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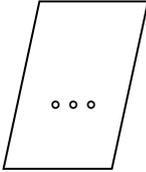
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1.Preface

The demodulator is a digital STB for CATV, it may receive digital signal from cable network and output A/V signal. It also has CA function.

Before starting using this unit, please be sure to refer to this manual.

Unpacking

	USER'S MANUAL : ONE
	CONTROL ONE A/V CABLE : ONE

2.Safety instructions

1. Before starting using this unit, please be sure to refer to this manual.
2. Do not remove the cover.
3. Please make sure to cut off the power supply if you will not use this unit for a long time, and do not use any broken power supply

cable, which could result in fire or electric shock.

4. Wet hands are forbidden to touch the power jack. Please cut off the power supply if there is some liquid in the cabinet to avoid risk of electric shock and fire.
5. Never allow liquids, spray or other materials to come into contact with the inside of the model.
6. Do not place this product in a location near a heat source such as radiator or air ducts, or in a place exposed to direct sunlight, excessive dust, moisture, rain, mechanical vibration.
7. Keep the device working in a good ventilative environment and put it in a level location
8. Please don't switch on the unit immediately when the unit is moved to a new environment with big difference in temperature, usually 1-2 hours waiting is necessary.
9. Don't try to repair the unit by yourselves, please contact distributor nearby.

3.Products

The demodulator is compatible with MPEG-2 standard. It can

receive DVB-C digital signal, and has video/audio output.

Main Features

- Compatible with DVB-C/MPEG-2
- PAL/NTSC compatible
- English / Chinese language menu
- 700 programs could be saved
- Stereo, left, right audio channel out.
- Signal quality indication
- AV output
- RF loop output

-
- Power off memory

- EPG

4. Machinery description

A. Front panel

- ▲----- Move cursor up
- ▼----- Move cursor down
- **POWER**-----Light when working
- **LOCK**----- Green light when locked

B. Rear panel

1 . AC 100V ~ 240V , 50Hz ~ 60Hz : Power Supply Socket: AC 100V

~AC240V, 50~60Hz

2 . SWITCH: POWER SWITCH

3 . RS232: For software update.

4 . S-VHS:S-Video

5 . R Audio output L : Audio output

6 . Video out: Video output

7 . RF in: RF input

8 . RF out: RF output

9 . in : CABLE ANT INPUT

10 . out : CABLE ANT OUTPUT.

C.REMOTE CONTROL UNIT

1.Mute key press to temporarily cut off the sound

2.Standby key press to switch between operation and standby modes

3.TV/R key It is used to exchange TV signal and broadcasting

signal among the channels including audio broadcasting.

4. AUDIO key This key can be used to select left-right sound selecting key channel output and the stereo output.

5. Number key Keys to input number 0~9, used to directly select channel and set program parameters.

6. Pause key Pressing this key can pause the current playing program, press again to continue playing.

7. EPG Pressing the key ,list will be displayed,and quickly select program

8. FAV Press the key to look though you favourite

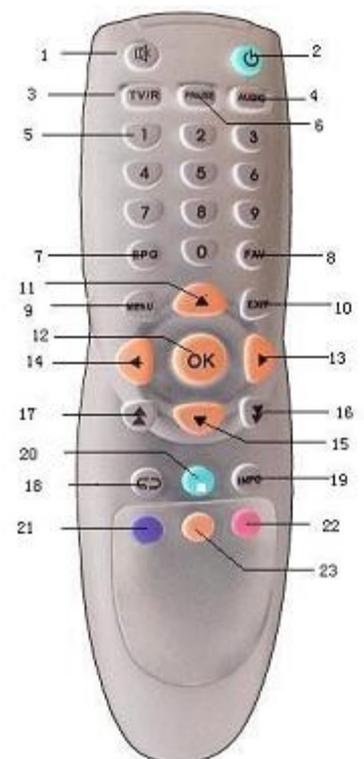
9. Menu key Press the menu key to display the main menu. When insidethe menu, press it to the upper level menu .

10.EXIT Press it to exit current menu.

11. Channel up key Press this key to make the current channel up, furthermore, this key can be used to adjust up the menu bar or value.

12. Confirm key This key is used to confirm every operation

function, it can also be used to display program list directly for fast selecting.



this is an indicating picture, only for reference, no additional notice for further change.

13. Volume increase key Press this key to increase the volume, it can also be used to adjust the menu bar or the cursor to right.

14. Volume decrease key Press this key to decrease the volume, it can also be used to adjust the menu bar or the cursor to left.

15. Channel down key Press this key to make the current channel down, furthermore, this key can be used to adjust down the menu bar or value.

16. page down key Press this key to look over next page

17. page up key Press this key to look over front page

18. Program exchanging key Exchange between the current watching program and the previous watching program

19. Info key the key to display the parameter of the current program

20. function keys(red): different menu has different function

21. function keys(yellow): different menu has different function

22. function keys(green): different menu has different function

23. function keys(blue): different menu has different function

5. System start

A. Check the system connection

Please check if the cable socket, A/V equipment and power supply are connected correctly.

B. Switch on the power supply

Press "POWER" button, "POWER" indicator light illuminates.

