



**Home2US**  
Communications

## **Digital Set-Top-Box**

IRDETO CAS Satellite Receiver  
HOME2US 8800 IR  
USER'S MANUAL



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### 1. PRE-INSTALLATION CHECKUP

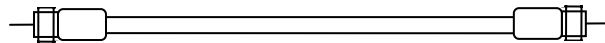
Please check the following items after opening the package: digital satellite receiver, remote control, battery, A/V cable, RF, power cable cord and user's manual. Please keep the packaging box, packaging material and plastic bag in a safe place for repackaging in the future.



Packaging Box



HOME2US 8800 IR



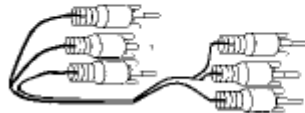
RF Cable



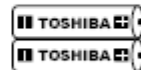
Power Cord



Remote Control



Audio/Video Cable




Batteries



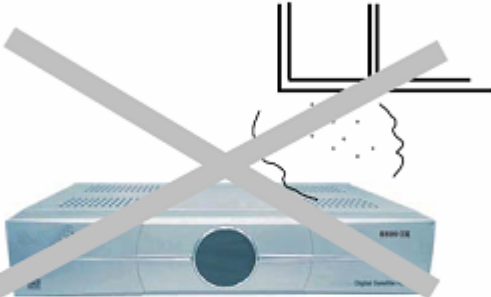
User's Manual

Digital Satellite Receiver HOME2US 8800 IR - User's Manual

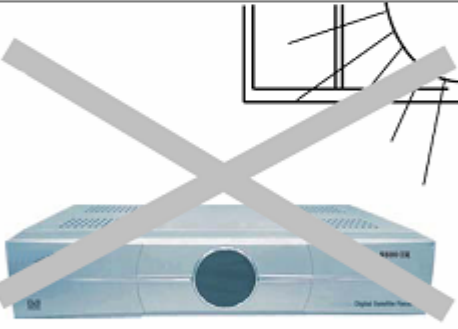
## 2. SAFETY WARNINGS



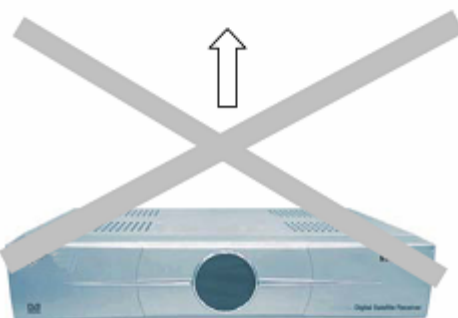
The normal operating temperature of the digital satellite receiver is between 0°C and 40°C.



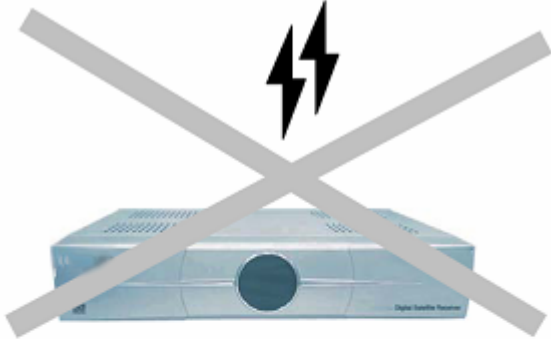
Please prevent the receiver from operating in dusty conditions.




The receiver shall be operated in ventilated environment away from heat sources.



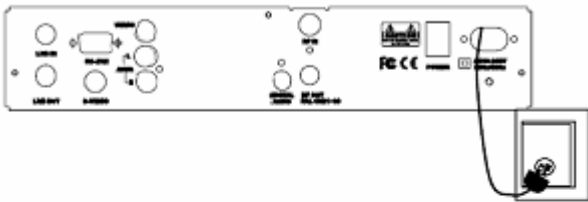
Do not open or disassemble the outer chassis in order to avoid the danger of electric shock and damaging to the receiver. Opening the chassis will also void the warranty.



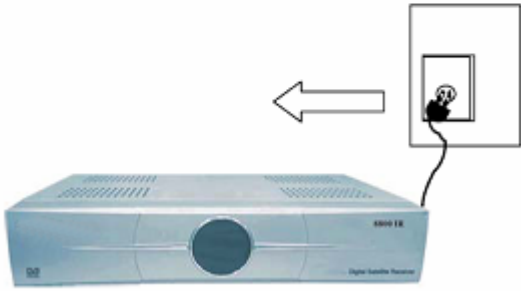
The satellite antenna that is connected to the receiver shall be equipped with anti-shock device from lightning.



When the receiver is inoperative, please consult the Customer Support.



Do not unplug the cable connected to the LNB IN connector while the receiver is operating. Always connect the cable to the LNB IN connector before plugging in the power cord of the receiver to the power source.



If the receiver is not used for a longer period, please disconnect the receiver from the power source.

### 3. CONNECTIONS

Please refer to Figure 1 and Figure 2 for the following instructions. Connect the LNB cable from the dish antenna to the LNB IN connector on the back of the digital satellite receiver. Use the RCA audio/video cables to connect the Audio Left, Audio Right, and Video Outputs to the corresponding connectors on TV.

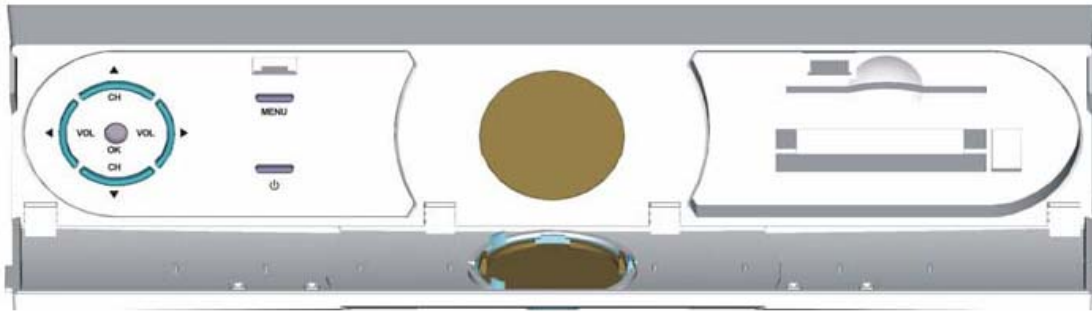


Figure 1 - Front Panel



To switch between standby and power-on states, or exit from menu or submenu.



To adjust the volume output of the receiver when receiving TV programs, or change parameters within the menu.



When receiving TV programs, pressing these keys switches to the next higher or lower numbered program, or to move the scroll bar up or down on the menu.

MENU

To bring up the main menu.

