1-2-3 DiSEqC Position

On/Off : If you use Tone Burst mode, select one.
1/2/3/4 : If you use Full mode, select one.

1-2-4 Repeat

Off/1/2 : If you use Full mode, select repetition number.

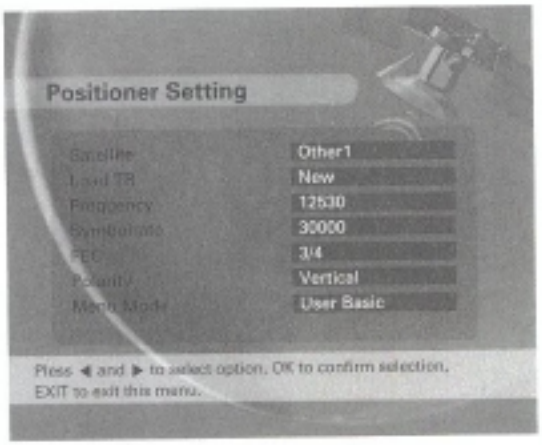
1-2-5 Remote Frequency

If you selected SMATV mode, Input frequency range 950-2150MHz can be entered.

1-3. Positioner Setting

If you have a DiSEqC 1.2 motorised system then you can take advantage of the DiSEqC 1.2 functions available.

To use this menu, you must set Positioner in DiSEqC Mode at **"2.DiSEqC Setting"** Otherwise, you will get this error message - **"Please set DiSEqC mode as positioner first"**.

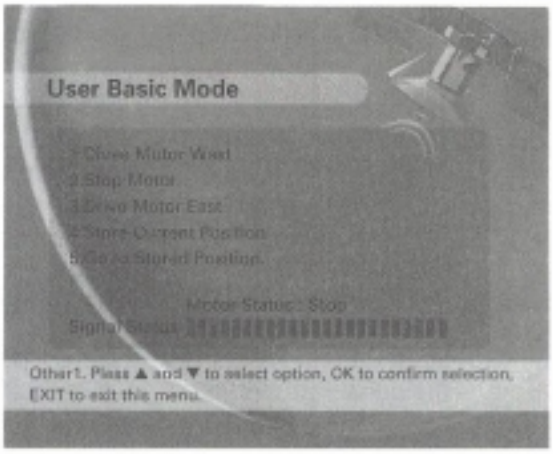


Select any TR from above satellites and check out the Frequency, Symbolrate, FEC and Polarity.
If there is no problem, select one from Menu Mode (**"User Basic"**, **"User Advanced"**, **"Installer"**)
Select **"User Basic"** mode if the Positioner moves around a lot, select **"User Advanced"** mode if Positioner needs to move into details, and Select **"Installer"** mode when Installer installs and uninstalls the Positioner's limit.

* Recommendation : General User uses **"User Basic"** or **"User Advanced"** mode.

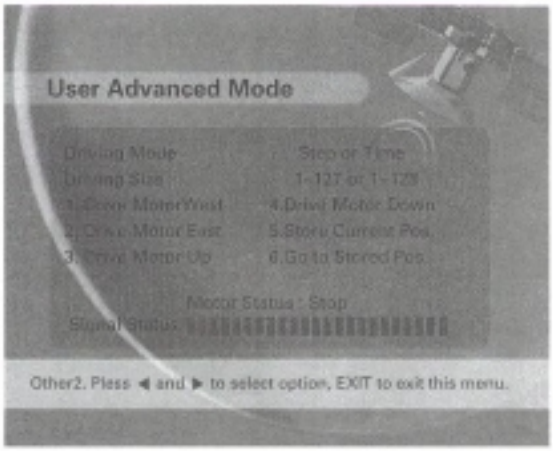
EN

1-3-1 User Basic Mode



1) Motor Driving West : When you want to turn the motor to the West, select this.
2) Stop Motor : When you want to stop the motor, select this.
3) Motor Driving East : When you want to turn the motor to the East, select this.
4) Store Current Position : Save current positioner's state. When the signal status is yellow, save the current positioner's state.
5) Go to Stored Position : Move to the saved positioner's state.

