



DIGITAL SET-TOP-BOX

Irdeto CA Satellite Receiver

SMP-6200

USER'S MANUAL

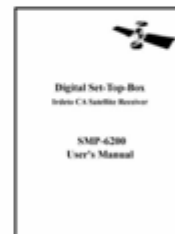
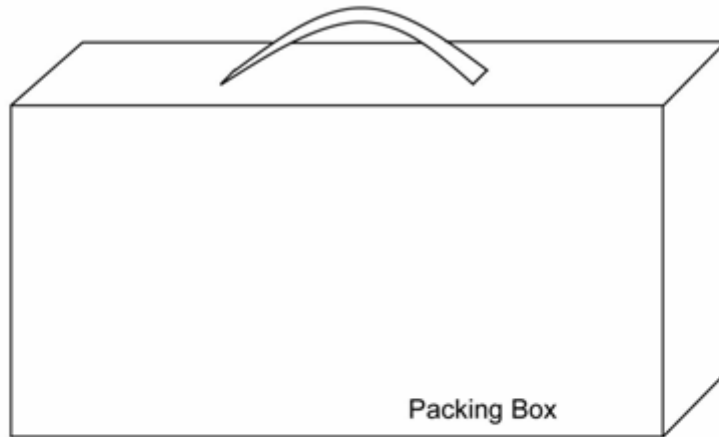


Table of Contents

1. PRE-INSTALLATION CHECKUP	3
2. SAFETY WARNINGS	4
3. CONNECTIONS	6
4. REMOTE CONTROL	8
4.1 Remote Control Unit	9
5. MENU INSTRUCTION	10
5.1 Main Menu	10
5.1.1 TV Guide	11
5.1.2 Radio Guide	11
5.1.3 Installation	12
5.1.3.1 Installation	12
5.1.3.1.1 Antenna Setting	13
5.1.3.1.2 Auto Searching	17
5.1.3.1.3 Manual Searching	18
5.1.3.1.4 Factory Default	24
5.1.4 Channel Management	24
5.1.4.1 Favorite/Lock Channel	25
5.1.4.2 Edit Channel	25
5.1.4.2.1 Move	26
5.1.4.2.2 Delete	26
5.1.4.2.3 Rename	27
5.1.4.3 Delete TP	27
5.1.5 System Setting	28
5.1.5.1 Time Setting	28
5.1.5.2 A/V Output	28
5.1.5.3 Parental Control	29
5.1.5.4 Timer	31
5.1.5.5 Power up Channel	31
5.1.6 System Information	32
5.1.6.1 CA Status	32
5.1.6.2 IRD Status	33
5.1.6.3 Load Status	33
5.1.6.4 Mail Message	34
5.1.6.5 Announcement	34
5.1.6.6 Upgrade software	34
6. SPECIFICATIONS	35
6.1 Compliance	35
6.2 Major Features	35

1. PRE-INSTALLATION CHECKUP

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




Remote Control

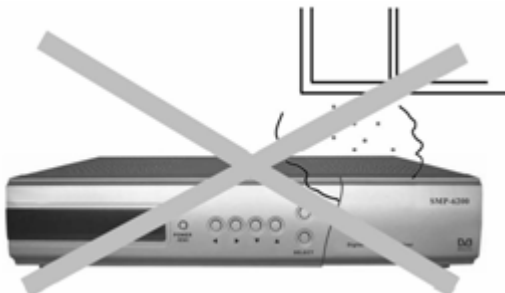
Audio/Video Cable

Battery


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.

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 Output to the corresponding connectors on TV.



Figure 1 **Front Panel**

POWER/ESC To switch between standby and power-on states.

◀▶ 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, or exit from menu or submenu.

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

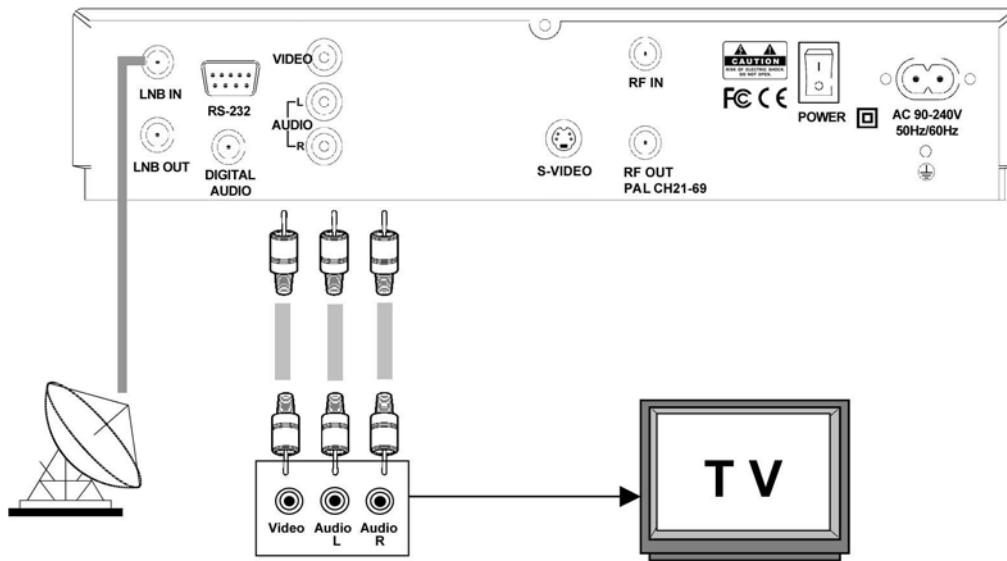


Figure 2 Rear Panel

LNB OUT	Satellite signal loop through terminal
LNB IN	Satellite signal input terminal from LNB
RS-232	RS-232 serial port
S-VIDEO	Connect to S-VIDEO Jack of the TV or VCR
VIDEO (Yellow)	Line signal output of video
AUDIO (White)	Line signal output of left audio channel
AUDIO (Red)	Line signal output of right audio channel
DIGITAL AUDIO	Connect to digital amplifier
RF OUT PAL CH21-69	RF signal output to TV NTSC CH3-4
RF IN	RF signal input from ANT or CATV system
AC 90-240V 50Hz/60Hz	AC power cord
POWER	Receiver power switch

4. REMOTE CONTROL

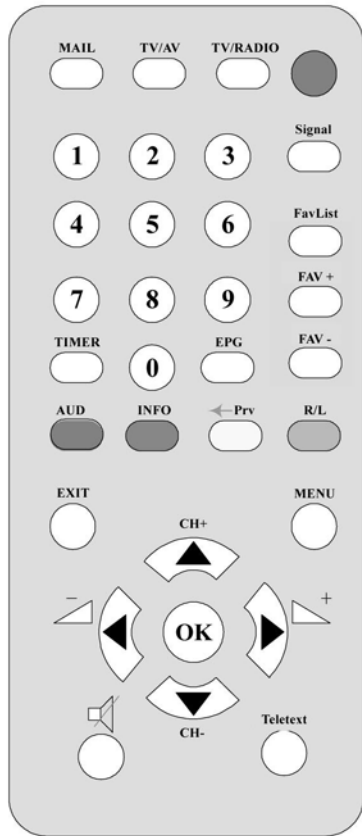


Figure 3 Remote Control

KEY	FUNCTION
POWER	Turns power ON/OFF of the receiver.
MAIL	Directly goes into mail screen.
TV/AV	Switch output between TV, AV and VCR.
TV/RADIO	Switches between TV and Radio mode.
0~9	Enters number of the required menu item or selects a channel number to watch.
SIGNAL	Displays the signal strength and quality information.
FAVLIST	Displays the favorite channel list.
FAV+ / FAV-	Moves up/down in the favorite channel list.
TIMER	Calls up Timer Recording Table.
EPG	Calls up the EPG (Electronic Program Guide).
AUD	Selects the audio input mode.
INFO	Displays the selected channel information in TV guide screen or radio guide screen.
PRV	Returns to the previous channel.
R/L	Selects the different audio output modes.
EXIT	Exits from current menu/submenu.
MENU	Presses this key one time to run menu on screen and calls command box.
OK	Executes the selected item in the menu screen, or enters the desired value in any input mode.
CH+, CH-	These keys are used to switch to the next higher or lower program, or to move the scroll bar up or down in the menu.
VOL+, VOL-	These keys are used to adjust the volume output level of the receiver, or to select the next available parameters within the menu.
MUTE	This key is used to toggle in or out of muting mode.
TELETEXT	Display teletext, if there is teletext information in stream.

4.1 Remote Control Unit

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.

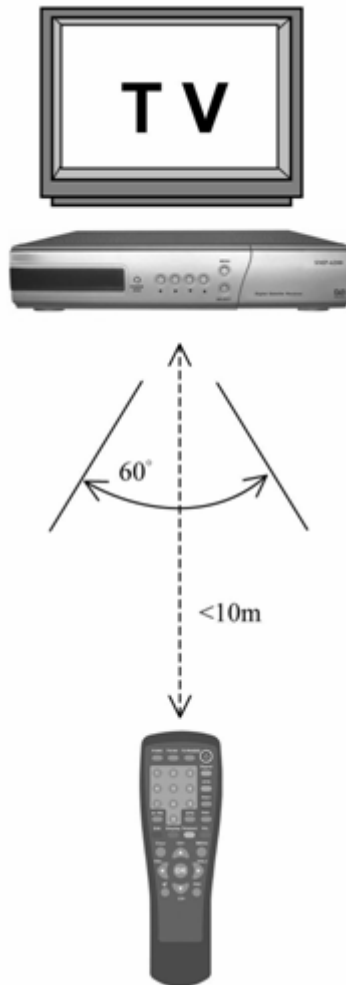
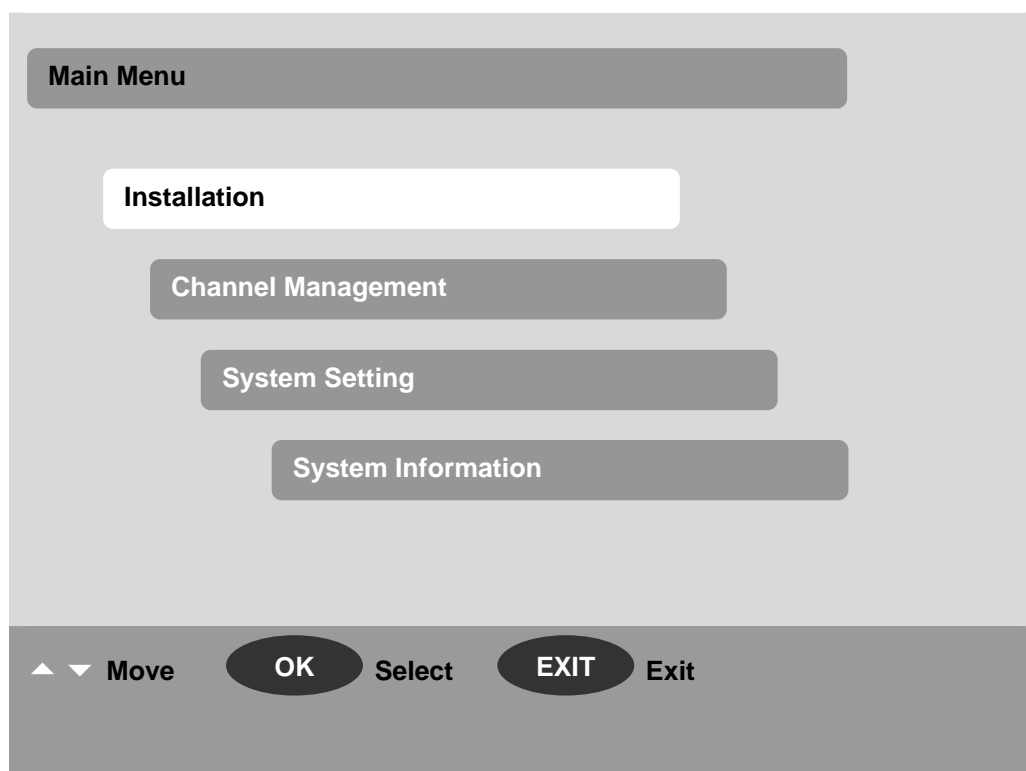


Figure 4 Remote Control Unit Range

5. MENU INSTRUCTION

5.1 Main Menu The contents of main menu are as follows:



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.

Channel Management

This is used to edit the downloaded channels, to set the favorite channels and to lock channels. User can also delete the stored TP.

