



DSR 9401 FTA / DSB-9401F / DSB-9401V

Instructions for use

GB

DIGITAL SATELLITE RECEIVER

SAFETY INSTRUCTIONS

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

MAINS SUPPLY: AC 100-240V 50/60Hz

OVERLOADING: Do not overload wall outlets, extension cords or adapters as this can result in fire or electrical shock.

LIQUIDS: Keep liquids away from the STB.

CLEANING: Before cleaning, disconnect the STB from the wall socket. Use a cloth lightly dampened with water (no solvents) to clean the exterior.

VENTILATION: Do not block the STB ventilation holes. Ensure that free airflow is maintained around the STB. Never store the STB where it is exposed to direct sunlight or near heating equipment e.g. a radiator.
Never stack other electronic equipment on top of the STB. Place the STB at least 30mm from the wall.

ATTACHMENTS: Do not use any attachment that is not recommended by the manufacturer; it may cause a hazard or damage the equipment.

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

SERVICING: Do not attempt to service this product yourself. Any attempt to do so will make the warranty invalid. Refer all servicing to a qualified service agent.

LIGHTNING: If the STB is installed in an area subject to intense lightning activity, protection devices for the STB mains connector and modem telephone line are essential. The individual manufacturer's instruction for safeguarding other equipment, such as TV set, Hi-Fi, etc., connected to the STB must also be followed during lightning storms.

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

Note : Dispose the used batteries at designated place for environment protection

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GENERAL FEATURES

1. USER SECTION

- ▶ 4000 PROGRAMMABLE CHANNELS
- ▶ SOFTWARE DOWNLOAD VIA SATELLITE & PC
- ▶ ADVANCED ELECTRONIC PROGRAM GUIDE
- ▶ MULTI LANGUAGE SUPPORTED FOR OSD
- ▶ SUBTITLE & TELETEXT(OSD & VBI)SUPPORTED WITH MULTI LANGUAGE
- ▶ DiSEqC 1.2 SUPPORTED
- ▶ FULL FUNCTION INFRARED REMOTE CONTROL UNIT
- ▶ AUTO AND MANUAL SCAN FACILITY
- ▶ CHANNEL ORGANIZING (PROGRAMMABLE)
- ▶ SCARTS OUTPUT (Optional)
- ▶ LOW POWER CONSUMPTION
- ▶ 9 FAVORITE LISTS
- ▶ AUTO UPDATED EPG

2. TUNER SECTION

- ▶ 950~2150 MHz WIDE BAND TUNER
- ▶ SUPPORTING DiSEqC 1.2 VERSION
- ▶ 13V/18V SWITCHING
- ▶ 22KHz CONTINUOUS TONE CONTROL

3. VIDEO SECTION

- ▶ DVB-S COMPLIANT
- ▶ MPEG-2 VIDEO(MP@ML)
- ▶ 2~45 MS/s SYMBOL RATE
- ▶ COMPATIBLE FOR BOTH SCPC/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 REMOTE CONTROL UNIT
- ▶ SPDIF DIGITAL AUDIO OUTPUT

CONNECTING YOUR "STB"

1. LOCATION OF THE RECEIVER

Your STB 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.

2. CONNECTING THE RECEIVER WITH DISH 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 STB. All cable connectors should be finger tightened; do not use any kind of wrench while tightening connectors. The cable should be 75ohm impedance coaxial twisted at the end with an "F" type connector.

3. CONNECTING THE RECEIVER TO TV

To connect the receiver with your television, you can use Scart Cable. In the case of connecting your TV through SCART cable, connect the SCART connector marked TV to the respective SCART port on the TV.

4. CONNECTING YOUR VCR

To connect a VCR, the STB has been provided with SCART at the rear marked "VCR". Using a SCART connector, the VCR can be connected to the receiver. **Note** : This is supported by standby.

5. CONNECTING YOUR DIGITAL AUDIO SYSTEM

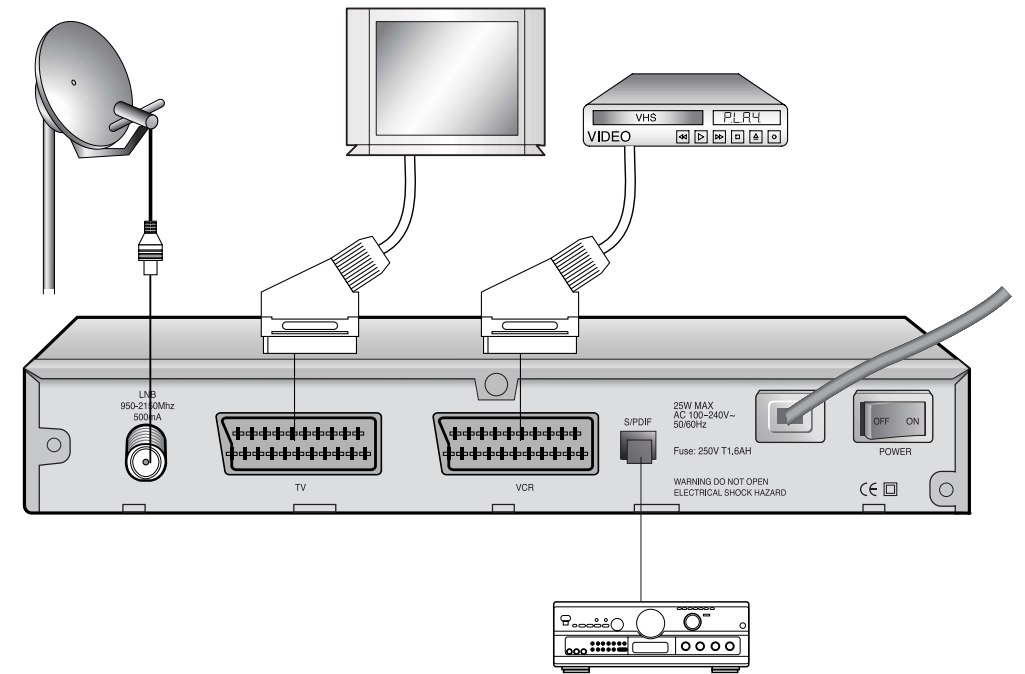
If you have a DAC with S/PDIF optical cable input, you can connect the STB with it to enjoy higher quality sound. Connect S/PDIF optical cable to a digital amplifier.

