

I. SAFETY PRECAUTIONS

CAUTION:



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to "dangerous voltage" and to prevent from a risk of electric shock.



Warning:
To reduce the risk of electric shock, don't open the cabinet. Refer servicing to qualified personnel only.



The exclamation point within an equilateral triangle is intended to alert the user to important operating and maintenance (servicing).

WARNING: Do not use this IP BOX where contact with or immersion in water is a possibility. Do not use near flower vase, washbowls, kitchen sinks, laundry tubs, swimming pools, etc.

WARNING: Do not put the candle or lamp stand on the cabinet; otherwise, there is the danger of fire.

WARNING: The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the unit. If you are not sure of the type of power supply (for example, 120 or 230 V) to your home, consult your local dealer or local power company.

WARNING: This product install diodes. Do not open the cabinet or touch any parts in the inner mechanism. Consult your local dealer for technical service if the opening is required.

WARNING: If use the power supply plugs and appliance couplers as a disconnect device, disconnect device shall be easy to operate.

Note: This product install diodes. Do not open the cabinet to avoid the unit direct exposure to radiation.

Unit Cleaning: After the unit power is turned off, you can clean the cabinet, panel and remote control with a soft cloth lightly moistened with a mild detergent solution.

Attachments: Never add any attachments and/or equipment without the manufacturer consent; as such additions may result in the risk of fire, electric shock, or other personal injury.

Locating: Slots and openings in the cabinet are provided for ventilation to protect it from overheating. Do not block these openings or allow them to be blocked by placing the IP BOX on a bed, sofa, or other similar surface, nor should it be placed over a radiator or heat register.

Power-Cord Protection: Place the power-supply cord out of the way, where it will not be walked on. Please take special attentions to cords at plugs, convenience receptacles, and the point where they exit from the unit.

Object and Liquid Entry: Never put objects of any kind into this IP BOX through openings, as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill any liquid on the IP BOX.

Note: Moisture may be formed on the lens In the following conditions:

- when the unit is suddenly moved from a cold environment or an air-condition room to a warm place.
- immediately after a heater has been turned on.
- in a steamy or very humid room.

If the moisture forms inside the unit, it may not operate properly. To correct this problem, turn on the power and wait about two hours for the moisture to evaporate.

Parts Replacement: When the unit parts need to be replaced, user should make sure the service technician use the replacement parts specified by the manufacturer or having the same characteristics as the original part. Unauthorized replacement may put the unit In the risk of fire, electric shock or other hazards.

Safety Check: After all the maintenances and repairs are done, user is required to request the service technician to conduct the overall safety check to ensure the machine is In the proper condition.

II. ENVIRONMENT PROTECTION



Attention!

Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.

Information on Disposal for Users (private households) in the European Union

Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.

Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge*. In some countries* your local retailer may also take back your old product free of charge if you purchase a similar new one. *) Please contact your local authority for further details.

If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

Information on Disposal for Business Users

In the European Union

If the product is used for business purposes and you want to discard it:

Please contact your dealer who will inform you about the take-back of the product. You might be charged for the costs arising from take-back and recycling. Small products (and small amounts) might be taken back by your local collection facilities,

In other Countries outside the EU

If you wish to discard of this product, please contact your local authorities and ask for the correct method of disposal.

III. GENERAL INFORMATION

1 Preface

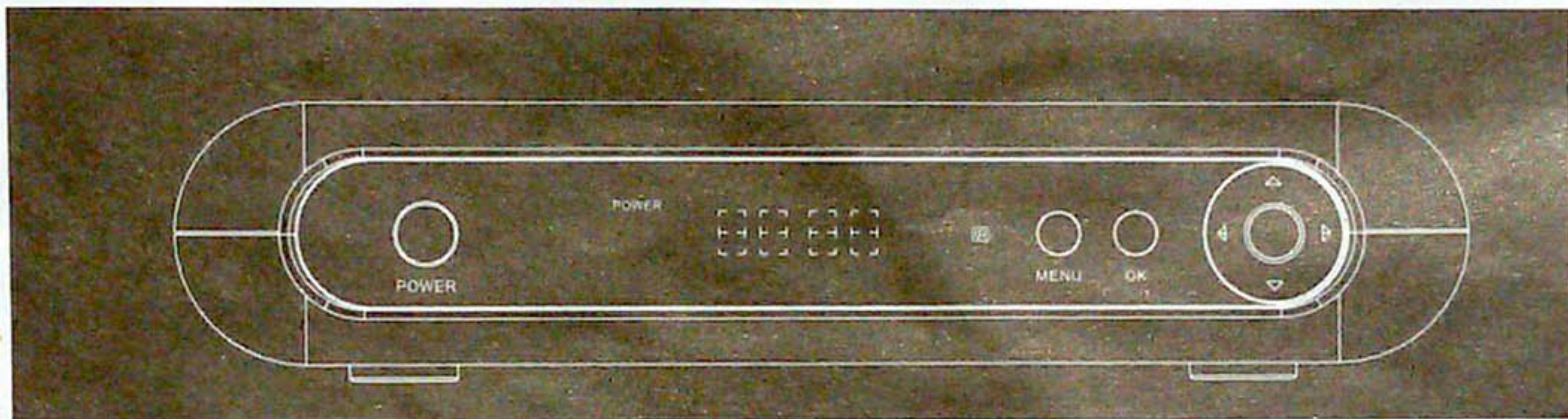
Thanks for your purchase our product. The latest technology and the outstanding design are adopted to provide high reliability and picture stability, for your convenient operation, strongly advised reading the manual before using.

1. Conditional Accessing System supported.
2. Adopt the powerful Ali chip.
3. MPEG-2 MP@ML,H.264
4. DDRAM Memory 64Mbytes
5. Flash 8Mbytes
6. USB 2.0 Interface (for browse PIC and Upgrade SW)
7. 2000 channels TV and radio programs
8. Fully support 7 days of electronic program guide (EPG)
9. OSD teletext (DVB compliant) and subtitle function supported
10. Automatic turn on/off by timer setting
11. Multi-language supported (English, French, German, and Italian Spanish, Portuguese, Dutch, 13 kinds of Languages.)

2 Before installation

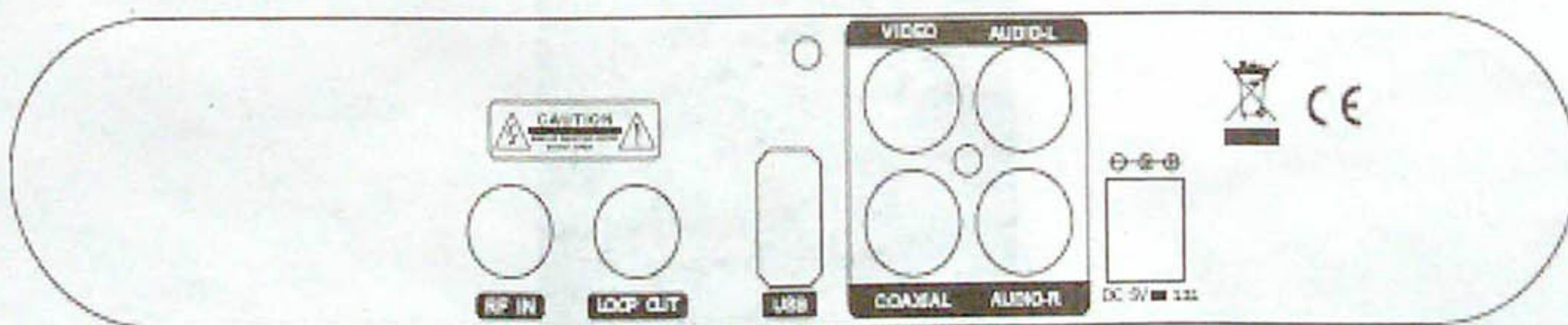
2.1 Hardware

2.1.1 Front Panel



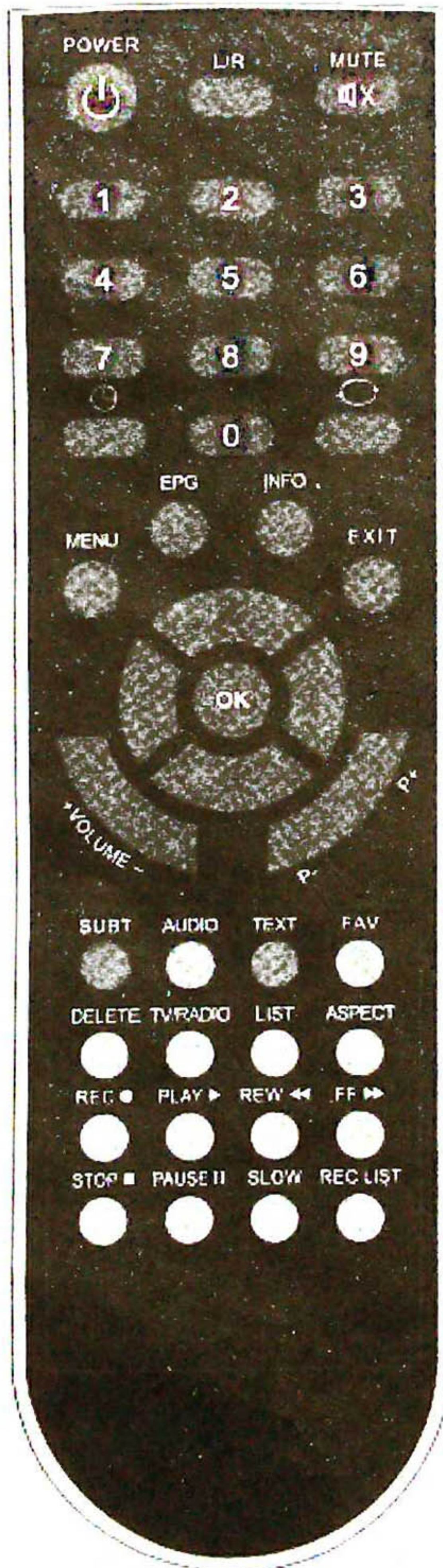
- | | | | |
|-------------|-----------|-------------|--------------|
| 1. Power | 2. Menu | 7. OK | 3. V-/Left |
| 4. V+/Right | 5. CH+/Up | 6. CH-/Down | 8. CA Socket |


