item. |
| 9. CH ▼ | When watching, change to the previous channel, or in the menu move to the lower item. |
| 10. OK | Save the change of the system in the menu. |
| 11. Info | Show information of the current channel on the screen. |
| 12. /▶ | Pause receiving. |
| 13. Audio | Press this key for choosing Audio L/R output or stereo output. |
| 14. Search | Press this key once for adding a new program. |
| 15. TV/Radio | Switch between TV and Radio mode. |
| 16. ↶ | Switch the current program to the previous receiving program. |



HOW TO USE THE REMOTE CONTROL UNIT

◆ How to install the battery?

1. Open the cover board on the rear panel.
2. Install two 7# batteries correctly.
3. Cover the board.

◆ Attention

1. The working life of the battery is about 10 months, it depends on how you use it.
2. If you can not use the remote control effectively, please replace all the batteries.
3. Do not put the batteries into the fire.
4. Avoiding the corrupt batteries damaging the remote control, please take out the batteries if you don't use the RCU for a long time.

◆ How to use and keep the RCU

1. To make sure the correct operation, please wait for 1 second between the two presses.
2. Keep the RCU out of the high temperature place and the humid place, avoiding shocking.
3. Do not expose the RCU in the strong light, such as sunlight and spotlight.

■ CONNECTIONS TO DIGITAL RECEIVER

Connect the cable from the satellite antenna to SAT ANT IN with an F connector.

Connect RCA VIDEO/AUDIO(L/R) jack to TV.

Connect S- VHS VIDEO output & RCA AUDIO(L/R)output to the TV.

■ OPERATION INSTRUCTION

Press “MENU” in the front panel or in the Remote Control Unit, then the TV screen shows the menu.



1. TV CHANNELS

Select this item in the menu, press “OK”, then appears the TV CHANNEL sub-menu. Select the channel by pressing CH ▲ and CH▼, and then press “OK”

2. RADIO CHANNELS

Select this item in the menu, press “OK”, appears the RADIO CHANNEL sub-menu, select the program by pressing the CH ▲ and CH▼, and then press “OK”.

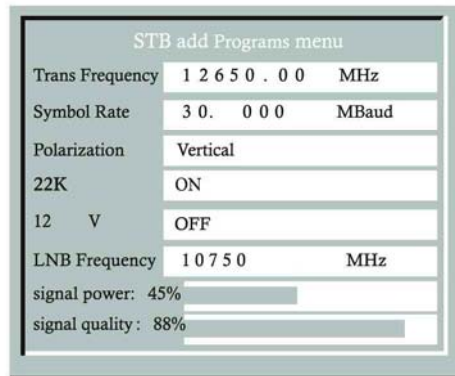
3. SETUP PROGRAMS

Select this item, the sub-menu will show on the screen as following (press “MENU” or “EXIT” to go back per-menu).



◆ ADD PROGRAMS

Select this item, the sub-menu will show on the screen as the following:

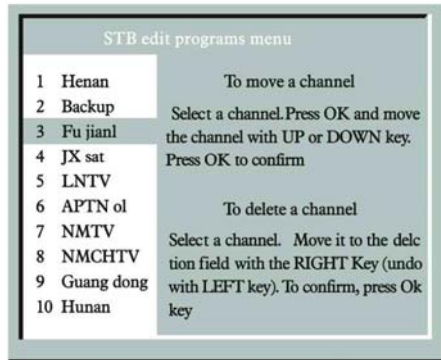


Press 0 - 9 key or CH▲▼ key in RCU to change number, press VOL+- in RCU to move cursor, after finish completely, press OK to execute. The receiver will search the programs and put it into the programs' list.

The “Signal Strength” item and the “Signal Level” item will show the strength and quality of the input satellite signal.

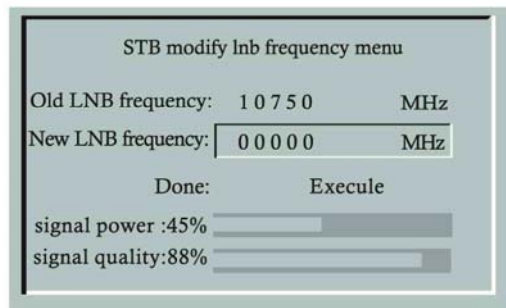
◆ EDIT PROGRAMS

Select this item,press OK, the sub-menu will show on the screen as following.



◆ MODIFY LNB FREQUENCY

Select this item, the sub -menu will show on the screen as following:



Input LNB frequency at first, then press OK, the cursor stop at "Execule", press CH ▲▼ to "execute" or "delete". If you select "execute", the receiver will execute the modification.

◆ MODIFY PROGRAM PARAMETER

Select this item, the sub -menu will show on the screen as following:

1: TV Channel					
Ch.Name	Henan	LNB Freq	0 5 1 5 0		
Frequency	0 3 7 0 6	Symb. Rate	0 4 4 2 0		
Polarization	Vertical	12V	OFF	22K	ON
Tel PID	0 0 3 2	VideoPID	0 1 6 0		
Audio PID	0 0 8 0	PCR PID	0 1 6 0		

Select this item, you can rename a channel, modify all the features with gray background in the following from of the channel you select.

Press 0-9 key or CH key to input the NO., press CH key to rename the channels,press the VOL key to move the cursor, after setting all the parameters, press OK to execute.

◆ AUTO SEARCHING

Select this item, the receiver will search all the signal and list all the programs been searched. All the keys can not work when auto searching.

◆ EXIT

Return to the main menu.

4. LANGUAGE

Select this item, press OK, the menu language switches between the Chinese and English.

5. DEFAULT

Select this item, press OK,all the parameters will be reset to factory default value.

6. EXIT

Select this item, press OK, the menu will be exited.

APPENDIX

■ TROUBLE SHOOTING

If you run into problems with DSR, please use the following table to troubleshoot the problem before requesting technical support.

Symptom	Reason	Solution
Turn on the DSR, the red lamp on the front panel not on.	The power cord is connected incorrectly to the main supply.	Correct the connection.
No Video	The Video output jack and TV's input jack are not connected in gear.	Reconnect the two jacks.
	The antenna cable is not connected in gear.	Reconnect the antenna cable.
Video is on, but no audio.	Audio output cables are not connected in gear.	Correct the connection.
	Mute is ON.	Press "MUTE" key.
	The antenna is un-directed.	Direct the antenna.
No satellite signal	Satellite signal cord is not connected correctly.	Reconnect the signal cord correctly.
	Weather condition is bad.	Use again when the weather turning better.
	Antenna position is not correct.	Adjust the antenna.

■ SPECIFICATION

Input	Audio
Frequency range: 950-2150MHz Input level: -79~-11dBm Input impedance: 75Ω IF band width: 27-36MHz Input connector: F-type	Audio output: L/R Output type: RCA
	RF
	PAL B/G UHF 25CH
Video	Channel Decode
Decode format: MPEG - II Bit rate: ≤15Mbps Output format: NTSC/PAL Video output: 1V ± (20mV) p-p Differential gain: ≤5% Differential phase: ≤5°	Demodulation: QPSK Symbol rate: 2-45Mbps LNB power: 13/18V Working voltage: 80-270VAC Power: 20W(max) Volume: 340 x 250 x 60 mm Weight: 2 kg