C. Select the TV or radio channels

6. TP Search

1. Press "MENU" to enter main menu, press right key to list

follows:

Press "CH -" (or↓) to Senior manager, press "volume +" and

"OK" to enter password to list follows:

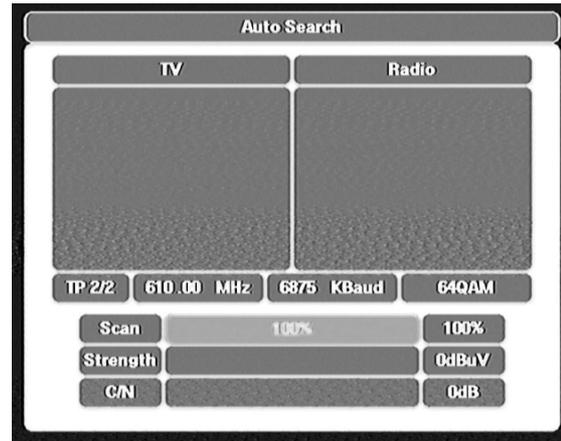
Press "CH -" (or↓) to Ch Search and press "volume +" to search ,

,all operations will prompt in help column.,as follows.It has two

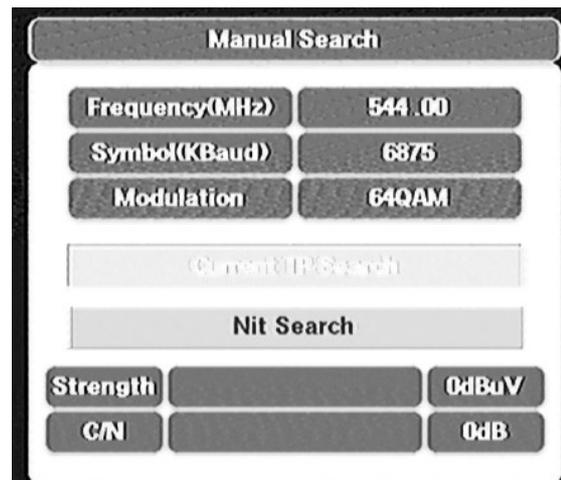
method to search: Manual Search and Auto Search.

Press to Search:

1. Auto Search



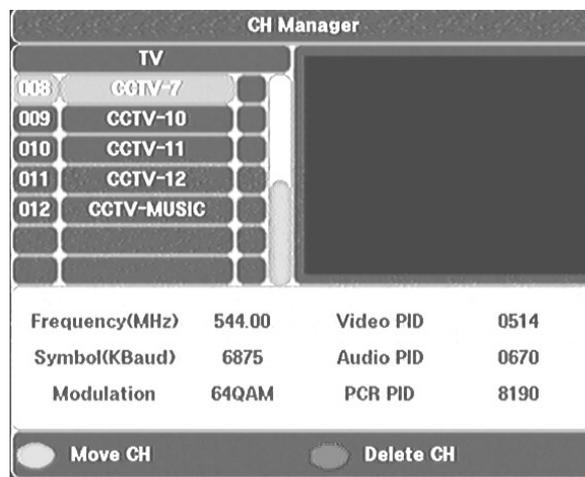
2. Manual Search



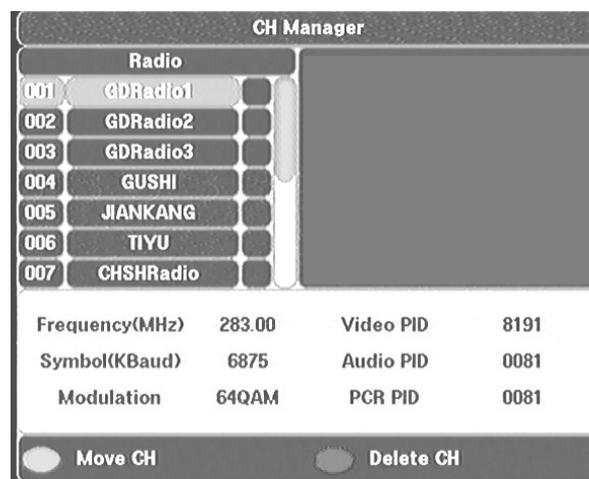
Press save after the searching complete. Press exit to back to the playing window.

7.Program manage

In playing state ,Press“MENU” to enter main menu, press “CH -” (or↓) to “Ch Manager” ,and press “volume +” to “TV manager” ,display as follows:



press “volume +” to “TV manager” ,display as follows:



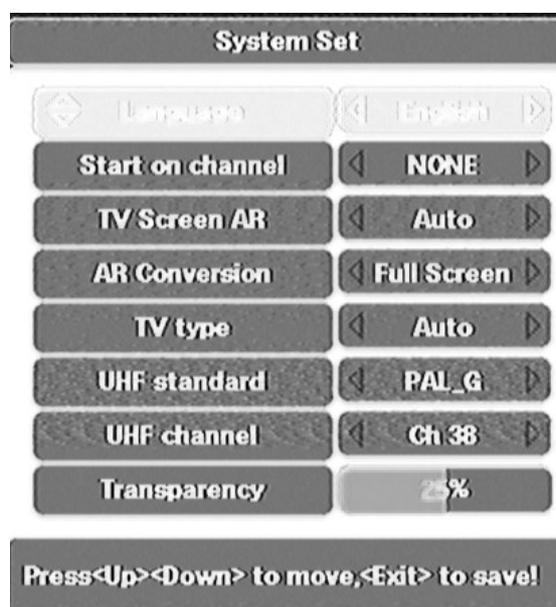
Press **function keys** can finish hand move,channel order ,and

delete Channel . At the same time,you can skim over all channels

8. Advanced setting

The advanced setting menu includes four sub menus: system setting, time setting, middle frequency setting, default setting.

