

**SAMSUNG**

## INSTRUCTIONS FOR USE

DSR 9000  
FTA, 2CI, VIA, VICI



<http://www.samsungeSTB.com>

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# 1 GENERAL FEATURES

Dear Samsung customer:

We are pleased that you have decided to purchase one of our products. We have taken care in its manufacture and hope you will be able to take advantage of the numerous functions with the help of this manual.

If you should experience any difficulties, however, which you cannot solve with the information in Chapter 6 of this manual, then please contact your **dealer** or **distributor**. In addition, we have a hotline for your convenience:

## **SAMSUNG PORTUGAL PRODUTOS ELECTROMECHANICOS; SA**

RUA DA REPUBLICA DA COREIA, 27

RANHOLAS-2710-460 SINTRA, PORTUGAL

**HOTLINE Telephone: +351 21 92 48 34 0**

**+351 21 92 48 43 5**

**Fax: +351 21 92 48 49 1**

**Hours: Monday – Friday 10:00 a.m. – 6:00 p.m.**

If the receiver must be sent in for repairs, please remember to include the following items and to pack the device carefully:

- Accessories (remote control, cables)
- Copy of sales receipt
- Detailed description of malfunction.

Thank you. We wish you much enjoyment and entertainment!

---

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## 2 SAFETY

### Approved use

The device is to be used only for receiving satellite programs; any other use is not allowed.

Only the devices and system parts described in this manual may be connected to the satellite receiver DSR 9000.

This receiver has been manufactured to satisfy international safety standards. Please read the following recommended safety precautions carefully.



**Never remove the cover or parts of it! Danger of electric shock!**  
Repairs to the device are to be performed only by authorized service personnel!



**Avoid exposure to moisture and the insertion of foreign objects into the device! Danger of electric shock!**



**Do not cover ventilation holes on the device!**  
Danger of fire due to overheating!



**Use only original replacement parts or parts recommended by a dealer; otherwise there is a danger of personal injury and damage to the device!**  
In case of violation, the guarantee is void!



**Before cleaning, disconnect the power cord from the electric socket!**  
For cleaning of the receiver, use a cloth that is slightly dampened with pure water; use no chemical additives!



**Shut off device during thunderstorms and when not used for an extended period of time!**  
During thunderstorms also remove the antenna cable!



**The ground of the LNB cable must be directly connected to the system ground for the satellite antenna. The grounding system must comply with local regulations.**



**Power supply: 95 ... 240 V ~ 50/60 Hz**



**Do not cover ventilation holes! Danger of overheating and fire!**



**The LNB connector cable has voltage in its center core. It is therefore recommended that the receiver be disconnected from the mains power before connecting or disconnecting this cable. FAILURE TO DO SO COULD DAMAGE THE LNB.**

## 3 CONNECTING YOUR "DSR 9000"

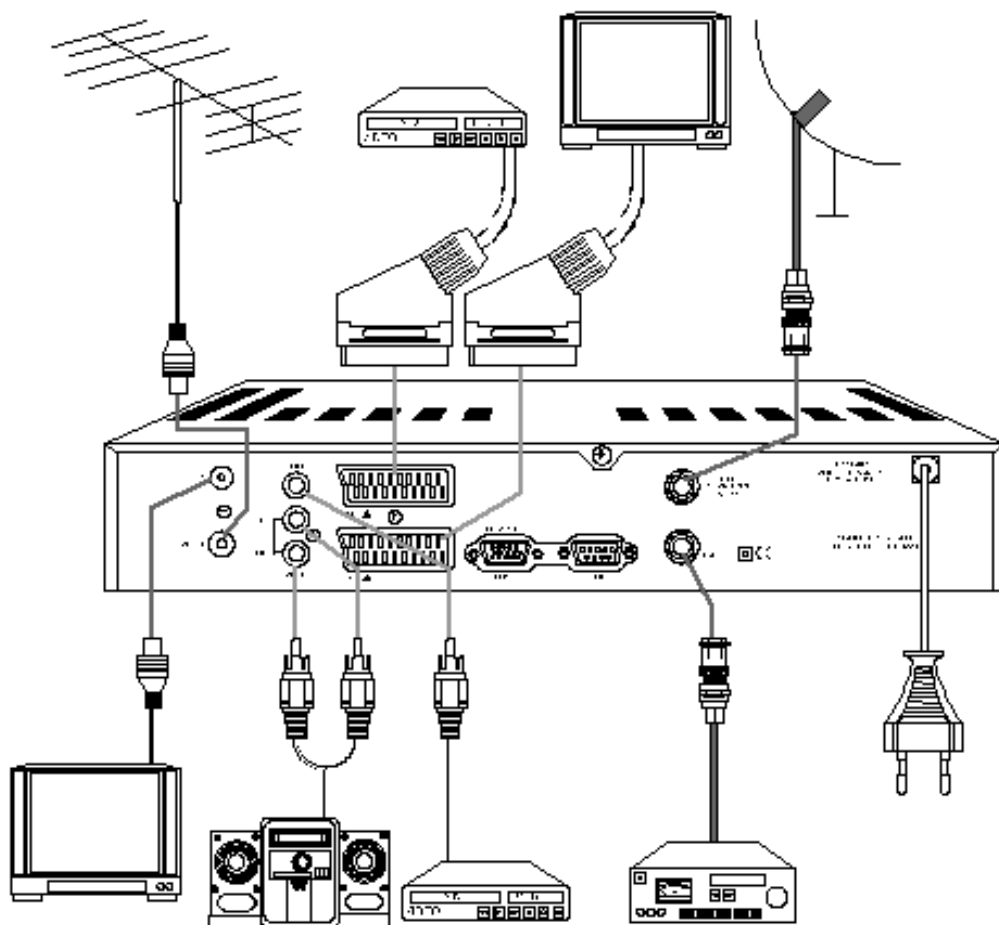
### 3.1 Location of the receiver

Your "DSR 9000" should be placed under proper ventilation. Don't put in completely enclosed cabinet that will restrict the flow of air, Resulting in overheating.

The location should be safeguarded from direct sunlight, excess moisture, rough handling or household pets.

Avoid stacking other electronic components on the top of the receiver.

The location should be safely accessible by the cable from your antenna system.



### 3.2 Connecting the receiver with antenna system

After installing your antenna system, connect the coaxial cable from the LNB of your antenna to "LNB" terminal marked at the rear of the DSR 9000.

All cable connectors should be **finger tightened**; do not use any kind of wrench on the cable over connectors. The cable should be 75 ohm impedance coaxial twisted at the end with a "F" type connector.

### 3.3 Connecting the receiver to TV

To connect the receiver with your television, you can follow two methods: through RF cable, and through SCART cable.

Connect the RF cable to the terminal marked "TO TV" at the rear panel of DSR 9000 and its other end to the TV RF input socket.

In the case of connecting your TV through SCART cable, connect the SCART connector marked TV to the respective SCART port in the TV.

### 3.4 Connecting your analog receiver

To facilitate the user using an analog receiver to view analog channels, DSR 9000 has been provided with a loop through terminal marked as "LOOP".

Connect the coaxial cable from this terminal to the IF input terminal of your analog receiver. Now by keeping the DSR 9000 in standby, you will be able to tune and view analog channels from your analog receiver.

### 3.5 Connecting your video recorder (VCR)

To connect a VCR, the DSR 9000 has been provided with SCART at the rear marked "VCR". Using a SCART cord, the VCR can be connected to the receiver.

### 3.6 Connecting external Audio/Hi-Fi-System

To connect any external Audio Hi-Fi system, the receiver has been provided with two RCA connectors at the back of the receiver, marked with Audio L and R respectively to connect the left and Right Audio.



### 3.7 Inserting Smartcards for Viaccess services

(For models DSR 9000 EM VIA, DSR 9000 VIA CI)

In order to view a scrambled service, you need to have the appropriate Conditional Access Module and a valid Smartcard. This DSR 9000 has the Viaccess CAM embedded.

- Insert the Viaccess smartcard **carefully** into slot "A" or "B".

**NOTE:** Insert the smart card with the gold colored chip downwards!

### 3.8 Inserting Common Interface CAM and Smartcard

(For models DSR 9000 C/I, DSR 9000 VIA CI)

The DSR 9000 supports Common Interface CAMs under DVB specification. The CI CAMs include a built-in smart card reader.

- Insert the smart card into the CAM gently with the gold colored chip upwards
- Slide in the CAM gently inside the slot so that it sits in the socket tightly.
- Close the door.
- To remove the CAM push the button provided by the side of the CAM slot.  
The CAM will be ejected from the socket.

