

TABLE OF CONTENTS

TABLE OF CONTENTS	1
1.0 INTRODUCTION	1
1.1 Safety Instructions	1
1.2 Storage	2
1.3 Equipment Set-up	2
1.4 Features & Accessories	3
2.0 YOUR RECEIVER	4
2.1 Front Panel	4
2.2 Rear Panel	5
2.3 Remote Control Unit	6
3.0 CONNECTIONS	8
3.1 Connecting to Terrestrial Antenna	8
3.2 Connecting to TV	8
3.3 Connecting to Digital Audio Amplifier	8
4.0 MAIN MENU	9
4.1 Favorites	9
4.2 HD TV Settings	9
4.3 Parental Control	10
4.4 Installation	11
4.5 System Setting	12
A.1 TROUBLESHOOTING	14
A.2 SPECIFICATIONS	15

1.0 INTRODUCTION

1.1 Safety Instructions

DO NOT INSTALL YOUR RECEIVER:

- In a closed or poorly ventilated cabinet;
- Directly on top of or under any another equipment;
- On a surface which might obstruct the ventilation slots.

DO NOT EXPOSE THE RECEIVER OR ITS ACCESSORIES:

- To direct sunlight or near any other equipment that generates heat;
- To rain or intense moisture;
- To any shock which may cause permanent damage to your receiver;
- To any magnetic objects, such as loudspeakers, transformers, etc.;
- To intense vibration;
- Never open the cover. It is dangerous to touch the inside of the receiver due to high voltage currents and possible electrical hazards. Your warranty will be void if the receiver has been opened.
- When the receiver is not used for a long period of time, you should unplug the power cord from the wall socket.
- Do not use a damaged power cord. It may cause a fire or an electrical shock.
- Do not touch a power cord with wet hands. It may cause an electric shock.
- Place the receiver in a well-ventilated environment.
- When you are connecting the cables, be sure that the receiver is disconnected from the mains supply voltage.
- Do not use your receiver in a humid environment.

Make sure you read this user manual before installing your receiver.

1.2 Storage

Your receiver and its accessories are stored and delivered in a packaging designed to protect against electric shocks and moisture. When unpacking it, make sure that all the parts are included and keep the packaging away from children. When transporting the receiver from one place to another or if you are returning it under warranty make sure to repack the receiver in its original packaging with its accessories. Failing to comply with such packaging procedures could void your warranty.

1.3 Equipment Set-up

We recommend you consult a professional installer to set up your equipment. Otherwise, please follow the instructions below:

- Refer to the user manual of your TV and your antenna.
- Make sure that the SCART cable and outdoor components are in a good condition and the SCART connections are well shielded

This manual provides complete instructions for installing and using this receiver. The following symbols will serve as follows:

 **WARNING:** Indicates warning information.



- TIPS** Indicates any other additional important or helpful information.
- MENU** Represents a button on the remote control or the receiver (Bold Character)
- Move to* Represents a menu item within a window. (Italic Character)

1.4 Features & Accessories

Features

- Use ST HDTV chip;
- MPEG-2 HD & H.264 HD Support;
- DVB-T standard HDTV Receiver;
- Receive standard DVB-T signal which modulate by COFDM;
- Fully compatible with Australian Frequency Standard
- Multiple display mode: 1080i/ 720p/ 576p/ 576i;
- Output High Definition Digital Video by HDMI;
- Output HD Video by YPbPr;
- Output SD Video by CVBS ;
- Audio output Dolby AC3 by S/PDIF(Coaxial & Optical);
- Output Stereo by RCA;
- 1000 Memory Channels;
- Simple & easy on screen set up;
- Multiple OSD Language;
- Support Parental Control (Channel Lock);
- Support LCN(Logic Channel Number);
- Favorite program setting;
- Games;
- Upgrade software through USB port
- Display EPG/TTX/Subtitle etc.;
- Low power consumption
- Wider bound input power:90 ~ 250V 50/60HZ;

Accessories:

- 1 x User's Manual
- 1 x Remote control unit
- 1 x AV cable
- 2 x Batteries (AAA type)

Note: The batteries should not be recharged, disassembled, electrically short-circuited or be mixed or used with other types of batteries.