System Settings

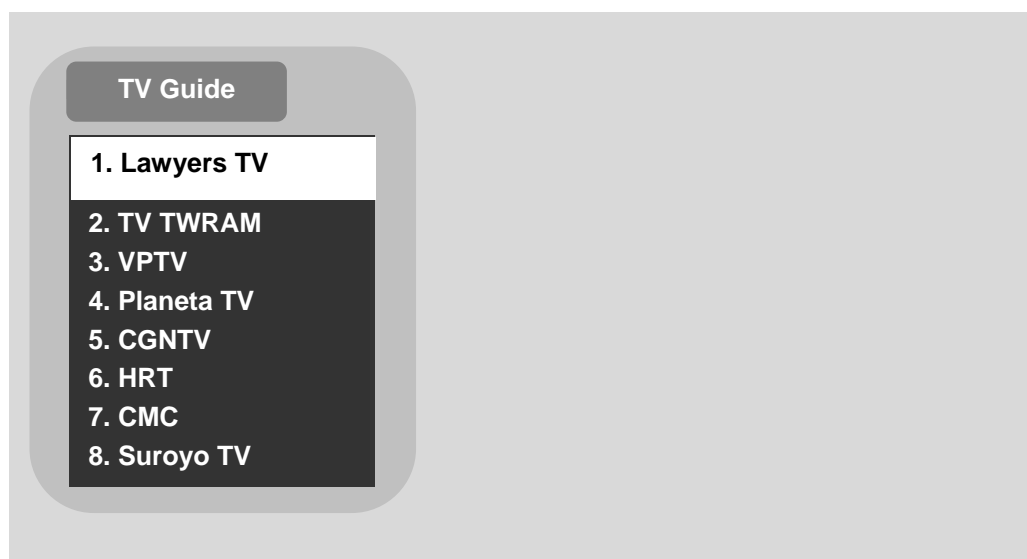
The system settings provide a convenient way of selecting different power-up channels, adjusting the time and A/V output mode, and adjusting parental control rating.

System Information

System information provides all information regarding the receiver, including CA, loader, mail message, announcement, and all details of the upgraded software.

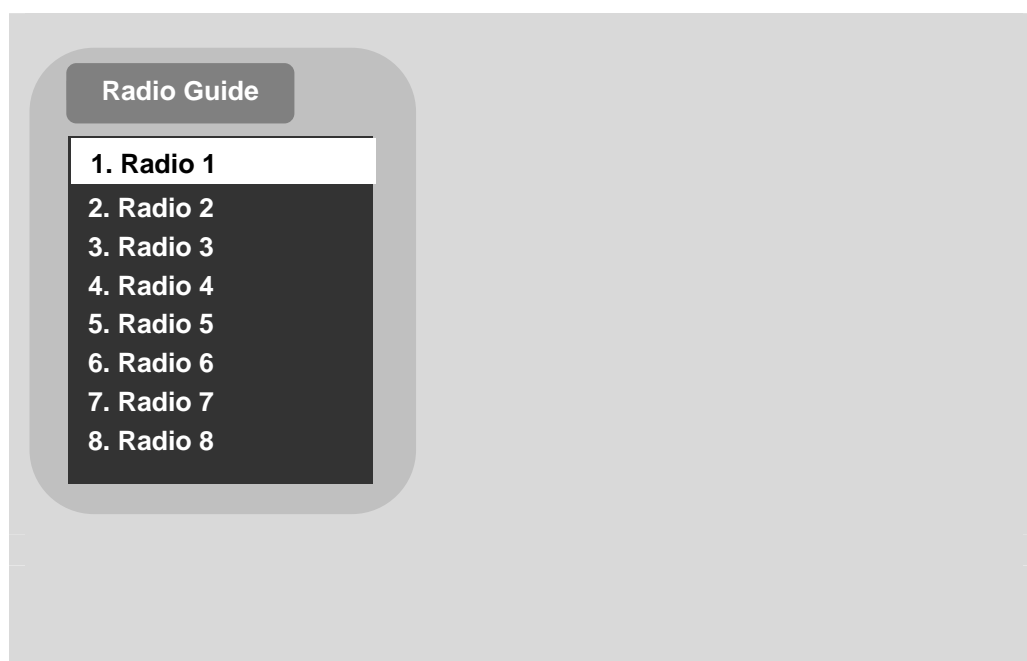
5.1.1 TV Guide This shows the list of TV program, press OK button can enter to TV guide.

You can select one of the TV programs (event name) by pressing ▲/▼ keys follow with pressing the OK key. You can press the Info button to show the channel information.



5.1.2 Radio Guide This shows the list of Radio program, press TV/Radio key to change the options between “TV guide” and “Radio Guide” in TV guide screen.

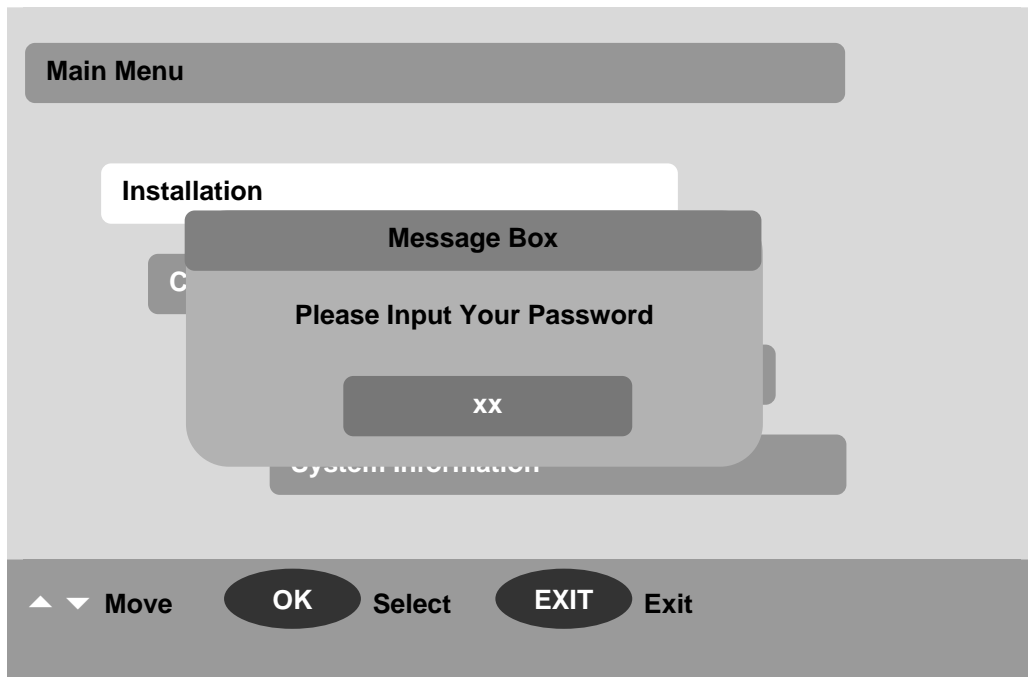
You can access one of the Radio programs (event name) by pressing ▲/▼ keys follow with pressing the OK key. You can press the Info button to show the channel information.



5.1.3 Installation

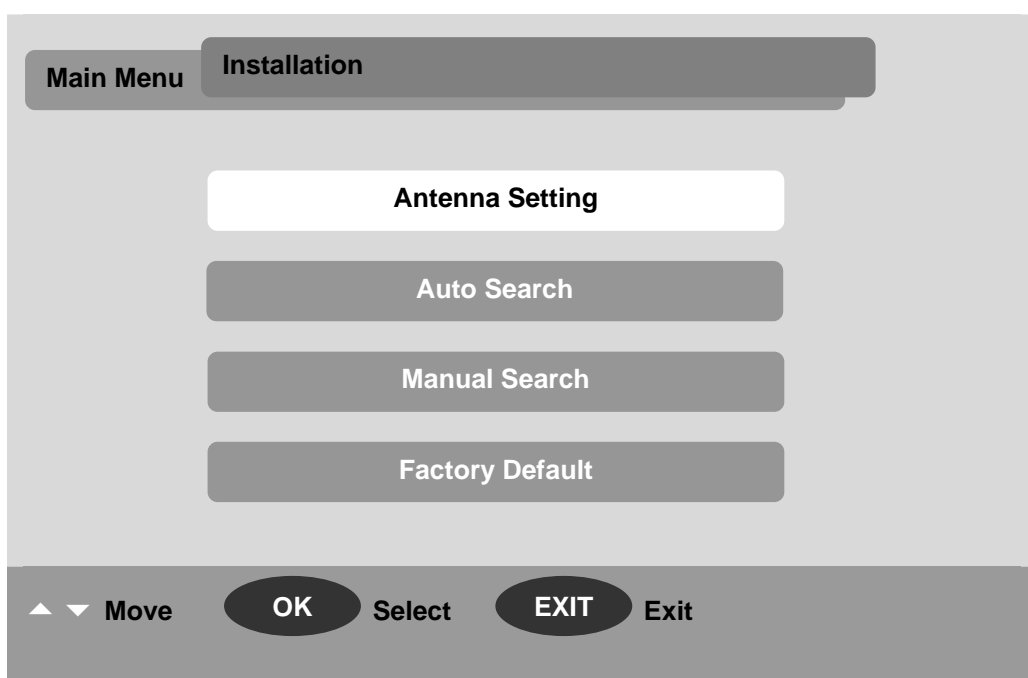
Installation is used to search for new services or edit existing ones. It can also be used to load the default setup of the receiver.

To enter this menu, you have to input the PIN Code first. The default PIN Code is 0000.



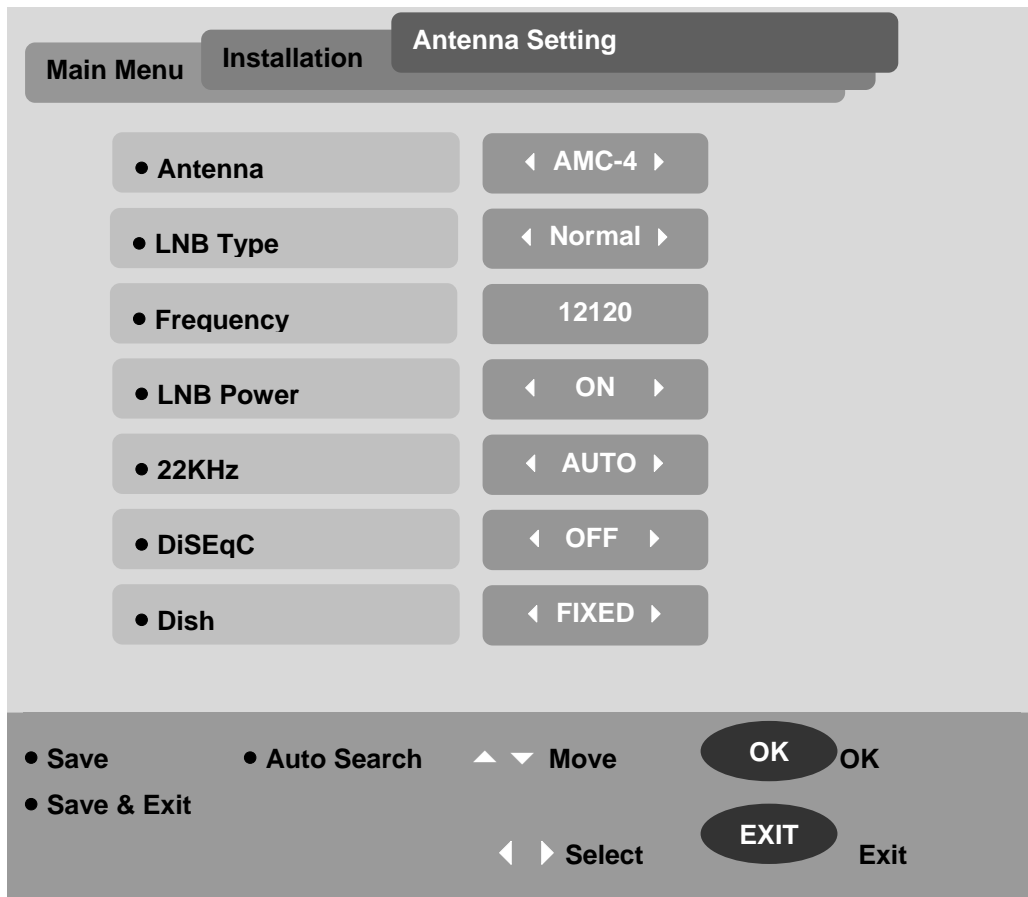
5.1.3.1 Installation

This menu provides all the settings for customizing. There are two ways in searching new services, auto search and manual search. Resetting to default setup is also set in this menu.