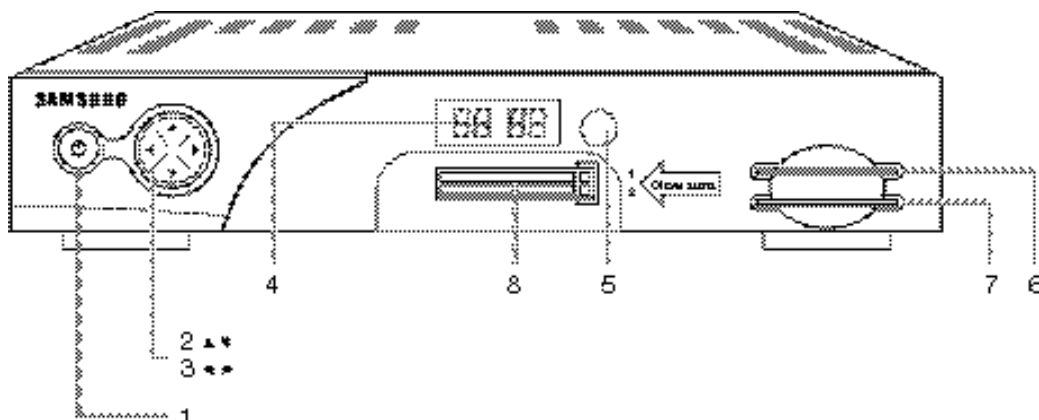
**NOTE:** The following Common Interface CAMs are available now:




- |               |            |
|---------------|------------|
| – IRDETO      | – CONAX,   |
| – CRYPTOWORKS | – VIACCESS |
| – NAGRAVISION |            |



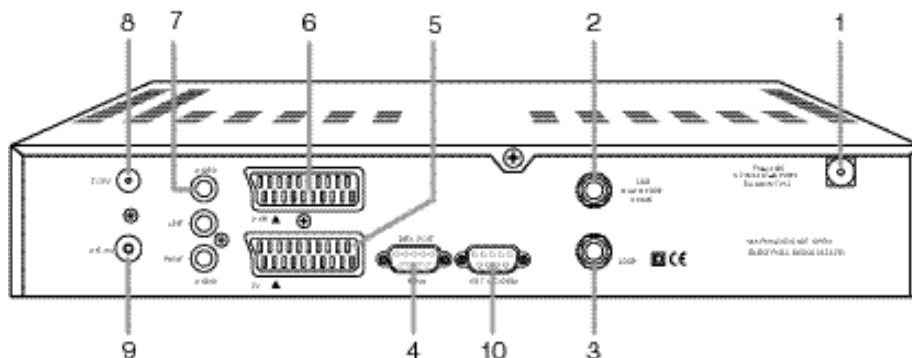
## 4 DESCRIPTION

### 4.1 Front Panel



1.  This key is used to turn the receiver on and off (stand by).
2.  These keys are used to change the Channels.
3.  These keys are used to increase and decrease the Volume level manually.
4. **7 Segment Display:** This LED display will show the Current Channel number. While the receiver is in Stand By mode the Display will show the Current Time, "Menu" or "EPG".
5. **Infrared Sensor:** Receipt of commands from the remote control.
6. **Card Slot A:** Slot for Viaccess smartcard.  
(For models DSR 9000 EM VIA, DSR 9000 VIA CI)
7. **Card Slot B:** Slot for Viaccess smartcard.  
(For models DSR 9000 EM VIA, DSR 9000 VIA CI)
8. **CA Slots:** 2 Slots for Common Interface CAM ( VIACCESS, IRDETO, NAGRAVISION, CRYPTOWORKS, CONAX) with smartcard.  
(For models DSR 9000 C/I, DSR 9000 VIA CI)

## 4.2 Rear Panel



- 1. AC Mains:** This is to plug in the AC mains power cord. The input AC volts range is 95 V to 240 V, 50 Hz/60 Hz supply.
- 2. LNB:** This port is to connect the coaxial cable from LNB of your Dish. The IF input is provided through this port and the input frequency range is 950-2150 MHz. Also the voltage switching 13 V and 18 V is passed through this port.
- 3. LOOP:** To enable the connection of an Analog receiver, the receiver is provided with this "LOOP" port.
- 4. RS 232 DATA PORT:** This is used to connect your receiver with a compute through a serial cable. Samsung supports you via its homepage with usefull information and new software for the receiver.  
  
 >>> Please refer the Samsung's homepage: <<<  
<http://www.samsungeSTB.com>
- 5. TV SCART:** This is used to connect your TV through SCART.
- 6. VCR SCART:** This is used to connect your VCR.
- 7. VIDEO, AUDIO R/L:** These RCA connectors are used to connect any external video and audio.
- 8. TO TV:** This is used to connect your TV through RF cable.
- 9. ANT IN:** This is used to connect your local RF channels to your TV through Loop.
- 10. EXT MODEM:** This is for the external modem for future purposes only. (For models DSR 9000 EM VIA, DSR 9000 C/I, DSR 9000 VIA CI)

## 4.3 Remote Control Unit

### Power

Power on/Standby

### 0 ... 9 Numeral keys

Selection of a channel,  
input of a numeric value  
during installation

### Pg+, Pg-

Browsing in service lists  
(TV list, Radio list,  
FAV list, "All" list)

### TEXT (green key)

no function

### ALT (yellow key)

Calls up soundtrack list  
in current channel

### AUDIO (blue key)

Switches between  
left/right/stereo

### MENU

Calls up the main menu

### ▲ CH+

Up key for changing  
channels and  
menu items

### ◀ VOL-

Left key for decreasing  
loudness, for browsing in  
lists and for switching  
between individual  
menu items

### OK

Calls up a list of channels,  
confirms a selection  
or input

### TV/Radio

Switches between  
TV and radio  
programs and lists

### MUTE

Muting  
("Silence mode")

### FAV

Switches between  
favorite lists  
(FAV lists)

### EPG

Calls up the electronic  
program guide

### LAST

Returns to the last  
channel viewed

### i (red key)

Calls up the program  
information (not transmitted  
by all channels)

### EXIT

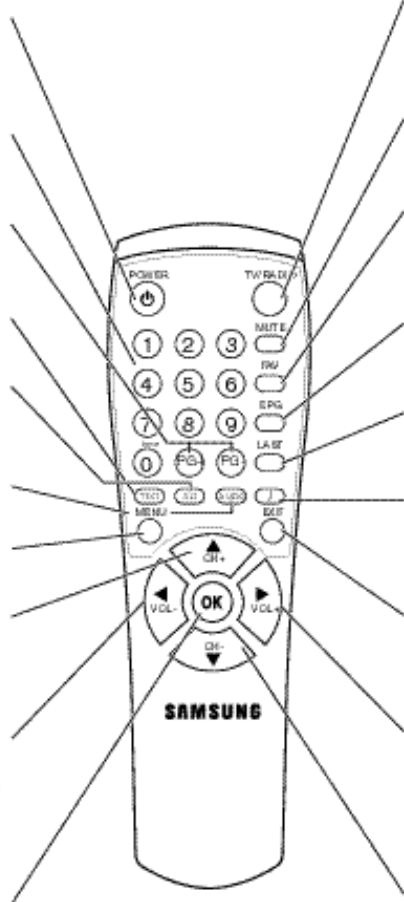
Exits a menu or  
removes an overlay  
(e.g. list)

### ▶ VOL+

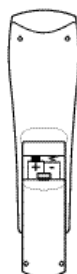
Right key for increasing  
loudness, for browsing in  
lists and for switching  
between individual  
menu items

### ▼ CH-

Down key for  
changing channels and  
menu items



## Changing batteries



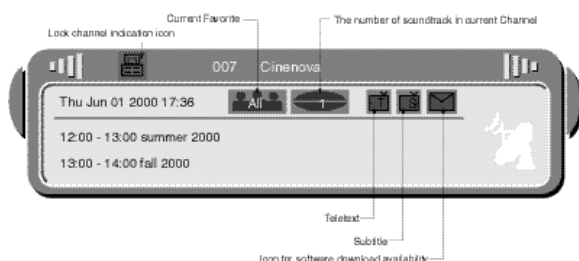
### Notice:

When inserting batteries,  
make sure that the polarity  
(+/-) is correct.