2.1.2 Back Panel



- | | |
|--------------|--|
| 1. RF IN: | Connect to coaxial cable |
| 2. LOOP OUT: | To connect a TV set to receive analogue channels or to connect an extra IP box |
| 3. USB: | Physical interface for updating and connect external hard-disk |
| 4. Coaxial | To connect to the TV using Coaxial cable |
| 5. CVBS: | To connect to the TV using A/V cable for video output |
| 6. Audio-L: | To connect to the TV using A/V cable for audio output |
| 7. Audio-R | To connect to the TV using A/V cable for audio output |
| 8. Power: | power |

2.1.3 Remote Control Unit



1. **POWER:** Power ON/OFF
2. **L/R:** sound track selection
3. **MUTE:** Mute selection
4. **0-9:** Channel and numerical value selection
5.  : ON/OFF timer
6. **RECALL:** Switch between current and last channels
7. **EPG:** Show Electronic Program Guide
8. **INFO:** Program Info
9. **MENU :** Enter into main menu
10. **EXIT:** Exit current selection
11. **OK:** Confirm the selection or show the channel list
12. **+Volume -:** Volume down or up
13. **PAGE+/PAGE-:** Page down or up
14. **SUBT:**Subtitle ON/OFF
15. **AUDIO:** Audio language Selection
16. **TEXT :**Show Teletext
17. **FAV:** Display Favorite list
18. **DELETE:** Delete program
19. **TV/RADIO:** Change the mode between TV and RADIO
20. **LIST:** List out
21. **ASPECT:** Aspect
22. **REC:** Recording the current programme
23. **PLAY:**Playback the recorded files from external USB device
24. **REW:**Rewind during playback
25. **FF:**Fast-forward during playback
26. **STOP:**Stop recording or playback
27. **PAUSE:**Pause playback
28. **SLOW:** Slow down the playback
29. **REC LIST:** Go to the recording list directly
30. **RED/GREEN/YELLOW/BLUE buttons:** Used for TEXT

3 Installation

Step 1:

System connection examining

Please refer to the IP box back panel diagram, examine the signal cable, a/v equipment, hard disk and power supply well connected or not. If you already have a CA card, please put the CA card with up-face into the CA card socket.

Step 2:

Switch on the power of the PWR

After well connected all the cable, power on the IP BOX. Then power indicator light (red light) turns red, power on the TV, and switch the TV to Video mode, if IP BOX pre-exist programs, there will be Channels No. and Signal Quality banners on the TV screen.

Step 3:

All Channel Search

In case of without pre-exist programs, there will be only open screen picture on the screen. Use the "Left" or "Right" cursor button to select "Yes" on the Search Guide Menu, press OK start program searching.

User can find detailed searching information: during the procedure of program searching. When searching finished, there will be indicate on the screen how many programs you get totally.

Step 4:

The selection of TV, Radio or Recording program

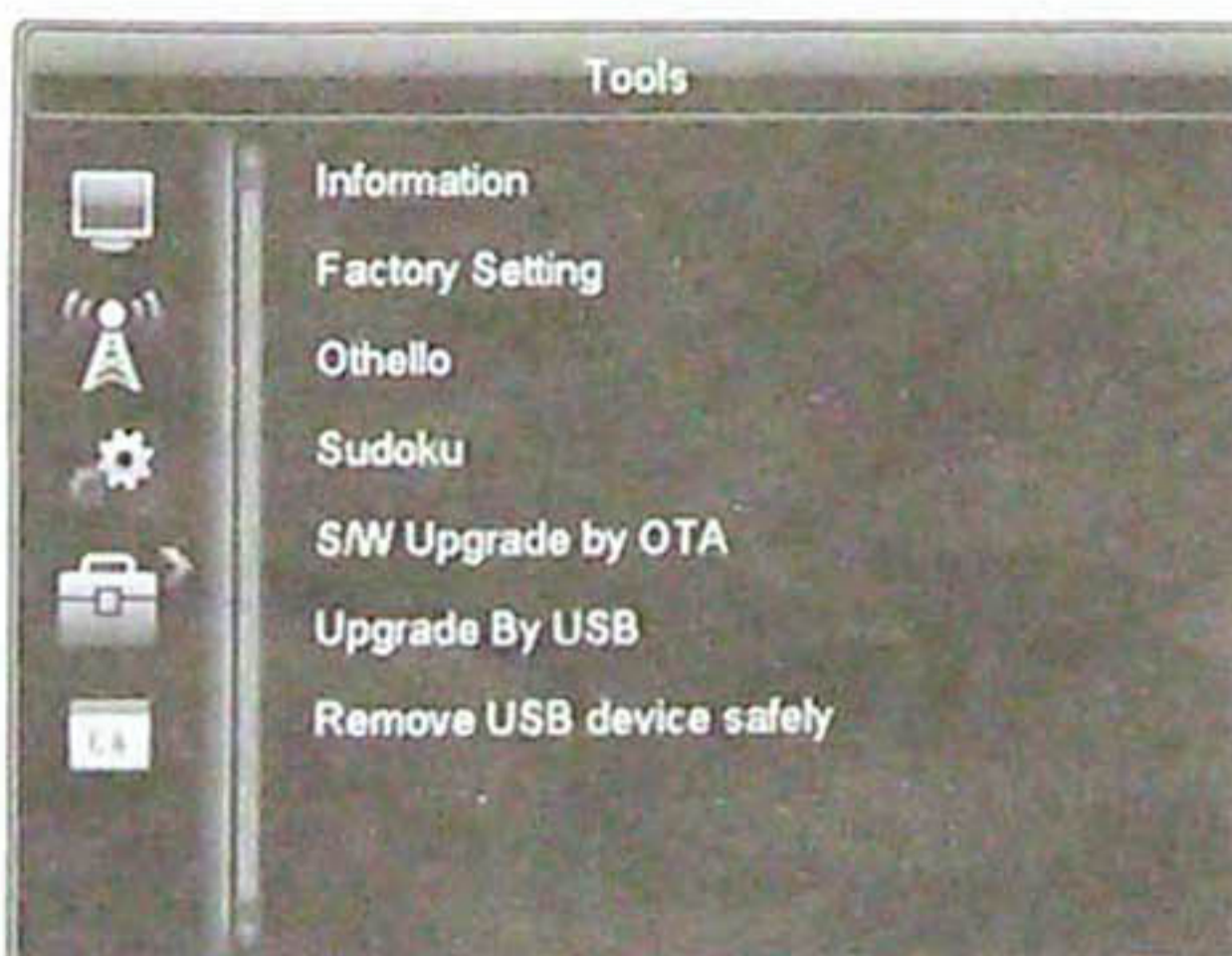
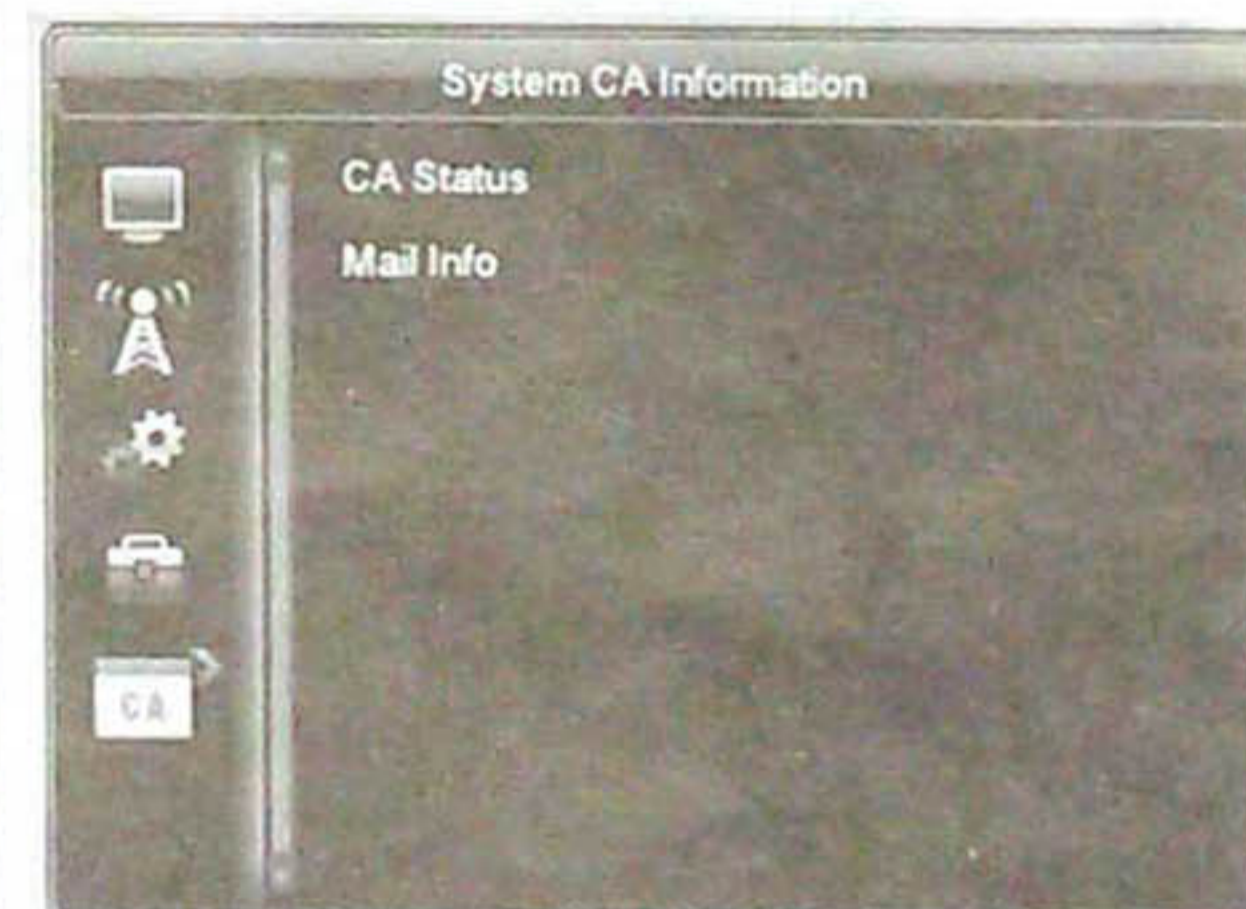
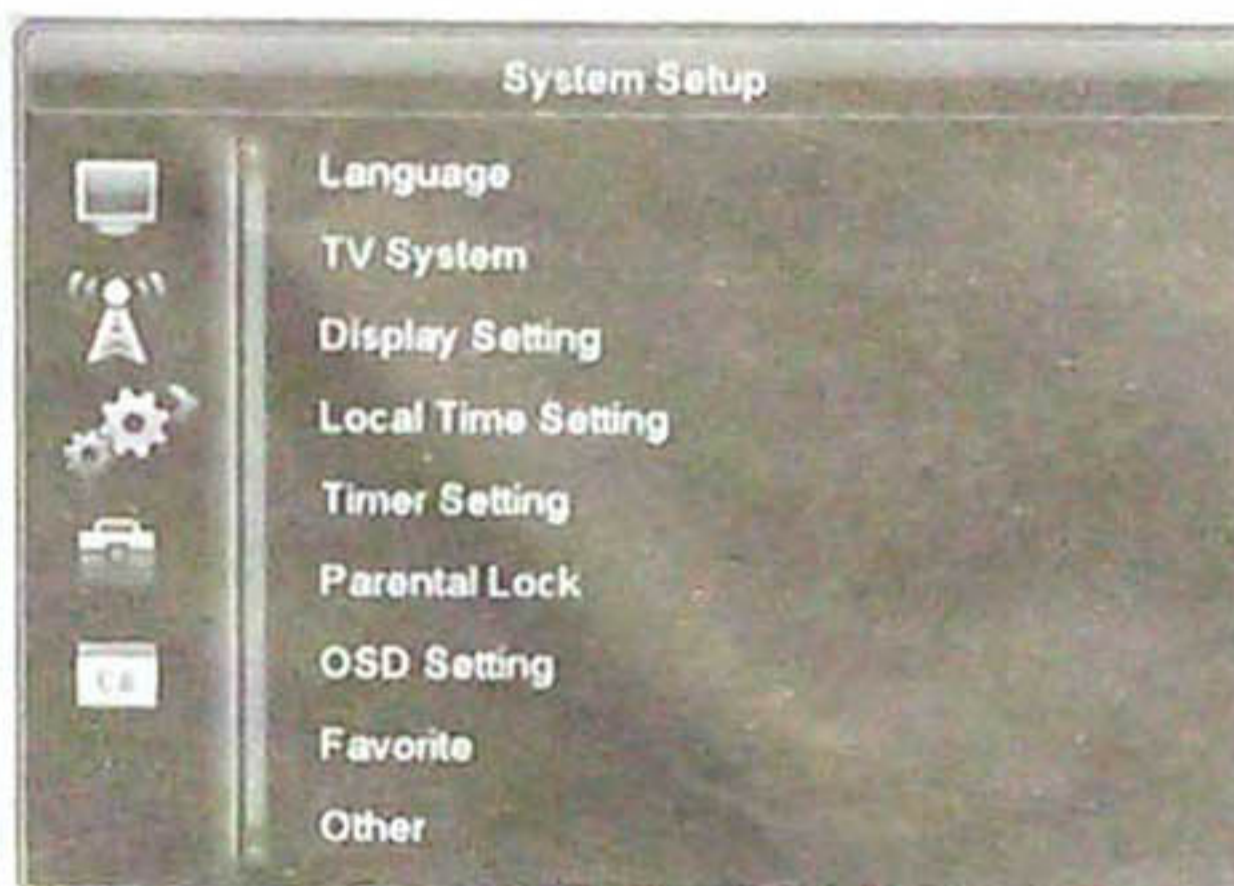
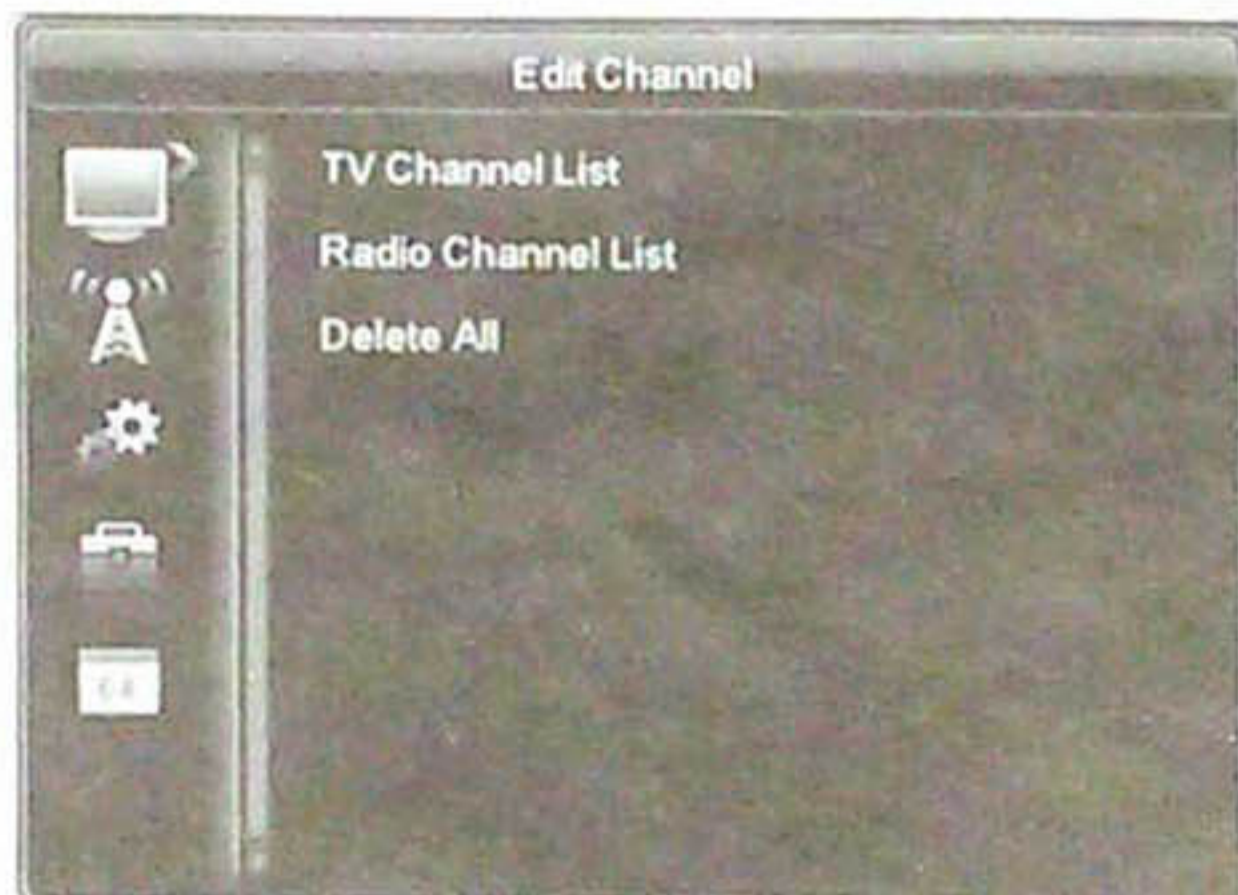
Use "UP" and "DOWN" to select your favorite program

In case of want to listen to the radio, switch the TV/Radio when Non-Menu Mode.

In case of want to record the program, press "record" for showing recording program.

4 Main Menu

If you want a further set to STB, on the mode of Non-Main Menu, press the shortcut Key **"MENU"** on the Remote Control Unit, to enter the main menu, there are five Menus included:



- ◇ **4.1 Edit channel:** the menu of channel edit
- ◇ **4.2 System Setup:** the menu of system setup
- ◇ **4.3 Installation:** the menu of installation
- ◇ **4.4 CAS :** the menu of CA system information
- ◇ **4.5 Tools :** the menu of tools

Please press “Up” and “Down” to select the model as you prefer. Press OK, then you can enjoy all the menu operation freely

4.1 Edit Channel

4.1.1 TV Channel List

Select “**TV Channel List**” when Edit Channels, press “OK” to confirm. Use “UP” and “DOWN” to highlight the programs. You would press the color button to easily manage your channels.