6. INSERTING SMARTCARDS FOR VIACCESS SERVICES (For model DSB-9401V)

In order to view a scrambled service, you need to have a valid Smartcard. This DSB-9401V has the Viaccess CAS embedded to view Viaccess programmes.

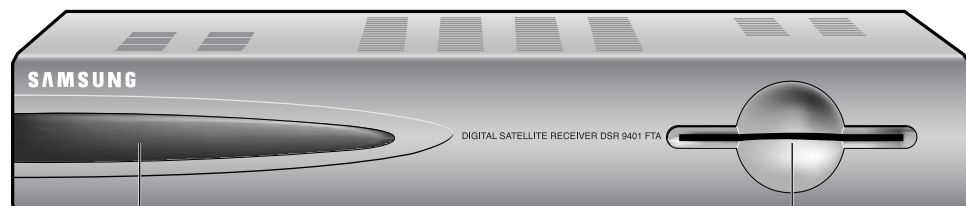
Note : Insert the Smartcard with the gold coloured chip facing downwards.

Connecting Figure



DESCRIPTION

Front Panel



1

2

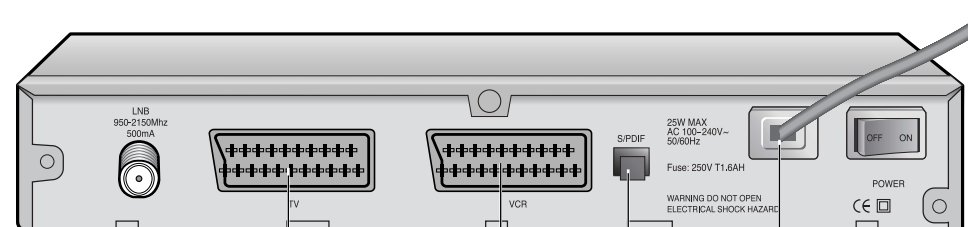
1. LED Display

When the LED light Red, the set-top box enters the standby mode.
When the LED light Green, it enters the operation mode.

2. Card Slot

1 Slot for Viaccess smartcard. (For model DSB-9401V)

Rear Panel



4

3

2

1

1. AC MAINS

This is to plug in the AC mains power cord.
The input AC voltage range is 100V to 240V, 50Hz/60Hz supply.

2. S/PDIF

Output for connection to a digital amplifier.

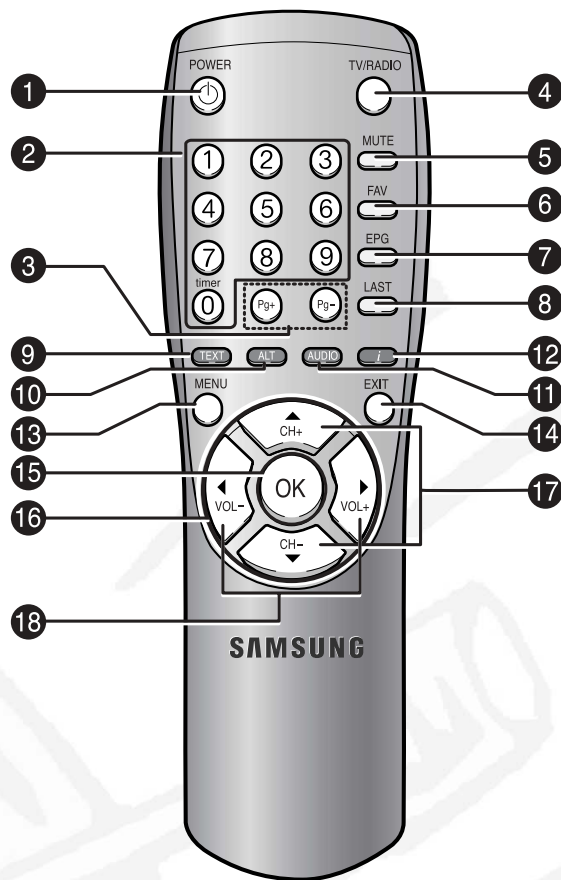
3. VCR SCART

This is used to connect to your VCR.

4. TV SCART

This is used to connect to your TV.

Remote Control Unit



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

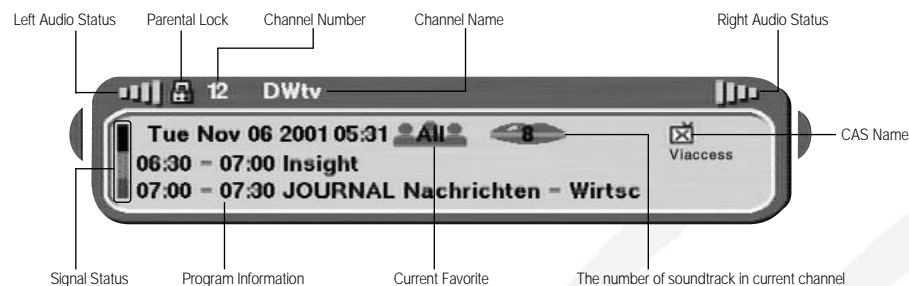
1. **POWER** (⏻) This is used to switch the receiver ON/STANDBY mode.
2. **0-9 Numerical keys** (0~9) These keys are to enter numeric values and to select the channel directly by entering its number.
3. **Pg+/Pg-** (Pg+, Pg-) These keys are used to move up or down pages the menu.
4. **TV/RADIO** This key is used to toggle between the TV channel and Radio channel.