2.0 YOUR RECEIVER

2.1 Front Panel

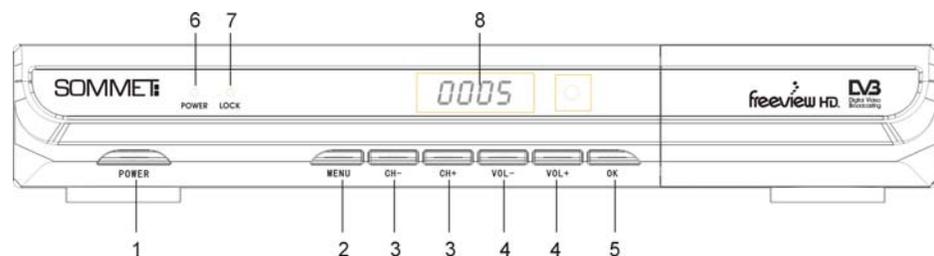


Figure 1

1. **POWER** Button

Turn the receiver on or standby.

2. **MENU** Button

Show the main menu or return to previous menu.

3. **CH-/CH+** Button

Moves the cursor up/down in Menu state. Change the current program to the previous/next program in No-menu state.

4. **VOL-/VOL+** Button

Increases/decreases the volume levels in No-Menu state. Change the setting values in specific Menu item.

5. **OK** Button

Executes the selected item in the menu screen, or confirm the input value.

6. **Power** indicator.

7. **Lock** indicator.

8. **Display (4-digi 7-segment)**

4-digi displays channel information. In Standby mode the 7-segment displays local time.

2.2 Rear Panel

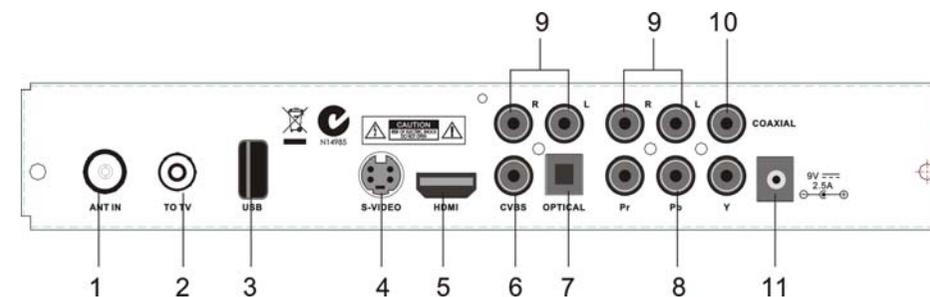


Figure 2

1. **ANT IN**

RF Modulator (female part). If you have an additional antenna (cable or terrestrial) as well, and you do not use a scart cable to connect the receiver to the TV, then your additional antenna has to be connected here.

If you do use a scart cable to connect the receiver to your TV, the additional antenna can be put directly into your TV.

2. **TO TV**

Connect the receiver to your TV, using a coax cable.

3. **USB**

USB2.0 slot.

4. **S-VIDEO**

This jack connects to a TV or VCR that accepts S-Video input.

5. **HDMI**

HDMI output.

6. **CVBS**

AV Output.

7. **OPTICAL**

Use this optical output to connect your receiver to the input of your digital audio amplifier.

8. **Y, Pb, Pr**

Y/Pb/Pr output.

9. **AUDIO Right and Left**

These connectors give you the possibility to connect the audio signal to an external amplifier, or the audio input of your TV.

10. **COAXIAL**

Connect with Dolby Digital decoder audio-visual equipment.

11. **External DC power outlets.**

2.3 Remote Control Unit

All features of the set-top box can be controlled with the remote controller.



- A. **
Turn the receiver On/Standby.
- B. **
Mute audio output of the receiver.
- C. NUMERIC KEY (0-9)**
Controls the numerical operation and especially changes program directly.
- D. List**
Enter the TV Channel list.
- E. BACK**
Turn back to the last channel.
- F. MENU**
Show the main menu or turn back to previous menu.
- G. EPG**
Show the EPG (Electronic Program Guide) (during no-menu state only).
- H. INFO**
Show information on the current channel.
- I. EXIT**
Exits from the menu or sub-menu and cancels the progressing function if applicable.
- J. **
Increase/decrease the volume level in No-menu state. Enter the next sub-menu or back to previous menu.

K.

Change the current program to the previous/next program in NO-menu state. Move the cursor to upward/downward in Menu state.

L. OK

Activate the highlighted menu item. Display channel list according to TV/Radio Mode in No-menu

state.

