SAMSUNG

DSR 9500A

FTA, CI, EM VIA, VIA CI

Instructions for use

"REV 1.0"

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 euipment 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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CONNECTING YOUR "DSR 9500A"

1. LOCATION OF THE RECEIVER

Your DSR 9500A 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 DSR 9500A.
All cable connectors should be finger tightened; do not use any kind
of wrench while tightenning 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 three methods;
via Scart Cable, RF cable, or RCA cable.
Connect the RF cable to the terminal marked "TV" at the rear panel
of DSR 9500A 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 on the TV.

4. CONNECTING YOUR ANALOG RECEIVER

To facilitate the user using analog receiver to view analog channels,
DSR 9500A 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 9500A in standby,
you will be able to tune and view analog channels from
your analog receiver.

5. CONNECTING YOUR VCR

To connect a VCR or DVD player, the DSR 9500A has been provided with SCART
at the rear marked "AV2".
Using a SCART connector, the VCR or DVD player can be connected to the receiver.
Note : This is supported by standby.

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.

7. INSERTING SMARTCARDS FOR VIACCESS SERVICES

In order to view a scrambled service, you need to have the appropriate
conditional Access Module and a valid Smartcard. This DSR 9500A has the
Viaccess CAS embedded to view Viaccess programmes.

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

8. INSERTING COMMON INTERFACE CAM AND SMARTCARD

(For models DSR 9500A CI, DSR 9500A VIA CI)

The DSR 9500A 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.
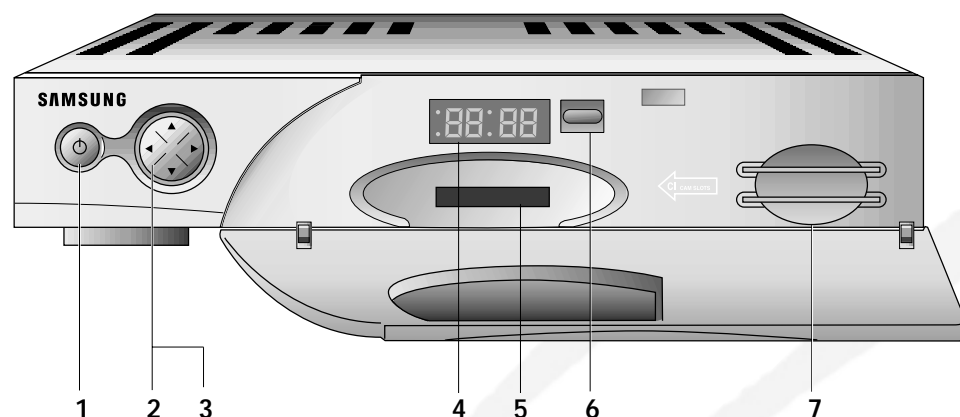 The CAM will be ejected from the socket.

Note : The following Common Interface CAMs are available now:
IRDETO, CONAX, CRYPTOWORKS, VIACCESS, NAGRAVISION,
SECA, Etc.