5. **MUTE** This key is used to toggle between normal & muted audio.
6. **FAV** Use the key to switch between favorite lists.
7. **EPG** Electronic Program Guide button displays the TV/Radio Program guide.
8. **LAST** This key is used to call up directly whatever channel you were watching list.
9. **TEXT(GREEN)** (TEXT) This key is used to select the subtitle mode. This button functions same as the GREEN button on the menu. Press once and subtitle appears. You can select the language you want using the channel +/- keys. Press twice and Teletext with OSD appears. Press three times and Teletext with VBI appears.
10. **ALT(YELLOW)** (ALT) This key is used to select the soundtrack list for the current service. This button functions same as the YELLOW button on the menu. Press once and sound track appears. Press twice and video track appears. The sound and video track services are not provided for every channel and depend on the conditions the operator is in.
11. **AUDIO(BLUE)** (AUDIO) This key is used to change the Audio to the left, right or both channels. This button functions same as the BLUE button on the menu.
12. **INFORMATION (RED)** (i) This key is used to display the programe information box in the screen. This button functions same as the RED button on the menu. Press once and you can get simple information on the program. Press twice and you can get detailed information on the channel in text box.
13. **MENU** This key is used to open up the menu or return to the previous menu.
14. **EXIT** This key is used to exit a menu or return to the previous menu.
15. **OK** (OK) This key is used to enter and confirm any data to the receiver in the menu system. This key is used to select the item. Press while viewing TV and a list of channels is displayed.
16. (Left, Right, Up, Down) These keys are used to move the highlight bar for selecting options on the menu, and this button is used to change channels and increase or decrease the volume.
17. **CH+/CH-** (CH+) These keys are used to change channels.
18. **VOL+/VOL-** (VOL+) These keys are used to increase or decrease the volume. These keys are used to move up or down pages on the channel list.

BASIC FUNCTIONS

1. Display Screen

Before you can view the television program, you must perform the installation. 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:



- Press the **Red** (i) key in view mode.
- Select the channel by pressing **Numerical** (0~9) keys or **TV/RADIO** keys and select **TV/RADIO** key to move to TV or Radio channel.

You will also see this picture each time you change channels. When you press **TV/RADIO** key on the Remote Control Unit, **TV** and **Radio** program are toggled.

Detailed program information

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

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

Note: This service depends on service provider.

2. Volume Control



To control the volume level :

- Press **Left/Right** keys to adjust the volume level.
- Press **MUTE** key to turn to silence mode.
- Press **MUTE** key again in order to cancel the mute function.

3. Select Soundtrack

- Press **Yellow** (ALT) key to see the soundtrack list.
- Press **Left/Right** and **OK** key to select one.



4. Select Videotrack

- Press **Yellow** (ALT) key twice to see the videotrack list.
- Press **Left/Right** and **OK** key to select one.

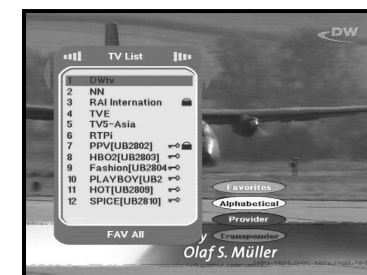


5. Service List

- Press **OK** key to while you are viewing a program.
- Select list by pressing **TV/RADIO** or **FAV** key.

The icon behind the channel name symbolises scrambled channel, and the icon behind the channel name symbolises lock channel.

- Select the channel by pressing **Left/Right**, **Page Up/Down**.
- Press **OK** key to watch that channel.



The colour key corresponds the following service list.

- **Green** (TEXT) key : **Favorites**
- **Yellow** (ALT) key : **Alphabetical**
- **Blue** (AUDIO) key : **Provider**
- **Red** (i) key : **Transponder**

BASIC FUNCTIONS

5.1 Service Favorites

- Press the **Green (TEXT)** key on the control unit to select the Favorites list.
- Use the / , / keys to select a favorite group that you want.
- Press the **Green (TEXT)** key to toggle group and channel list.



5.2 Service Alphabetical

- Press the **Yellow (ALT)** key on the remote control unit to select the Alphabetical list.
- Use the / , / keys to select a Alphabetical group that you want.
- Press the **Yellow (ALT)** key to toggle group and channel list.



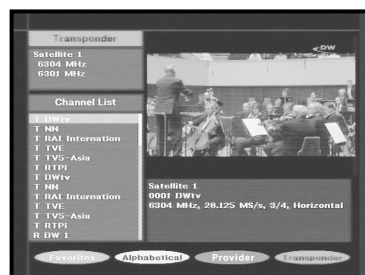
5.3 Service Provider

- Press the **Blue (AUDIO)** key on the remote control unit to select the Provider list.
- Use the / , / keys to select a Provider group that you want.
- Press the **Blue (AUDIO)** key to toggle group and channel list.



5.4 Service Transponder

- Press the **Red (i)** key on the remote control unit to select the Transponder list.
- Use the / , / keys to select a Transponder group that you want.
- Press the **Red (i)** key to toggle group and channel list.