OK

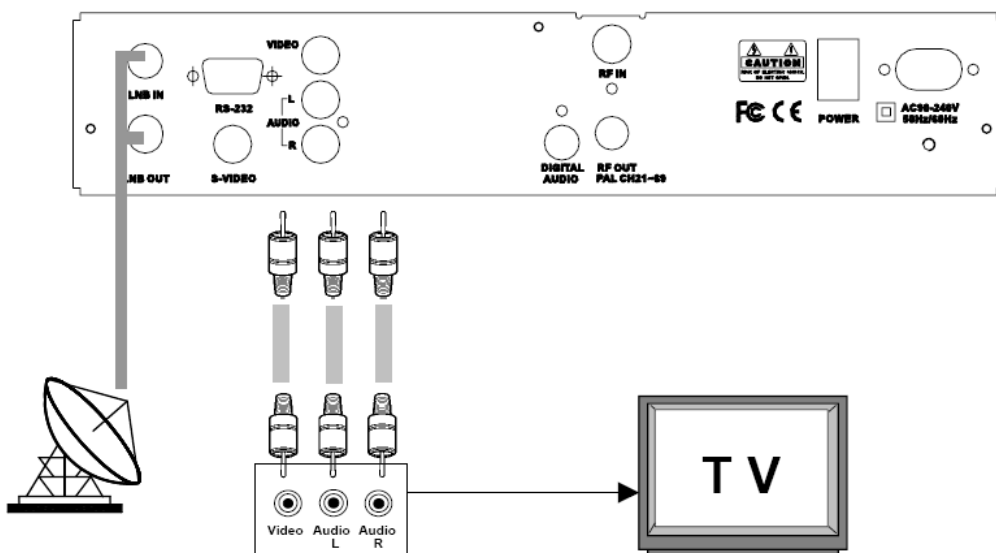
To enter the next lower level submenu or to confirm the parameter value entered.

CARD  
READER

The smart card must be inserted in the slot when viewing scrambled programs.



## Rear Panel





<b>LNB OUT</b>	Satellite signal loop out terminal
<b>LNB IN</b>	Satellite signal input terminal from LNB
<b>RS-232</b>	RS-232 serial port
<b>S-VIDEO</b>	Connect to S-VIDEO Jack of the TV or VCR
<b>VIDEO (yellow)</b>	Line signal output for video
<b>AUDIO (white)</b>	Line signal output for left audio channel
<b>AUDIO (red)</b>	Line signal output for right audio channel
<b>DIGITAL AUDIO</b>	Connect to digital amplifier
<b>RF OUT PLA CH21-69</b>	RF Signal output to TV
<b>RF IN</b>	RF Signal input from ANT or CATV system
<b>AC 90-240V</b>	AC power cord
<b>POWER</b>	Receiver power switch

#### 4. REMOTE CONTROL



Figure 3 Remote Control

KEY	FUNCTION
	Turns power ON/OFF of the DSR
	When watching a channel, mutes the sound.
9 – 0	Enter number of the requires menu item or select a channel number to watch
TV/RADIO	Switch between TV and Radio mode
← PR	This key is reserved for future use.
FAV	This key is reserved for future use.
FUNC	This key is reserved for future use.
MENU	Press this key one time to run menu on screen and call command box
FAV+ FAV-	Moves up/down in the Favorite channel list.
OK	Executes the selected item in the menu screen or enters the desired value in any input mode.
SYS	This key is reserved for future use.
CH+ CH-	When watching a channel, change channels, or move to the left or right item in menu.
VOL+ VOL-	When watching a channel, adjust the volume, or move to the left or right item in menu.
CLEAR	Returns to the previous menu on the menu screen or escape from the menu.
D/A	This key is reserved for future use.
EPG	Calls the EPG (Electronic Program Guide)
R/L	Selects the different audio modes.
TV/AV	This key is reserved for future use.
Display	Display the program name and audio output mode information of the current program.
Teletext	Switches to teletext or subtitle mode.
Signal	Display the signal strength and quality information.



#### 4.1 Illustration Diagram of Remote Control Usage

Please refer to the following diagram (Figure 4) when using the remote control. The maximum distance for usage is 10 meters (30 feet) with look angle 60 degrees. Please aim the infrared transmitter in the front of the remote control to the front panel of the receiver.

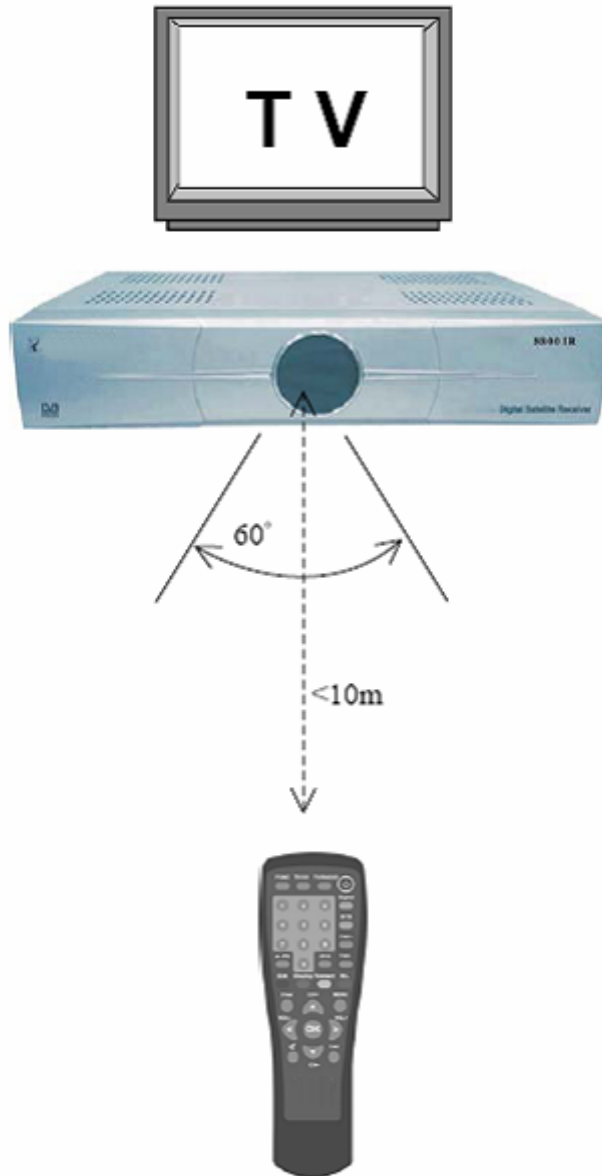
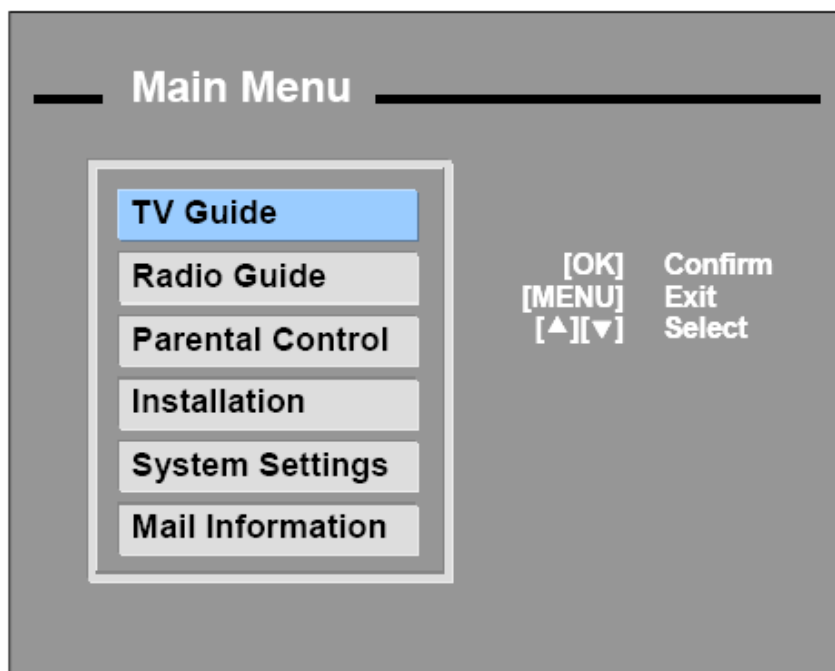