1-3-2 User Advanced Mode

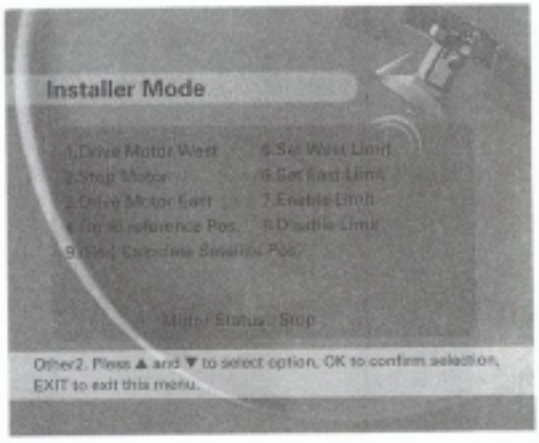


Driving Mode : When you move positioner, this decides the positioner's movement type Step or Time
Driving Size : It decides Positioner's movement range.

1) Motor Driving West : When you want to turn the motor to the West, select this.
2) Motor Driving East : When you want to turn the motor to the East, select this
3) Motor Driving Up : When you want to turn the motor upwards, select this.
4) Motor Driving Down : When you want to turn the motor downwards, select this.
5) Store Current Position : Save current positioner's state. When the signal status is yellow, save the current positioner's state.
6) Go to Stored Position : Move to the saved positioner's state

1-3-3 Installer Mode

After checking the positioner's state, installer should use this menu. Installer should set the Disable Limit before using other(user basic or user advanced)menu.



1) Motor Driving West : When you want to turn the motor to the West, select this.
2) Stop Motor : When you want to stop the motor, select this.

EN

3) Motor Driving East : When you want to turn the motor to the East, select this.
4) Go to reference Pos.: When you want to turn the motor to the center, select this.
5) Set West Limit : Set the current position to the West Limit. After setting this mode, select **"7.Enable Limit"**.
6) Set East Limit : Set the current position to the East Limit. After setting this mode, select **"7.Enable Limit"**.
7) Enable Limit : This mode enables **"5.Set West Limit & 6.Set East Limit"**.
8) Disable Limit : This mode disables **"5.Set West Limit & 6.Set East Limit"**.

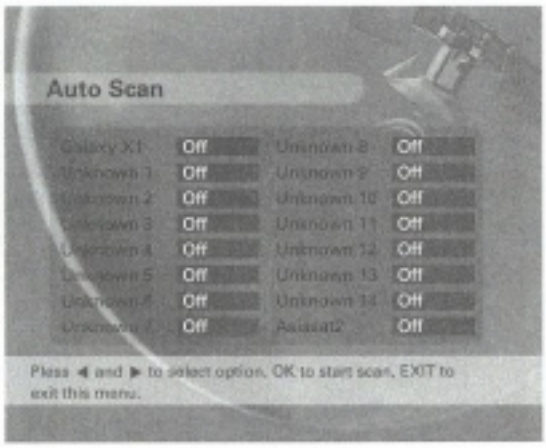
❈ **Moving time is dependent on the kind of Positioner and the size of Dish antenna.**

1-4. Auto Scan

The sub menu **'AUTO SCAN'** will enable download of off-air channels automatically from the preprogrammed Satellites. Pressing 'OK' key will display the Auto Scan menu.