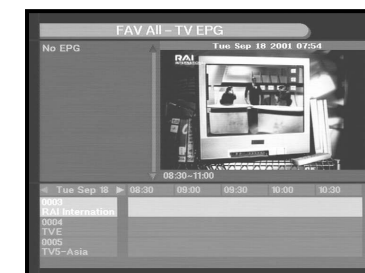


6. Program Information

EPG-Electronic Program Guide

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

- Note :**
1. This service depends on service provider.
 2. After receiver recognized the GMT-time from the signal which takes few seconds, it can display correct EPG information.



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

This function is displayed on the screen by using only time. You will see "EPG" in the LED display of the receiver.

- **Green (TEXT)** key - Use to display the program list until this day last week by going back per one day.
- **Yellow (ALT)** key - Use to display the program list until this day next week by going forward per one day.
- / keys - Use to display the program list by 30minutes per block.

With the **TV/RADIO** or **FAV** key you can browse among the various programs lists.

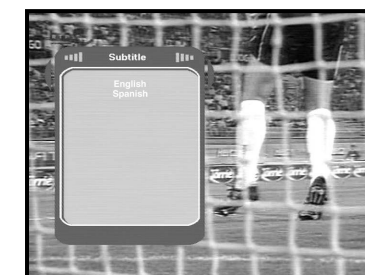
- Select the channel by pressing / , / keys and press key to watch this channel.

7. Subtitle

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

To change the subtitle language:

- Press the **Green (TEXT)** key to see the subtitle language List.
- Use the / keys to select a subtitle language you want.
- Press the key and then the subtitle language you want is displayed. The menu display is carefully created and user friendly to assure the easy operation of the receiver by the user.






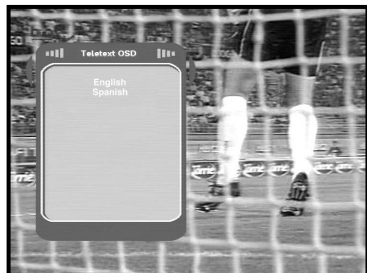
OPERATING THE RECEIVER

8. Teletext OSD

When the current broadcasting program provides Teletext OSD, press the **Green (TEXT)** key twice to see the current Teletext OSD list.

To change the Teletext OSD:




- Use the  /  keys to select a **Teletext OSD** you want.
- Press the  key and then the **Teletext OSD** you want is displayed on the screen.

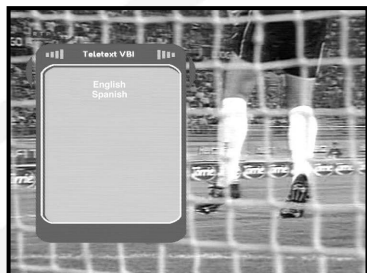


9. Teletext VBI

When the current broadcasting program provides **Teletext VBI**, press the **Green (TEXT)** key three times to see the current Teletext VBI list.

To change the Teletext VBI:

- Use the  /  keys to select a **Teletext VBI** you want.
- Press the  key and then the **Teletext VBI** you want is displayed on the screen.



Main Menu

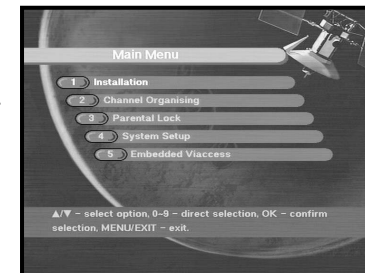
After installing your antenna system and STB with appropriate connectors.

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

The following on screen display will appear:

The sub menu topics will be displayed from 1 to 5. For the sub-menus 1, 2 and 3 you need the PIN Code.

- You must follow the help message at the bottom of the screen!



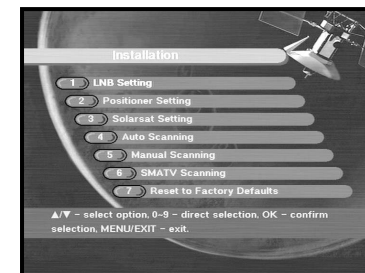
Before you begin with the "Installation" menu, you should check in the 4th menu "System Setup" whether all the information there is applicable for you.

1. 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.

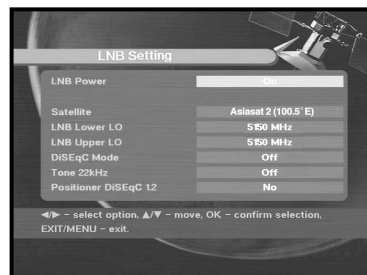
If you have not entered your own **PIN** Code then the **PIN** Code **0000** applies, which was set at the factory.



1.1 LNB Setting

You can select the satellite and LNB setting conditions to execute channel search and you can alter the settings for 22KHz tone. The parameters set in this menu are needed for programming the channels for the "Auto scanning" and "Manual scanning".

The necessary information can be found at your antenna and LNB brochures, or you can ask your dealer.



- Select LNB power supply "On".
- Select the desired satellite name.
- Select the LNB type (frequency).
- Select the DiSEqC Mode (Off, DiSEqC A, DiSEqC B, DiSEqC C, DiSEqC D, Tone Burst A, Tone Burst B)

If you are using a Positioner, select this option. ("Yes" or "No")

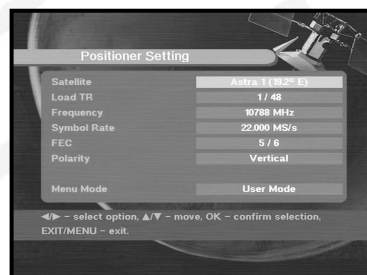
22KHz: In case you are using a dual LNB or two antennas connected to a 22 kHz tone switch box, with the 22 kHz tone switch ("On", "Off" or "Auto") you can switch between both LNB or antennas.