Figure 4 Remote Control Usage Range

## 5. MENU INSTRUCTIONS

### 5.1 Main Menu

The contents of main menu are as follow:



#### **TV Guide**

It shows the list of TV program.

#### **Radio Guide**

It shows the list of radio program.

#### **Parental Control**

It is possible to control the access to certain programs by active this mode and change the PIN Code. Entering the pin code can be used to release the parental block of a service.

#### **Installation**

Installation is used to search for new services or to edit existing ones. It can also be used to load the default setup of the receiver.

#### **System Settings**

The System settings provide a convenient way of selecting different power-up channels, adjusting the time and A/V output mode, and displaying the hardware and software version of this box.

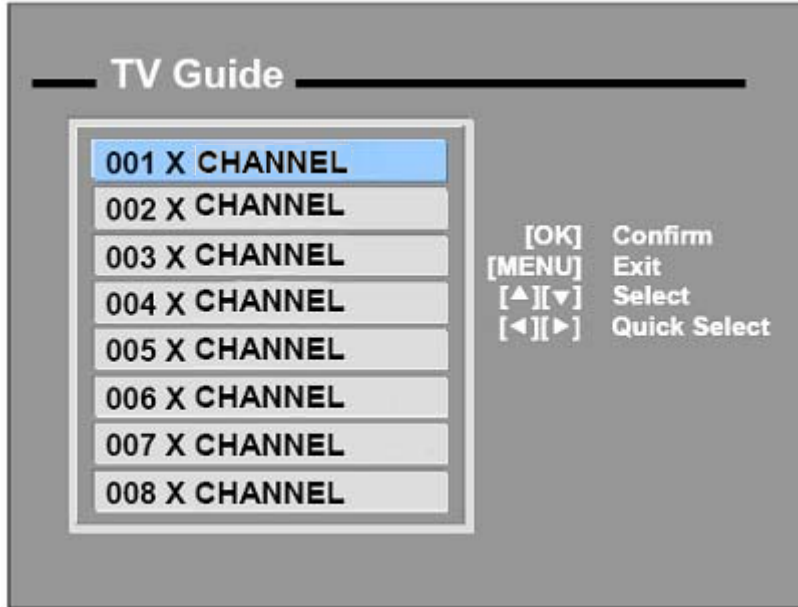
#### **Mail information**

To view the e-mail information sent by the operator. An icon is displayed on the corner of the screen if new email arrives.

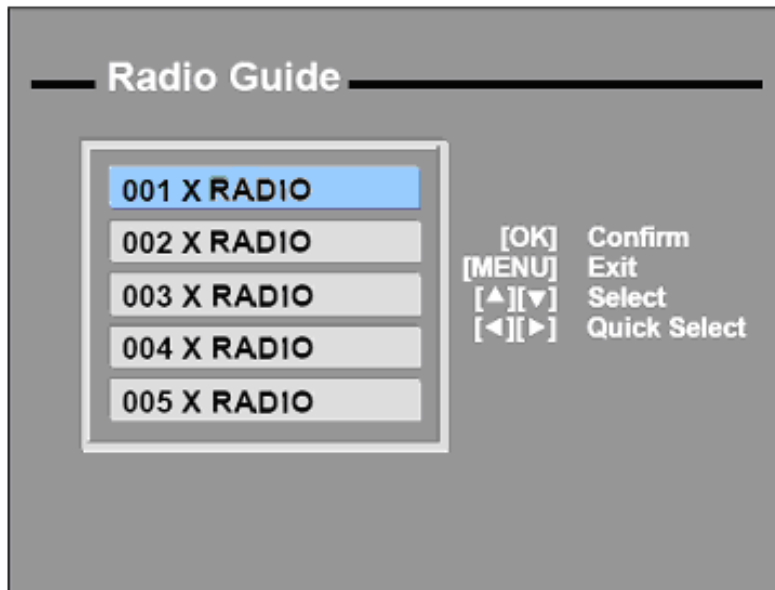


### 5.2 TV Guide

You can select one of the TV programs (event name) by pressing ▲/▼ keys and then press OK key. To access this menu press the MENU key, then select the TV Guide in the Main Menu.



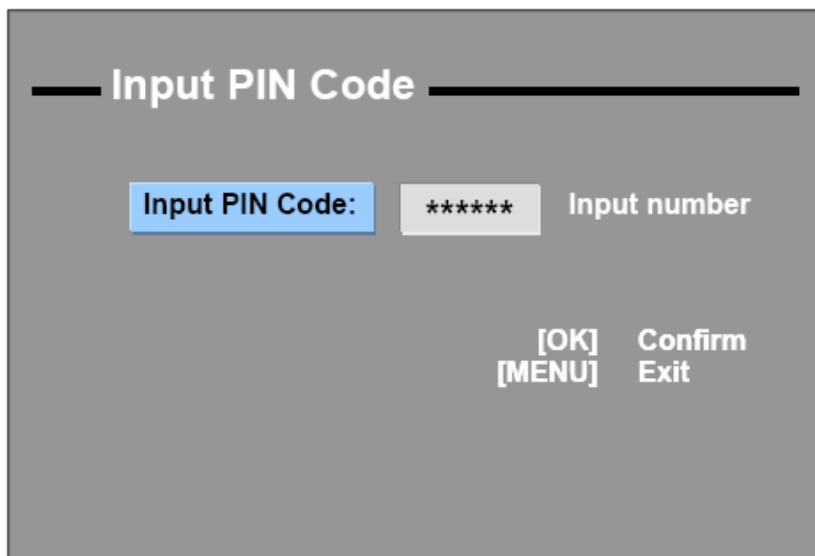
### 5.3 Radio Guide



You can access one of the radio programs (event name) by pressing ▲/▼ keys then press OK key. To get into this menu, press the MENU key, select the Radio Guide then press OK key.

#### 5.4 Parental Control

In this menu, you can set up the Parental Control mode and change the PIN Code. To enter this menu, you have to input the PIN Code first. The default PIN code is 000000.