Color buttons function:

Green: Move

Blue: Edit

Yellow: FAV

Red: Lock

TV/Radio: Switch the TV List/ Radio List



4.2 System Setup

4.2.1 Language Settings

Select **“Language”**, and press **“OK”** to enter into Language **System Menu**. Then use **“LEFT”** and **“RIGHT”** to set each item under the submenu **“language”**, **“First Audio”**, **“Second Audio”**, **“Teletext”** as you prefer.



Attention: Audio Language and Subtitle should be supported by local authority.

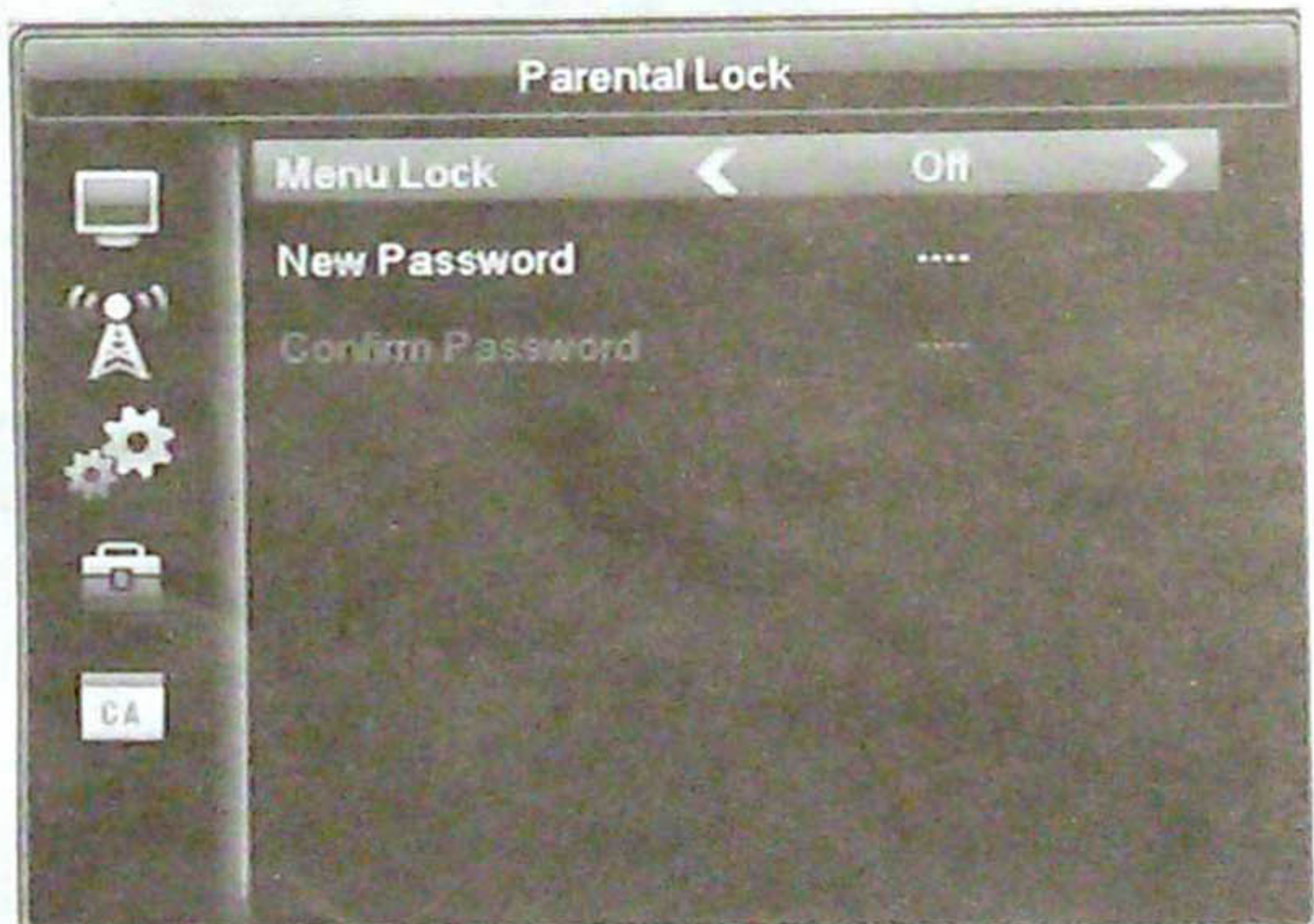
4.2.2 Local Time Settings

Select **“Local Time Settings”** when **System Setup**, and press **“OK”** to enter into time setting. According to your time zone, you would set GMT at your local setting.



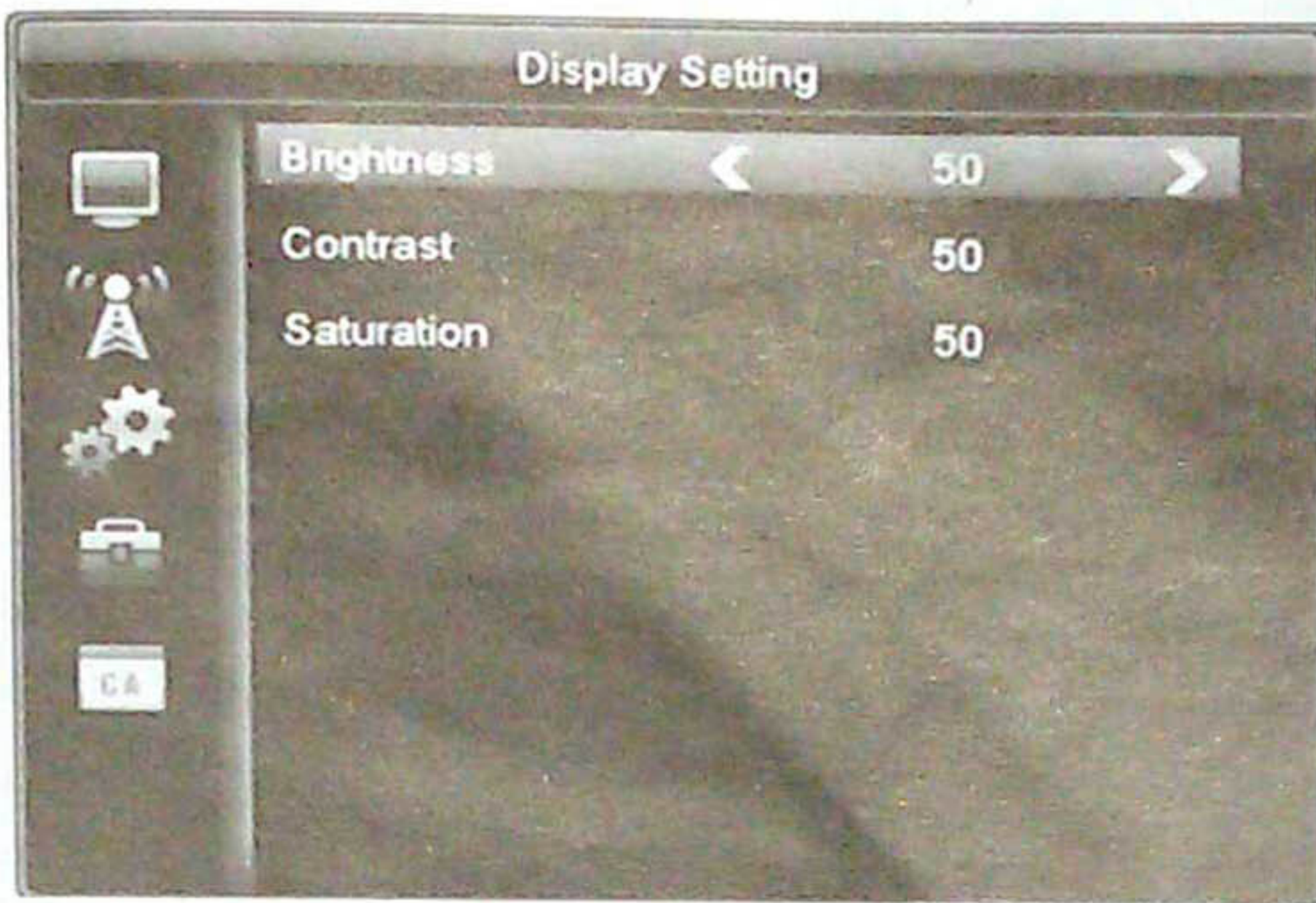
4.2.3 Parental Lock

Select **“Parental Lock”**, press **“OK”** to enter into **Parental Control**.



4.2.4 Display Setting

Select **“Display setting”**, press **“OK”** to enter into **Display setting**.