1.2 Positioner Setting

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

- Select Satellite.
- Select any transponder from above satellites and check out the Frequency, Symbol Rate, FEC and Polarity.

In case problems arise, ask your dealer.



- Select from Menu Mode:

"User" mode : Enables control of basic positioner function recommended for beginners. General user uses "User" mode.

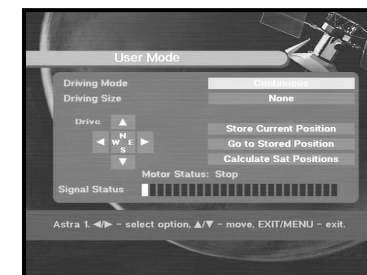
"Installer" mode : Complete control of the positioner's full functions recommended for installers and professional users.

1.2.1 User Mode

- **Select Driving Mode:**

You have an option to choose the positioner's movement type: Continuous, Step or Time.

- Position the antenna with north, south, east and west and use the / key to drive motor. key drives to west, key drives to east, key drives to north and key drives to south.
- If you finished driving of motor, select "Store current Position." and press key, to reset new driving motor.



Note : The level indicated in the "Signal Status" is only for reference. The signal quality may be adequate even though the level indicated is not maximum.

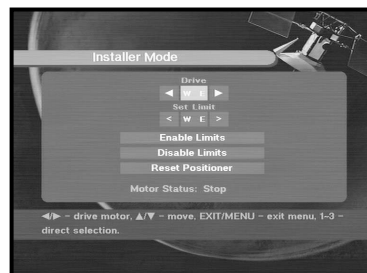
- Go to Stored Position.

When the stored position is reached then screen displays "Stop", you can now continue with the further operations.

- Select the Calculate Sat Positions to recalculate the satellite position and key.

1.2.2 Installer Mode

After checking the positioner's state, installer should use this menu. He should set the "Disable Limits" before using User mode.



- Select the Drive Motor West/East and use the / keys to drive motor. key drives to west and key drives to east.
- Select "Enable Limit", in order to enable "Set Limit".
- Select "Disable Limit", in order to disable "Set Limit".
- Select "Reset Positioner" and key to reset positioner.

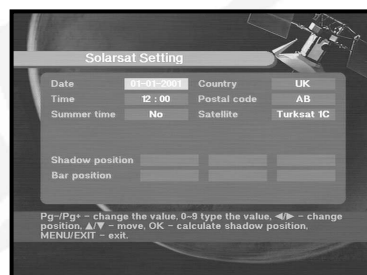
1.3 Solarsat Setting

This menu is only for the Solarsat antenna.

When you press this menu, you will get this message, "This menu is only for the Solarsat antenna. If you have one-press OK, otherwise-press EXIT."

You can set the value according to your location.

- To set the Value of Date and Time, use the / keys to change the value.
- Use the / keys to change position.
- Use the / keys to move each filed.



1.4 Auto Scanning

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

To download channels automatically:

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

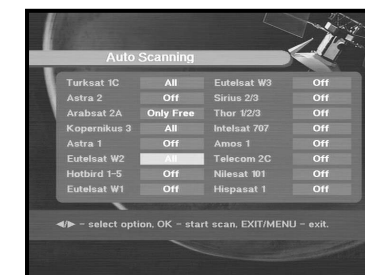
- Off :** No Scan
- All :** Scan all the channels
- Only Free :** Scan free channels

- Press key.

Auto Scanning menu will be displayed.

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

After scanning you will see "Your digital receiver found..." . Afterwards you return to Auto Scanning menu.



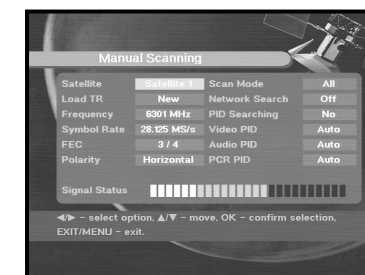
1.5 Manual Scanning

To tune-in new channels and weak signals, the STB has been provided with the option "Manual Scanning" where the channel data can be entered by the user. After selecting the "5. Manual Scanning" 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.

Note : When you enter Frequency after setting Load TR to New, the entered information must include at least one channel to make channel save possible.

- Input the frequency of the transponder you want to find.
- Input the symbol rate of the transponder you want to find.



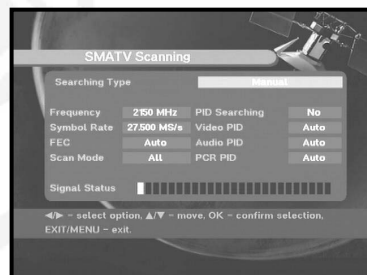
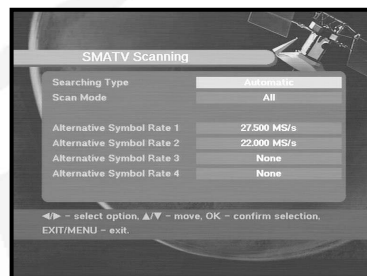
- Select the FEC(Forward Error Correction)of the transponder you want to find.
You can select the value of 1/2, 2/3, 3/4, 5/6, 7/8 or Auto.
- Select the polarization of the transponder you want to find. **(Horizontal/Vertical/Circular Left/Circular Right)**
In the case of horizontal, 18V and in the case of vertical, 13V are output through LNB line.
- Select Scan Mode **"All"** or **"Only Free"**.
- Select Network searching **"Yes"**.("No" is default).
You can find more transponders using the home network.
- Select PID searching **"Yes"**.("No" is default). You can manually search by entering individual PID(Packet Identifier)(Video/Audio/PCR) values.
- After select option, press **OK** key to start the scan process.