5.1.3.1.1 Antenna Setting

You can select the Antenna and LNB settings for service searching, as well as the settings of 22KHz tone and DiSEqC switch and dish options. There are 32 possible antenna settings. The values set in this menu are available for selection in other Service Searching Menus. LNB type has two options to switch to, normal and universal. If normal is selected, there will be only one Freq available. If universal is selected, there will be two frequencies provided to be selected, i.e., LNBF Freq low and LNB Freq High.

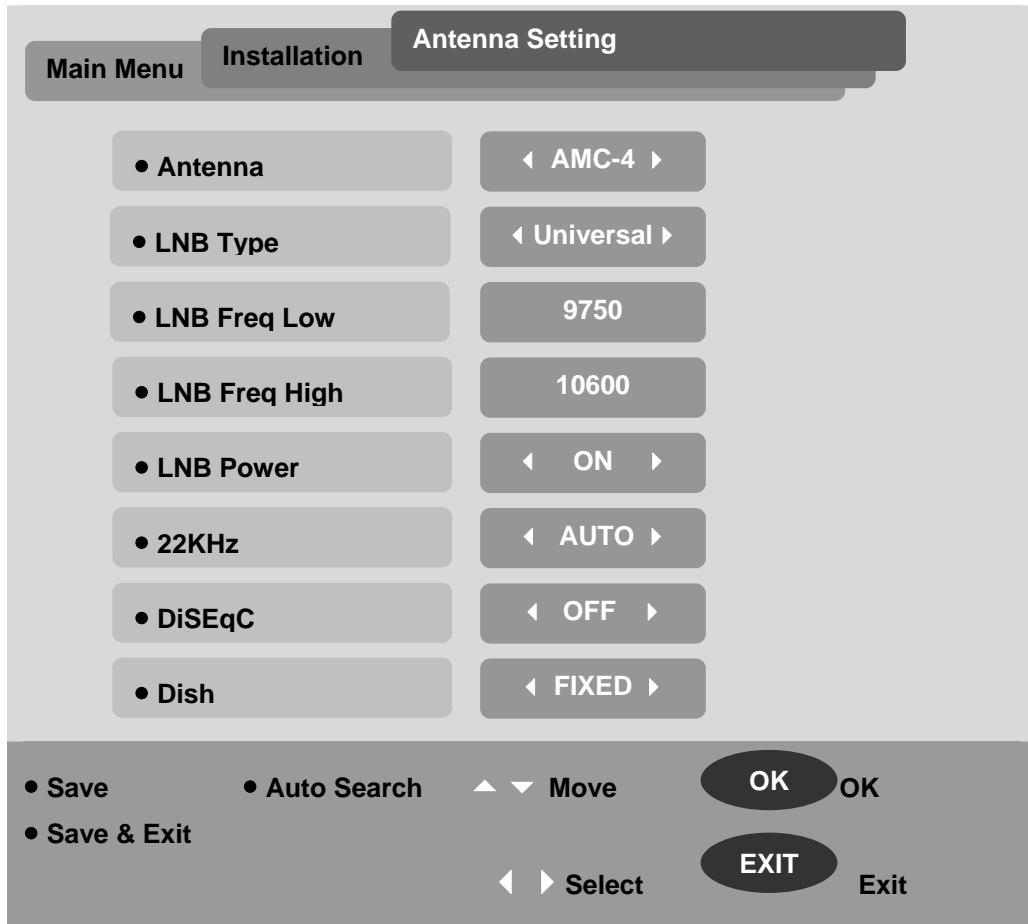


Press ▲/▼ keys to choose between the following items, press ◀/▶ to change its value. Press OK to show all available options.

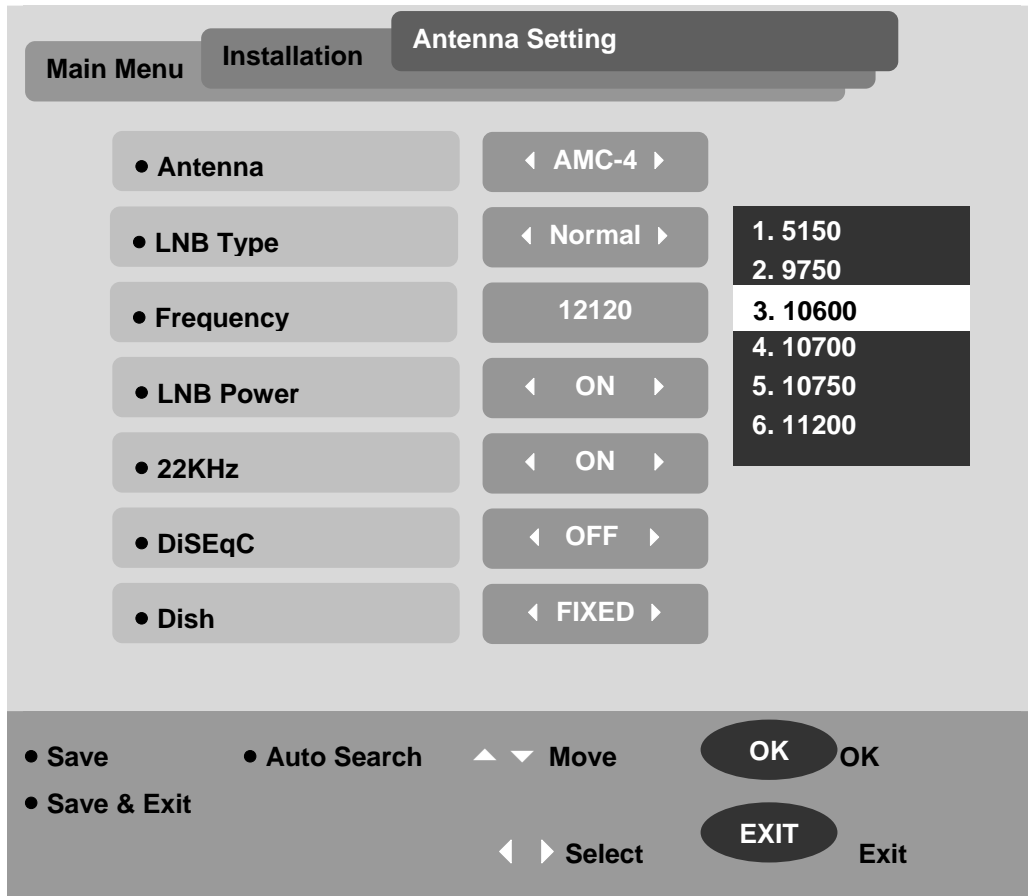
Antenna It shows the satellite name. User can select the satellite name by pressing ◀/▶ keys. The total number is 32.

LNB Type

There is two options to be selected from: normal and universal. Press ◀/▶ keys to switch between the options. If normal is selected, the figure is as above, if the universal is selected, the figure is as following:



Frequency When the LNB Frequency is single, press OK to display the list of Frequency, then press ▲/▼ keys to select. User can always select “user defined” to add a new Frequency.



LNB Power Press ◀/▶ keys to switch the LNB Power between ON and OFF.

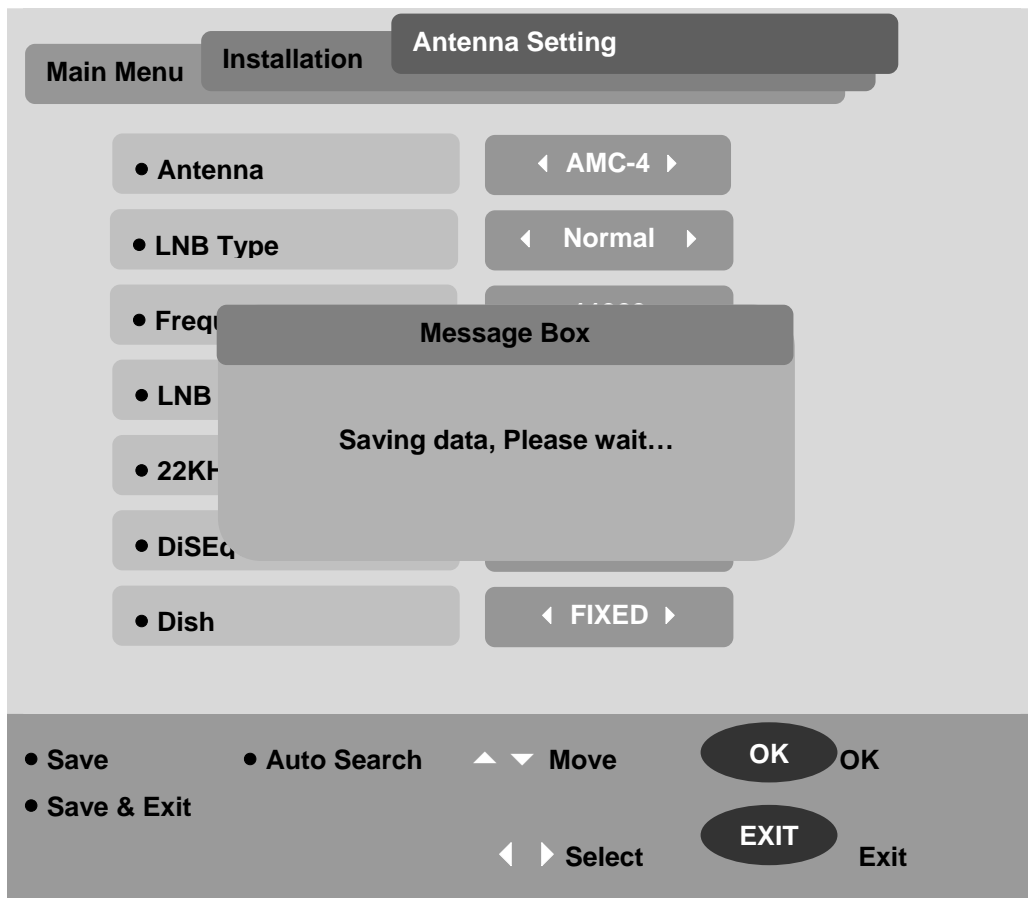
22KHz When LNB type is set to normal, 22KHz has two different options: ON and OFF. When LNB type is set to universal, 22KHz will be auto selected. Press ◀/▶ keys to change between the options. Set OFF to select dual-LNB or set ON to select two antennas connected to a 22KHz tone switch.

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

Dish Press ◀/▶ keys to switch between the options fixed and motor. Setting to fixed, the dish can not be moved. Setting to motor, the dish will be movable.

Help Menu Press ▲/▼ keys to select between the following items, press ◀/▶ or input 0-9 to change its value: press OK to show all available options.

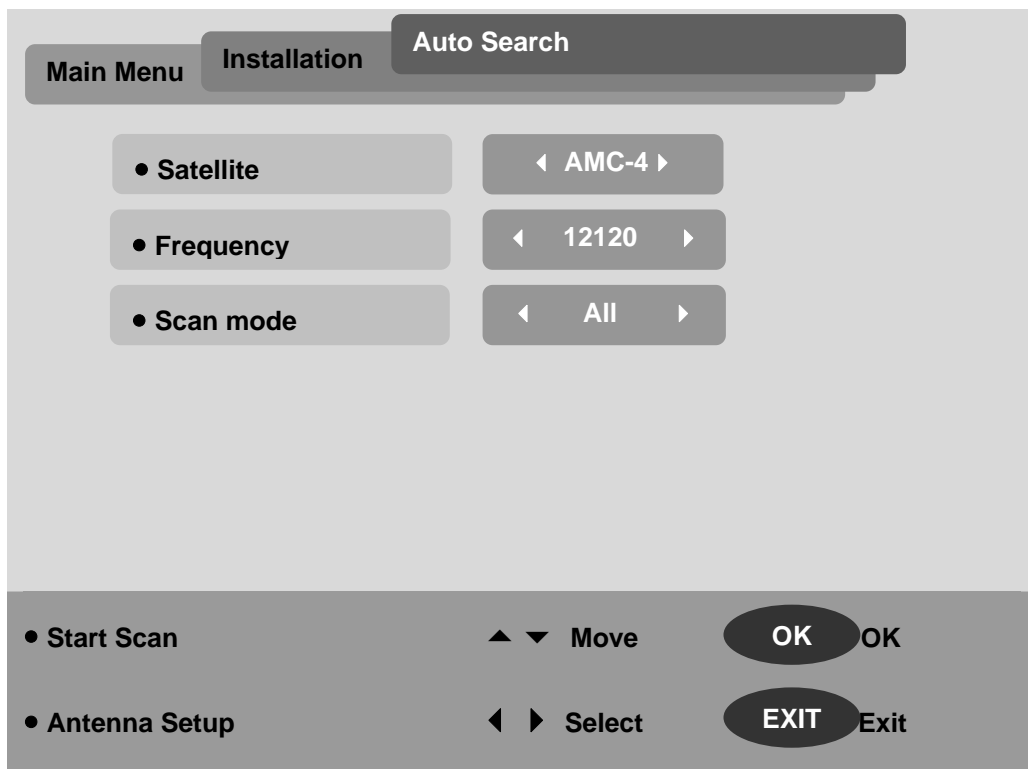
Press Red key on remote to save the settings. The saved message will be displayed. After saving, this menu will remain the same.