## 5 OPERATING THE RECEIVER

### 4.4 Display screen

Before you can view the television program, you must perform the installation (see Chapter 5). Therefore you will see only menu images at first. After the television channels have been programmed, you will see the following picture (banner) each time you switch channels:



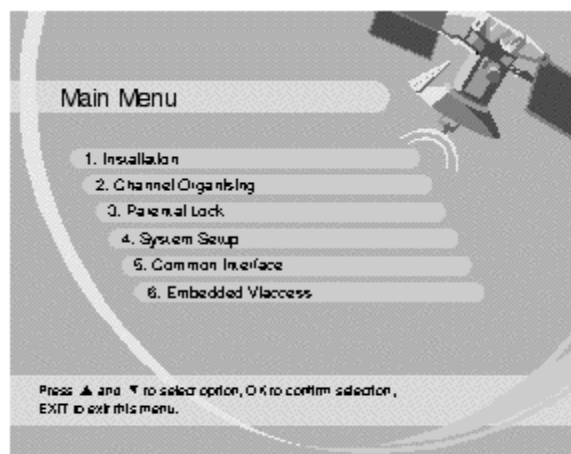
## 5 OPERATING THE RECEIVER

The menu display is carefully created and user friendly to assure the easy operation of the receiver by the user. The main menu is classified into six sub menus which will carry out the various operations individually.

### 5.1 Main menu

After installing your antenna system and DSR 9000 with appropriate connectors,

- plug in the AC main power and
- switch on the receiver.
- Press **MENU** key to bring up the main menu.



The LED display will show „MENU“. The following on screen display will appear:

5. Common Interface : For models DSR 9000 C/I, DSR 9000 VIA CI.
6. Embedded Viaccess : For models DSR 9000 EM VIA, DSR 9000 VIA CI

The sub menu topics will be displayed from 1 to 6 (Depend on model).  
For the sub-menus 1, 2 and 3 you need the PIN code.

- You must follow the menu commands at the bottom of the screen!

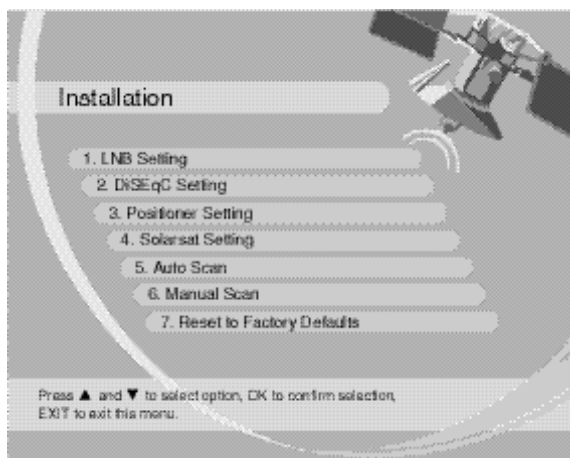
**Before you begin with the "Installation" menu, you should check in the 4th menu "System Setup" whether all the information there is applicable for you (Example: screen format). Please see also Chapter 5.4!**

## 5.2 Installation

The menu provides settings for customizing, adding new services and displaying the status of the receiver.

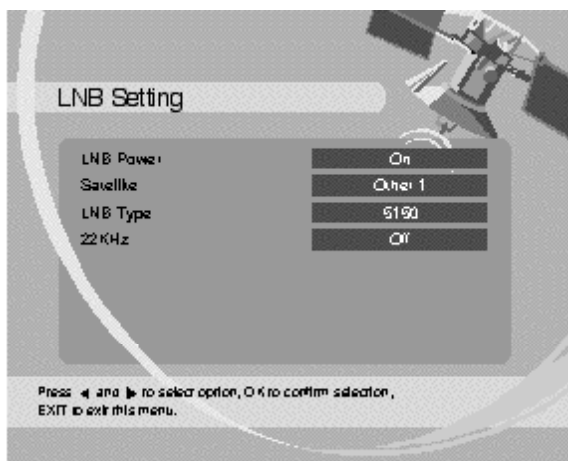
- Select **"Installation"** in the main menu mode to select the sub menu.
- Enter the PIN code.

If you have not entered your own PIN code (Chapter 5.3.2/2.) then the PIN code 0000 applies, which was set at the factory.



### 5.2.1 LNB Setting

You can select the satellite and LNB setting conditions for channel search and you can change the settings for 22 kHz tone. The values set in this menu are needed for programming the channels for the "manual" and "automatic scanning". The necessary information can be found in the documentation for the antenna and LNB, or you can ask your dealer.



- Select LNB power supply "On".
- Select the desired satellite name.
- Select the LNB type (frequency).

If the desired frequency is not pre-set, you can enter the number under "User" with the keypad. Here there is a differentiation between single and double operating mode.

**22 kHz:** In case you are using a dual LNB or two antennas connected to a 22 kHz tone switch box, with the 22 kHz tone switch ("On" or "Off") you can switch between both LNB or antennas.

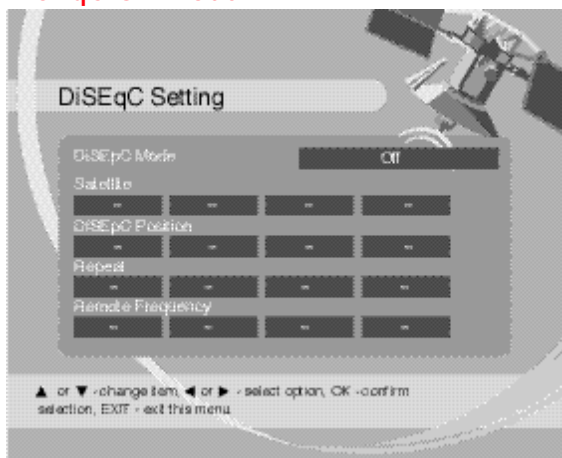
## 5.2.2 DiSEqC Setting

DiSEqC (**D**igital **S**atellite **E**quipment **C**ontrol) is the registered trademark of EUTELSAT. It is the more sophisticated way of controlling the various accessories of the satellite receiving system by the receiver.

It is a master-slave protocol using the data modulated 22 kHz tone for communicating between the receiver and its accessories like LNB, switches, etc.

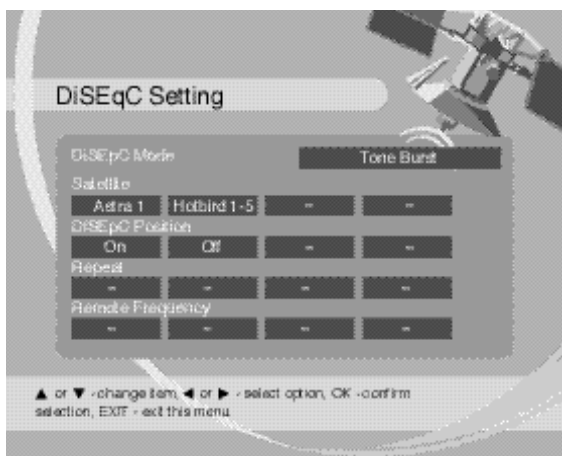
DiSEqC 1.2 version will enable switching between 4 LNB connections irrespective of LNB type either Universal, Single (voltage switching for ver/hor) and Single solution.

### DiSEqC Off mode



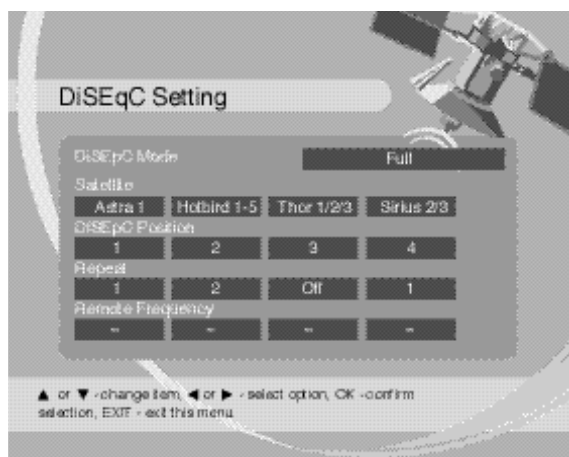
You don't use DiSEqC.

### DiSEqC Tone Burst mode



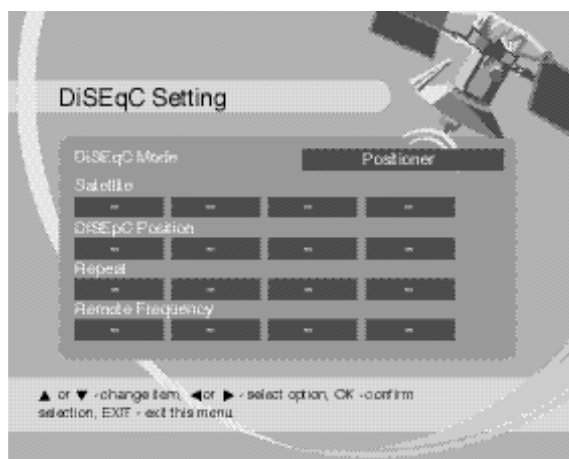
2 LNBs can be selected.  
ON/OFF : If you use Tone Burst mode, select On.