1.6 SMATV Scanning

In case that several generations use Antenna and LNB in common, search the service the from 950 to 2150MHz.

- Select Searching Type **"Automatic"** or **"Manual"**.
- Select Scan Mode **"All"** or **"Only Free"**.
- You can input alternative symbol rate from 1 to 4

Note : 1. When your searching type is set to Automatic during **SMATV** scanning, you have only to enter the alternative symbol rate(1~4) you want.
2. When your searching type is set to Manual during **SMATV** scanning, you must enter both frequency and symbol rate.

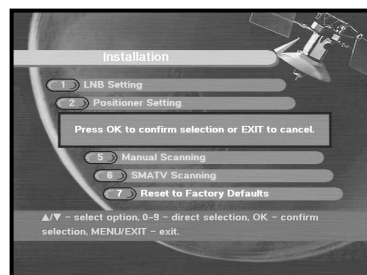


1.7 Reset to Factory Defaults

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.

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

Note : This cause your previous settings to be deleted!



2. Channel Organising

The **"Channel Organising"** menu has seven functions:

The **"Channel Organising"** menu is used to delete the Satellites, Transponders and Channels or to make Favorite channels or move channel as you want.

- Enter the **PIN** Code.

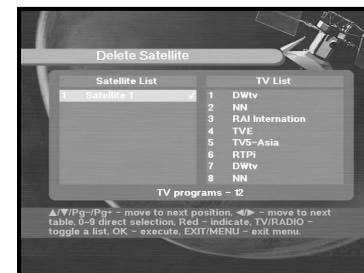
If you have not entered your own **PIN** Code **PIN** Code **0000** applies, which was set at the factory.



2.1 Delete Satellite

- Select the desired satellite list you want to delete by pressing **Red (i)** key.
- Press **OK** key for confirmation.

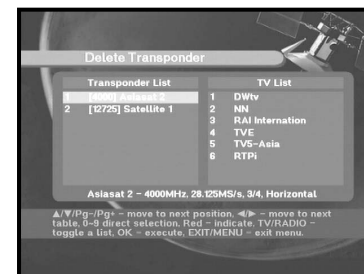
Note : This feature doesn't delete satellite itself but deletes the list of channels registered for satellite.



2.2 Delete Transponder

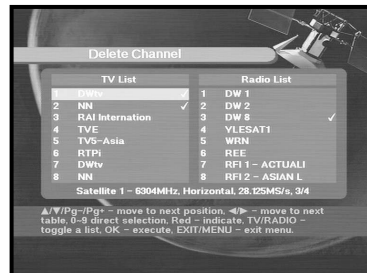
- Select the desired transponder list you want to delete by pressing **Red (i)** key.
- Press **OK** key for confirmation.

Note : This feature doesn't delete transponder itself but deletes the list of channels registered for transponder.



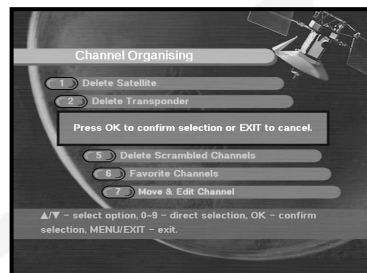
2.3 Delete Channel

- Select the desired channel you want to delete by pressing **Red** (**i**) key.
- Press **OK** key for confirmation.



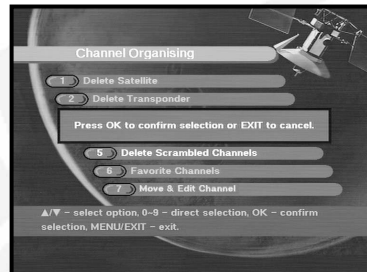
2.4 Delete All Channels

At the request window, press **OK** key to delete all channels and press **MENU / EXIT** to exit.



2.5 Delete Scrambled Channels

At the request window, press **OK** key to delete scrambled channels and press **MENU / EXIT** to exit.



2.6 Favorite Channels

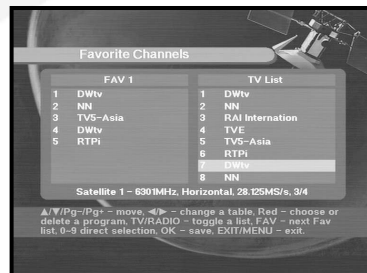
You can change TV list or Radio list by **TV/RADIO** key and change favorite list by **FAV** key. This enables you to create the 9 favorite TV and Radio list.

- Select the desired channel list with **Left/Right** keys.
- When you press the **TV/RADIO** key, TV list and Radio list are toggled.

Right List : Adds a channel to the left list by pressing the **Red** (**i**) key.

Left List : Deletes a channel by pressing the **Red** (**i**) key.

- Press **FAV** key to select another favorite list.
- Then press **OK** key for confirmation.

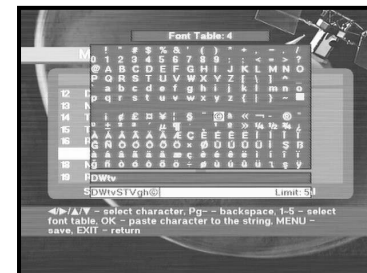


2.7 Move & Edit Channel

- Select the desired list with **Left/Right** keys.
- Select channel by pressing **Red** (**i**) key.
- Press **Left/Right**, **Pg+/Pg-** keys to change the position of the channel you want, and press **OK** key for confirmation.
- Press **Red** (**i**) key again to return to previous state.
- If you want to return the channel to the initial position, do not press **OK** key but press **blue** (**AUDIO**) key.