M. V +/-

Increases or decreases the receiver volume level.

N.

Page up and down in menu list.

O. CH+/CH-

Changes the current program to the previous/next program in NO-menu state

P. TEXT

Show the list of Teletext languages the current channel supports.

Q. SUB

Shows the list of subtitled languages the current channel supports.

R. TTX

Used for MHEG5 in future.

S. LANG

Display Subtitle.

T. TV/R

Select TV or RADIO mode.

U. FAV

Enter the Favourites menu.

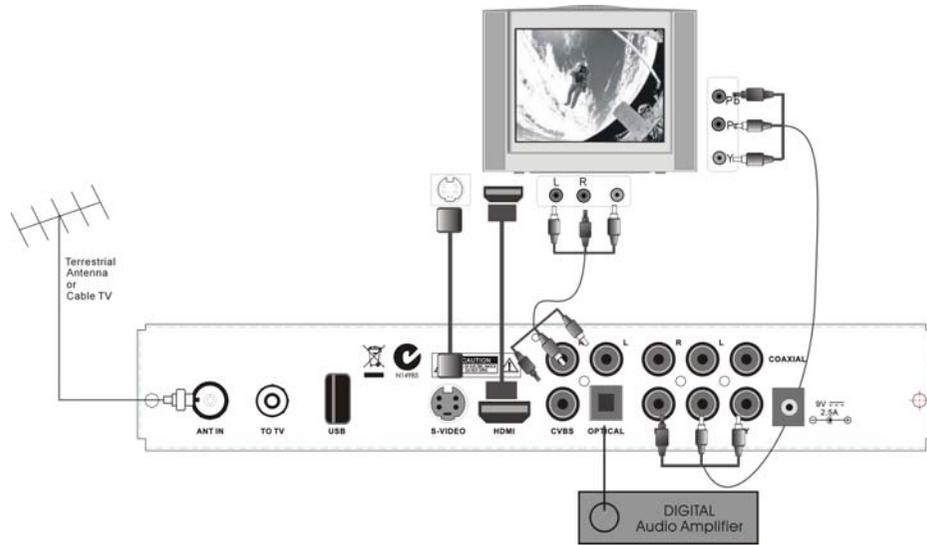
V. FORMAT

Display the video format.

W. FREEZE

Freeze the program.

3.0 CONNECTIONS



3.1 Connecting to Terrestrial Antenna

To receive the broadcast signal, the terrestrial antenna cable should be connected to the ANT IN Connector at the back of the receiver.

3.2 Connecting to TV

1. Connect the YPbPr connector at the back of the receiver to the YPbPr input connector on your TV set
2. Connect the Audio Left and Right RCA connectors at the back of the receiver to the Audio Left and Right input connectors on your TV set or audio amplifier.
3. Connect the HDMI connector at the back of the receiver to the HDMI input connector on your TV set.
4. Connect the receiver's S-VIDEO output connectors to the TV's S-VIDEO input connectors, and the receiver's Audio L/R output connectors to the Audio L/R input connectors of the TV.

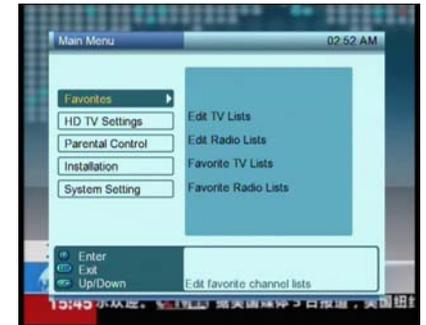
3.3 Connecting to Digital Audio Amplifier

Connect S/PDIF connector at the back of your receiver to appropriated input of your Digital Audio Amplifier.

4.0 MAIN MENU

Press the MENU button, the MAIN MENU screen will appear.

All the important settings and features of your receiver can be operated in Main Menu. The Main Menu consists of four sub-menus: "Favorites", "HD TV Settings", "Parental Control", "Installation" and "System Setting".



4.1 Favorites

In MAIN MENU screen, press ▲ ▼ buttons to select Favorites, which consists of the sub-menus "Edit TV lists", "Edit Radio Lists", "Favorite TV Lists" and "Favorite Radio Lists".

4.1.1 Edit TV Lists

In this menu, you can add the channels to the different favorite groups and rename the favorite groups.