Press Blue key on remote, the setting will be saved and meanwhile it returns to the previous menu.
Press Green key on remote, it will directly get into auto search menu.

5.1.3.1.2 Auto Searching

To enter this menu, user can press OK key from the installation screen. There are two bars on the bottom to indicate the signal strength and quality. The bars in green color show the signal is in good condition. This menu will automatically search for the existing channels by the frequencies.



Satellite It shows the satellite name. User can select the satellite name by pressing ◀/▶ keys. The total number is 32. Press OK key to show all satellite lists.

Frequency It shows the frequency of the transponder user selected. The corresponding symbol rate and polarization that have been confirmed. Press OK to display the list of existing frequencies.

Scan Mode It shows two scan modes in this entry by pressing ◀/▶ key. Set scan mode to all, all the channels in the transponder you selected will be download if the signal is locked. Set scan mode to FTA, only free-to-air channels can be downloaded.

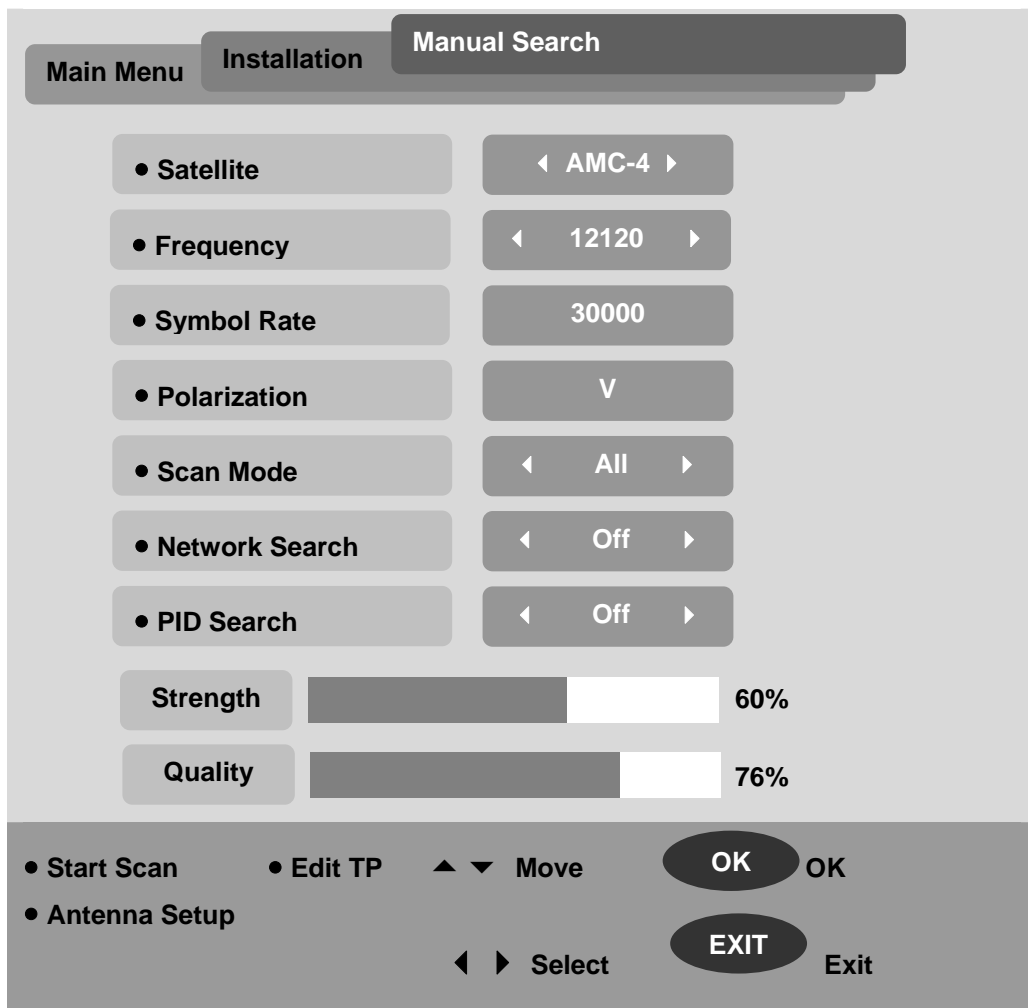
Help Menu Press ▲/▼ keys to select between the following items, press ◀/▶ or input 0~9 to change its value: press OK to show all available options.

Press Red key on remote to get into search menu.

Press Blue key on remote to return to antenna setting menu.

5.1.3.1.3 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 the following items, press ◀/▶ key or 0...9 to change its value.

Satellite

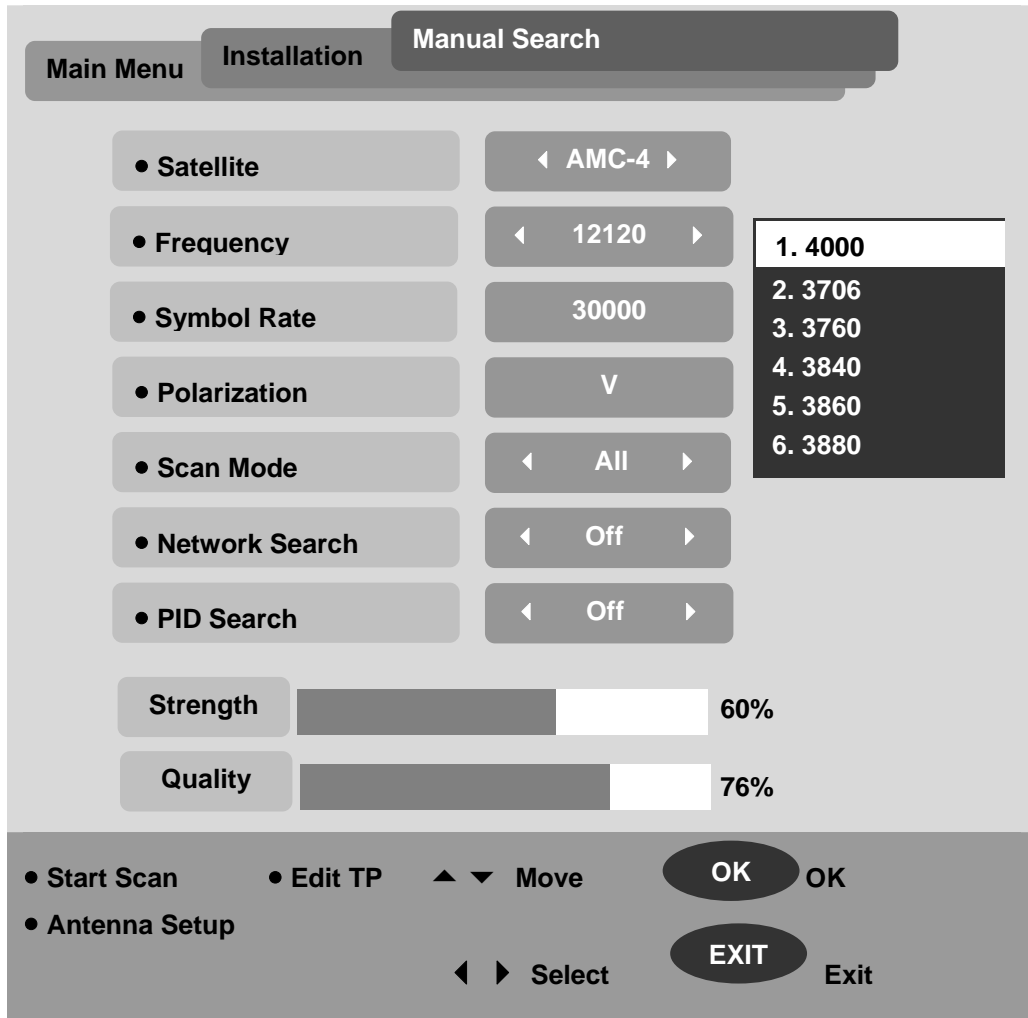
It shows the satellite name. User can select the satellite name by pressing ◀/▶ keys. The total number is 32. Press OK key to show all satellite lists.

The screenshot displays the 'Manual Search' menu of the Digital Satellite Receiver SMP-6200. The menu is organized into several sections:

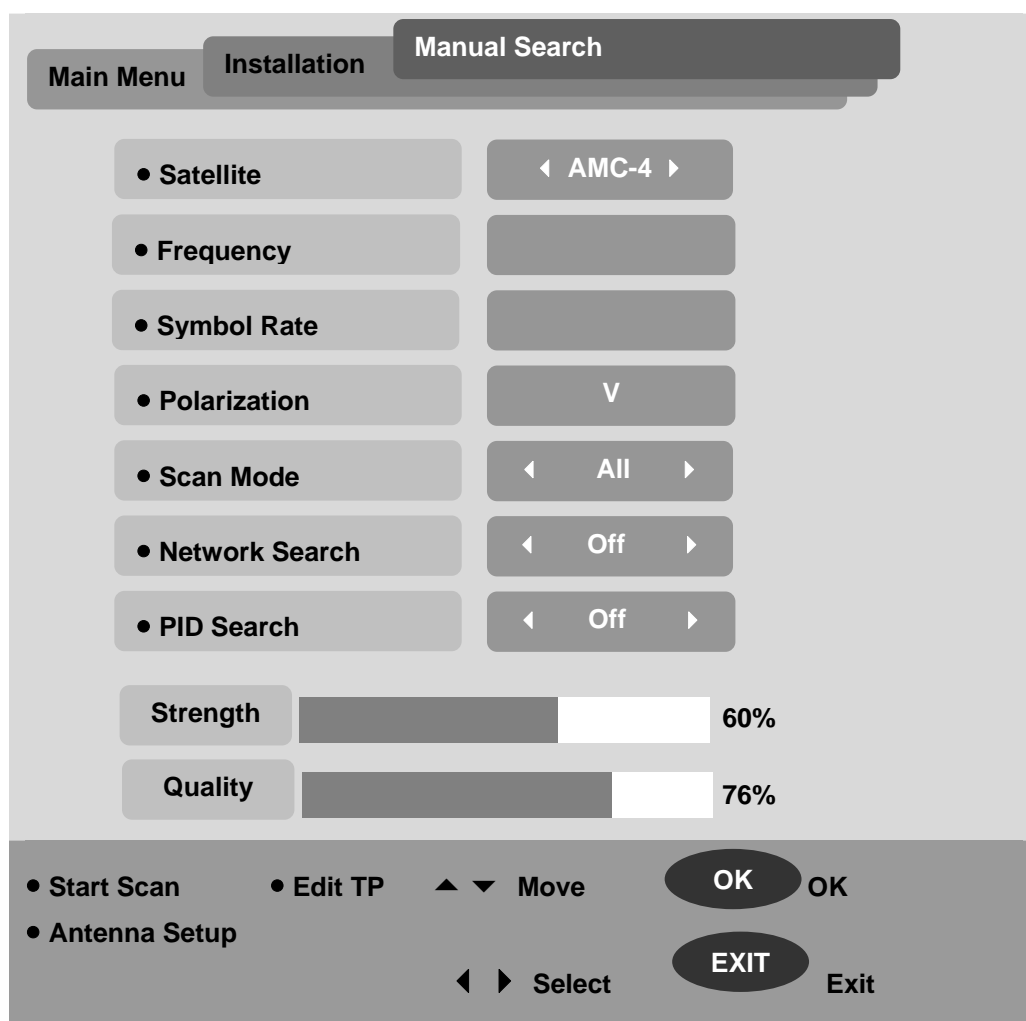
- Navigation:** 'Main Menu', 'Installation', and 'Manual Search' tabs are at the top.
- Configuration Settings:**
 - Satellite:** ◀ AMC-4 ▶
 - Frequency:** ◀ 12120 ▶
 - Symbol Rate:** 30000
 - Polarization:** V
 - Scan Mode:** ◀ All ▶
 - Network Search:** ◀ Off ▶
 - PID Search:** ◀ Off ▶
- Signal Metrics:**
 - Strength:** 60%
 - Quality:** 76%
- Bottom Controls:**
 - Start Scan
 - Antenna Setup
 - Edit TP
 - ▲ ▼ Move
 - ◀ ▶ Select
 - OK OK
 - EXIT Exit
- Satellite List:** A list of satellites is shown on the right, with 'AMC-4' highlighted. The list includes: AMC-1, AMC-4, Galaxy 16, IA 5, Galaxy 3C, and IA 6.