- To edit channel name, press **Green** (**TEXT**) key. Font Table will be displayed.
- Select desired character with **Left/Right**, **Up/Down**, and then press **OK** key to paste character to the string.
- Press **MENU** key to save tge set data.



3. Parental Lock









This "Parental Lock" feature sets viewing restrictions and prevents unauthorized access to your STB through the PIN (Personal Identification Number), which is a 4 digit number. (The factory preset PIN Code : **0000**)

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

- Enter PIN Code.


If you have not entered your own PIN Code then the **PIN Code 0000** applies, which was set at the factory.

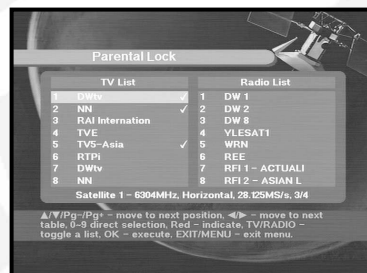
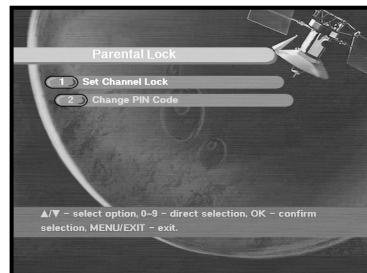
3.1 Set Channel Lock

- Select the channel by pressing  /  ,  /  ,  / .
- When you press the **TV/RADIO** key, TV list and Radio list are toggled.
- Select the channel lock by pressing **Red** () key.
- Press  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.

To cancel the lock :

- Press **Red** () key again in order to cancel the lock.



3.2. Change PIN Code

To change the PIN Code, select the second option "Change PIN Code".

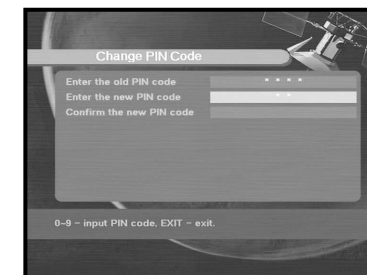
This will take you to the following menu:

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.

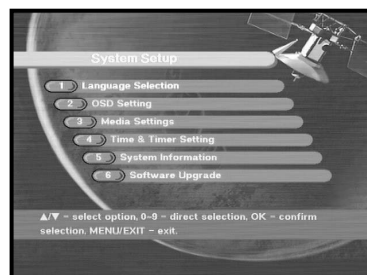
Please remember the PIN Code should be a 4 digit numerical value.

THE FACTORY PRESET PIN CODE : **0 0 0 0**.



4. System Setup

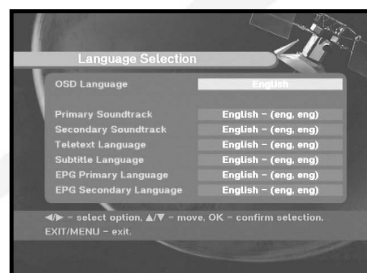
This option enables you to change the factory preset system settings as per your requirements.



4.1. Language Selection

The "Language Selection" option allows the user to select the desired language of the OSD, Soundtrack, Teletext, Subtitle or EPG.

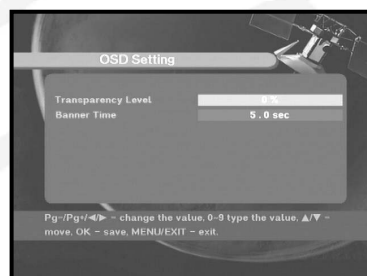
- To accommodate user from different regions speaking different languages, OSD languages are available 19 languages.
- To select the desired language menu, press \leftarrow/\rightarrow keys to change language and press OK .
- The OSD Language, Soundtrack, Teletext, Subtitle, or EPG will vary according to the selected language.



4.2 OSD Setting

You can set the OSD transparency and the display time.

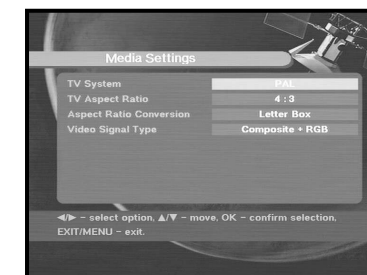
- Select OSD Transparency type. The OSD Transparency level from 0 to 100%.
- Set the display duration of the information(banner) box displayed in the screen. The time ranges from 0.5 to 60.0 seconds.



4.3 Media Settings

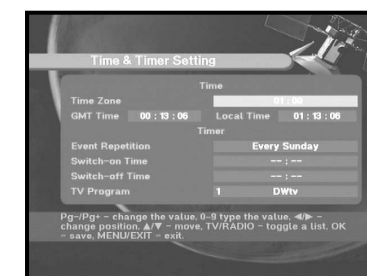
You can set the various media settings you want. Place the cursor on this sub menu and press OK .

- Select the TV system : PAL, SECAM.
- Select the TV type according to your TV: **STANDARD** 4: 3 ratio or **WIDE SCREEN** 16 : 9 ratio type.
- Select the aspect ratio conversion : Letter box, Pan & Screen, Mixed or Full.
- Select the Video Signal Type : Composite+RGB or Composite.