#### Parental Control

You can press ◀/▶ keys to switch parental control mode between *ON* and *OFF*.

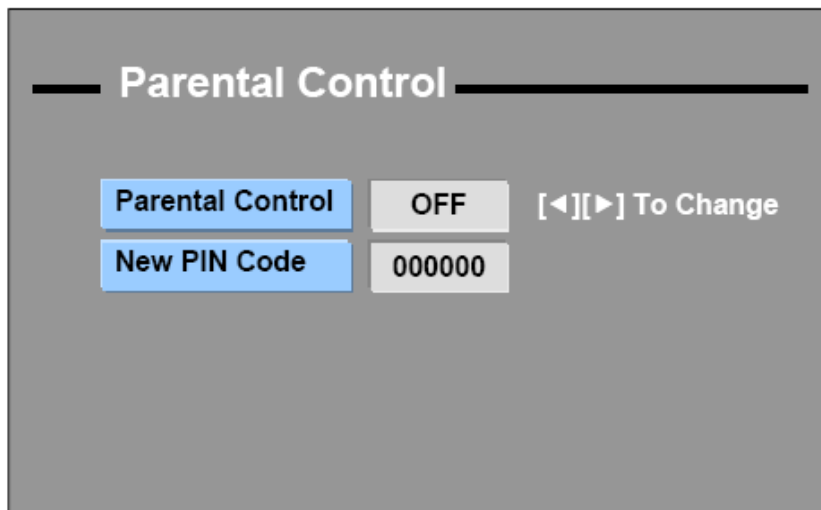
*ON* Parental control is enabled.

*OFF* Parental control is disabled.

**NOTE:** If parental control is enabled, you must enter the PIN code before viewing a locked service. You can press OK while watching a program then the Favorite and parental lock control menu is popped up. Use ◀/▶ keys to active or disable these functions.

#### New PIN Code

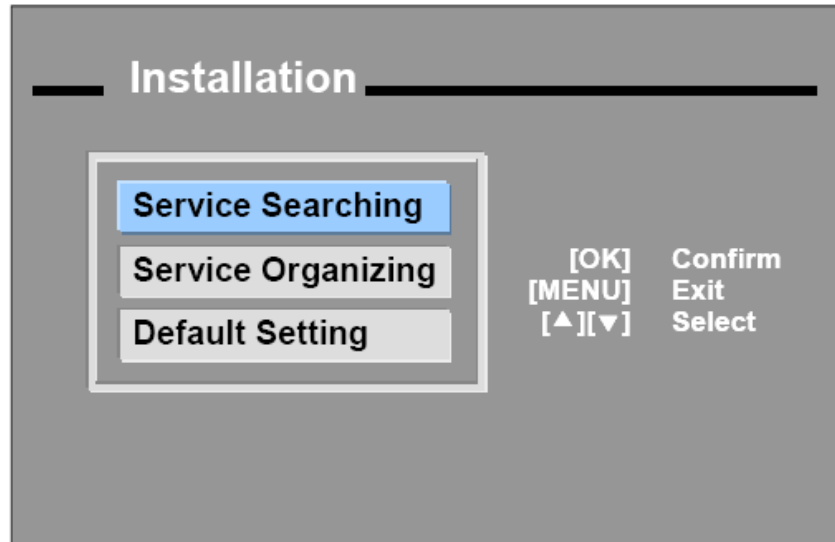
To change the PIN Code, input new PIN code (six digits).



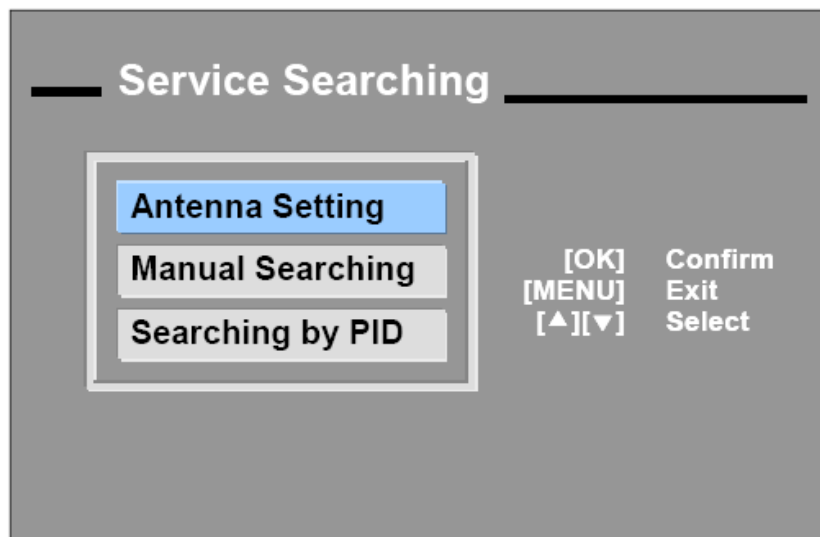


## 5.5 Installation

This menu provides all the settings for customizing, adding new services, editing existing services, and reset to default setup.



### 5.5.1 Service Searching



Before entering the Service Searching Menu or Service Organizing Menu, you have to input the PIN Code if parental control is enabled.

### 5.5.1.1 Antenna Setting

You can select the Antenna and LNB settings for service searching, as well as the settings of 22KHz tone and DiSEqC switch. There are 32 possible antenna settings. The values set in this menu are available for selection in other Service Searching Menus.

Antenna Searching		
SAT NO.	01	[◀][▶] To Change
SAT Name	AMC-4	
LNB Freq.	12120	
22KHz	OFF	
DiSEqC		
Skew Offset		
Skew		
[OK]	Confirm	
[MENU]	Exit	

Press ▲/▼ keys to select between the following items, press ◀/▶ or 0...9 to change its value:

#### SAT No.

You can select the satellite number by pressing ◀/▶ keys. The total number is 32.

#### SAT Name

It shows the satellite name. You can change the name by pressing FAV+, FAV- keys.

#### LNB Freq.

Select the L.O. Frequency that is set to antenna. You can select the LNB frequency of 5150, 9750, 10600, 10750, 11250, or 11300 MHz by using the ◀/▶ key. If the required LNB frequency is not available then enter the frequency using the 0...9 keys.

#### 22kHz

Set to OFF to select dual-LNB or set to ON to select two antennas connected to a 22kHz tone switch.

#### DiSEqC

According to the option and position of DiSEqC switch, you can select from A to D of DiSEqC and turn it OFF.

#### Skew

This function is not implemented in this receiver.

### 5.5.1.2 Manual Searching

After setting the search parameters like frequency, symbol rate etc, you can find the services in the transponder you selected. There are two bars on the bottom to indicate the signal strength and quality. The bars in red color show the signal is in good conditions.