In the system setting menu,you can display Chinese and English ,and TV type setting.



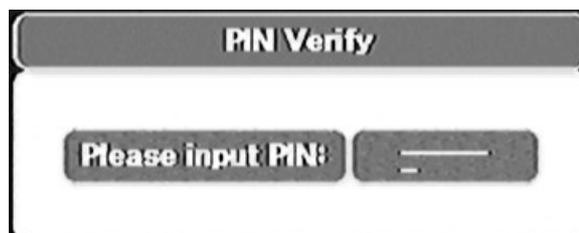
When you select any operation,you can see a dialog box,which let you select whether or not change.

In the middle frequency setting menu, you can set the middle frequency, which can help you to use the “Auto Search” to get all channel.

RF output (this function is optional), It supports software control output of RF channels from 21 to 63.

9. CA setting

This setting includes three options: mother lock modifying, other settings, match of mother-son card. Be aware that these three options can only be effective when the card is inserted. Among other settings there are watching grade setting, programs not suitable to the watching grade would be discarded. The Expire warning setting, which would remind people to renew their right of watching. The beginning and ending of working time setting, which control the working period of STB. Illustrate as follows:



10. Information

This option includes five parts, there is information of intelligent card, information of empower, E-mail, information of operator, information STB.

Among the intelligent information, the machine number should be accordance with the card number, otherwise, the STB can not work normally.

Smart Info	
Smart State	Running
STB ID	-1
Smart ID	100
Smart Ver	V02.00
PIN State	PIN unlock
Watching Level	Beyond 18 years old
Work Time	00:00:00 ~ 23:59:59
IPPT Mode	Choice Use

While among the empower information every empowered beginning and ending time can be checked.

Entitle Info		
Product	Start Time	End Time

Press <UP><Down> to move,<exit> to return. 0/0

Among the operator information, all kinds of information intimately relate to users can be checked, such as: card number, time between pairing, regional code, user's scope code, user grade, operator name, all these information are carried by the front sending signals can not be changed by users.

Operator Info	
Mother Card ID	
Time to Pair	
Run Area ID	
User Area ID	
User Level	
Operator Name	

Among the STB information, users can check all kinds of component editions, such as: software edition, hardware edition, loader edition, type of high frequency receiver, code order. As to the software edition it represents the edition of

subject software, while the hardware edition represents all kinds of configurations, code order is a comprehensive code.



11. Technical specification

Item	Technical specification
Input frequency	86MHz ~ 858MHz
Input impedance	75Ω
LNB power	18V (Optional)
Input signal	-68 ~ -15 dBm
Symbol rate	<2.2dB
Input socket	F-type
Audio frequency characteristics	≤±0.5dB(20Hz-20KHz)
Video frequency response	≥70dB
Audio output	L、R 0.775Vrms600Ω
Audio amplitude-frequency characteristics	± 0.5dB (60Hz ~ 18kHz)
Decode model	MPEG-2
Bit rate	≤15Mbps
Output mode	NTSC/PAL

Video output	1V±20 (mV) P-P
Harmonic spurious	720x576
Time delay difference of color and brightness	≤30ns
Frequency characteristics	≤0.5dB(MHz)
DG	≤5%
Operating temperature	≤5°
Constellation	QAM16 QAM32 QAM64 QAM128 QAM256
Symbol rate	2 ~ 45Mbps
Working temperature	+5°C ~ +40°C
Storing temperature	-10°C ~ +70°C
Power supply	AC 100V ~ 240V , 50Hz ~ 60Hz
Operating power	20W(Max)

12. Trouble shooting

Symptoms	Cause	Remedy
There is no indication when the unit is switched on	The plug isn't connected into the socket or the socket has no electricity.	Please make sure the plug is connected and the voltage of socket is normal.
'No signal' displayed while selecting the channel	The antenna is not connected correctly	Please connect the antenna again
	The parameters are not set correctly	Please reset the parameters
	No program	Please try again when there is signal
There is only sound, no image.	Video cable is not connected well	Please connect it again
	The receiver is in radio mode	

There is only image, no sound.	Audio cable is not connected well	Please connect it well
	The receiver is in mute	Exit mute mode
	The volume is decreased to minimum	Please increase the volume
There is the strange sound or the image is not in conformity with sound	The right and left audio output is different	Please select other setting of audio channel
The image pauses or has mosaic	The signal is too weak	Please check if the cable is connected well and use the signal amplifier.