4.4 Time & Timer Setting

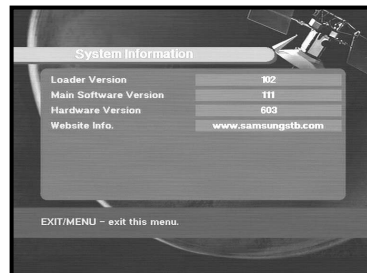
- Place the cursor on this sub menu and press OK .
- Press the $\text{Pg-}/\text{Pg+}$, \leftarrow/\rightarrow keys to change the Local time in Time Zone. The local time will be changed according to your location.
- Press the \leftarrow/\rightarrow keys to choose event repetition you want to reserve : Daily, Every Sunday, Every Monday, Every Tuesday, Every Wednesday, Every Thursday, Every Friday, Every Saturday, Once.
- Press the **Numerical** $\text{0} \sim \text{9}$ keys to set the time you want and press the \leftarrow/\rightarrow keys to choose a switch time you want to reserve.
- Select TV program to set the event program by pressing \leftarrow/\rightarrow keys. When you press the **TV/RADIO** key, TV program and Radio program are toggled.



4.5 System Information

If you have to contact your service provider or a service center they might ask for information available from this menu.

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



4.6 Software Upgrade

You can download and upgrade the software of this **STB** through ASTRA, Sirius and Hotbird satellite when the new software is released.

During downloading don't turn off the **STB**.

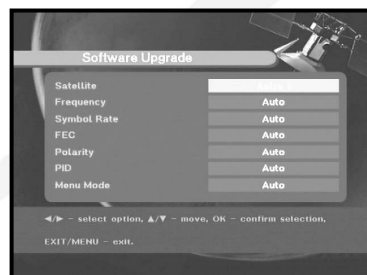
If there is a new version of software to download, you are asked if you will update or not.

If 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 (For model DSB-9401V)

1. Change PIN Code:

Change the PIN Code of the Smartcard, if necessary.

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:

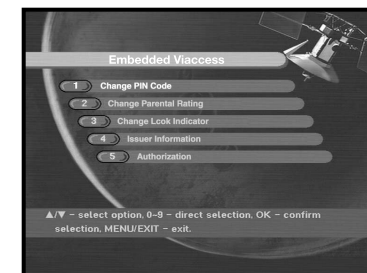
You can change the lock status of the Viaccess Smartcard.

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 Smartcard.



TROUBLESHOOTING

Problem	Possible cause	Solution of the problem
No display LED on the front panel; No power supply	Power cord not plugged in correctly	Power cord plug in correctly Back switch 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 too low	Check the signal strength in the "Auto Scan" menu, correct alignment of your antenna
On-Screen Error Message "Searching 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 Smartcard"; "Please insert the Smartcard".	Smartcard: - not plugged in correctly; - not plugged in.	(depend on model) Check the Smartcard. "Insert the Smartcard."

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.

TECHNICAL SPECIFICATIONS

1. User section

4000 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,

auto and manual scan facility, channel organizing (programmable), SCARTS output, low power consumption

2. Tuner section

950 - 2150 MHz wide band tuner, 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

compatible for both SCPC/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 Remote Control Unit.

Power supply

Type:
Input Voltage:
Power Consumption:
Stand by:

SMPS
100-240V AC 50/60Hz
Max. 25W
11W

VIDEO DECODER

Transport
Transport stream

MPEG-2 ISO/IEC 13818
Transport stream Specification
MPEG-2 MP@ML

Input Rate
YUV format
Aspect ratio
Resolution

Up to 100Mbps
4:2:2
4:3, 16:9
720 x 576, 704 x 576,
544 x 576, 480 x 576,
352 x 576, 352 x 288
0.5, 2.0 in both horizontal and vertical directions

Scale

TECHNICAL SPECIFICATIONS

NETWORK INTERFACE (Broadcasting - Digital)

Interface	One LNB input
Front end	DVB-S compliant digital satellite receiver (ETS 300 421)
FEC Decoder	Convolutional Code Rate 1/2, 2/3, 3/4, 5/6 and 7/8 with constraint Length K=7
Input frequency range	950 ~ 2150Mhz
NF	12dB (typical)
Input Connector	F-type, IEC 169-24, Female
Input Symbol Rate	2 ~ 45 Msps
Input Signal Level	-65dBm ~ -25dBm at 75
DiSEqC	DiSEqC 1.2 (500mA max)
LNB Power & Polarsation	Vertical: +12V ~ +14V Horizontal: +17V ~ +19V Current: Max. 500mA, Overload Protection
22kHz Tone	Frequency: 22 ± 4 kHz Amplitude: 0.6 ± 0.2 v
Demodulation	QPSK
Outer FEC:	Reed Solomon Coding (204,188), t = 8

AUDIO DECODER

Decoding	MPEG-1 layers I, II
Sampling rate	Up to 256kbps
Audio mode	Single mode, dual mono, stereo, joint stereo

BASE-BAND AUDIO/VIDEO OUTPUT

VIDEO	PAL, SECAM Interface: 2 SCART (TV, VCR) Impedance: 75 Output level: 1Vp-p Differential gain: 5% max Signal to noise ratio: 60dB min (digital)
AUDIO	Inteface: Scart Impedance: 600 balance Output level: 3.0Vp-p max (controllable) Frequency response: ± 3 dB (20~15kHz) Signal to noise ratio: 60dB min (digital) S/PDIF (Digital Audio Output)

MEMORY

Flash	2MB
SDRAM	8MB

PHISICAL SPECIFICATION

Size (W x D x H)	233 x 176 x 38 mm
Weight (Net)	0.95Kg