Connecting Figure
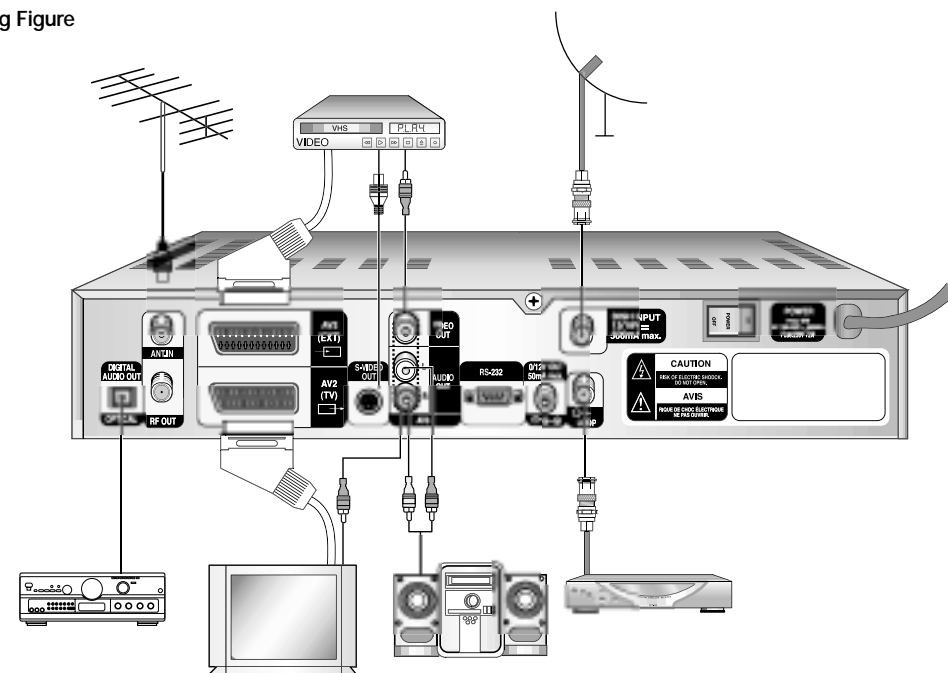
DESCRIPTION

Front Panel


1.   ⏻   This key is used to turn the receiver on and off (Standby).

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 Standby mode, the display will show the current time.

5. CAM Slot   Slot for Common Interface. (For models DSR 9500A CI, DSR 9500A VIA CI)

6. Infrared Sensor   This is to receive the IR commands from the Remote Control Unit.

7. Card Slot   Slot for Viaccess smartcard. (For models DSR 9500A EM VIA, DSR 9500A VIA CI)

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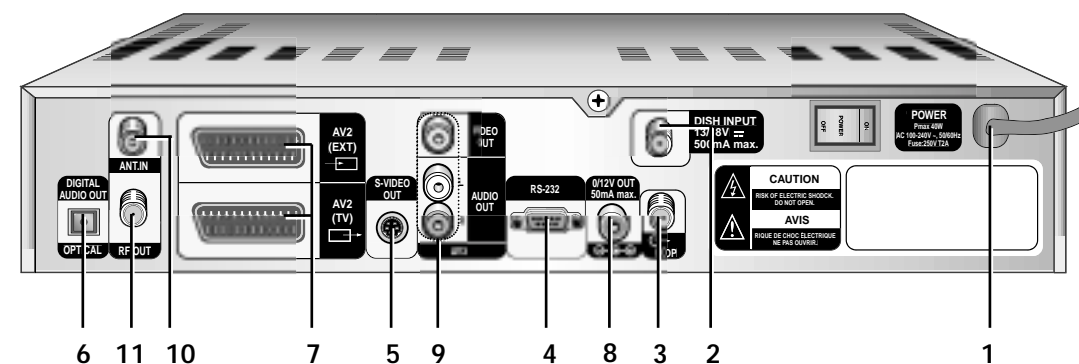
1. AC MAINS   This is to plug in the AC mains power cord. The input AC voltage range is 100V to 240V, 50Hz/60Hz supply.

2. 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 13V and 18V 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 to a computer for reading and loading data information.

5. S-VHS   This is used to connect STB to your TV by using S-VHS cable.

6. SPDIF   Output for connection to a digital amplifier.

7. AV SCARTS   This is used to connect to your TV & VCR or DVD player.

8. 0/12V   This is used to connect to an external LNB switch.