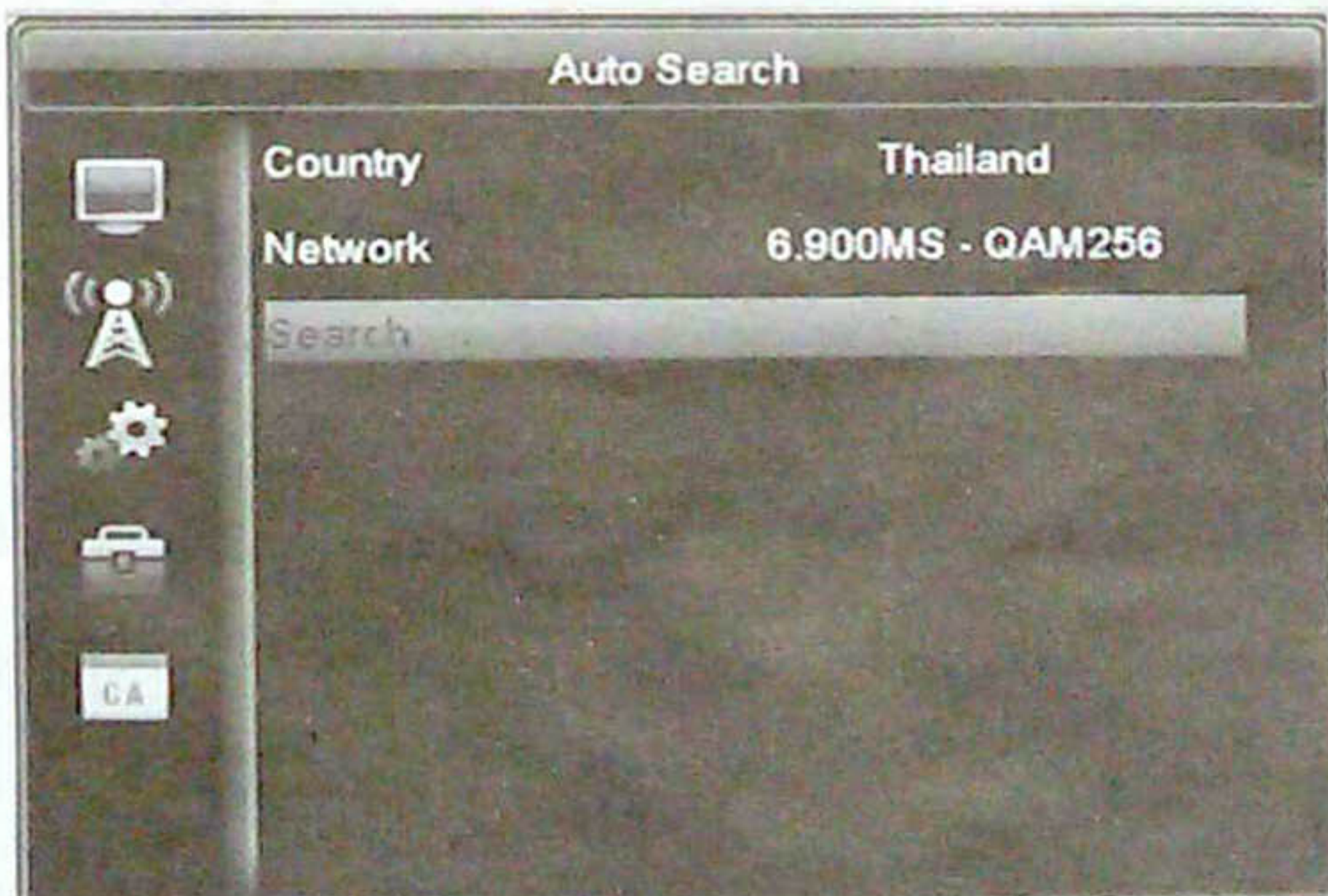


4.3 Installation

There are three search ways include automatic search, NIT search and manual search.

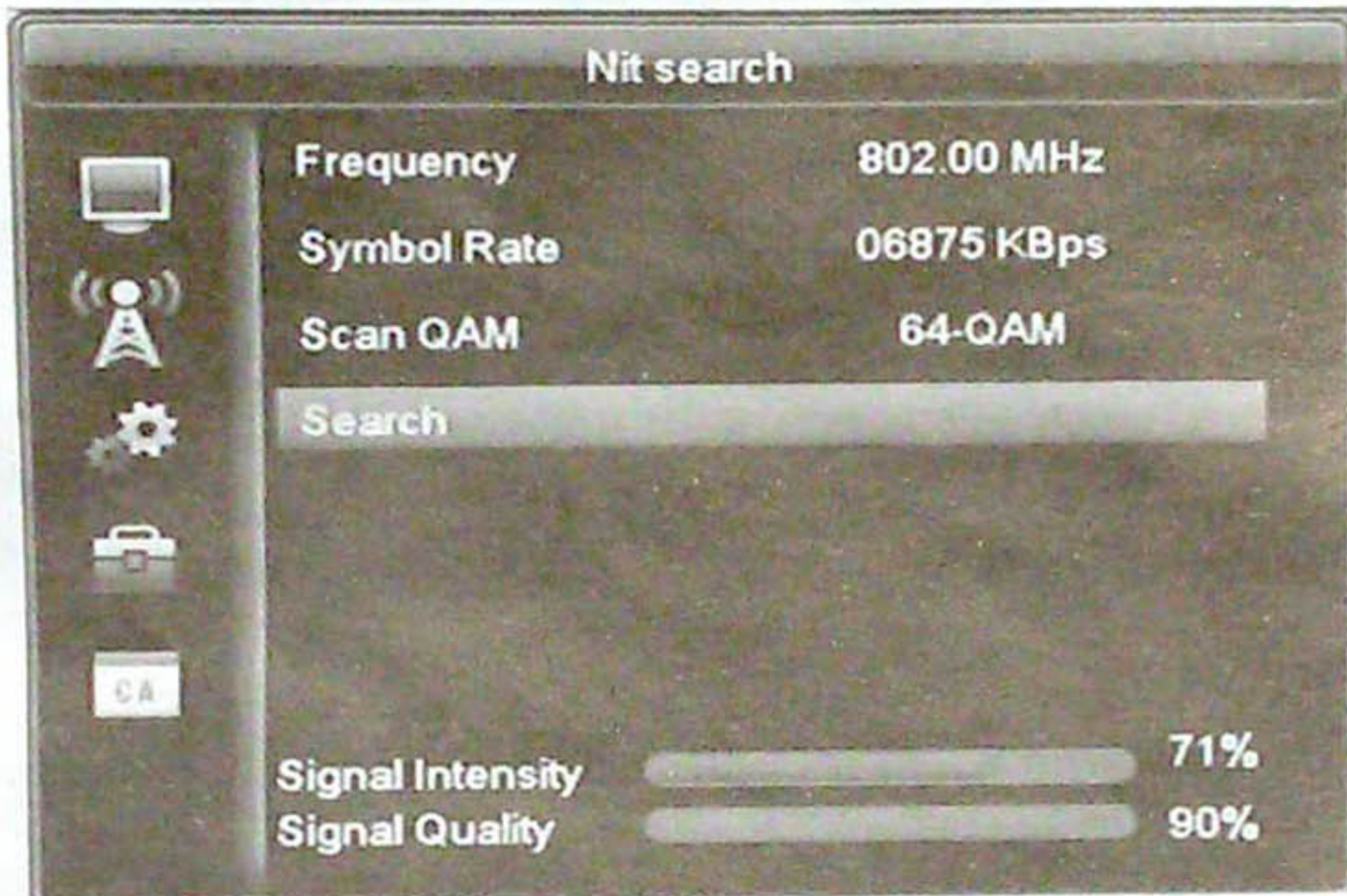
4.3.1 "Auto" search

The searching will spend long time to find all channels exist in reality. Press "OK" to stop automatic search.



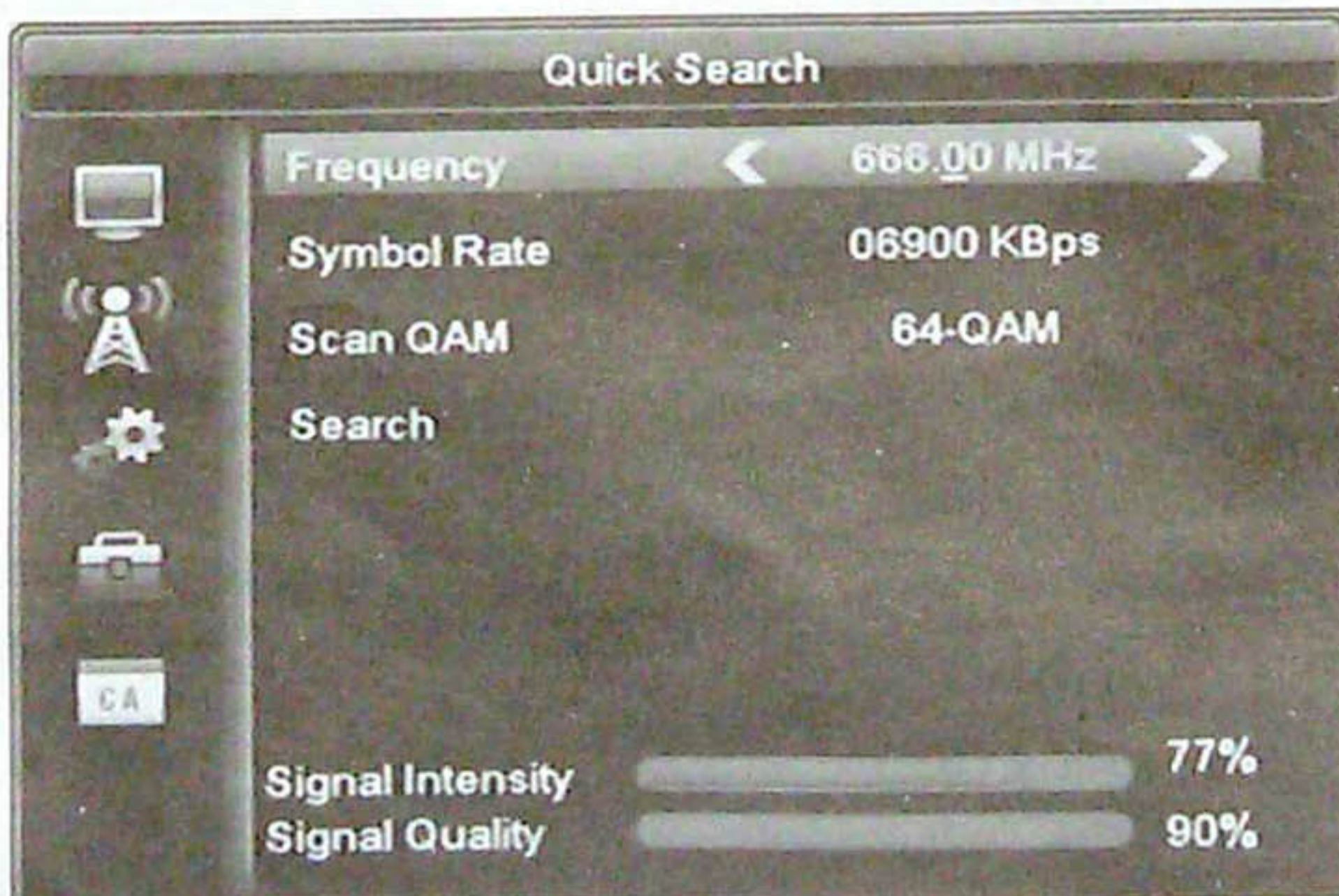
4.3.2 "NIT" search

According to your choice on digital frequency, you will search the channels exist in reality. Because of that, the time would be saved and the searching speed increase. Press "EXIT" to stop network search.