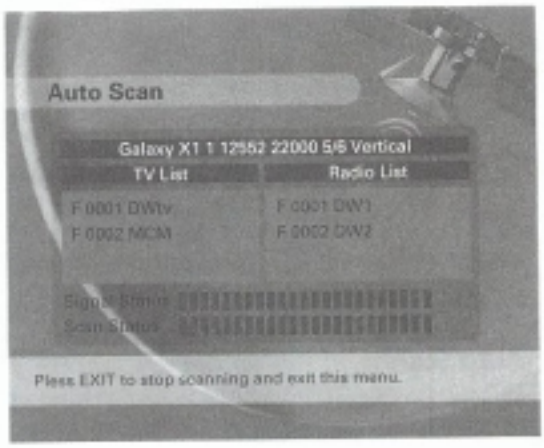
The preprogrammed Satellites will be listed on the screen.

TO DOWNLOAD CHANNELS AUTOMATICALLY:
Select appropriate Satellite, the Auto Scan menu, and press **'OK'**. All the channels in the list from the selected Satellite will be automatically downloaded.



You can select Off/All/Free option mode in each satellite.

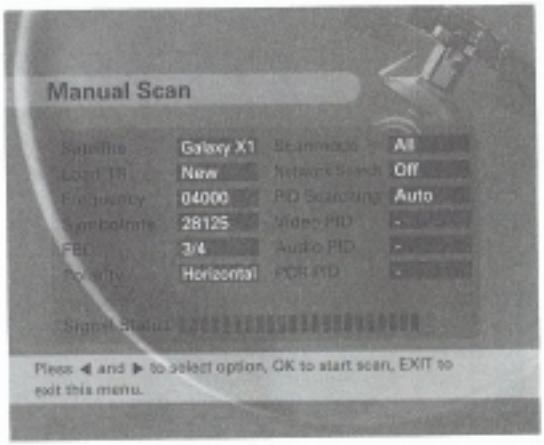
Off : No Scan.
All : Scan all the Free channels & Scramble channels
Free : Scan only Free channels.



After Scan, it returns to the auto scan screen.

1-5. MANUAL SCAN:

To tune-in new channels and weak signals, the DSR9000 has been provided with the option **"Manual Scan"** where the channel data can be entered by the user.
After selecting the **"MANUAL SCAN"** from the Installation Menu, the following screen will be displayed.



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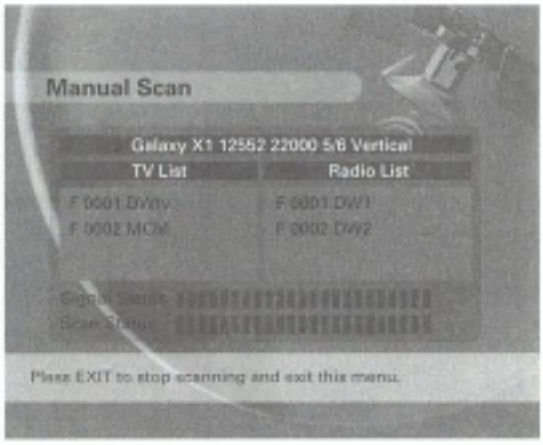
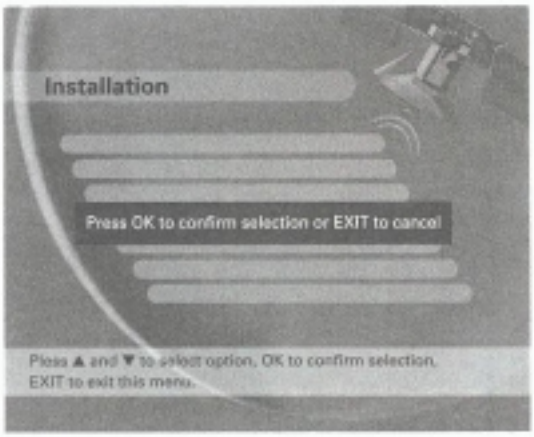
- Satellite
  You can select the target satellite for manual search.
- Load TR
  This option will enable the user to load any transponder from the preprogrammed list available within the receiver.
- Frequency
  Input the frequency of the transponder you want to find manually.
- Symbol rate
  Input the symbol rate of the transponder you want to find.
- FEC(Forward Error Correction)
  Select the FEC of the transponder you want to find.
  You can select the value of 1/2, 2/3, 3/4, 5/6, 7/8 or auto,
- Polarity
  Select the polarization of the transponder you want to find.(Horizontal/Vertical/Auto). In the case of horizontal, 18V and in the case of vertical, 13V are output through LNB line.
- Scanmode
  All ➜ scan all channel.
  Free ➜ skip all scrambled services.
- NIT Search
  You can find more transponders using the home network.
- PID Searching
  You can manually search by entering PID(Video/Audio/PCR) values.
  After select option, press **"OK"** key, then it start scan.