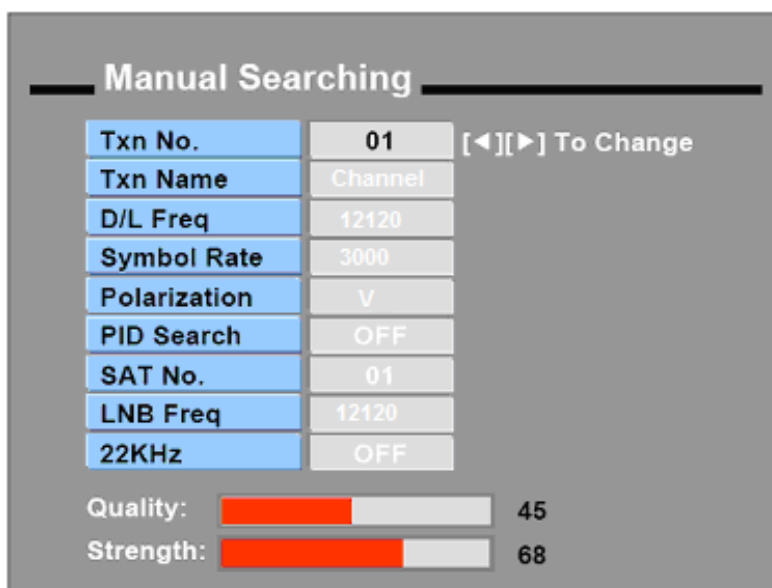
You can press ▲/▼ keys to select between following items, and ◀/▶ or 0...9 keys to change its value:



**D/L Freq.**

Input transponder frequency.

**Symbol Rate**

Inputs symbol rate of the transponder.



Manual Searching	
Txn No.	01 [◀][▶] To Change
Txn Name	Channel
D/L Freq	12120
Symbol Rate	3000
Polarization	V
PID Search	OFF
SAT No.	01
LNB Freq	12120
22KHz	OFF
Quality:	 45
Strength:	 68

**Polarization**

You can select the polarization of the transponder by setting *Horizontal* or *Vertical*. In horizontal case, the 18V and in vertical case, 13V are output through LNB line.

**PID Search**

In PID search mode (*ON*), you can search a specified service by input its *AV/PCR* PID's. Set it *ON* and press OK, you will be able to move to Searching by PID menu.

**SAT No.**

Select the satellite number that corresponding to the value of the Antenna alternative.

**LNB Freq./22KHz/DiSEqC**

As you have set all the values in Antenna Setting menu, you do not have to change them in most cases. After selecting all above values, press OK key to perform service searching or MENU key to exit.

### 5.5.1.3 Searching by PID

You can set the PID information to search services. The PID is in decimal value. You can press ▲/▼ keys to select between following items, and use ◀/▶ or 0...9 keys to change the values. The meanings of these items are explained in Manual Searching menu except:

**PCR PID**

This is used to set PCR PID of certain service.

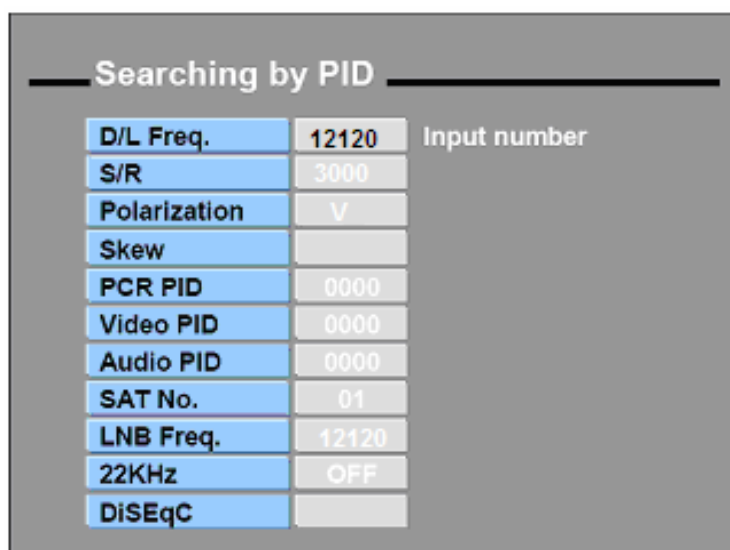
**V PID**

This is used to set Video PID of certain service.

**A PID**

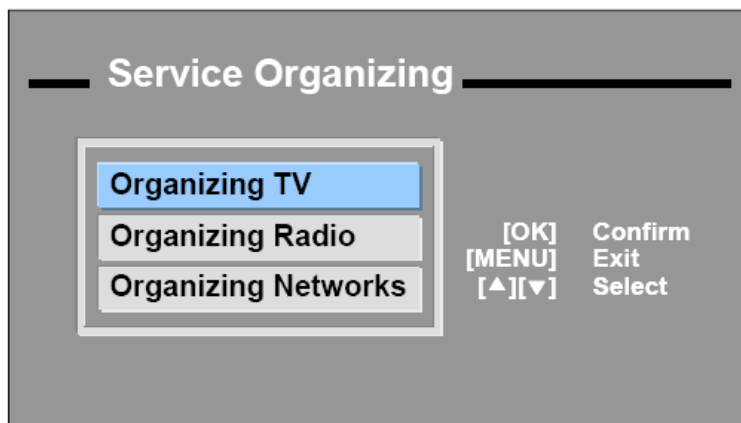
This is used to set Audio PID of certain service.

After setting these values, press OK key to perform service searching or MENU key to exit.



### 5.5.2 Service Organizing

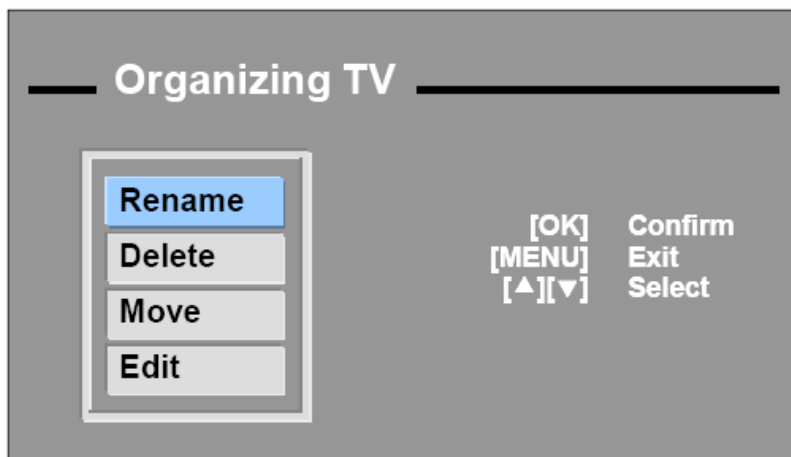
This menu gives users the options that organize their TV services, Radio services and Networks. You can Rename, Delete, Move or Edit an existing service/network.





### 5.5.2.1 Organizing TV

This menu allows users to Rename, Delete, Move and Edit TV services.