9. VIDEO, AUDIO R/L   These RCA connectors are used to connect any external video and audio.

10. ANT.IN   This is used to connect your local RF channels to your TV through Loop.

11. TV   This is used to connect to your TV via RF cable.

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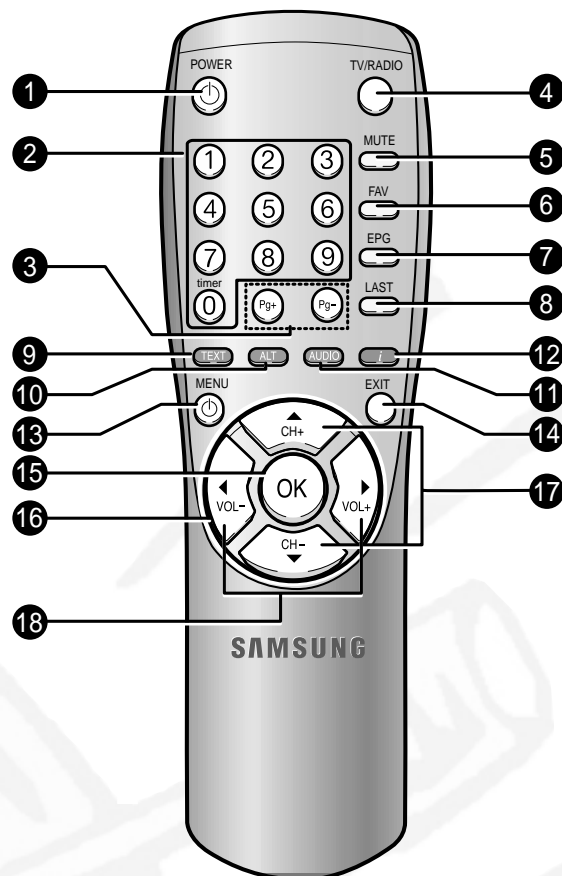
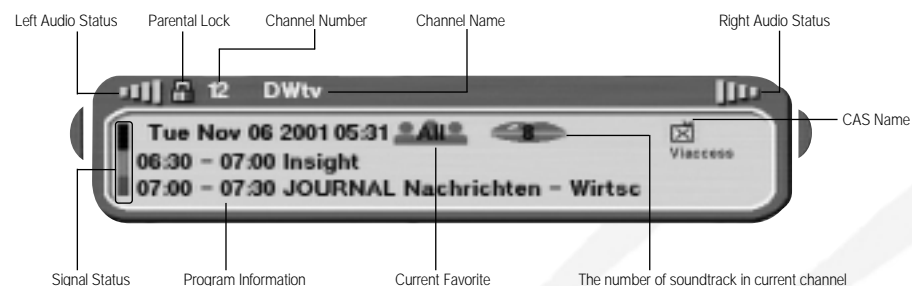*Note* : When inserting batteries, make sure that the polarity(+/-) is correct.

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. ◀ ▶ , ▲ ▼ 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-( ) These keys are used to change channels.

18. 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:

Left Audio Status   Parental Lock   Channel Number   Channel Name   Right Audio Status

```
▪▪||   🔒  12   DWtv                          ||▪▪
```
CAS Name

Tue Nov 06 2001 05:31 👤ALL👤 ◄▬▬B▬▬
06:30 ~ 07:00 Insight   ☒
07:00 ~ 07:30 JOURNAL Nachrichten ~ Wirtsc   Viaccess

Signal Status   Program Information   Current Favorite   The number of soundtrack in current channel

- Press the **Red (i)** key in view mode.
- Select the channel by pressing **Numerical (⓪ ~ ⑨)** keys or
  ⌄ / ⌄ 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 ⊙ / ⊙ 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 ⌄ / ⌄ and ⊛ key to select one.

4. Select Videotrack

- Press **Yellow (ALT)** key twice to see
  the videotrack list.
- Press ⌄ / ⌄ and ⊛ key to select one.

5. Service List

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

  **The icon ▬o behind the channel name symbolises
  scrambled channel, and the 🔒 icon behind the
  channel name symbolises lock channel.**

- Select the channel by pressing ⌄ / ⌄, Pg▲ / Pg▼ .
- Press ⊛ 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.
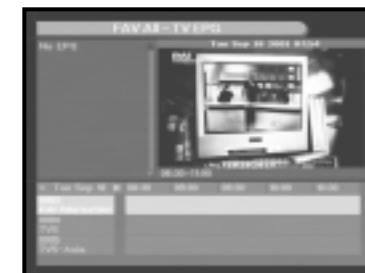
● Press **EPG** key while you are viewing a program.