Frequency

It shows the frequency of the transponder user selected. Press OK to display the list of existing frequencies. If the frequency exists in the list, the corresponding symbol rate and polarization are also confirmed.



When user selects new TP stored on the bottom of the list, user can input the frequency by using digital keys from 0 to 9; furthermore, the symbol rate and polarization also need to be input by user. User can set the polarization of the transponder to Horizontal or Vertical. In horizontal case, the 18V and in vertical case, the 13V are output through LNB line.



Scan Mode There are two scan modes in this entry, select by pressing ◀/▶ key. If scan mode is set to 'All', all the channels in the transponder that are selected will be downloaded when the signal is locked. If scan mode is set to 'FTA', only free-to-air channels will be downloaded.

Network Search Press ◀/▶ key to select either ON or OFF. When 'ON' is selected, pressing the Red key will bring the menu to TP search menu and all the channels in the network table will be downloaded.

PID Search In PID search mode (ON), user is provided with the searching of a specified services by inputting it's a/V/PCR PID's. When 'ON' is set and 'OK' is pressed, user will be able to search by PID menu.

User can set the PID information in services searching. The PID is in decimal value. Press the keys 0...9 to enter the value.

The meanings of these items are explained in Manual Searching menu except for:

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.

Main Menu **Installation** **Manual Search**

- Satellite ◀ AMC-4 ▶
- Frequency ◀ 12120 ▶
- Symbol Rate 30000
- Polarization V
- PID Search ◀ On ▶
- Video PID
- Audio PID
- PCR PID

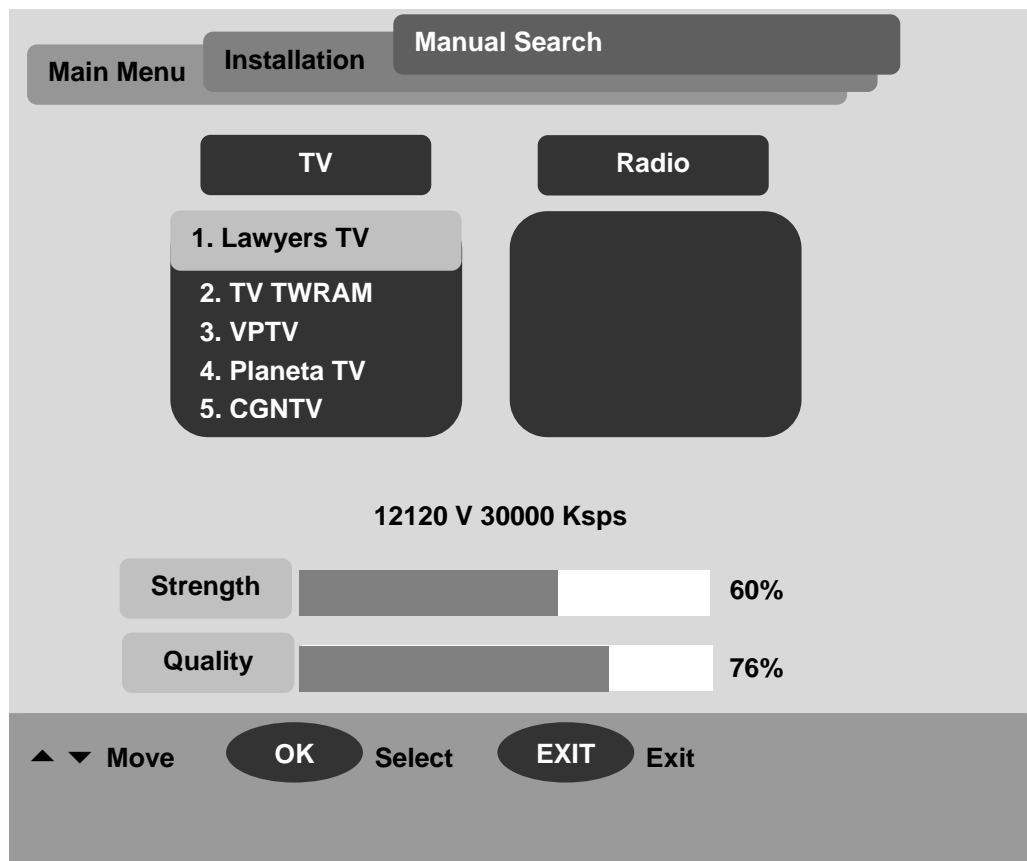
Strength ██████████ 0%

Quality ██████████ 0%

• Start Scan • Edit TP ▲ ▼ Move **OK** OK

• Antenna Setup ◀ ▶ Select **EXIT** Exit

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

TP Scan Menu

Start Scan Press Red key to get into TP Scan menu.

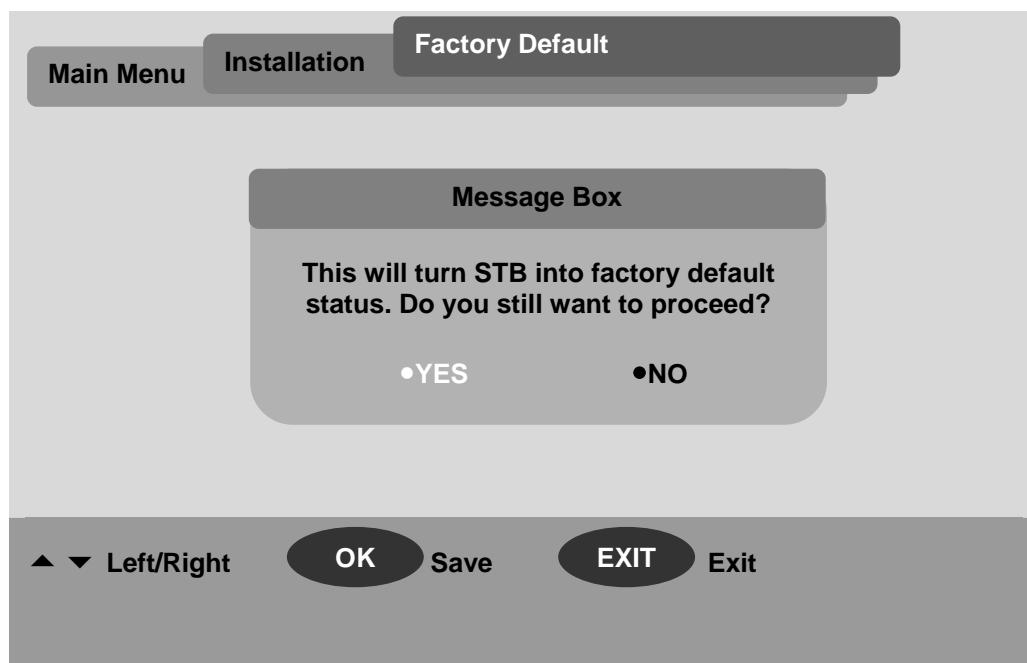
Antenna Setup Press Blue key to return to antenna setting menu.

Edit TP Press Green key to edit the current TP parameter.

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

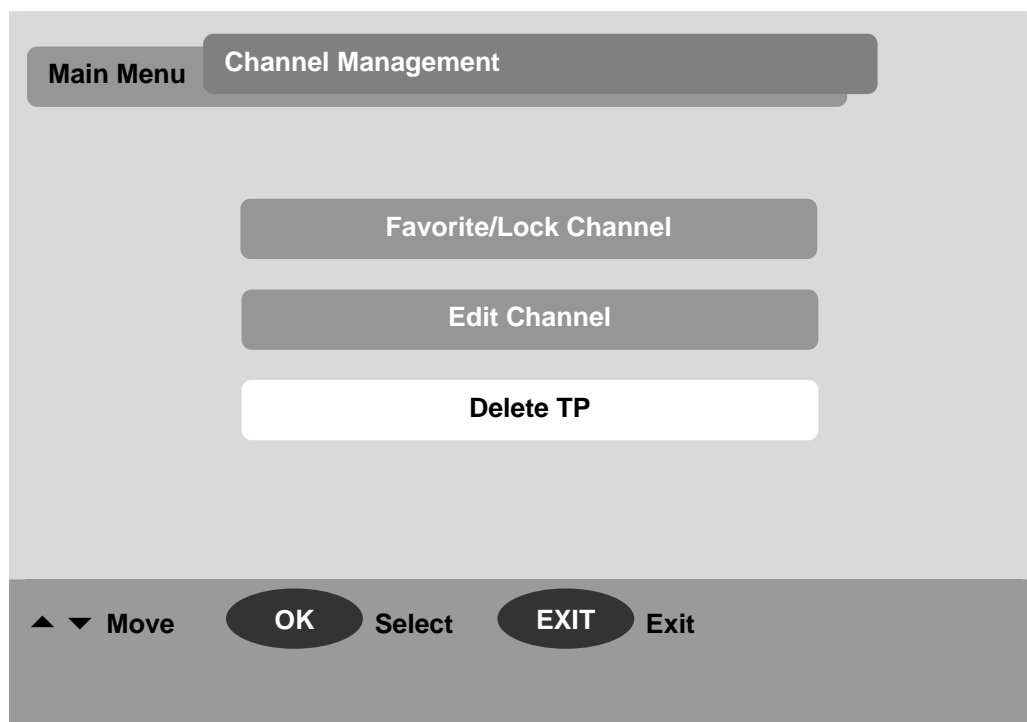
5.1.3.1.4 Factory Default

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.



5.1.4 Channel Management

This menu gives user the options to mark Favorite / Lock their TV and Radio channels. User can Rename, Delete, Move and Edit an existing service. Besides services, all existing TP can also be deleted.

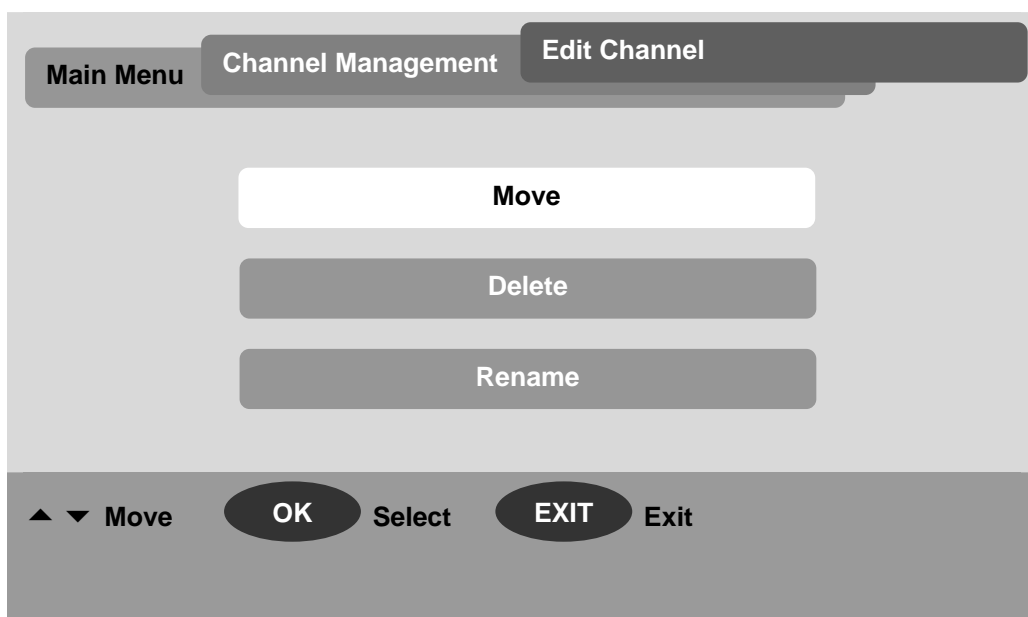


5.1.4.1 Favorite/Lock Channel This menu allows users to mark favorite/lock the existing channels.

1. Press OK key to enter the favorite/lock menu
2. Press ▲/▼ key to select a channel.
3. Press Yellow key to mark favorite for channel selected.
4. Press Blue key to lock the channel you selected.
5. Press TV/RADIO key to switch the channel list between TV and Radio.
6. Press Exit key to exit this menu. Upon exiting, a message box will be displayed.