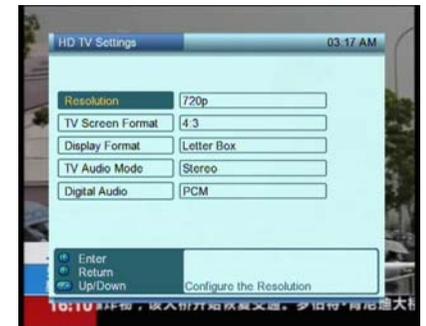
The operation of "Edit Radio Lists" is the same as "Edit TV Lists".



4.2 HD TV Settings

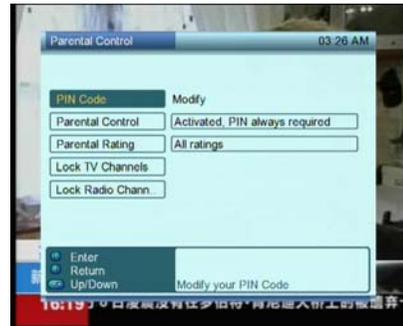
In MAIN MENU screen, press ▲ ▼ buttons to select HD TV Settings and press ► or OK key to enter, which consists of the sub-menus "Resolution", "TV Screen Format", "Display Format", "TV Audio Mode" and "Digital Audio".

In this menu, you can set resolution, TV screen format, display format, TV audio mode and digital audio by pressing ► and ▲ ▼ buttons.



4.3 Parental Control

In MAIN MENU screen, press ▲ ▼ buttons to select Parental Control and input the password, then press ► or OK key to enter, which consists of the sub-menus “PIN Code”, “Parental Control”, “Parental Rating”, “Lock TV Channels” and “Lock Radio Channels”.



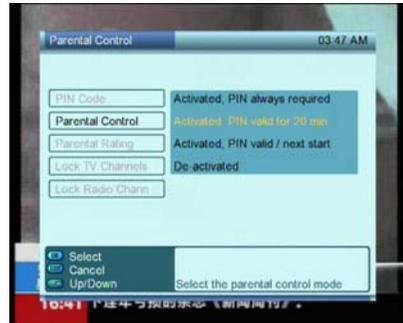
4.3.1 PIN Code

Select **PIN Code**, and press ► key to enter **Modify PIN** menu, in this menu, you can input the new PIN and confirm the new PIN, select **Accept Modification**, then press **OK** button to modify the PIN.



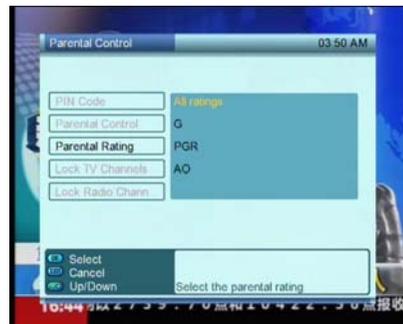
4.3.2 Parental Control

Select **Parental Control**, and press ► key to enter, in this menu, you can select the parental control mode.



4.3.3 Parental Rating

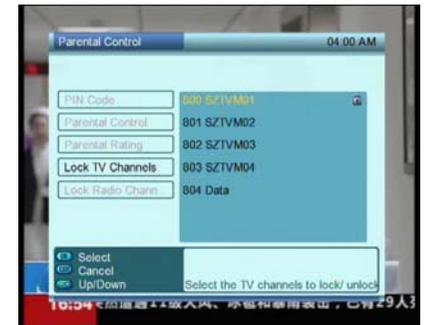
Select **Parental Rating**, and press ► key to enter, in this menu, you can select the parental ratings.



4.3.4 Lock TV Channels

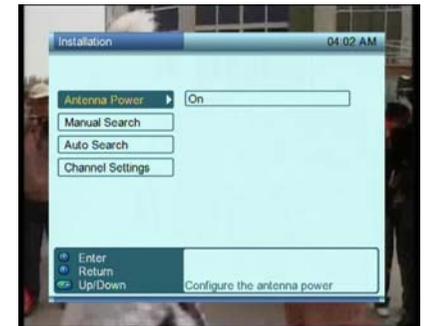
Select **Lock TV Channels**, and press ► key to enter the TV channel list, select the channel and press OK button to lock it.

The operation of “**Lock Radio Channels**” is the same as “**Lock TV Channels**”.