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. The main menu is classified into Six sub menus which will carry out the various operations individually.

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 DSR 9500A 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:

The sub menu topics will be displayed.
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.**
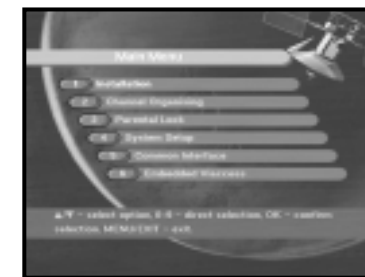
1. Installation

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.
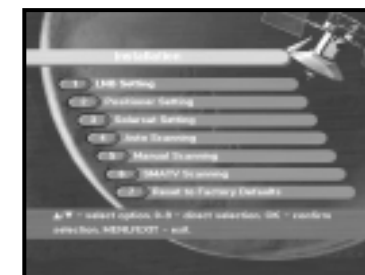
1.1 LNB Setting

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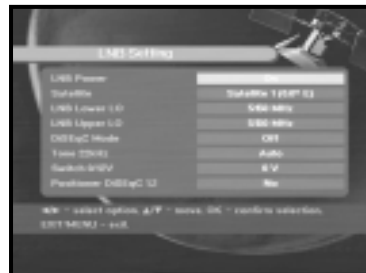
● Select LNB power supply "**On**".
● Select the desired satellite name.
● Select the LNB type (frequency).
● Select the DiSEqC Mode
   (Off, DiSEqC A, DiSEqC B, DiSEqC C, DiSEqC D, Tone Burst A, Tone Burst B)

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 22KHz 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.
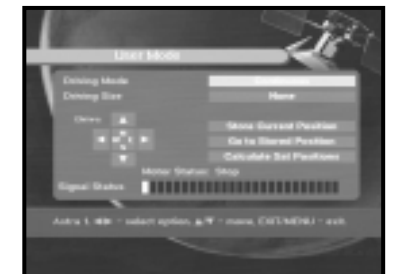
Note : The level indicated in the "Signal Status" is only for reference. The signal quality may be adequate even though the level indicated is not maximum.

● 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.
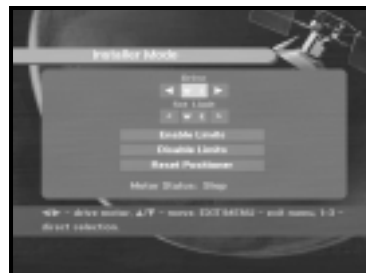
1.3 Solarsat Setting

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 ⟨PP+⟩/⟨PP-⟩ keys to change the value.
● Use the ⟨⟩/⟨⟩ keys to change position.
● Use the ⟨⟩/⟨⟩ keys to move each filed.
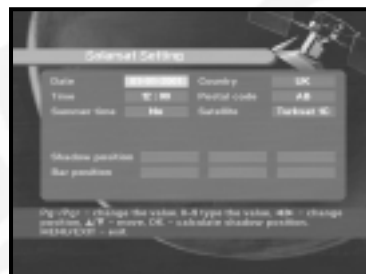
1.4 Auto Scanning

The sub menu "**Auto Scanning**" will enable download the 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.
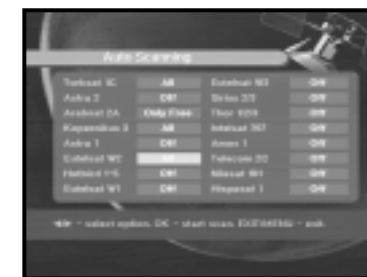
1.5 Manual Scanning