1-6. RESET TO FACTORY DEFAULTS:

This to restore the factory set values in case the user has encountered some problems after changing any values of channel data and others which may be in error. The screen display will be as follows:



At the request window, if you press OK key, the receiver will be reset to factory default settings automatically.

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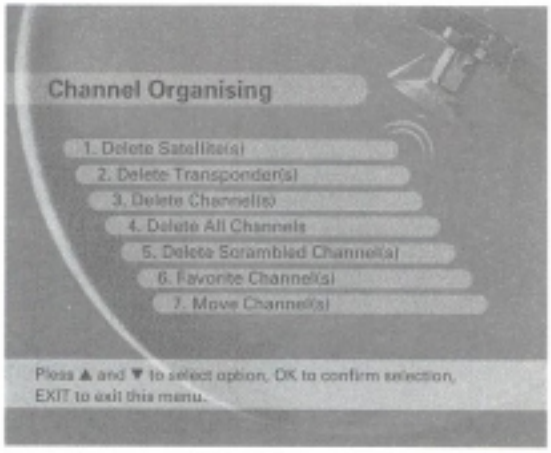
2. CHANNEL ORGANISE

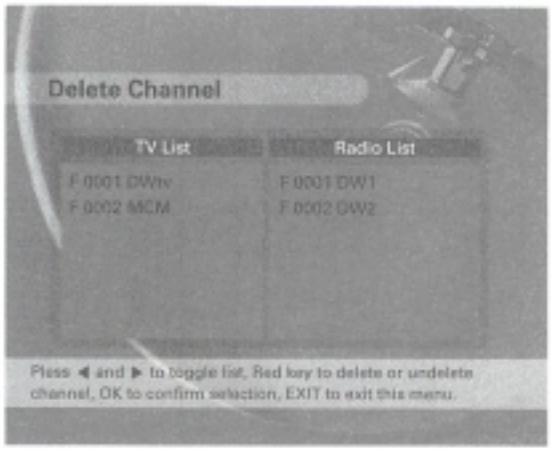
The "Channel Organising" menu has three functions:



The "Channel Organising" menu is used to delete the channel or to make Favorite list or move channel.

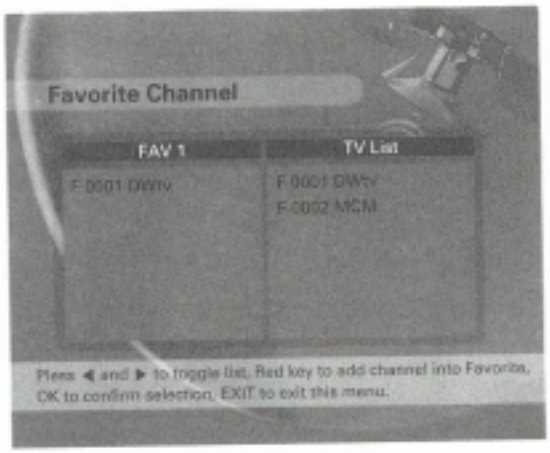
The functions are:

2-1. Delete Channel



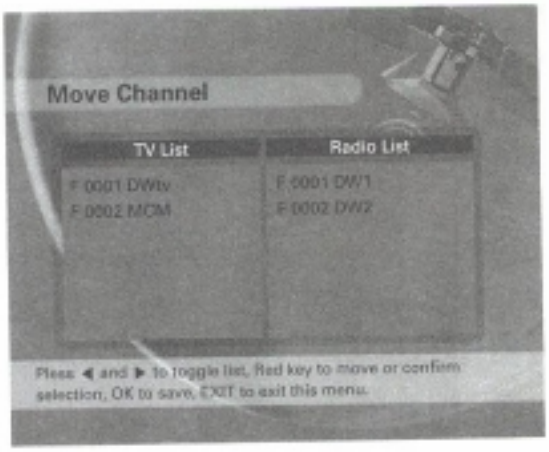
Delete TV or Radio channel from the current list.
Delete the channel by pressing i key to select all the channels you want to delete and then press OK key.

2-2. Favorite Channel



You can change TV List or Radio List by TV key and change favorite list by FAV key
This way, you can save up to 30channels per each 4 favorite TV & Radio lists.
You can add or delete from the favorite list by pressing i key in the TV list or Radio List.

2-3. Move Channel

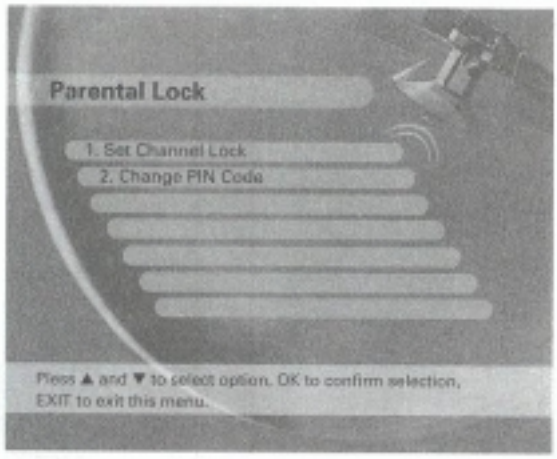


Select the channel by pressing the i key.
Press channel Up, down, VOL+/VOL- key to move to desired channel and press i key again.
To return to previous state.

EN

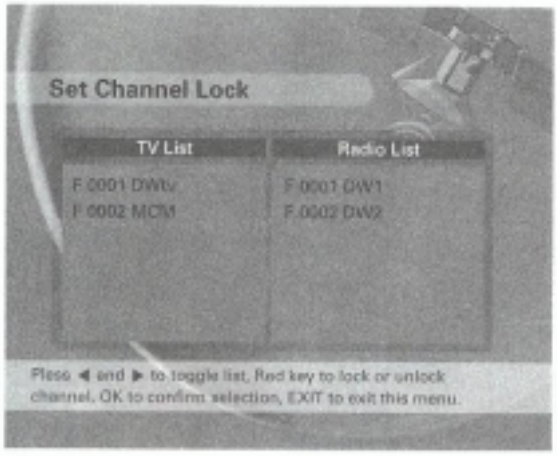
3. PARENTAL LOCK

This "PARENTAL LOCK" feature sets viewing restrictions and prevents unauthorized access to your DSR9000 through the PIN(PERSONAL IDENTIFICATION NUMBER), which is a 4-digit number.



On selecting this menu, you will have two options. to set lock for any desired channel and to change your PIN value.

3-1. Set Channel Lock

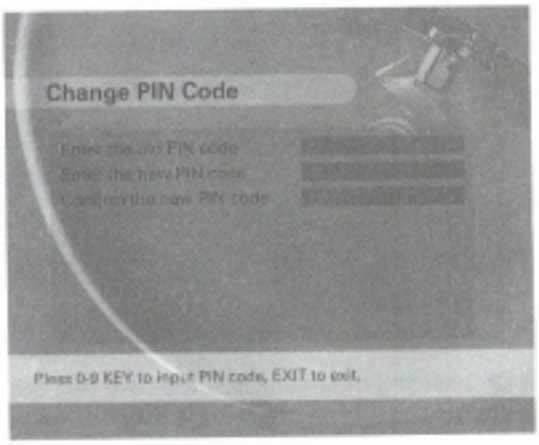


To set lock for any channel, select this option and from the channel list, select the channel to be locked and press 'i' key. This will lock the channel. Whenever you need to view the channel, you will have to enter the PIN at the request window.