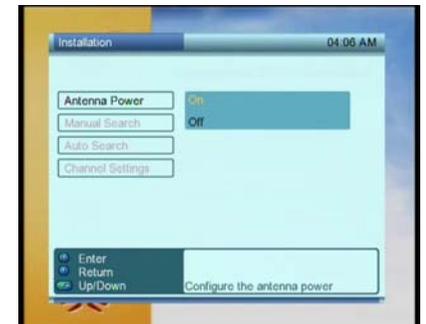
4.4 Installation

In MAIN MENU screen, press ▲ ▼ buttons to select **Installation** and press ► or OK key to enter, which consists of the sub-menus “**Antenna Power**”, “**Manual Search**”, “**Auto Search**” and “**Channel Settings**”.



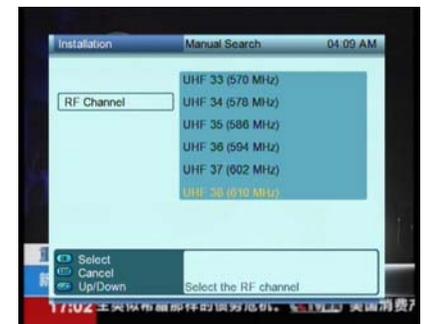
4.4.1 Antenna Power

You can set antenna power on or off.



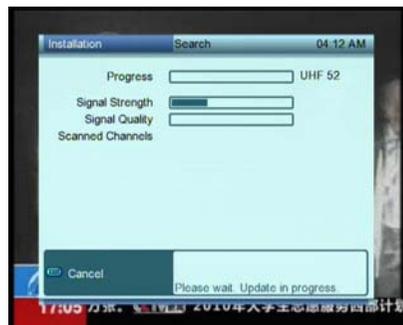
4.4.2 Manual Search

You can select the RF channel and press OK button to search channels.



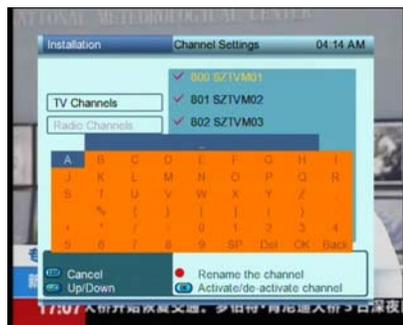
4.4.3 Auto Search

Select **Auto Search**, and press ► key to start auto searching.



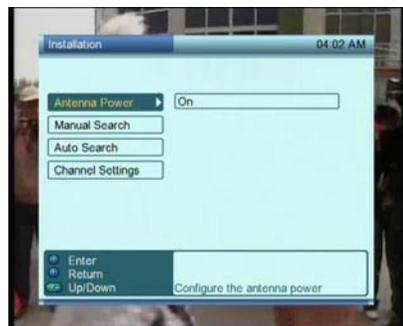
4.4.4 Channel Settings

In this menu, you can select the channels and press RED button to rename the channels.



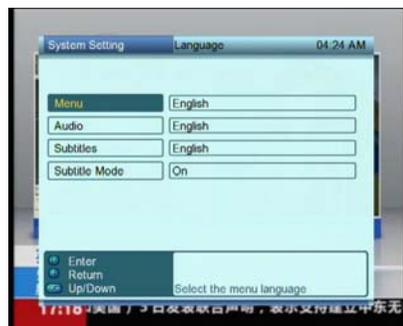
4.5 System Setting

In MAIN MENU screen, press ▲ ▼ buttons to select **System Setting** and press ► or OK key to enter. It consists of the sub-menus “**Language**”, “**Time**”, “**Banner**”, “**Product Info**” and “**Factory Reset**”.



4.5.1 Language

Select **Language** and press ► button to enter **Language** menu, in this menu, you can select menu language, audio language, subtitles language and subtitle mode.



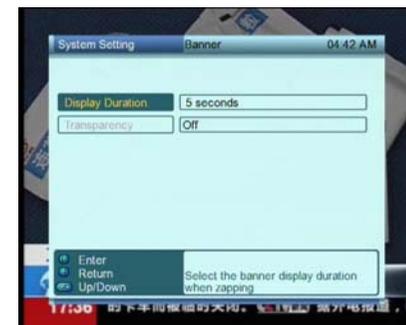
4.5.2 Time

Select **Time** and press ► button to enter **Time** menu, in this menu, you can set the time offset, the time format, the power off time and power on time.