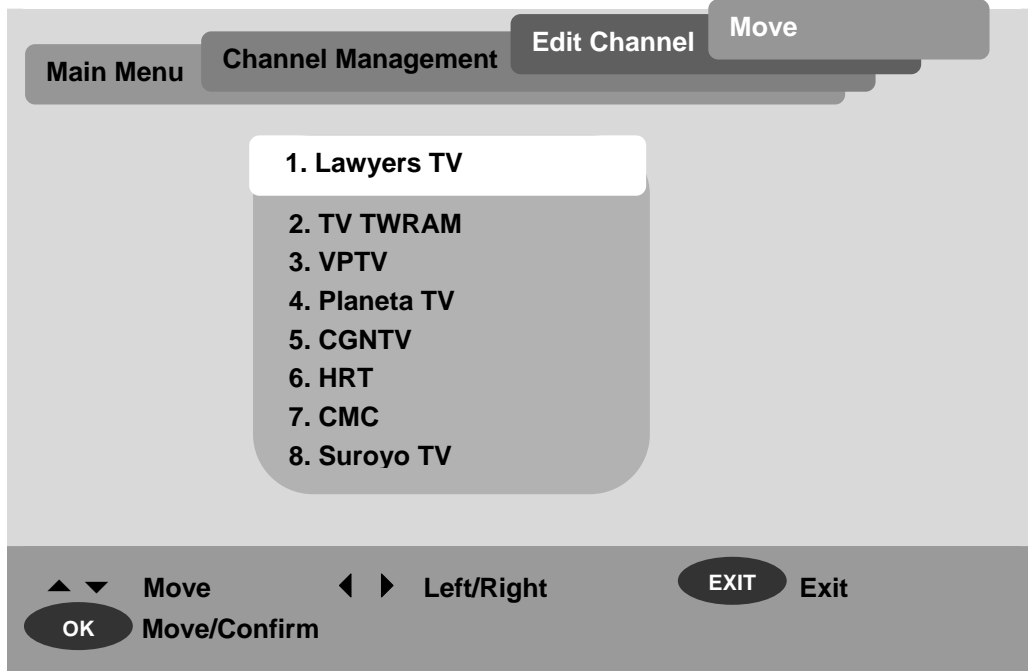


5.1.4.2 Edit Channel This menu allows users to Move, Delete and Rename TV services.

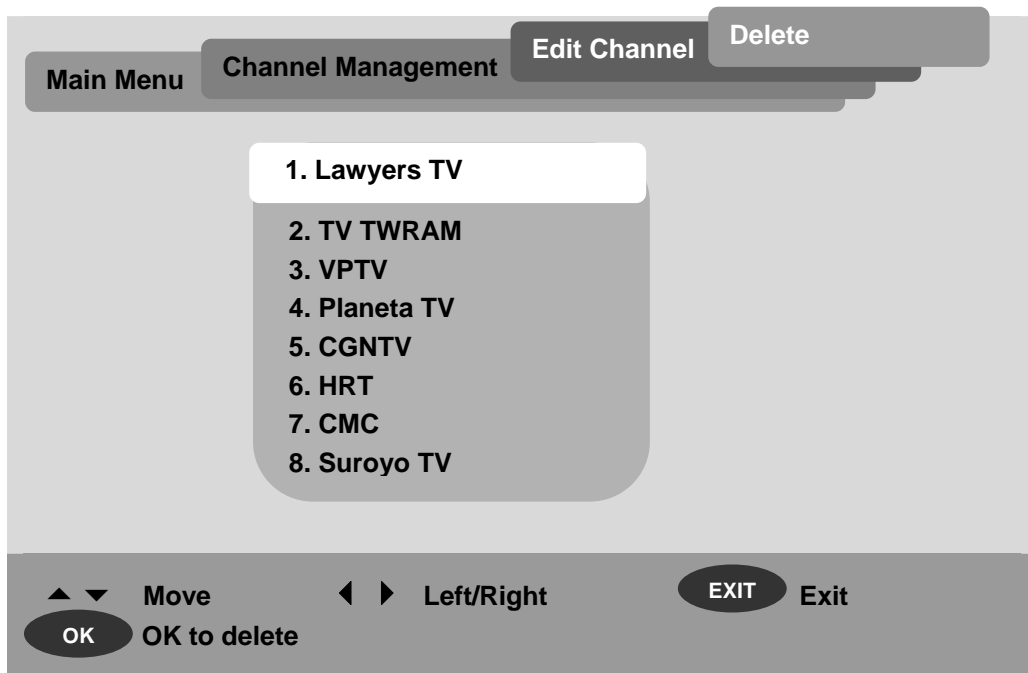


5.1.4.2.1 Move

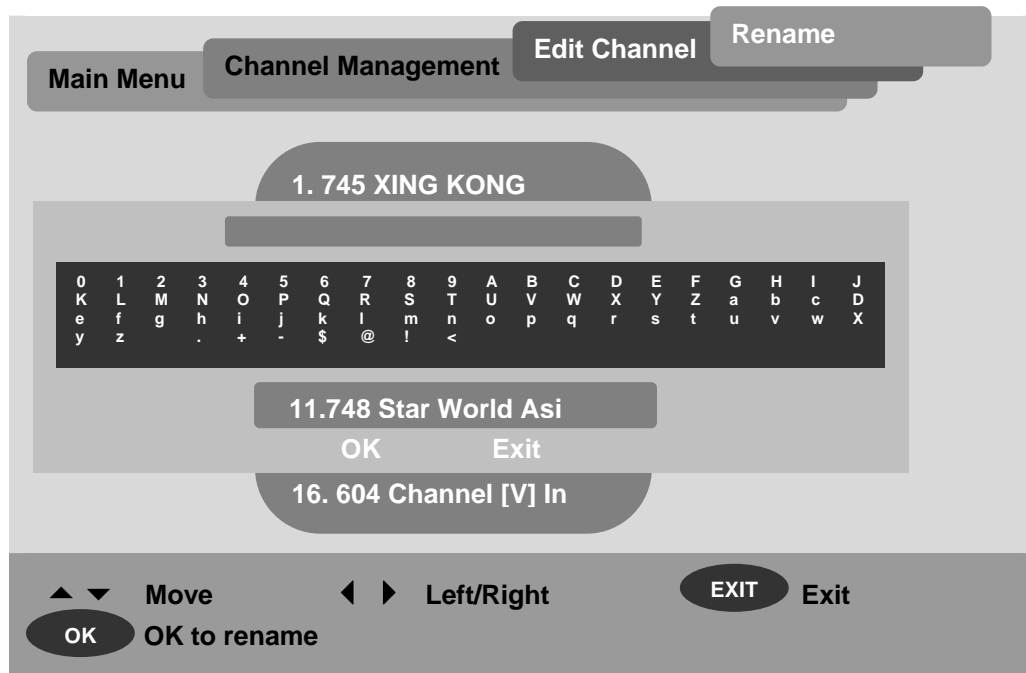
1. Press ▲/▼ key to select a channel that you would like to move.
2. Press OK key to confirm. The color of this service will become grey.
3. Press the ▲/▼ key to move the highlighted channel to a new position.
4. Press the OK key to confirm. There will be a message box indicating 'Yes' or 'No' selections. Press YES to final confirm or press NO to cancel.

**5.1.4.2.2 Delete****Delete**

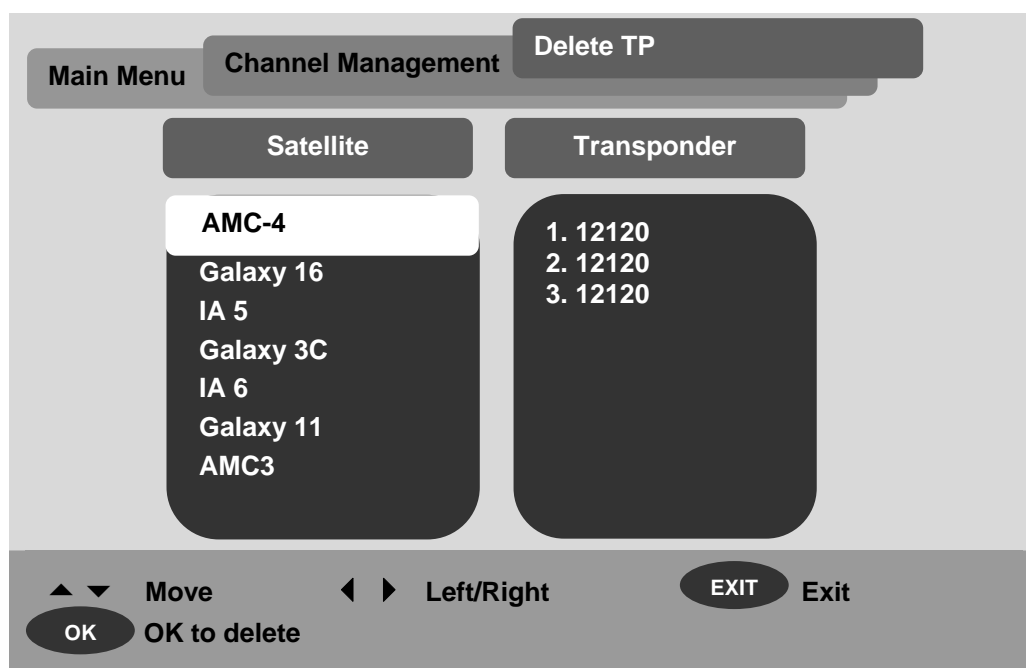
- User can delete unwanted channels by:
1. Press ▲/▼ key to select a channel that you would like to delete.
 2. Press OK key, a message box will appear.
 3. Select 'No' to cancel or 'Yes' to confirm.



- 5.1.4.2.3 Rename**
1. Press ▲/▼ key to move to the service.
 2. Press OK key, the 'Rename' box will appear.
 3. Press ▲/▼ or ◀/▶ key to select the desired character.
 4. Press ▼ key to select OK key.
 5. Press OK key to confirm or MENU key to discard the changes and exit.



- 5.1.4.3 Delete TP**
1. Press ▲/▼ key to move to the satellite you want to select in satellite list.
 2. Press ▲/▼ or ▶ key to select the TP you want to delete.
 3. Press ▲/▼ key to move to the TP you want to select in transponder list.
 4. Press OK key, a confirmation message box will appear.
 5. Select YES to delete or NO to cancel.



5.1.5 System Setting

5.1.5.1 Time Setting

Time Zone

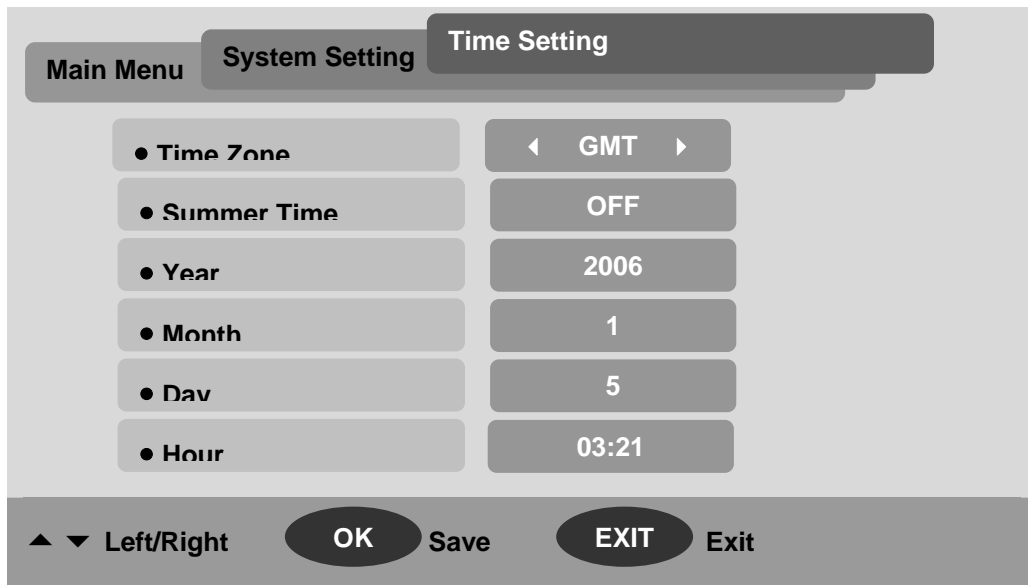
Set the local time zone offset of GMT from -12 to +12.