3-2. Parental Lock

To change the PIN, select the second option **"Change PIN Code"**. This will take you to the following menu:

In this option, you need to enter the current PIN code at the first cursor, and at the second cursor enter the desired PIN code. To confirm, you need to enter the new PIN code again.



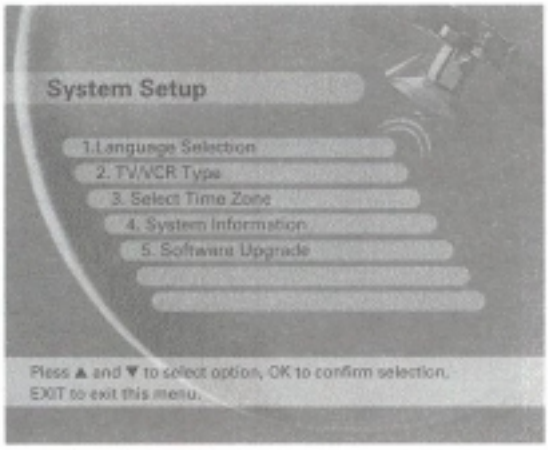
Please remember the PIN code should be a 4 Digit numerical value.

THE FACTORY PRESET PIN CODE : 0000

EN

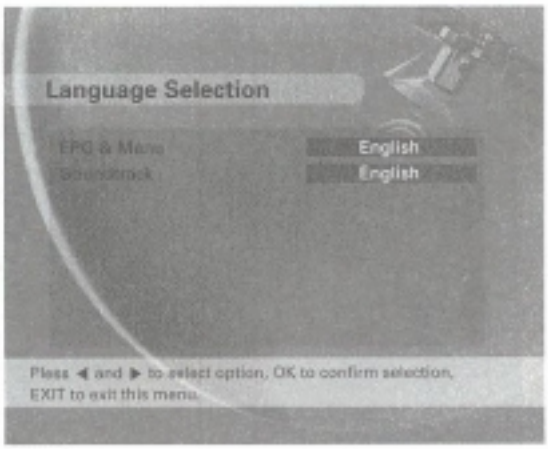
4. SYSTEM SETUP

This option enables you to set the DSR9000 with your existing systems.
Place the cursor at the menu and press **"OK"**. This will have six sub menus. Each sub menu will enable you to set different parameters.



4-1. LANGUAGE SELECTION

The first option is **"LANGUAGE SELECT"** to select the desired language of the EPG & Menu display or Soundtrack.

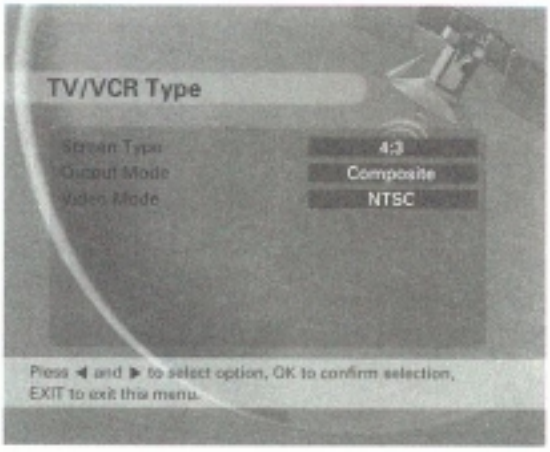


To accommodate user from different regions speaking different languages, the menu display is available six languages. To select the desired language menu, press left and right to change language and press **"OK"**. The EPG & menu or Soundtrack will

change to the selected language.