## DiSEqC Full mode



4 LNBs can be selected.  
1/2/3/4 : Select one of satellites.  
Off/1/2 : Repetition number

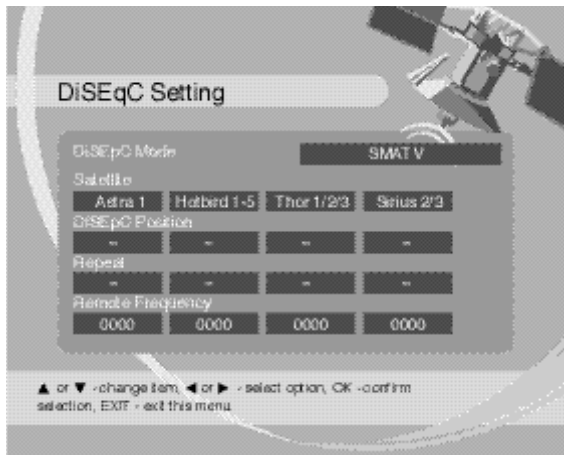
## DiSEqC Positioner mode



If you use Positioner ,select this.



## DiSEqC SMATV mode



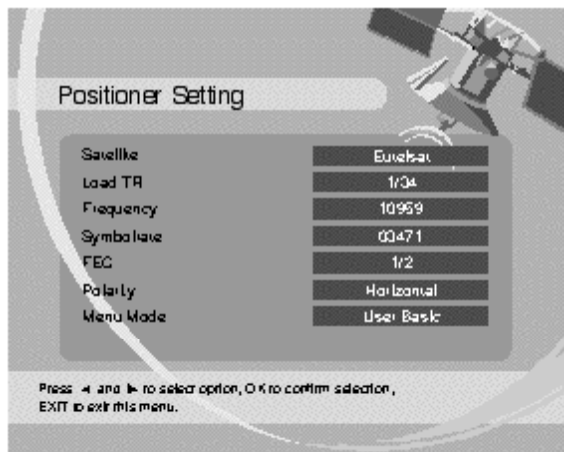
If you use SMATV,  
select this.  
Input frequency  
range 950~2150MHz

GB

### 5.2.3 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 Satellite.
- Select any transponder from above satellites and check out the Frequency, Symbolrate, FEC and Polarity.

In case problems arise, ask your dealer.

- Select from Menu Mode:
  - "User Basic" mode if the Positioner moves around a lot,
  - "User Advanced" mode, if Positioner needs to move into details, and
  - "Installer" mode when Installer installs and uninstalls the Positioner's limit.

## User Basic Mode



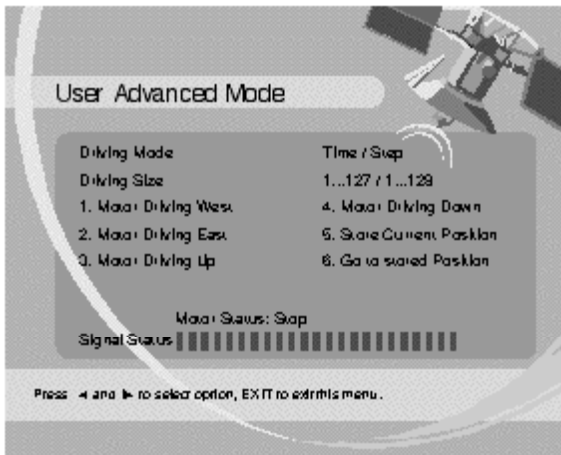
- Position the antenna with 1. to 3. and save current positioner's state.
- When the signal status is colored, save the current positioner's state (4.)

NOTICE: Even if not all fields under "signal status" are colored, the reception quality can still be adequate.

- With 5. go to Stored Position.

When the screen displays "Stop", you can continue in the menu.

## User Advanced Mode

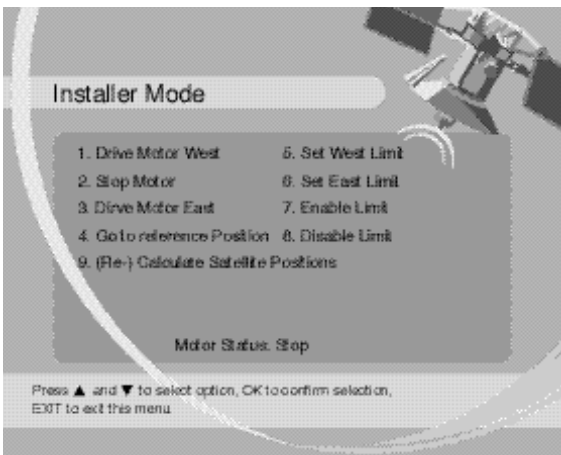


- Select Driving Mode : You decide about the positioner's movement type: Step or Time.
- Position the antenna with 1. to 4. and save current positioner's state.
- When the signal status is colored, save the current positioner's state (5).

NOTICE: Even if not all fields under "signal status" are colored, the reception quality can still be adequate.

- With 6. go to Stored Position.

## Installer Mode



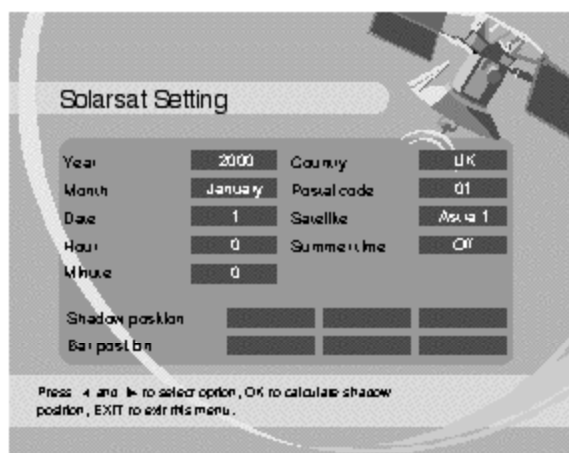
It has to be changed and added up new version of software format.

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

- Position the antenna with 1. to 6.
- Select "Enable Limit", in order to change "5. Set West Limit" and "6. Set East limit".
- Select "Disable Limit", in order to secure 5. und 6.
- (Re-)Calculate Satellite Positions : This mode calculate the (approximate) position of all the other satellites in Positioner Motor Unit's memory (ROM) relative to the known position.

## 5.2.4 Solarsat Setting

If you use Solarsat antenna, this menu makes it easier to install the antenna.



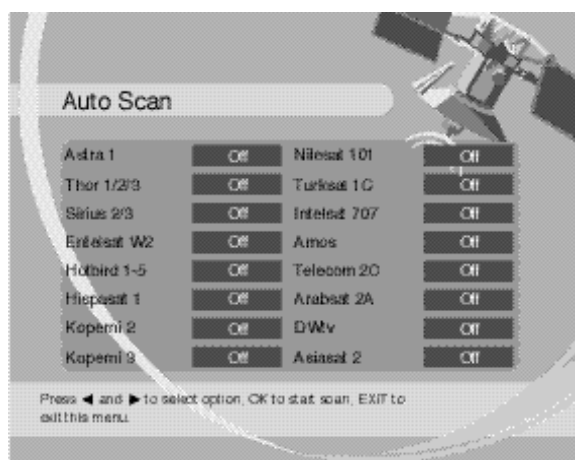
- Enter the time, country, postal code, and satellite which you want to install.
- Select the summer time mode and then press **OK** key, and finally you can get the right position to set your antenna.

## 5.2.5 Auto Scan

The sub menu "Auto Scan" will enable download of off-air channels automatically from the preprogrammed Satellites.

- Press **OK** key.

Auto Scan menu will displayed. The preprogrammed Satellites will be listed on the screen.



### To download channels automatically:

- Select appropriate Satellite and press **OK**.