4.3.3 Quick search

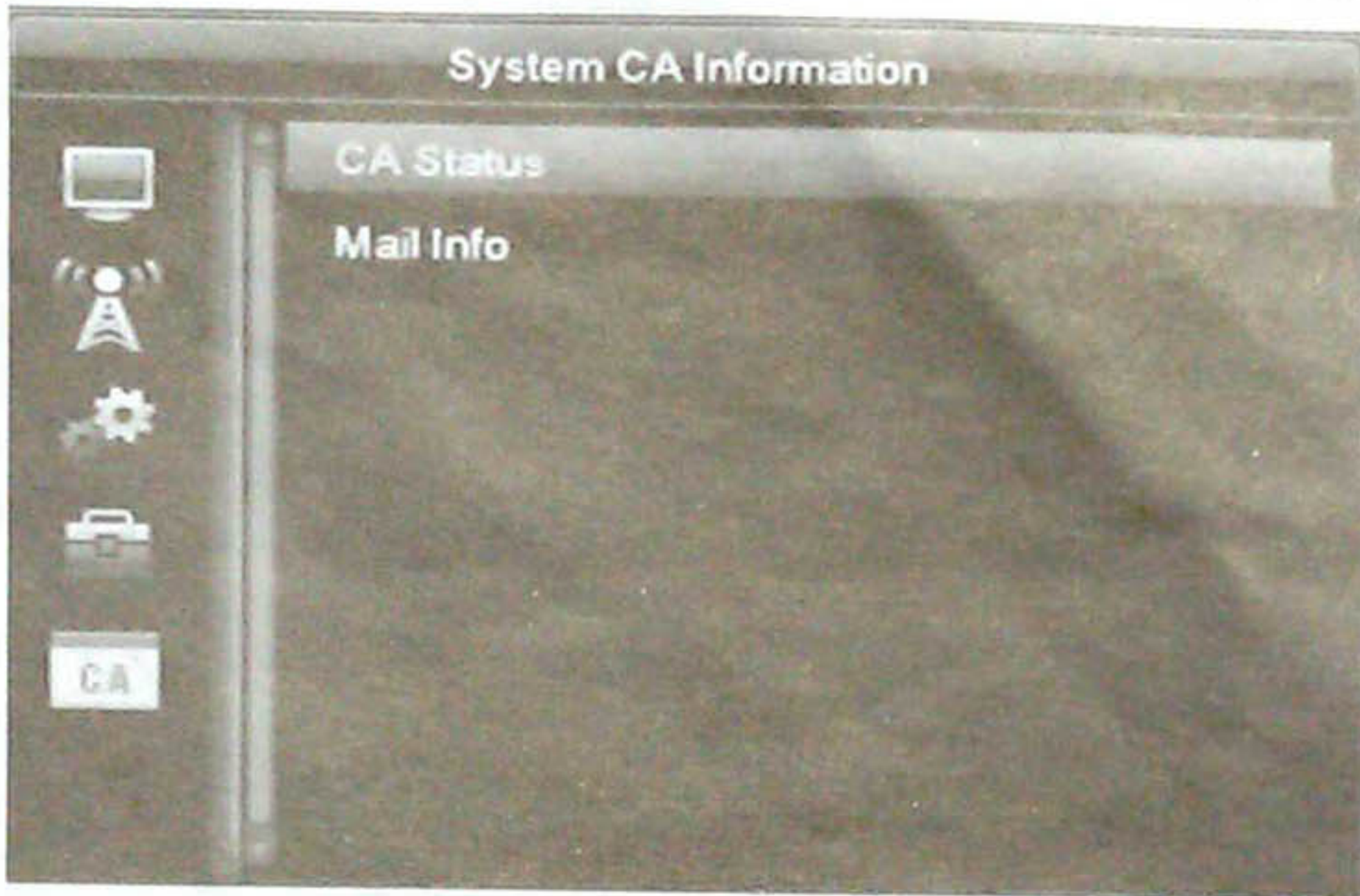
Only store current searched channel, then add the programs to your channel list



4.4 CAS

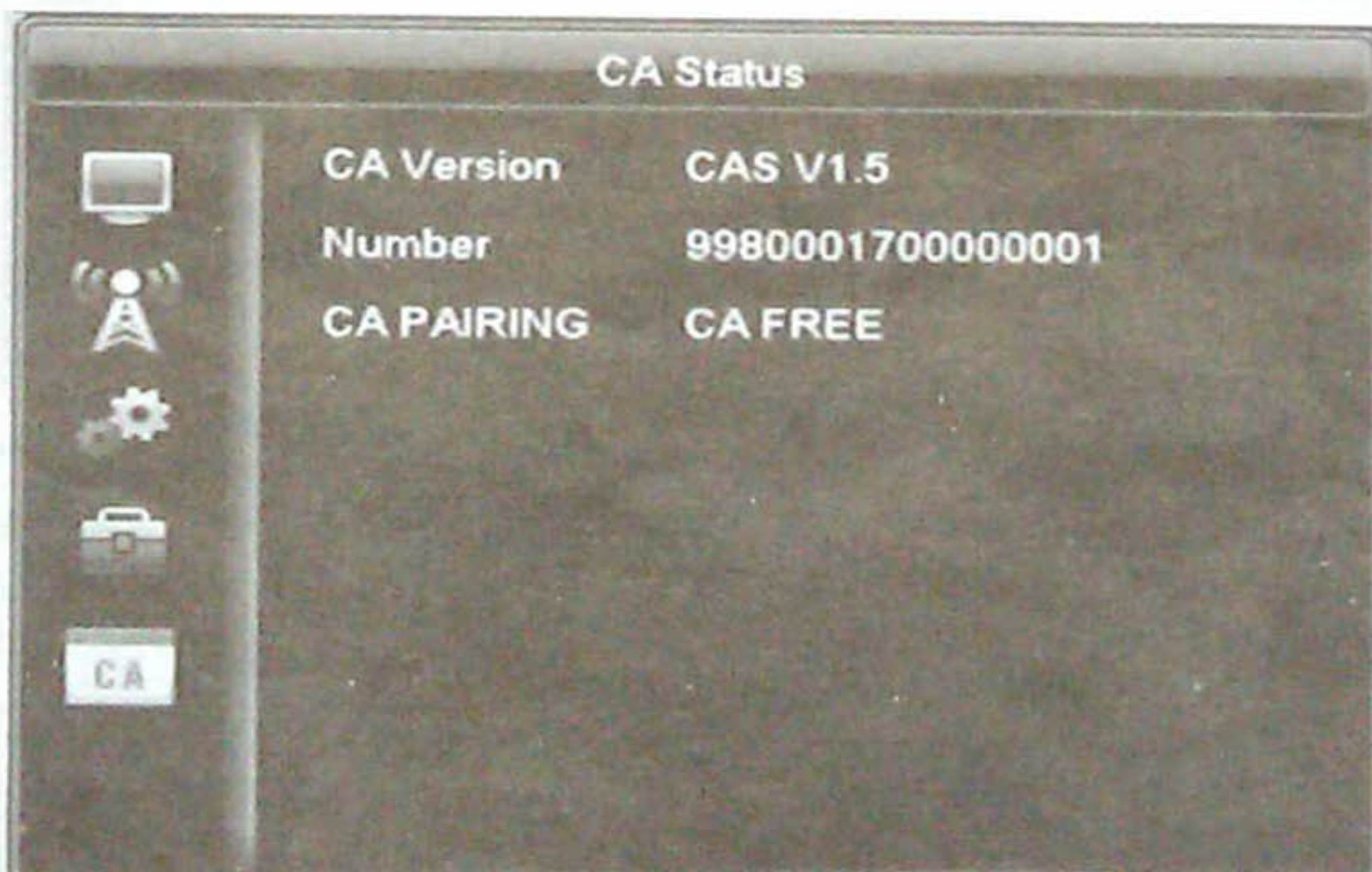
4.4.1 System CA Information

When entering into CA system, select "CA information" and you will catch relevant information about CA, such as serial number, revision, etc.