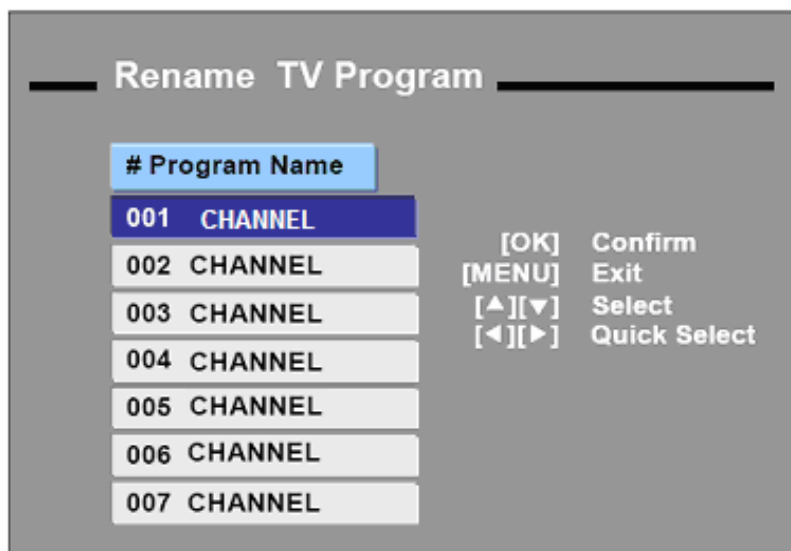
#### Rename

1. Press ▲/▼ key to move to the service.
2. Press OK key, color of the selected program will become red.
3. Press ◀/▶ key to select the character along the program name.
4. Press ▲/▼ key to change the alphabet.
5. Press OK key to confirm or MENU key to discard the changes and exit.

#### Delete

You can delete unwanted services by:

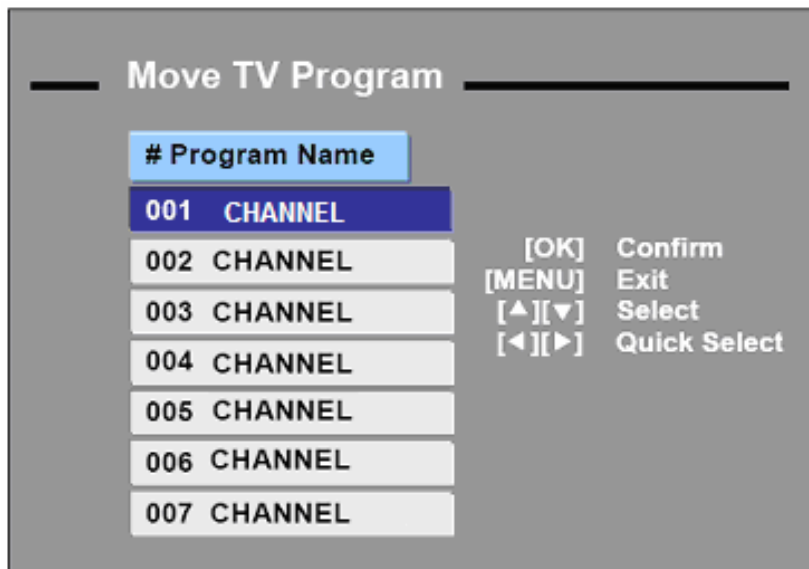
1. Press ▲/▼ key to select service you want to delete.
2. Press OK key, a dialog box will appear.





3. Select *YES* to delete or *NO* to cancel.
4. Press MENU key to exit.

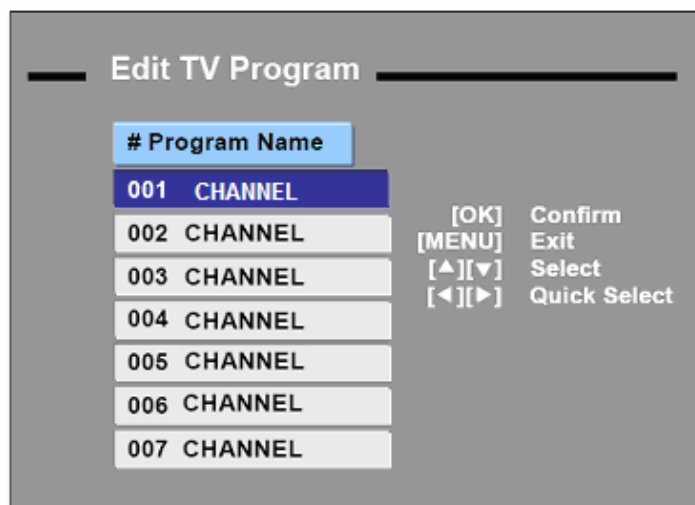
### Move



1. Press ▲/▼ key to select service you want to move.
2. Press OK key to confirm. The color of this service will become red.
3. Press the ▲/▼ key to move it to a new position.
4. Press the OK key to confirm or MENU key to cancel.

### Edit

This menu is used to modify the parameter values in the TV programs, such as Audio Mode, Aspect Ratio, Favorite setting, Lock setting, PCR PID, VIDEO PID and AUDIO PID.



1. Press ▲/▼ key to select service you want to edit.
2. Press OK key, the parameter values will appear.

3. Press ▲/▼ key to select parameter you want to modify.
4. Press ◀/▶ key or 0...9 keys to change the parameter value.
5. Press OK to confirm or MENU key to ignore the modifications and exit.

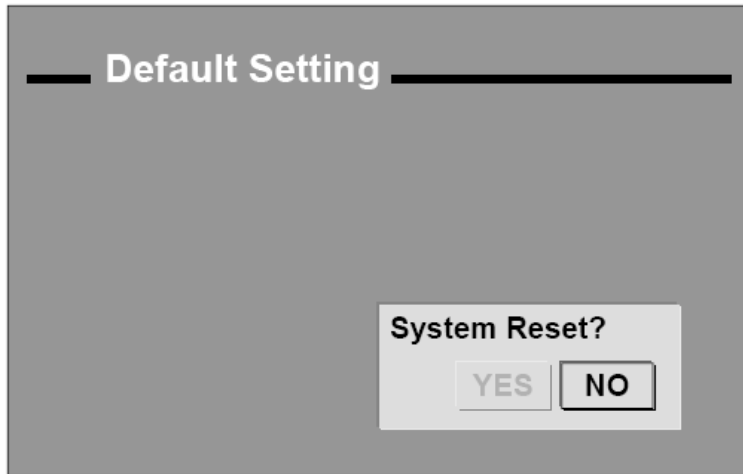
### 5.5.2.2 Organizing Radio

Same as Organizing TV.