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

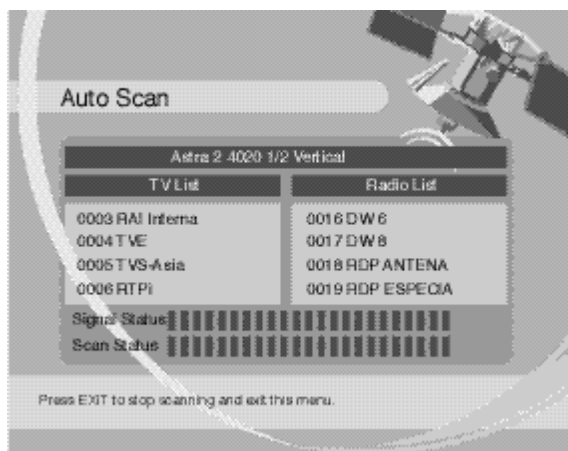
**Off:** No Scan.

**All:** Scan all the Free channels & Scramble channels.

**Free:** Scan only Free channels.

- Select "All" or "Free" and press **OK**.

All the channels in the list from the selected Satellite will be automatically downloaded.

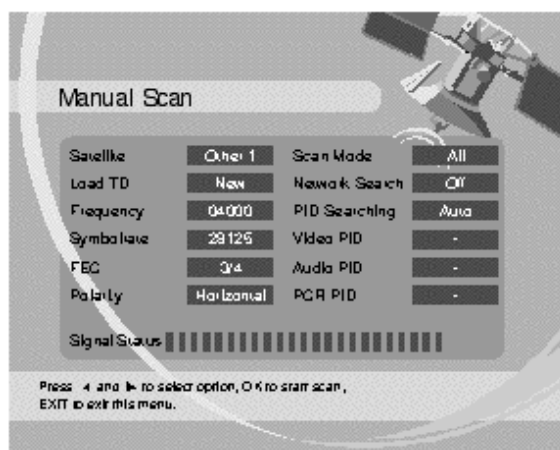


After scanning you will see "Automatic scanning ended". Afterwards you return to 1. menu "Automatic scanning".

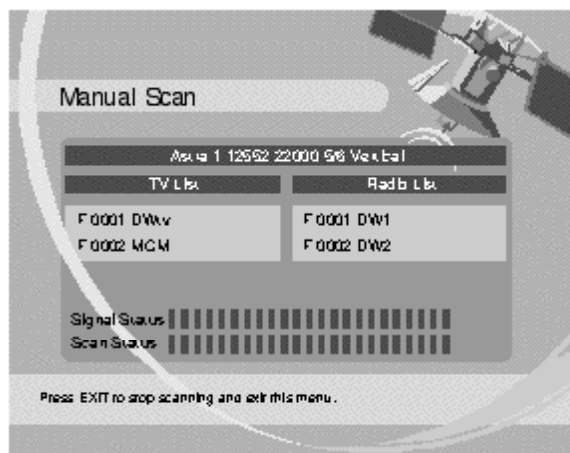
## 5.2.6 Manual Scan

To tune-in new channels and weak signals, the DSR 9000 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:

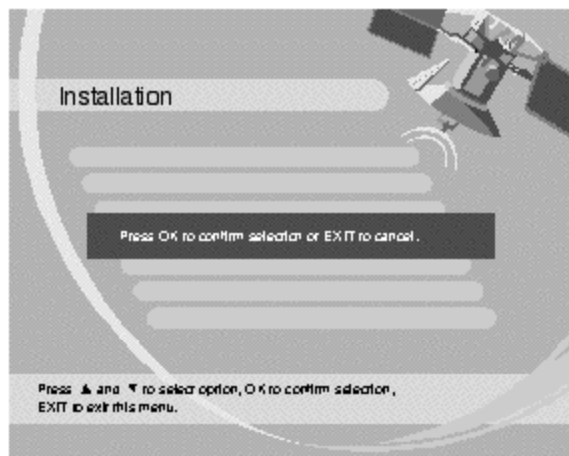


- Select the target satellite for manual search.
- Load a transponder.  
This option will enable the user to load any transponder from the preprogrammed list available within the receiver.
- Input the frequency of the transponder you want to find.
- Input the symbol rate of the transponder you want to find.
- Select the FEC (Forward Error Correction) 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**.
- Select the polarization of the transponder you want to find (**Horizontal/Vertical/Auto**).  
In the case of horizontal, 18 V and in the case of vertical, 13 V are output through LNB line.
- Select the Scanmode:  
**All** -> scan all channel.  
**Free** -> skip all scrambled services.
- Select Network Search "**On**". You can find more transponders using the home network.
- Select PID Searching "**manually**". You can manually search by entering individual PID (Packed Identifier) (Video/Audio/PCR) values. "**Auto**" activates the automatic search.
- After select option, press **OK** key, then it start scan.



## 5.2.7 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.

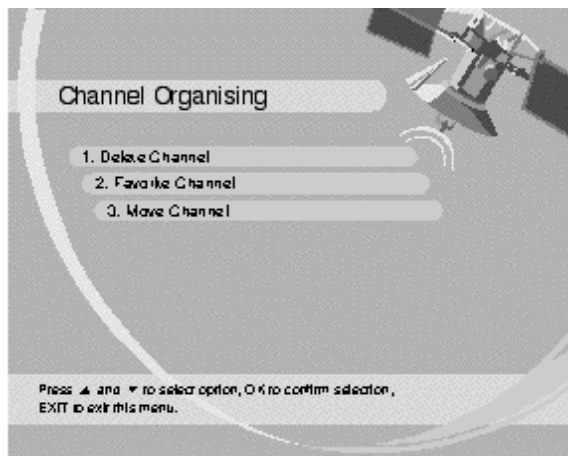
**NOTICE:** This causes your previous settings to be deleted!



## 5.3 Using the receiver

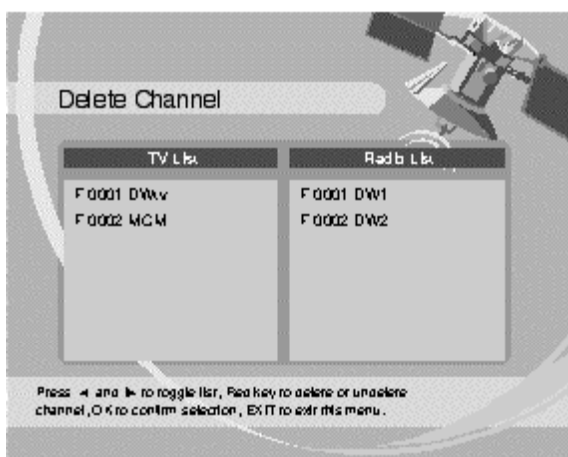
### 5.3.1 Channel Organize

The "Channel Organizing" menu (→ main menu) has three functions:



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

#### 1. Delete Channel



- Select the channel by pressing the red (i) key.
- Then press **OK** key for confirmation.

## 2. Favorite Channel



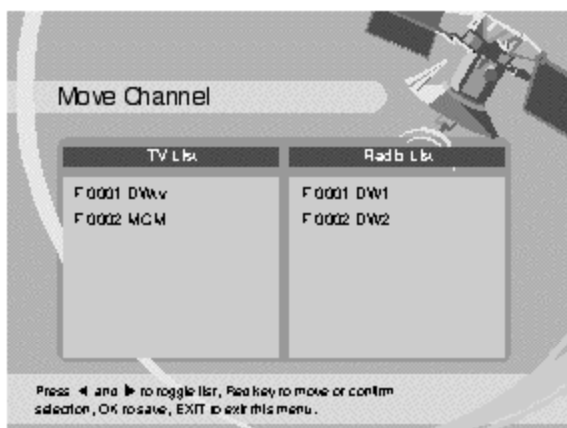
You can change TV List or Radio List by **TV/RADIO** key and change favorite list by **FAV** key. This enables you to create the 3 favorite TV and radio lists (100 channels each).

- Select the desired list with **▶** or **◀**.

(Right list: Adds a channel to the left list. Left list: Deletes a channel.)

- Select channel by pressing red **(i)** key in the TV list or Radio List.
- Then press **OK** key for confirmation.

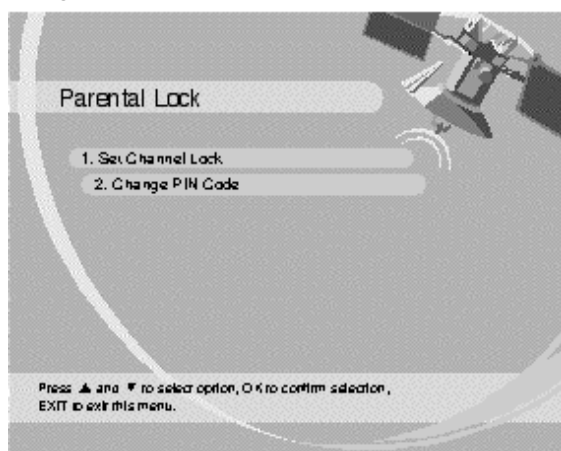
## 3. Move Channel



- Select list by pressing ► or ◀.
- Select the channel by pressing the red (i) key.
- Press ▲, ▼, Pg+, Pg- key to move to desired channel, and
- press OK key for confirmation.
- Press red (i) key again to return to previous state.