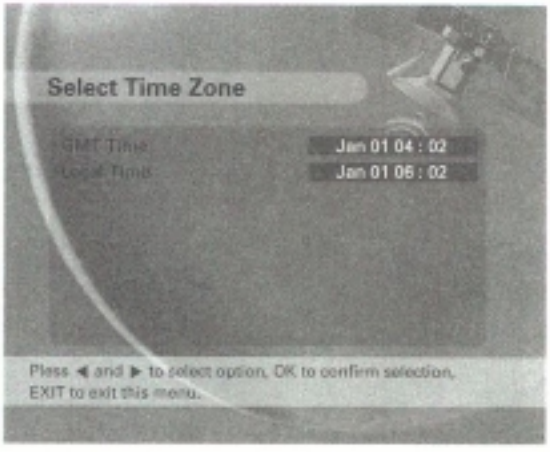
4-2. TV/VCR TYPE

Select the TV type according to your TV; either STANDARD 4:3 ratio or WIDE SCREEN 16:9 ratio type



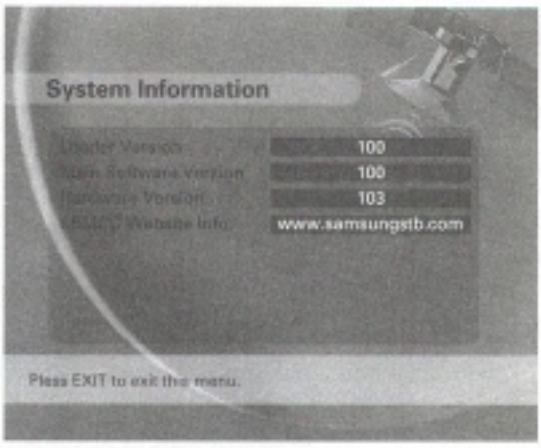
4-3. SELECT TIME ZONE

In this menu option you can set your local time by adjusting the difference in hours from GMT, according to your location.



EN

4-4. SYSTEM INFORMATION

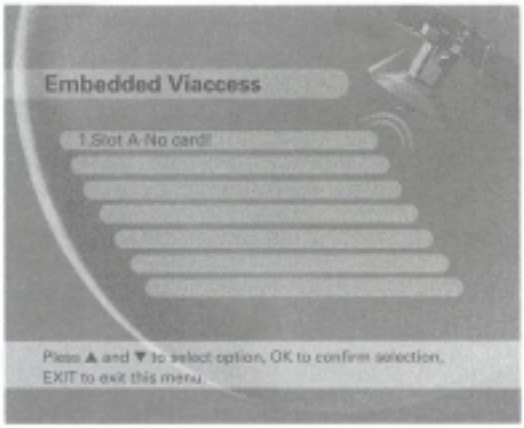


4-5. SOFTWARE UPGRADE:

You can download and upgrade the software of this STB through Galaxy XI satellite when the new software is released.
During downloading don't turn off the STB.

If there is a new version of software to download you press OK key, the update starts right away.
In case update is impossible, you get this message **"You can't update software!"**
Or in case you don't need to update, **"You don't need to update software!"** will be displayed.

5. EMBEDDED VIACCESS



5-1. Change PIN code

The smart card is loaded with a PIN code which can be changed by the user by selecting this option.

5-2. Change Parental Rating

It is possible for the user to choose the parental rating level. Note that this option should be supported by the service provider.

5-3. Change Lock Indicator

You can change the lock status of the Viaccess smart card.

5-4. Issuer Information

When this option is selected it would display the service provider(Smart Card Issuer) information which is loaded in the card.

5-5. Authorization

This option would indicate the authorization status of the smart card.