4.4.2 CA Status

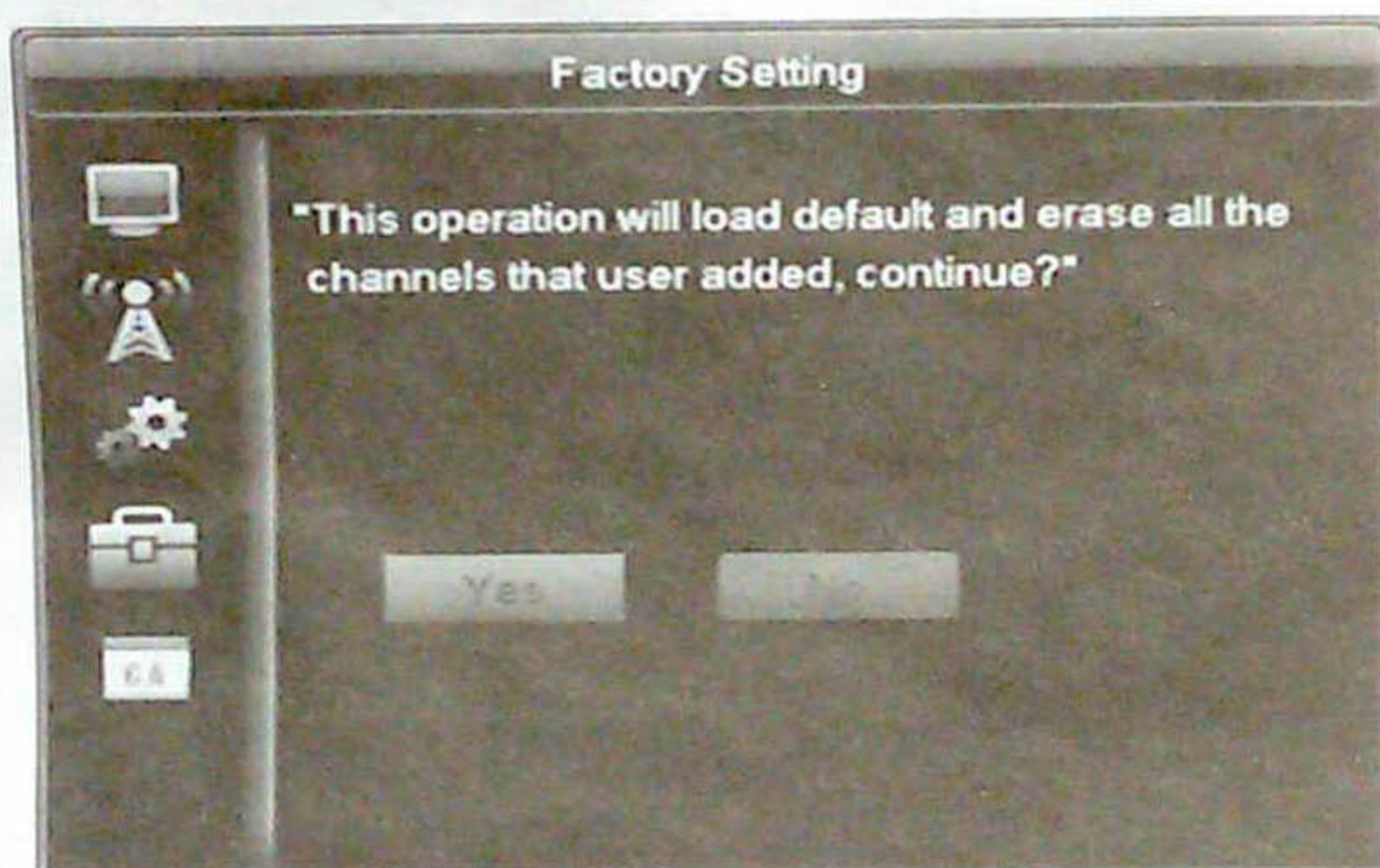
Select "CA Status", press "OK" to enter into Subscription Status.



4.5 Tools

4.5.1 Factory Setting

Select **Factory Setting** , Press "**Left**" to select "**Yes**" ,then press the password to execute. The default password is "0000".



5 Shortcut

5.1 AUDIO: Audio languages optional

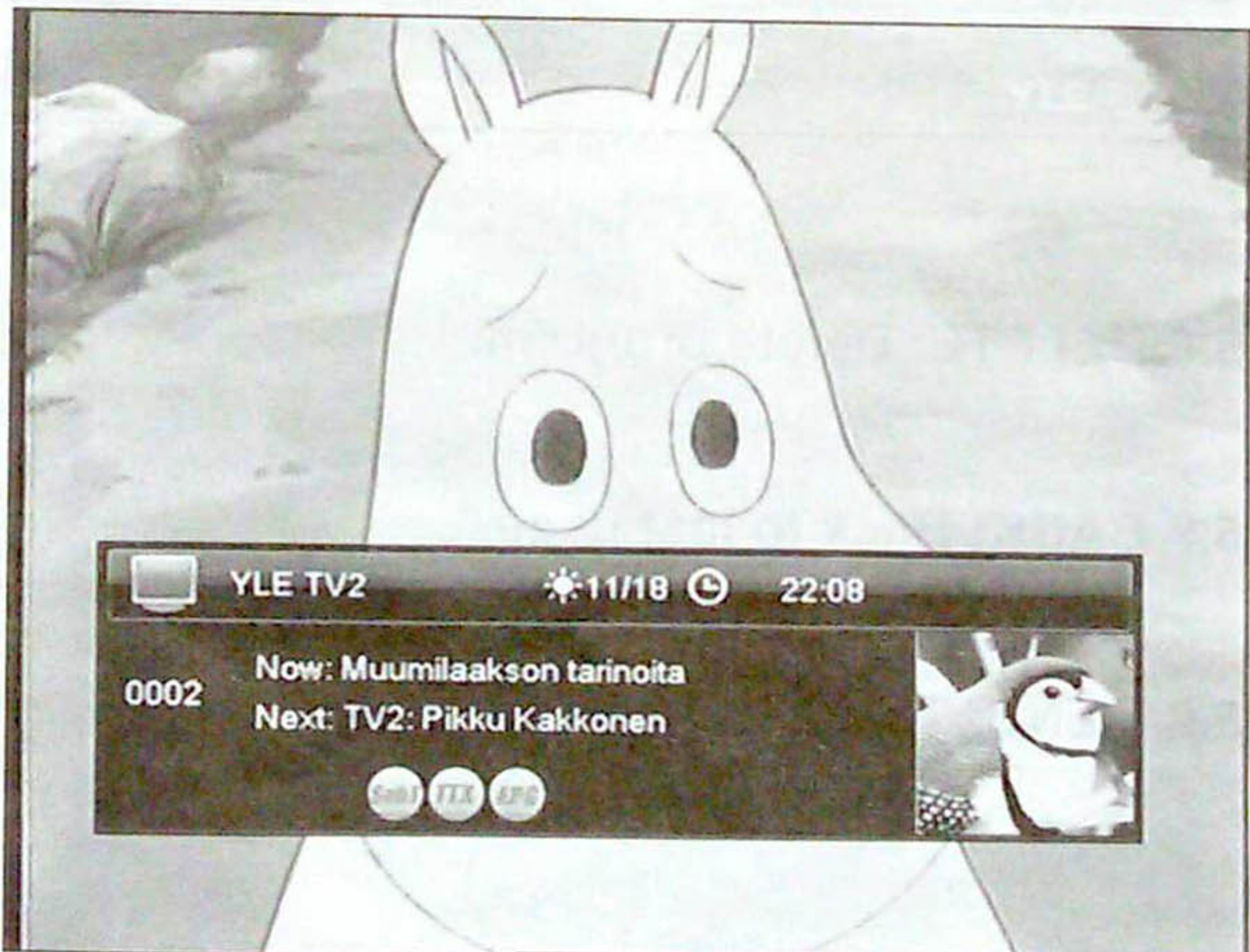
5.2 TEXT

Teletext page! Press the "TEXT" on the RCU to opens the Teletext function.



5.3 INFO (Information)

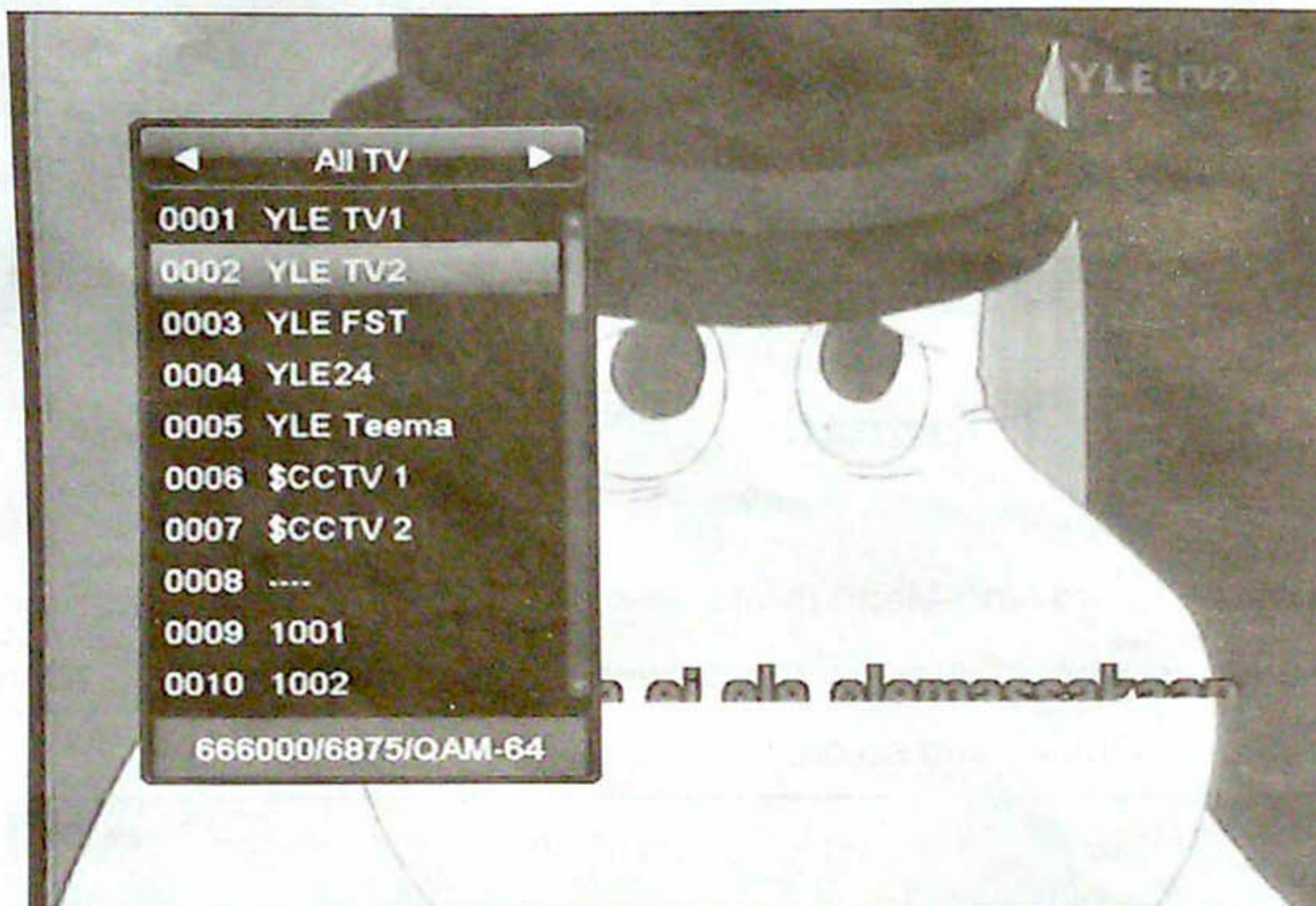
When entering into Non-Menu mode, and press "INFO", the current channel's information will be shown on the screen. Including Channel No, Channel Name, Signal Quality and so on..