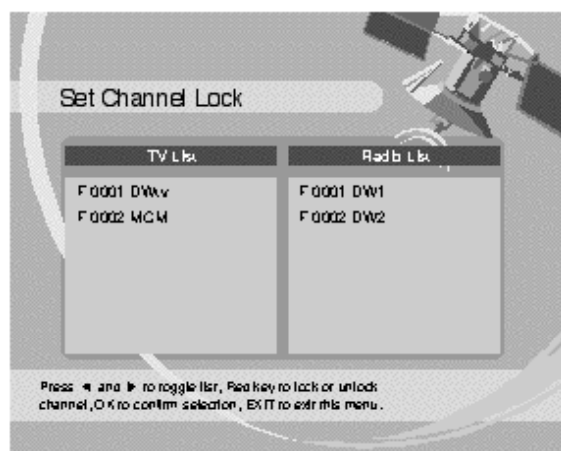
### 5.3.2 Parental Lock

This "Parental Lock" feature sets viewing restrictions and prevents unauthorized access to your DSR 9000 through the PIN (**P**ersonal **I**dentification **N**umber), 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.

#### 1. Set and Delete Channel Lock



- Select the channel by pressing ▲ or ▼.
- Press red (i) key for confirmation.

This will lock the channel. Whenever you need to view the channel, you will have to enter the PIN at the request window.

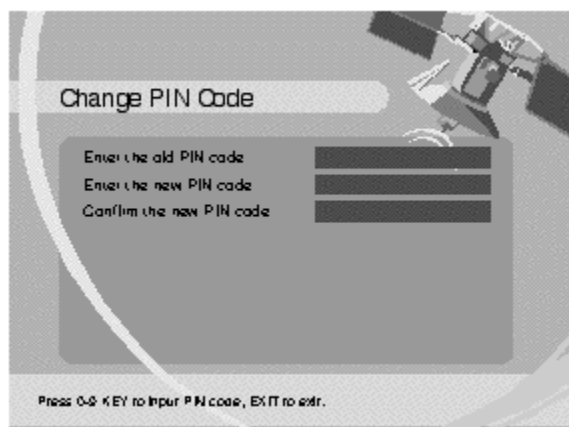
Delete:

- Press the red (i) key again in order to cancel the lock.

## 2. Change PIN Code

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 : 0 0 0 0

## 5.3.3 Volume Control



To control the volume:

- Press ► or ◀.
- Press **MUTE** key to switch to mute.
- Press **MUTE** key again in order to cancel muting.



### 5.3.4 Audio Control

- Press **AUDIO** key to change the Audio to **Left** or **Right** or **Left + Right (Stereo)**.

### 5.3.5 Select Soundtrack

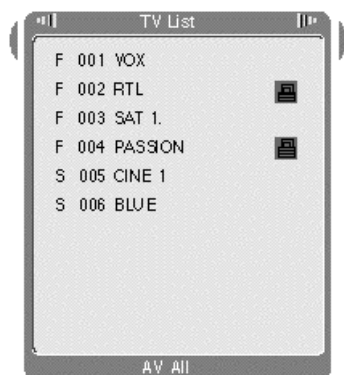
- Press **ALT** key to see the soundtrack list.



- Press **▲** or **▼** and **OK** key to select one.

### 5.3.6 Service List

- Press **OK** key while you are viewing a program.



- Select list by pressing **TV**, **RADIO** or **FAV**.

F or S in front of the list stands for Free channel or Scramble channel and the icon behind the list symbolises lock channel.

- Select the channel by pressing **▲**, **▼**, **Pg+** or **Pg-**
- press **OK** key to watch that channel.

### 5.3.7 Program information

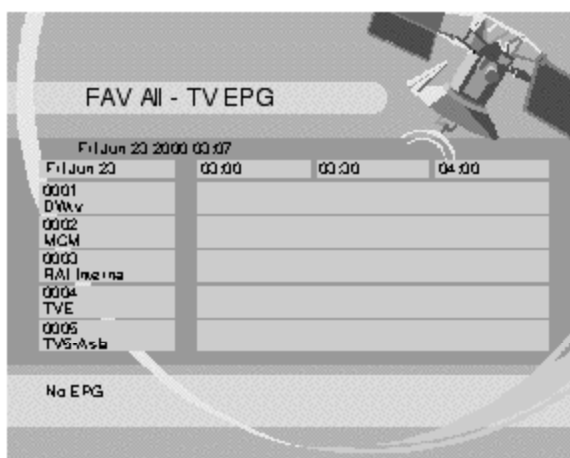
#### EPG-Electronic Program Guide

The electronic program guide gives you a channel list for the channels.

NOTICE: This service is not offered by all channels.

- Press **EPG** key while you are viewing a program.

You will see "EPG" on the LED display of the receiver.



With the **TV/RADIO/FAV** keys you can browse among the various program lists.

- Select the channel by pressing **▲**, **▼**, **Pg+**, **Pg-** key and
- press **OK** key to watch this channel.

### 5.3.8 Subtitle

When the current broadcasting programme provides subtitle, press the **TEXT**(Green) key to see the current subtitle language list.

To change the Subtitle Language :

Press the **TEXT**(green) key to see the Subtitle Language List.

Use the **▲**, **▼** key to select a Subtitle Language you want.

Press the **OK** key and then the Subtitle Language you want is displayed on the screen.

### 5.3.9 Bouquet List

In the Bouquet List, it is possible to list various types of service lists using the colour key on the remote control unit.



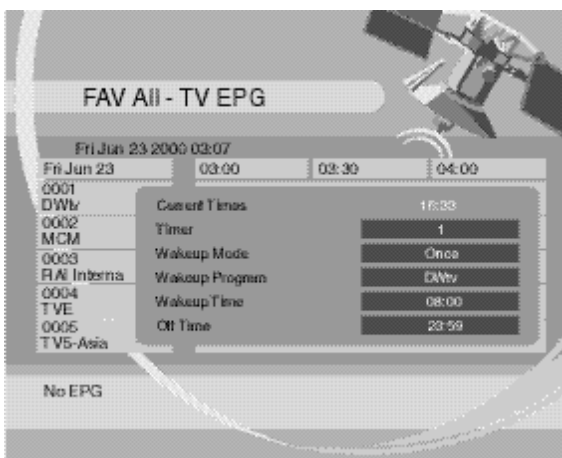
- First of all, press **OK** key on the remote control unit while you are viewing a programme.
- Press the **Colour** key on the remote control unit.

The colour key corresponds the following service list.

- Green (**TEXT**) key - Favourite service list
- Yellow (**ALT**) key - Service list by Alphabetical order
- Blue (**AUDIO**) key - Network service list
- Red (**I**) key - Transponder service list

- Press the each **colour** key again to toggle between group and channel list.
- Use the **▲**, **▼** keys to select a service (channel) list.
- Press the **OK** key to view the selected service(channel) list.

### 5.3.10 Timer Setting



You can set Wakeup/Sleep/Off Time in this mode by timer

(**0**) key on the remote control unit on EPG mode. Furthermore, the service channel and Off Time(standby mode) in the Wakeup Time mode can be set. When a VCR is connected, recording can be automatically done according to Wakeup/Off Time setting.

Timer(Pressing **EPG** key first and Press Timer **(0)** key again)

You can select eight kinds of Timer like 1,2,..., 8.

When the various timers are set, the Wakeup time is applied first.

The Off time is set by next step.

### Wakeup Mode

Wakeup/Off timer determines the Timer Mode.

- Once : The timer programming is applied only once.
- Daily : The timer recording is applied everyday repeatedly.
- Weekly : The timer recording is applied once in a week (Set one day in a week).

Use the ◀▶ keys to select the type of timer programming.

### Wakeup Program

Use the ◀▶ keys to set the service channel provided for the set Wakeup Time.

### Wakeup Time

Select the time when STB is turned on.

Use the **numeric** keys (1,...,0) on the remote control unit to enter your wakeup time.

### Off Time

Depending on the time setting, select the time when STB is turned off.

### Sleep Time



Press Timer **(0)** key again in Timer section.

You can select "Off, 5, 10, 15, 30, 45, 60, 90, 120" by ◀▶ key.