TROUBLESHOOTING

Problem	*Solution*
About STB	
Does not display LED on the front panel or STB has no power.	• Connect the power cord to the power outlet properly.
No pictures on the screen	• Check whether STB is in standby mode. • Check that the video output port is firmly connected to the TV. • Check that you have selected the correct channel or video output on your TV.
No sound	• Connect the audio cords properly. • Check the volume level of the TV. • Press "MUTE" button.
Remote Control does not operate	• Point remote control directly towards the STB. • Check and replace batteries.
Poor picture quality	• Check the signal strength in the "Auto Scan" menu, if this is low than try adjusting the alignment of your dish.
On-Screen Error Messages	
Searching for Signal	• Connect the antenna cable properly. • Check the LNB. Please replace LNB if necessary. • Check the position of the dish. Please realign dish if necessary. • Check the signal strength in the "Auto Scan" menu.
Please check the Smart card	• Check the smartcard.
Please insert the smart card	• Insert the smartcard.

TECHNICAL SPECIFICATIONS

1. POWER SUPPLY

TYPE	: SMPS
INPUT VOLTAGE	: 95 ~ 240V AC 60 Hz, 30W
FUSE RATING	: 250V/T2A

2. TUNER

FREQ. RANGE	: 950 ~ 2150MHz
INPUT SIGNAL LEVEL	: -65 ~ -25dBm
FIRST IF FREQ.	: 479.5MHz
CHANNEL SELECTION	: PLL FREQUENCY SYNTHESIZER
INPUT IMPEDANCE	: 75Ω UNBALANCED
CONNECTOR TYPE	: 'F' TYPE FEMALE
LNB POWER CONTROL	: 14V/18V, 22KHz TONE
DiSEqC	: 1.2 SUPPORTED

3. DEMODULATOR

TYPE	: QPSK DEMODULATION(DVB-S)
SYMBOL RATE	: 2 ~ 45MS/s
INNER FEC	: VITERBI CONVOLUTIONAL CODING RATE - 1/2, 2/3, 3/4, 5/6, 7/8
OUTER FEC	: REED SOLOMON CODING(204, 188) T = 8

4. VIDEO DECODER

SYSTEM DECODING	: MPEG 2 ISO/TEC 13818 (TRANSPORT STREAM)
PROFILE AND LEVEL	: MPEG2 MP@ML (4:2:2)
DATA RATE	: 1 ~ 15MB/s
VIDEO FORMATS	: 4:3(NORMAL) & 16:9(WIDESCREEN)
PICTURE RESOLUTION	: 720(H) X 480(V)

5. AUDIO DECODER

SYSTEM DECODING	: MEPG 1 ISO/TEC 11172~3 LAYER I & II
AUDIO MODE	: MONO, DUAL, STEREO, JOINT STEREO
SAMPLING FREQUENCY	: 32, 44.1, 48KHz

EN

6. A/V OUTPUT

TV RCA	VIDEO(CVBS, RGB), AUDIO R&L
VCR RCA	VIDEO(CVBS), AUDIO R&L

7. RF MODULATOR

MODULATOR OUTPUT	CH3 / CH4
VIDEO TYPE	NTSC
UHF OUTPUT LEVEL	70±5 dBμV
OUTPUT CONNECTOR	F TYPE FEMALE
ANT. O/P CONNECTOR	F TYPE FEMALE

8. SERIAL DATA INTERFACE

STANDARD	RS 232C, Max. 115.2KB
CONNECTOR TYPE	9 PIN D-TYPE FEMALE

9. EXTERNAL MODEM INTERFACE

EXTERNAL MODEM PORT	RS232C
CONNECTOR TYPE	9PIN D-TYPE MALE

THIS CONNECTOR IS FOR FUTURE PURPOSE ONLY.

10. EMBEDDED DESCRAMBLER

VIACCESS CONDITIONAL ACCESS SYSTEM

11. SMART CART

1 SLOT EMBEDDED VIACCESS : INTERFACE & DESCRAMBLE

✣ If you forget PIN Code, press THE FACTORY PRESET PIN CODE(0000) in system information in SYSTEM SETUP, and the PIN Code will be displayed for a moment.