Summer Time

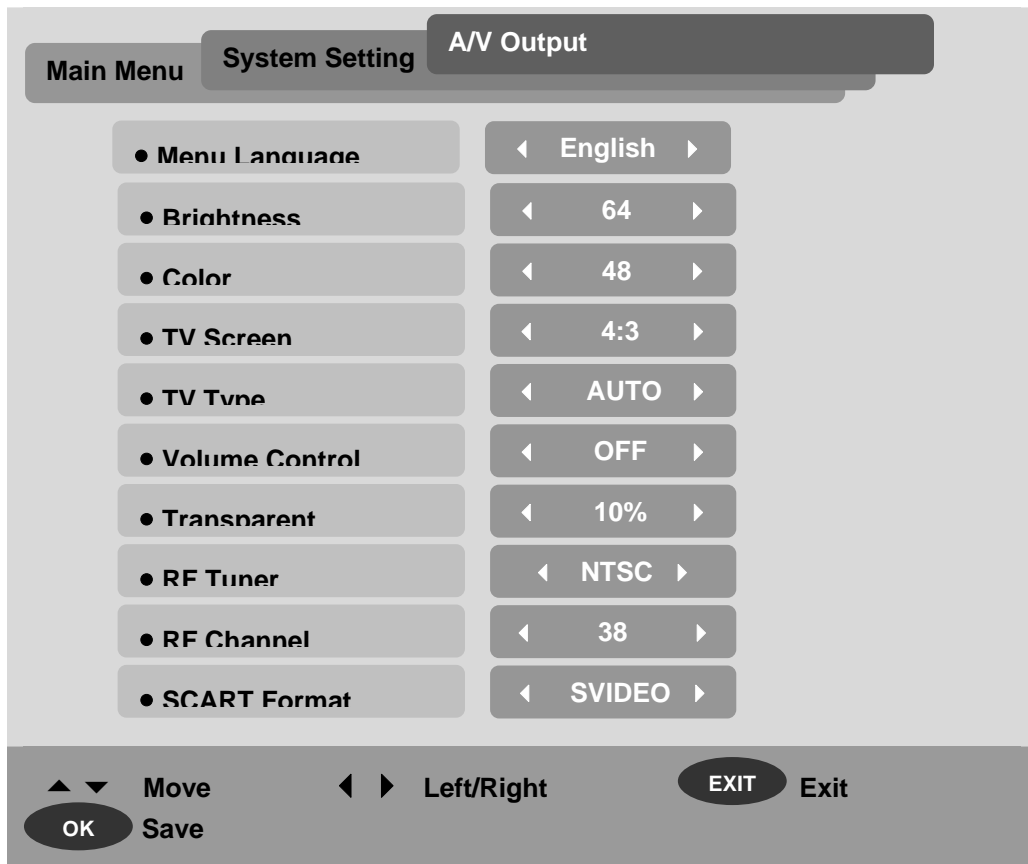
Set it to ON or OFF. 'ON' means summer time function works.

Year/Month/Day/Hour.

This option is only provided to show the current time. It is not changeable by user.



5.1.5.2 A/V Output



Menu Language	User can select the menu language, such as English, Chinese, etc.
Brightness	User can select the brightness value.
Color	User can select the color value.
TV Screen	User can set the screen aspect ratio of TV (4:3, 4:3panscan, 4:3LB, 16:9, or 16:9pillar)
TV Type	User can set the video output mode to <i>Auto</i> , <i>NTSC</i> or <i>PAL</i> .
Volume Control	User can set the volume control mode to ON or OFF. If ON is set, the volume is not adjustable, if OFF is set, the volume is adjustable.
Transparent	User can adjust transparent to any status from 0% to 100%.
RF Tuner	User can select RF output mode of NTSC, PAL_DK, PAL_BG, PAL_I if RF is enabled.
RF Channel	User can select the RF output channel from 21 to 69.
SCART Format	User can set scart output format

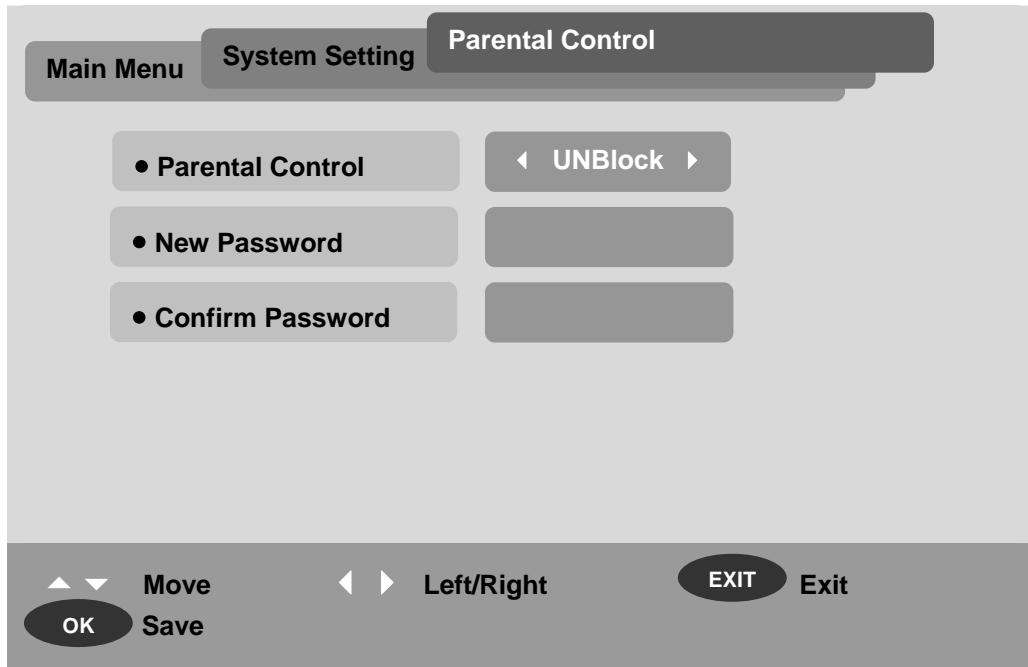
Press OK key to save the changed settings or press EXIT to cancel.

5.1.5.3 Parental Control

To enter this menu, the current password is required. The default password is "0000".



Parental Control User can press ◀/▶ key to switch select parental control option among UNBLOCK, 10,13, 16, 18 and ALL_BLOCK.



UNLOCK If set to 'UNBlock', all the channels are viewable no matter the selected channel is categorized by age 10/13/16/18. If set to '10/13/16/18', only users whose age is equal to or more than the channel's defined can view the particular channel.

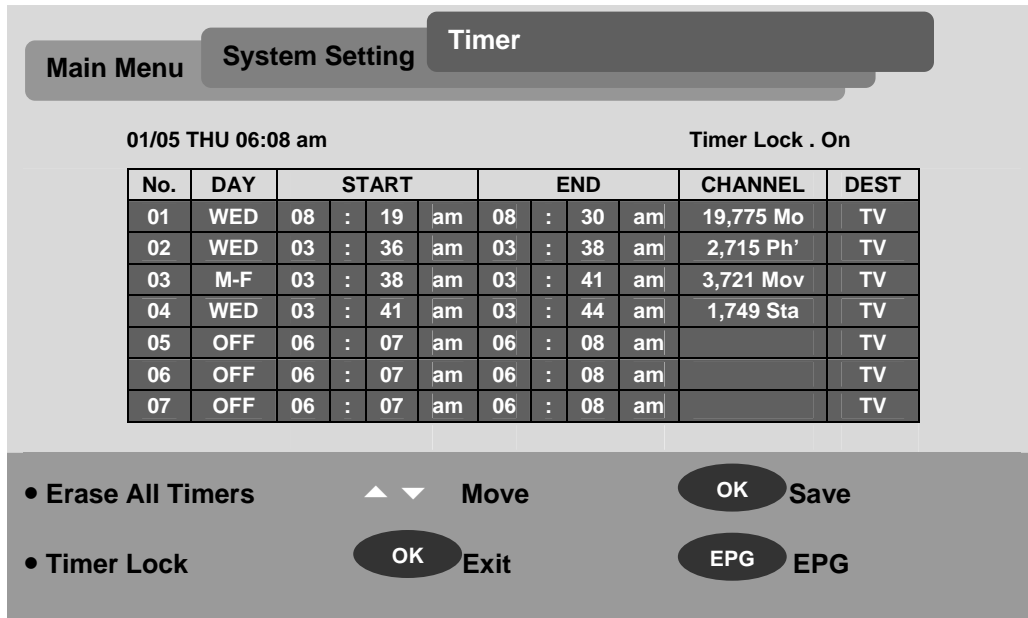
ALL_BLOCK If set to 'All_Block', all the channels are not viewable until a correct pin code is keyed in by user.

New Pin Code To change the Pin Code, input new Pin code (four digits)

Confirm Password Confirm the new pin code if it is same with new pin code.

After all changed settings are finished, press OK key to save.

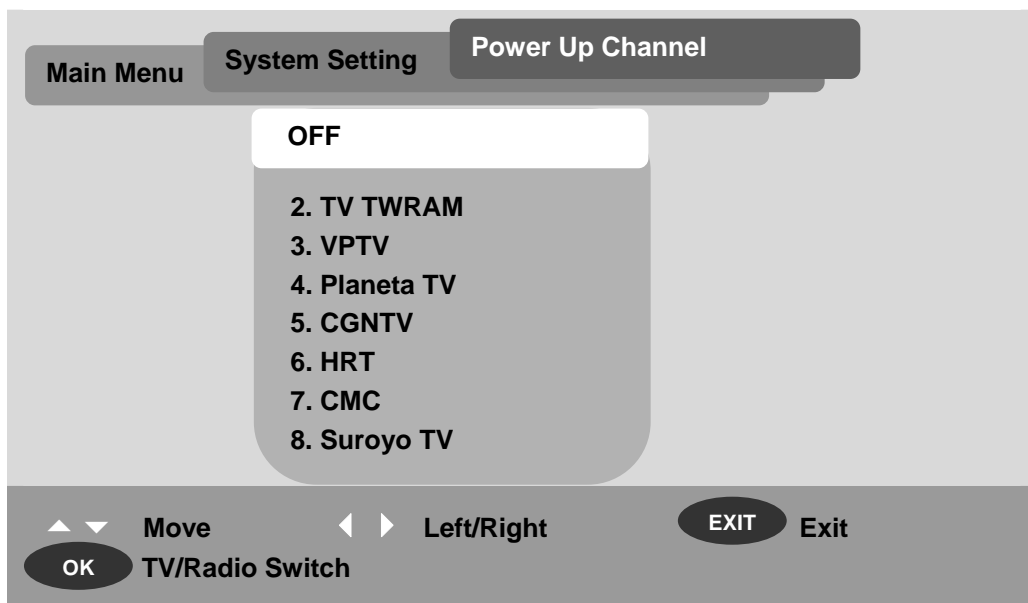
5.1.5.4 Timer This menu provides the users to record the programs they want to view.



The record event can be captured from the EPG event by pressing the EPG key from EPG MENU or users can input it manually.

1. Press RED key to erase all timers
2. Press BLUE key to lock the timer, every timer event can be run as scheduled correctly.
3. Press BLUE key twice to unlock the timer, if the timer lock is set to off, then all the timers will not work.
4. Press ▲/▼ key to move the event up/down or change the time values.
5. Press OK key to save the timer recording event and exit this menu.
6. Press EPG key to enter into EPG MENU.
7. Press EXIT directly to cancel the settings and exit this menu. Settings will not be saved.