STB turn off automatically after selected time.

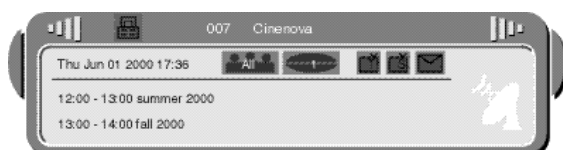
## 5.3.11 Extended Display Screen



Press **EPG** key or Red **(I)** key on the remote control unit to see brief information and press Red **(I)** key again to see extended information on the current channel.



## Banner



- Press the **(i)** key in view mode.
- Select the channel by pressing **TV** key and **▲**, **▼** **Pg+**, **Pg-** or **0 ... 9**.

If you wish to listen to a radio program, first use the **RADIO** key.

You will also see this picture each time you change channels.

## Detailed program information

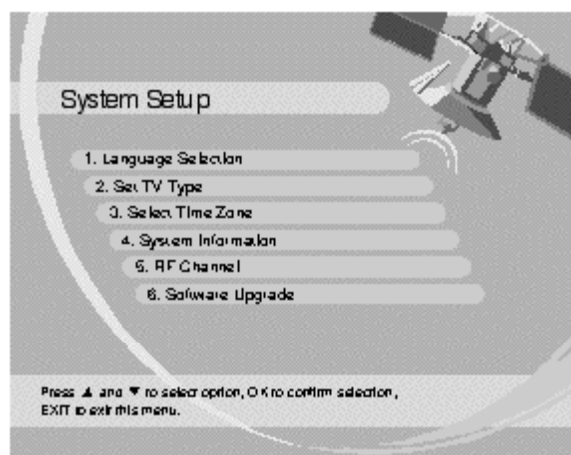
- Press the **(i)** key twice while you are viewing a program.

First you will see the banner described above. After pressing the **(i)** key a second time you will receive detailed program information.

NOTICE: This service is not offered by all channels.

## 5.4 System Setup

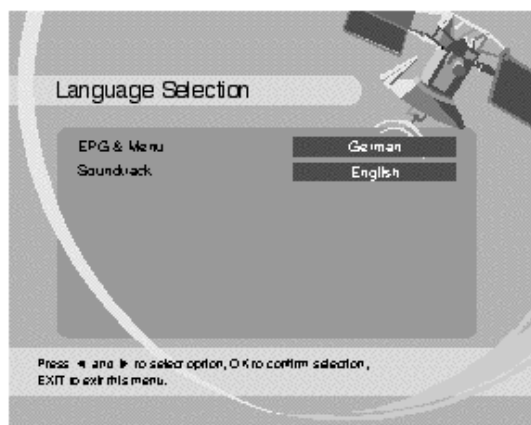
This option enables you to set the DSR 9000 with your existing systems.



### 5.4.1 Language Selection

The first option is "Language Select" to select the desired language of the EPG & Menu display or Soundtrack.

- Place the cursor on this sub menu and press **OK**.  
The following will be the on-screen display:



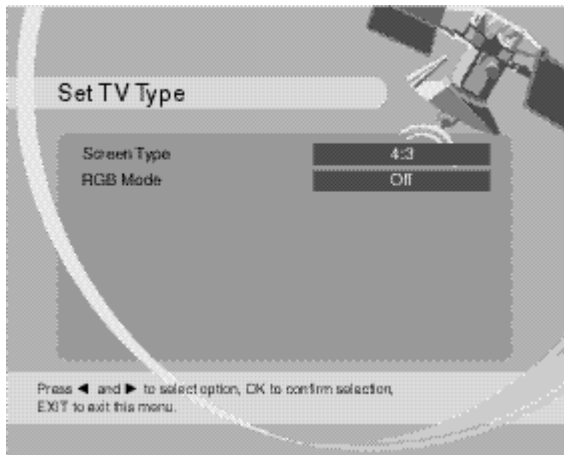
To accommodate users from different regions speaking different languages, the menu display is available ten languages. To select the desired language menu:

- Press **▶** or **◀**, to change language and press **OK**.

The EPG & menu or Soundtrack will change to the selected language.

### 5.4.2 Set TV Type

- Place the cursor on this sub menu and press **OK**.  
The following will be the on-screen display:

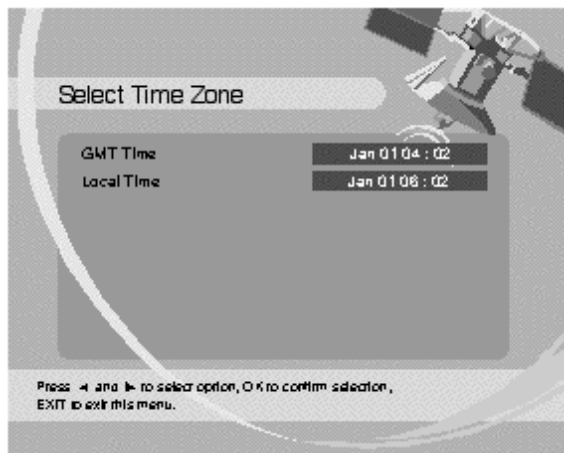


Select the TV type according to your TV; either STANDARD **4:3** ratio or WIDE SCREEN **16:9** ratio type.

RGB yes or no you will find in the User Instruction TV.

### 5.4.3 Select Time Zone

- Place the cursor on this sub menu and press **OK**.  
The following will be the on-screen display:

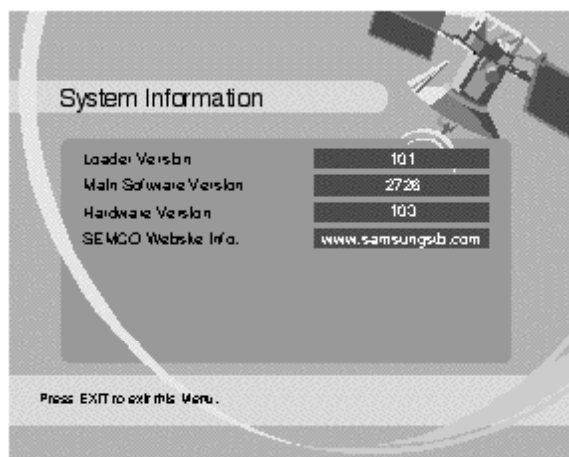


In this menu option you can set your local time by adjusting the difference in hours from GMT, according to your location.

GMT: Greenwich Meantime – central European time.

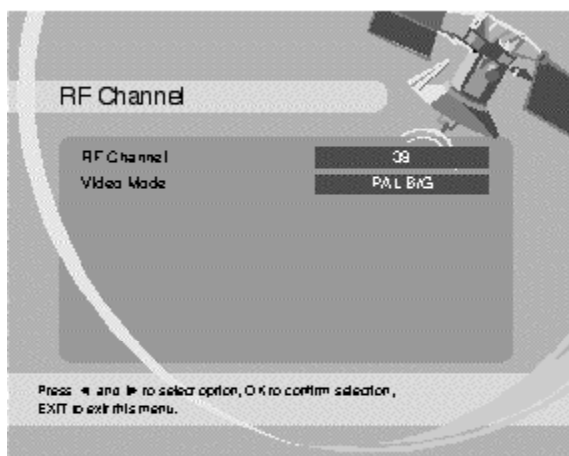
## 5.4.4 System Information

- Place the cursor on this sub menu and press **OK**.  
The following will be the on-screen display:



## 5.4.5 RF Channel

- Place the cursor on this sub menu and press **OK**.  
The following will be the on-screen display:



Using Left and Right keys, you can vary the RF channel output of the receiver. The factory preset value is CHANNEL **38**. The other option will enable the user to vary the RF output to either PAL B/G mode or PAL I or PAL D/K mode.

### 5.4.6 Software Upgrade

1. Check new software availability.

You can download and upload the software of the receiver through ASTRA satellite when the new software is released. During downloading don't turn off the receiver. In case the power is turn off, turn on the receiver and the downloading process will continue. If there is a new version of software to download, you can see the icon on the right-top side of Banner.

2. Press the **MENU** key to bring up the main menu.
3. Use the **▲**, **▼** keys to select "4.System Setup".
4. Use the **▲**, **▼** keys to select "6. Software Upgrade".
5. Press the **OK** key, the update starts right away. "Checking Astra, Please wait..." will be displayed.  
And then "Press **OK** to confirm or **Exit** to cancel" will be displayed.

#### ● Error message:

"You can't upgrade software." :

Check the cable from your satellite(Astra) dish is correctly plugged into the back of your STB.