### 5.5.2.3 Organizing Network

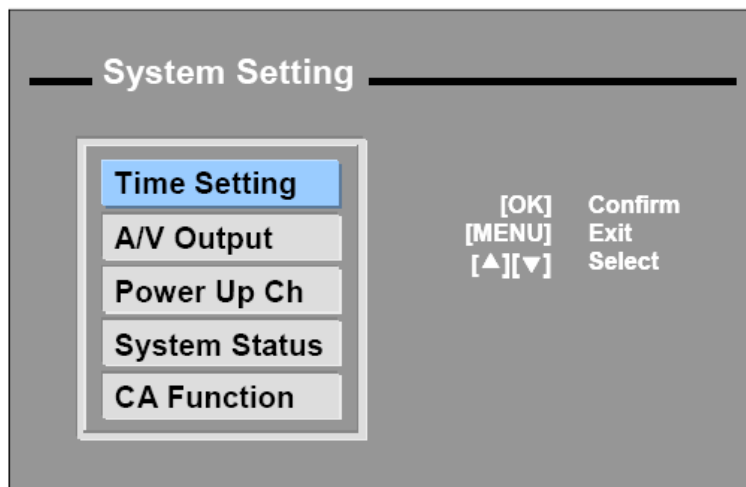
Same as Organizing TV.

### 5.5.3 Default Settings

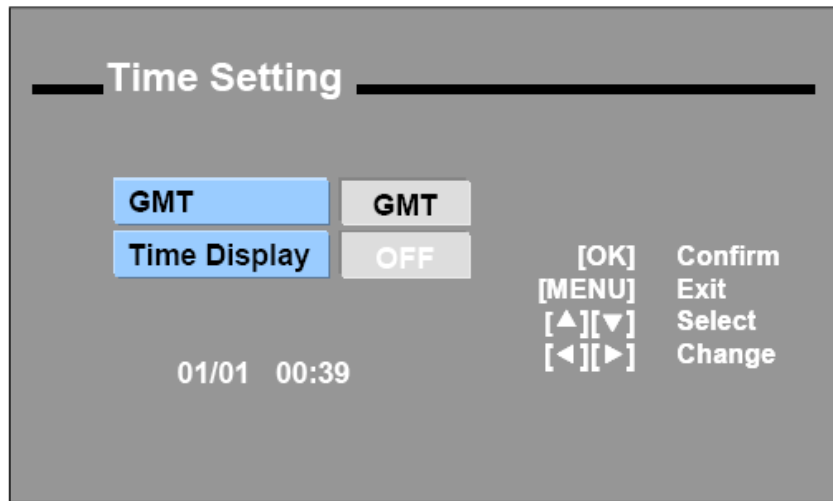


When you select *YES*, the system setup and channel data will be changed to the default values. All the service information manually entered by user will be lost! To exit, select *NO* or press MENU key.

### 5.6 System Settings



### 5.6.1 Time Setting



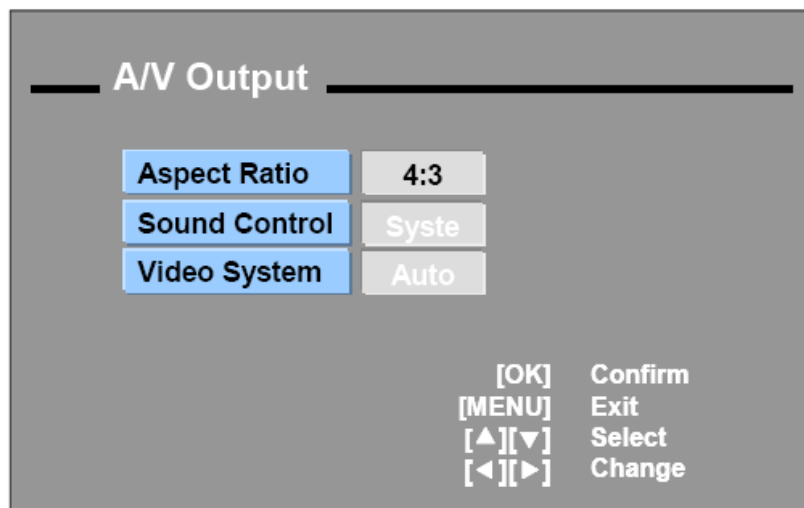
**GMT**

Set the local time zone offset of GMT from  $-12$  to  $+12$ .

**Time Display**

This is used to enable or disable time display function on channel banner.

### 5.6.2 A/V Output Setting



**Aspect Ratio**

You can select the screen aspect ratio of TV ( $4:3$  or  $16:9$ ).

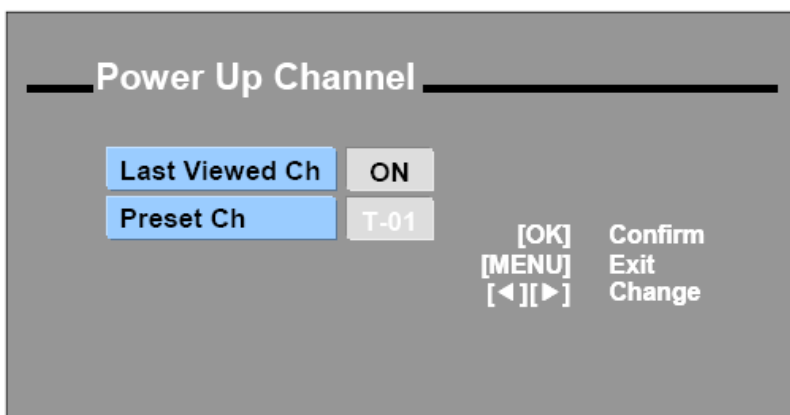
**Sound Control**

You can select the sound control mode by *System* or *Channel*.

**Video System**

You can select the video output mode to *Auto*, *NTSC* or *PAL*.

### 5.6.3 Power Up Channel



This is to set the first channel to the last viewed channel or the preset channel. If the last viewed channel is set **ON**, then the receiver will power on to the last viewed channel. Otherwise, it will power on the preset channel.

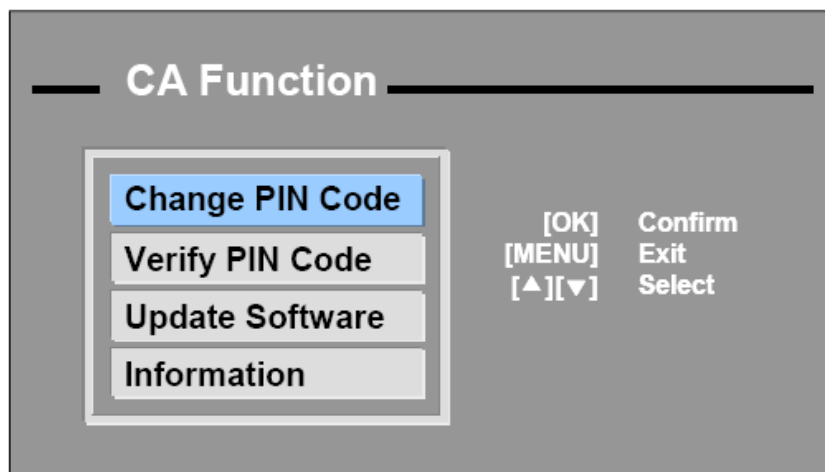
This preset channel is selected in this menu.

### 5.6.4 System Status

Display the information of hardware and software versions.