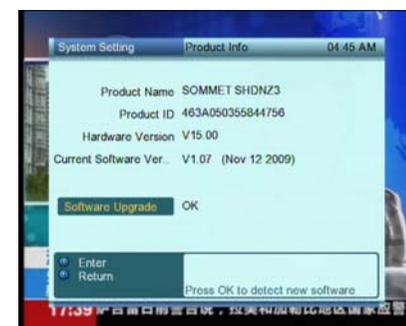
4.5.3 Banner

You can set the banner display duration time and set the transparency on or off.



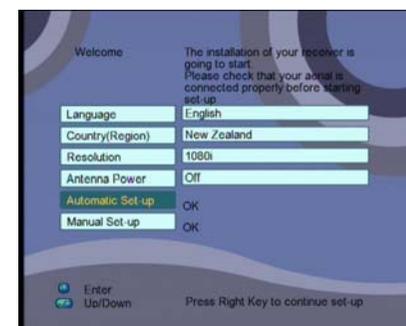
4.5.4 Product Info

In this menu, you can view the product information and upgrade the software.



4.5.5 Factory Reset

Select **Factory Reset**, and input the password, then press ► button to reset the factory settings. After the resetting complete, the machine will restart, the welcome menu displays on the screen, you can set up language, country, resolution, antenna power, automatic set-up and manual set-up.



A.1 TROUBLESHOOTING

There may be various reasons for the abnormal operation of the receiver. Check the receiver according to the procedures shown below. If the receiver does not work properly after checking it, please contact the dealer. Don't open the receiver cover. This may cause a dangerous situation.

Symptom	Cause	Remedy
The LED display on front panel does not light up.	The power cord is not plugged in.	Check that the power cord is plugged in to the wall outlet.
No picture or sound	Wrong connection of the Audio/ Video output of the receiver to TV. Audio muting. TV power off.	Connect the Audio/ Video output of the receiver to TV correctly. Press the MUTE button Turn TV on.
No picture	The receiver can't receive the signal Incorrect values of some tuner parameters Wrong direction of the antenna.	Check the antenna cable, replace the cable, or connect the cable to the receiver tightly. Set the values of the tuner parameters correctly in the installation menu. Check the antenna connect.
The remote control does not work	The batteries of the remote control are not inserted or exhausted	Check whether the batteries are inserted correctly in your remote control. Check the batteries, and if exhausted replace the batteries in the remote control.

A.2 SPECIFICATIONS

1. Tuner & Channel

Input Connector	IEC169-2
Input Singal Frequency	174MHz ~ 858MHz VHF-High : 174MHz to 468MHz UHF : 468MHz to 858MHz
Input impedance	75 Ohms
Input Signal Level	-90 dBm~-20 dBm
IF Bandwidth	7 MHz
Channel Distributing	Australian Channel Standard
Modulation	COFDM

2. Capacity

Main Chip	STi7100 (266MHz)
EEPROM	8K Bytes (1000 Memory Channels)
Flash memory	8M Bytes NOR FLASH
SDRAM	128M Bytes DDR

3. MPEG

Profile Level	CD ISO/IEC 13818-2, MPEG-2 MP@HL, H.264/AVC MP@HL4.1
Aspect ratio	4:3 / 16:9 / Pan scan / Letterbox

4. Digital audio

Transport Stream	ISO/IEC 11172-3
Audio Decoding	MPEG-1/2 Layers II DOLBY AC3
Output Type	STEREO, S/PDIF
Volume control	20 Levels adjustment And Mute Function

5. Connector

RF Input	1 × IEC169-2, Female
RF Output	1 × IEC169-2, Male
Digital Output	1 × HDMI (High-Definition Multimedia Interface)
Audio output	2 × RCA (STEREO) 1 × CONXIAL, 1 × OPTICAL (S/PDIF)
Video output	1 × RCA (CVBS) 3 × RCA (YPbPr)
USB	1× USB 2.0

6. Software

OS	OS21
Middleware	NZ Freeview MHEG-5
Application	YES
Fonts	English(American) (Default)

7. Module

Channel Manager	YES
Favorite Program	YES

Database	YES
EPG	YES
Game	YES
TTX /SUBTITLE	YES

8. Front Panel

Functions	Basic controls by the keys Power, lock and stand-by display Program No. display, etc. Power on/off
Infrared Remote Control	All operations

9. Environmental conditions

Input Voltage	90~250V
Power consumption	Max. 15W
Stand-by Power	1W
Operating temperature	0~45 C