5.4 EXIT: Exit section.

5.5 List

Press “List” on **RCU**, and use “Left” and “Right” to switch between **TV/RADIO/FAV**, and use “UP” and “Down” to select channels, finally press “OK” to confirm.



5.6 DELETE: Delete program.

5.7 BACK: Back to last page.

5.8 MENU: To enter into main menu.

6 Electronic Program Guide (EPG) :

Select "GUIDE" on RCU, and then press **OK** enter **EPG** Menu.

The following information can be found from the **EPG**.

- ❖ To display the program info you are watching.
- ❖ To view the weekly TV forecast and reserves your favorite program.

Use "**UP**" and "**DOWN**" select program and "**LEFT**" and "**RIGHT**" view the TV forecast.

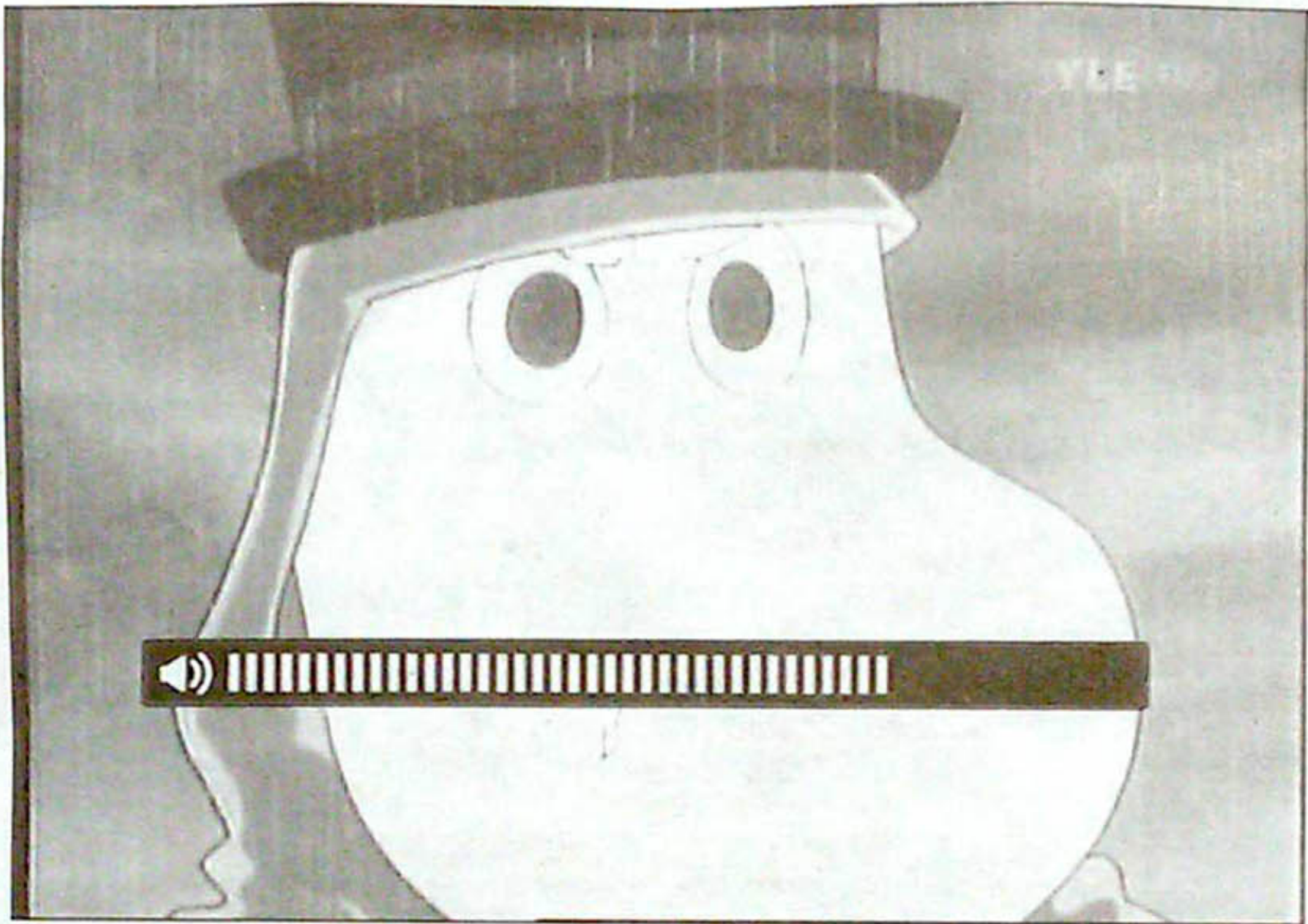


Please press "INFO" to show the EPG.



7 Volumes

Audio Volume can be adjusted using either the RCU or the STB front panel keys, for TV or Radio services. A handy Audio MUTE function is also available on the RCU.



8 Accessories

Following items are included in the packaging:

- 1 unit box
- 1 pc Remote Control Unit
- 2 pcs (AAA) Batteries
- 1 pc A/V cable
- 1 pc User Manual

IV. TROUBLE SHOOTING

Problem	Possible cause	What to do
The display on the front panel does not light up	Main cable is not connected	Check that the main cable is plugged into power socket.
Bad Picture/ Blocking error	Signal is too strong	Try a signal attenuator to the RF In port
No picture or sound	Poor signal quality or bad interconnections	Check the antenna system Check cable connections.
No sound and picture, but the front panel shows time	The unit is in standby mode	Press the key on the RCU
The RCU is not working	batteries exhausted	Replace batteries
The remote control will not operate your IP BOX	(1) The batteries in your remote control need replacing (2) There is an obstruction blocking the signal path between the remote control and the box.	(1) Replace the batteries (2) Check that there is nothing in the way of the path between the remote control and the IP boxes
The recording function is not working at all	The hard disk problem The connection problem The signal problem	Check the connected cable Require the resell to check and solve this problem.

Note: if you cannot solve the problem by referring to the above trouble shooting, please contact your re-seller.

V. SPECIFICATIONS

TUNER	
Input Frequency Range	51~858MHz
Input Signal Level Range	-73 to -2dBm
Input Impedance	75Ω
Demodulation	QAM16~QAM256
SymbolRate	1~7Mbps
Standard	ISO/IEC 13818-1
VIDEO DECODING	
Transport stream	ISO/IEC 13818-2
Profile Level	MPEG-2 MP@HL, H.264,
Aspect Ratio	4:3, 16:9 Letter box Full screen, Center screen, 16:9 Letter box
Video Synchronization Scope	300mVp-p
Video Resolution	720×576
AUDIO DECODING	
Standard	ISO/IEC 13818-3
Audio Decoding	MPEG-1 layer I/II, MPEG-2 layer II
Audio Mode	Single/Dual mono/Stereo
Sample Frequency	16/24/32/44.1/48 kHz
Audio Output Level	0-6 dBu
Volume Level	50 Levels
PROCESSOR AND MEMORY	
CPU	M3281P

DDRAM Memory	64Mbytes
FLASH Memory	8Mbytes flash
REAR PANEL	
USB Interface	USB 2.0 ×1
RF Input Connector	F PORT
AV Output	CVBS×1, A-L×1, A-R×1
S/PDIF Digital Audio Output	1*Coaxial
IR IP box	38KHz
Socket	CA Insertion Socket
POWER	
Input voltage	DC 5V/1.2A
Power consumption	6W max, standby<1W
AMBIENT	
Operation temperature	0-40°C

Caution : Do not use this IP BOX where contact with or immersion in water is a possibility. Equipment should not be placed on objects, such as vases, which filled with liquids.

If use the power supply plugs and appliance couplers as a disconnect device, disconnect device shall be easy to operate.

The batteries shall not be exposed to excessive heat such as sunshine, fire or the like.