### 5.6.5 CA Function

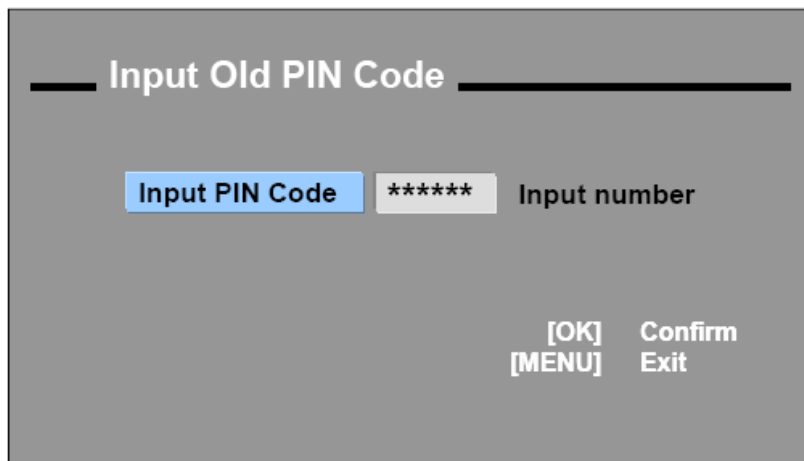
Provide functions to control CA programs.



### 5.6.5.1 Change PIN Code

To change the PIN code of CA card or CA programs. This PIN code is six digits provided by the operator.

Following is the steps of changing PIN code:



Step 1: Input Old PIN code. If the PIN code input is not correct, you can't change it.

Step 2: Input New PIN code.

Step 3: Verify New PIN code. Reenter the PIN code entered in step 2. If they match, then the PIN code is changed.

### 5.6.5.2 Verify PIN Code

To verify the PIN code of CA card or CA programs.

### 5.6.5.3 Software Download

To download the new software from current satellite service. After starting this function, a message is displayed on the screen:

**Searching for downloading services ...**

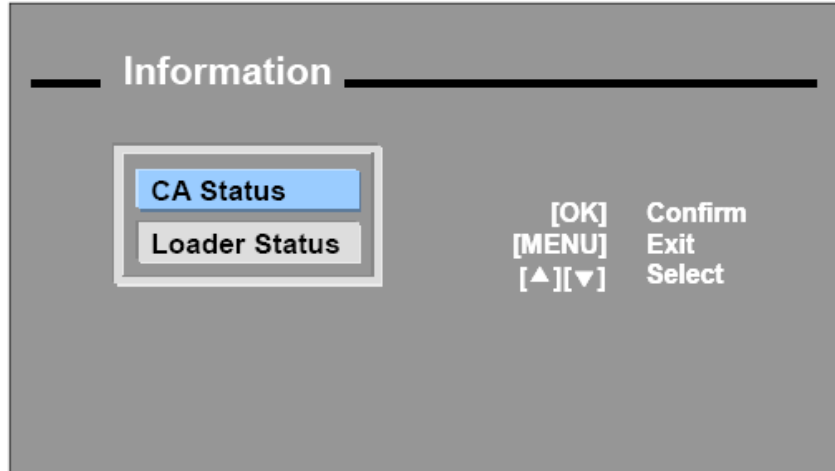
If any downloading service is found, the receiver will restart to download the new software.

Note: Don't power off the receiver or disconnect the satellite signal, during software downloading process.



#### 5.6.5.4 Information

Displays de CA information



##### **CA status**

To view the status of CA system.

##### **Loader status**

To view the status of loader.



## 6. SPECIFICATIONS

### 6.1 Compliance

This digital satellite receiver meets the DVB-S/MPEG-2 standards for the reception of free-to-air digital satellite broadcast. It is compatible for SCPC/MCPC, C band and Ku band signals. The menu of this receiver is designed such that the customer may set or change the channel frequency, polarization, symbol rate or LNB local oscillator frequency easily. This receiver can provide you with rich and abundant digital satellite TV programs.

### 6.2 Major Features

- Meets MPEG-2 (MP@ML) and DVB-S standards.
- Enhanced OSD (On Screen Display) screen font.
- Stores up to 100 channel data, 100 TV programs, and 100 radio programs.
- EPG (Electronic Program Guide) capability.
- The volume is adjustable, and each program can have its own settings independently.
- High resolution picture and high fidelity digital stereo output.
- SAP (Second Audio Program) stereo capable.
- Capable of setting PID code to receive specified programs.
- Signal strength display for convenient dish installation and/or adjustment.
- Software download capability via RS-232 port (optional).
- Support Irdeco CA.

Standards	DVB-S
Modulation	QPSK
Symbol Rate	2 ~ 45 MSps
Input Frequency Range	950 ~ 2150 MHz
Input Power Level	-65 ~ -25 dBm
Input Signal Terminal	F-type
Video Decode Format	MPEG-1, MPEG-2
Video Output Format	PAL/NTSC (Automatic switching)
Video Aspect Ratio	4:3 and 16:9
Video Output Resolution	PAL (720 × 576), NTSC (720 × 480)
Audio Decode Format	MPEG-1, MPEG-2
Audio Output Mode	Single, Dual, and Stereo
Audio/Video Output	1 RCA A/V
LNB 22kHz Control	ON / OFF
LNB Polarization	Voltage 13 / 18 Volts, Short-Circuit Protection
DiSEqC	Version 1.0
Input Voltage	90-240 Volts, 50 / 60 Hz
Power Consumption	25 W
Dimensions	300 mm (W) × 237 mm (D) × 58 mm (H)





## 7. QUICK REFERENCE GUIDE

Select Program	(1) Press <b>MENU</b> , then select TV Guide and press <b>OK</b> . Go to the program, then press <b>OK</b> , or (2) Enter the program number directly, or (3) Press [ <b>▲</b> ][ <b>▼</b> ] keys to surf.
Favorite Program Setup	(1) Switch to the TV/Radio Program you want to set up. (2) Press <b>OK</b> . (3) Active the Favorite function to <b>ON</b> by [ <b>◀</b> ][ <b>▶</b> ] keys. (4) Press <b>OK</b> to confirm. (5) Then use <b>FAV+</b> , <b>FAV-</b> to surf between favorite channels.
Parental Control Setup	(1) Go into parental control submenu. Set it to <b>ON</b> and press <b>OK</b> . (2) Switch to the TV/Radio Program you want to set up. (3) Press <b>OK</b> . (4) Active the Lock function to <b>ON</b> by [ <b>◀</b> ][ <b>▶</b> ] keys. (5) Press <b>OK</b> to confirm.
Channel Banner	Pressing <b>Display</b> key.
Signal Quality Monitoring	Pressing <b>Signal</b> key.
TV/Radio Swapping	Press <b>TV/Radio</b> key.
TeleText	Press <b>Teletext</b> key.
Second Audio Selection	(1) Press <b>R/L</b> key. (2) [ <b>◀</b> ][ <b>▶</b> ] keys to select audio system, 1S, 1L, 1R etc. (3) Press <b>OK</b> to confirm.



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## **Digital Set-Top-Box**

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