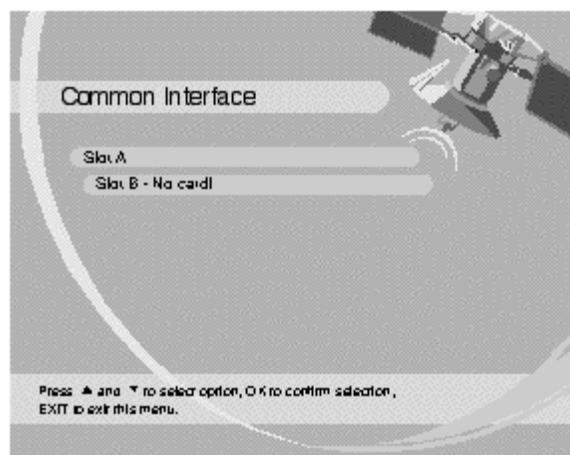
"You don't need to upgrade software" :

Check the software version of your STB and compare the latest software from Astra.

## 5.5 Common Interface

(For models DSR 9000 C/I, DSR 9000 VIA CI)

This STB is equipped with two PCMCIA slots, which enable the use of two CI-CAMS (Conax or Irdeto etc...). When a Common Interface CAM is inserted inside the PCMCIA slot, the system detects the type of the CAM automatically and display in the main menu.



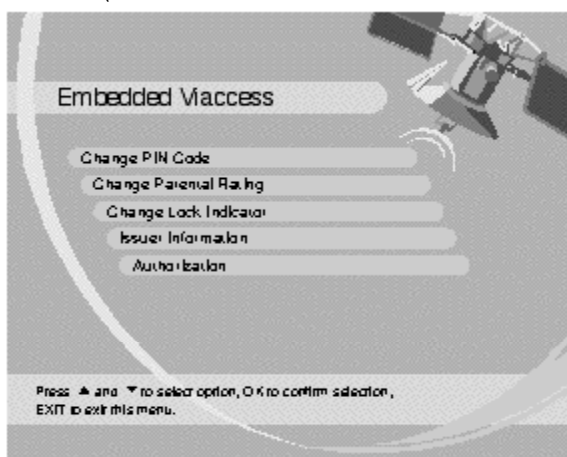
On choosing this menu, you will be able to access the different options available with the type of the CAM like authorizations, pre-booking, package details etc.,

**SLOT A:** You can see the Common Interface CAM's name which has been inserted.

**SLOT B:** "Not installed" is displayed when there is no CAM in slot.

## 5.6 Embedded Viaccess

(For models DSR 9000 EM VIA, DSR 9000 VIA CI)



### 1. Change PIN code:

Change the PIN code of the Smartcard, if necessary (see 5.3.2).

### 2. Change Parental Rating:

Change the setting for the family filter, if necessary.

NOTE: This service is not offered by all channels.

### 3. Change Lock Indicator:

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

### 4. Issuer Information:

Here you can call up all information stored on the Smartcard by the publisher.

### 5. Authorization:

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

## 6 DISPOSAL

The device, packaging material (e.g. Styrofoam) and the batteries must never be disposed of with household refuse. Please obtain appropriate information about the regulations in your community, and dispose of all refuse in accordance with regulations at the separate locations provided.

## 7 IN CASE OF PROBLEMS

Problem	Possible cause	Solution of the problem
Does not display LED on the front panel; no power supply.	Power cord not plugged in correctly.	Power cord plug in correctly.
No pictures on the screen.	Receiver in Standby mode;  Scart not connected tightly to video output of television;  incorrect channel or video output selected on television.	Set receiver to "On";  Check connection and correct;  Check channel and video output and correct (TV instruction manual).
No sound.	Audio cord connected incorrectly;  Loudness level = 0;  Muting active.	Check connection and correct;  Increase loudness on television set;  Press the MUTE key.
Remote Control does not operate directly.	incorrect operation;  Batteries dead or inserted incorrectly.	Point remote control towards the Receiver.  Replace batteries or insert correctly.
Poor picture quality.	Signal strength to low.	Check the signal strength in the "Auto Scan" menu, correct alignment of your antenna.
On-Screen Error Message "Serching for signal".	Antenna cable not connected or not tight;  LNB defective;  incorrect position of the satellite antenna;	Check connection and correct;  Change LNB;  Check position and correct, Check the signal strength in the "Auto Scan" menu.
On-Screen Error Message "Channel data does not exist."	Satellite not yet set.	Scan of in "Automatic scanning" or "Manual scanning" menu.
On-Screen Error Messages: "Please check the smart card"; "Please insert the smart card".	Smart card: – not plugged in correctly; – not plugged in.	(depend on model) Check the smartcard. "Insert the smartcard."



## 8 TECHNICAL SPECIFICATIONS

### 1. User section

2000 programmable channels,  
software download via satellite & PC,  
advanced Electronic Program Guide,  
multi-language supported for OSD,  
DisEqC 1.2 supported full function  
infrared remote control unit,  
7 segment LED display,

auto and manual scan facility,  
channel organizing (programmable),  
SCARTS & RCA output,  
low power consumption,  
dual smartcard readers (For models  
DSR 9000 EM VIA, DSR 9000 VIA CI),  
dual PCMCIA-Slots (For models  
DSR 9000 C/I, DSR 9000 VIA CI).

### 2. Tuner section

950 ~ 2150 Mhz wide band tuner,  
if output with DC pass loop for analog  
receiver,

supporting DisEqC 1.2 version,  
13 V/18 V switching,  
22 kHz continuous tone control

### 3. Video section

DVB-S compliant,  
MPEG-2 video (MP@ML)  
2 - 45 ms/s symbol rate

modulator output,  
compatible for both SCPS/MCPC,  
supports aspect ratio 4:3 (normal) and  
16:9 (wide screen)

### 4. Audio section

MPEG 1 audio layer I & II  
mono, dual, stereo and joint stereo audio  
mode,

32, 44.1 and 48 kHz sampling  
frequencies,  
volume control and mute function through  
RCU.

### Power supply

Type:	SMPS
Input voltage:	95 ~ 240V AC 50/60 Hz
Fuse rating:	250 V/T2 A

### Tuner

Freq. Range:	950 ~ 2150 MHz
Input signal level:	-65 ~ -25 dBm
First if freq.:	479.5 MHz
Channel selection:	PLL frequency synthesizer
Input impedance:	75 unbalanced
Connector type:	F type female
Lnb power control:	13 V/18 V, 22 kHz tone
DiSEqC:	1.2 supported

### Demodulator

Type:	QPSK Demodulation (DVB-S)
Symbol rate:	2 ~ 45 Ms/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

### Video decoder

System decoding: MPEG 2 ISO/TEC 13818 (transport stream)

Profile and level: MPEG 2 MP@ML (4:2:2)

Data rate: 1~ 15 MB/s

Video formats: 4:3 (normal) & 16:9 (widescreen)

Picture resolution: 720 (H) x 576 (V) x 50 fields/sec

### Audio decoder

System decoding: MPEG 1 ISO/TEC 11172~3 layer I & II

Audio mode: mono, dual, stereo, joint stereo

Sampling frequency: 32,44.1,48 kHz

### A/V output

TV SCART: VIDEO (CVBS, RGB), AUDIO R&L

VCR SCART: VIDEO (CVBS), AUDIO R&L

RCA JACK: VIDEO (CVBS), AUDIO R&L

### RF modulator

Modulator output: CH 21\_69 (preset to CH 38)

Video type: PAL B/G, L, K

Uhf output level: 70±5 dBμV

Output connector: IEC male

Ant. O/p connector: IEC female

Tuning method: PLL frequency synthesizer

### Serial data interface

Standard: RS 232 C, max. 115.2 kB

Connector type: 9 Pin D-Type female

### External modem interface (For models DSR 9000 EM VIA, DSR 9000 C/I, DSR 9000 VIA Ci)

External Modem Port: RS 232 C

Connector Type: 9 PIN D-Type male

This connector is for future purposes only.

### Embedded descrambler (For models DSR 9000 EM VIA, DSR 9000 VIA Ci)

VIACCESS conditional access system

### Smartcard (For models DSR 9000 EM VIA, DSR 9000 VIA Ci)

2 slots, embedded Viaccess: interface & descramble

### Common Interface (For models DSR 9000 C/I, DSR 9000 VIA Ci)

Module Type: PCMCIA TYPE II x 2

Available CAM: VIACCESS, IRDETO, NAGRAVISION, CRYPTOWORKS, CONAX.