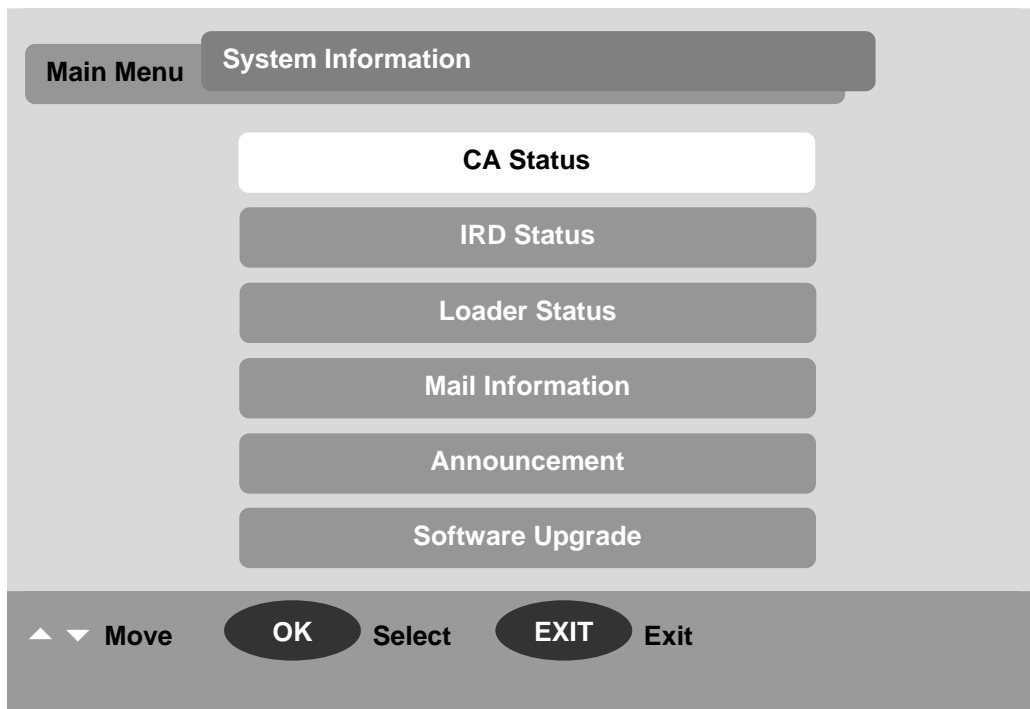
5.1.5.5 Power up Channel This is to set the selected channel to be the power up channel.



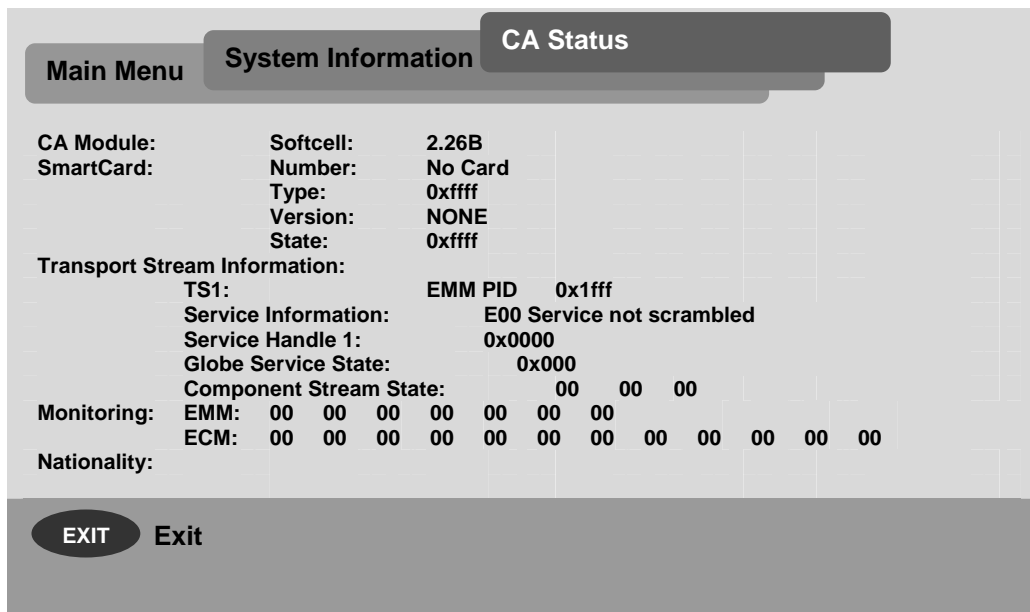
1. Press ▲/▼ key to select the channel you want.
2. Press OK key to confirm this channel to be the power up channel, a confirmation message box will appear.
3. Select Yes to save or No to cancel.
4. Press TV/RADIO key to switch the channel list between TV and Radio.

5.1.6 System Information

This menu provides the system information, including CA status, IRD status, Loader status, Mail Information, Announcement and Software Upgrade.

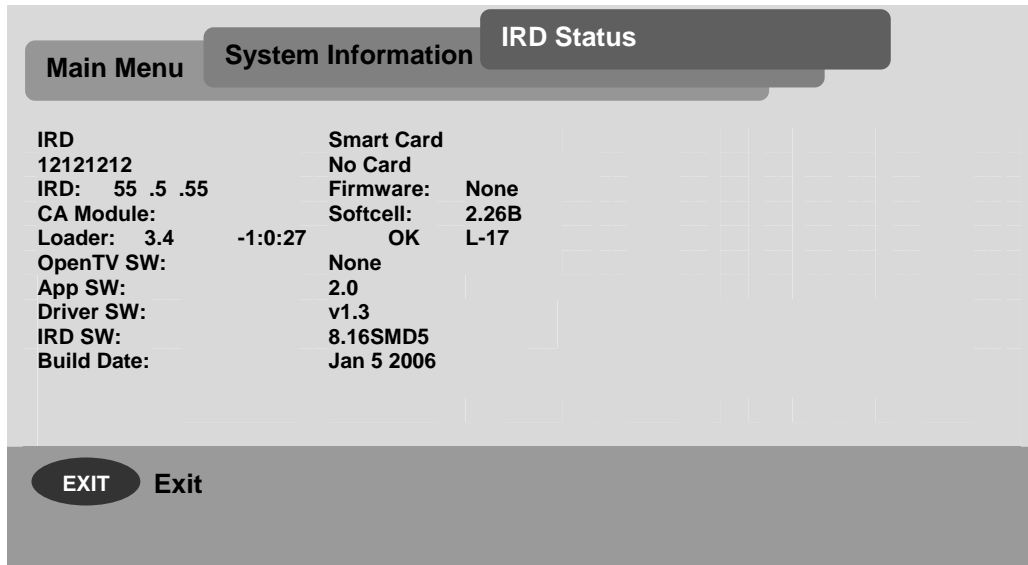


5.1.6.1 CA Status To view the status of CA system.



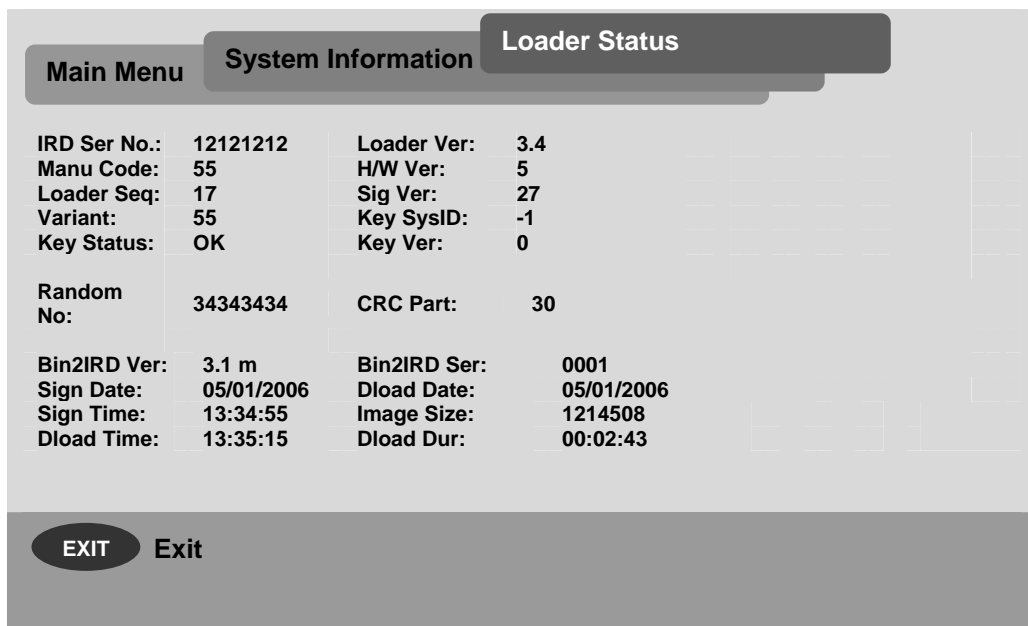
5.1.6.2 IRD Status

To view the system status.



5.1.6.3 Load Status

To view the status of loader.



5.1.6.4 Mail Information

To view the mail content sent from head-end.

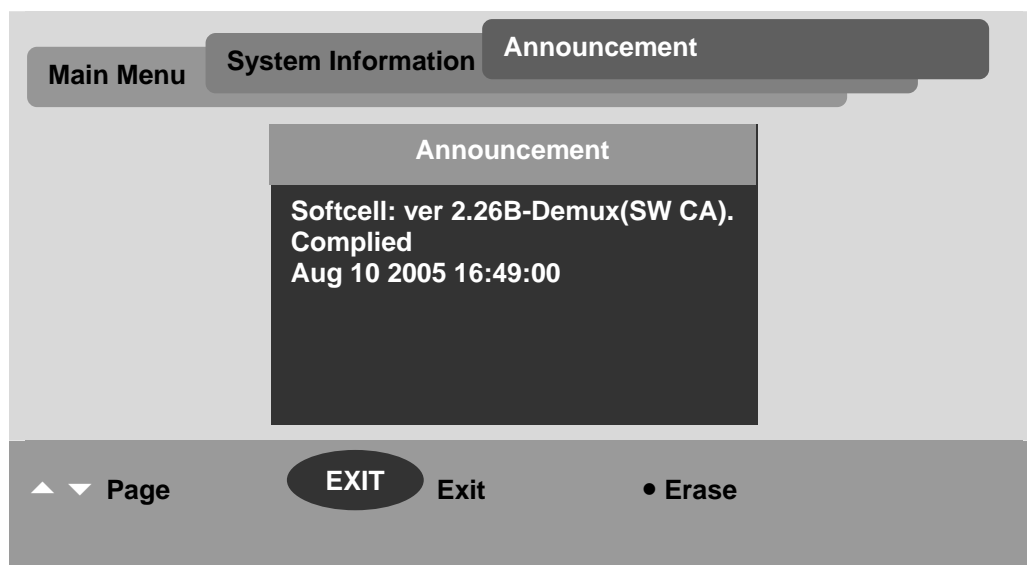
1. Press ◀/▶ key to wrap the mail.
2. Press Exit key to exit this menu.
3. Press Erase key to clear all the emails.



5.1.6.5 Announcement

To view the announcement content sent from head-end.

1. Press ◀/▶ key to wrap the announcement
2. Press Exit key to exit this menu.
3. Press Erase key to clear all announcements.



5.1.6.6 Upgrade Software

To download the new software from current satellite service. After pressing the "OK" key to download, the message shall be displayed on the screen. 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.

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, symbol rate. This receiver can provide you with rich and abundant digital satellite TV programs.

6.2 Major Features

- MPEG-2 (MP@ML) and DVB-S compatible
- Enhanced OSD (On Screen Display) screen font
- Storages of up to 3,000 channel data, 2,000 TV programs, and 1,000 radio programs
- EPG (Electronic Program Guide) capability
- The volume is adjustable
- High-resolution picture quality and high fidelity stereo output
- SAP (Second Audio Program) stereo capable
- Capable of setting PID code to receive specified programs
- Signal strength and quality display for convenient dish installation and/or adjustment
- Software download capability via RS-232 port (optional)
- Embedded Irdeto conditional access with smart card reader

Standards	MPEG-2 DVB-S
Tuner	QPSK
Symbol Rate	2 ~ 45 MSps
Input Frequency Range	950 ~ 2150 MHz
Input Signal Range	-65 ~ -25 dBm
Input Signal Terminal	F-type
Video Decoder Format	MPEG-1, MPEG-2
Video Output Format	PAL/NTSC (Automatic switching)
Video Output Aspect Ratio	4:3, 16:9 and 4:3LB
Video Output Resolution	PAL (720x576), NTSC (720x480)
Audio Decoder Format	MPEG-1, MPEG-2
Audio Output Mode	Single, Dual and Stereo
Audio/Video Output Connectors	1 x RCA A/V
LNB Polarization Voltage	13/18 Volts with Short-Circuit Protection
LNB 22KHz Control	ON / OFF, AUTO
DiSEqC Version	1.2
Input Voltage	90-240 Volts, 50/60 Hz
Power Consumption	30 Watts
Dimensions	300mm (W) x 237mm (D) x 58mm (H)



© [2001] Irdeto Access and others. Any and all copying, reproduction, modification, reverse engineering, analysis, extraction or disassembly of included hardware and software is prohibited and prosecutable.



Tested To Comply
With FCC Standards

FOR HOME OR OFFICE USE

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

DIGITAL SET-TOP-BOX

COPYRIGHT Home2US Communications, Inc.