To tune-in new channels and weak signals, the DSR 9500A 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.
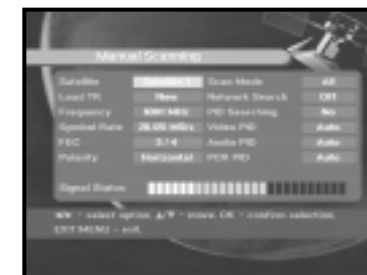
- Select the FEC(Forward Error Correction)of the transponder you want to find.
  You can select the value of 1/2, 2/3, 3/4, 5/6, 7/8 or Auto.
- Select the polarization of the transponder you want to find.
  (Horizontal/Vertical/Circular Left/Circular Right)
  In the case of horizontal, 18V and in the case of vertical, 13V are output through LNB line.
- Select Scan Mode "**All**" or "**Only Free**".
- Select Network Search "**Yes**".
  You can find more transponders using the home network.
- Select PID searching "**Yes**". You can manually search by entering individual PID(Packet Identifier)(Video/Audio/PCR) values.
- After select option, press ⊛ 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.

The screen display will be as follows:

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

Note : This cause your previous settings to be deleted!
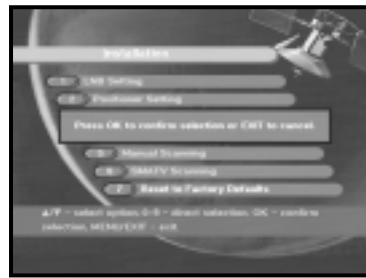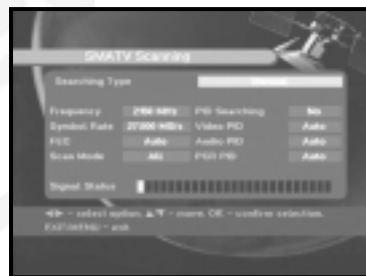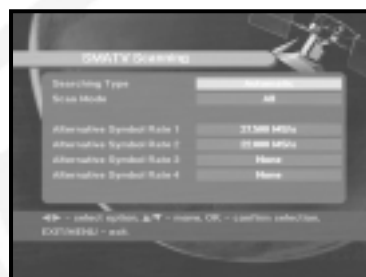
2. Channel Organising

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 ⊛ key for confirmation.

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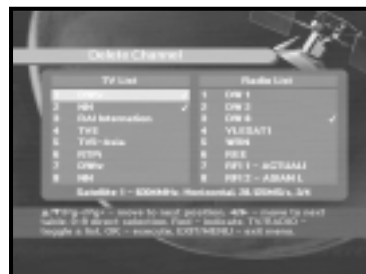
2.2 Delete Transponder

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

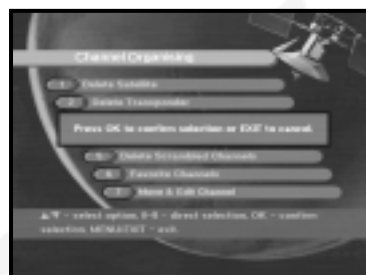*Note* : This feature doesn't delete transponder itself but deletes the list of channels registered for transponder.
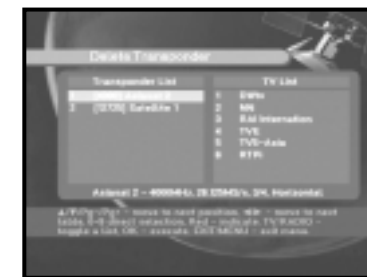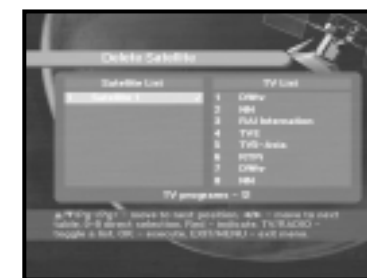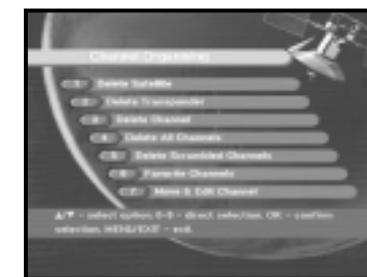
2.3 Delete Channel

● Select the desired channel you want to delete by pressing **Red (_i_)** key.

● Press Ⓞ key for confirmation.

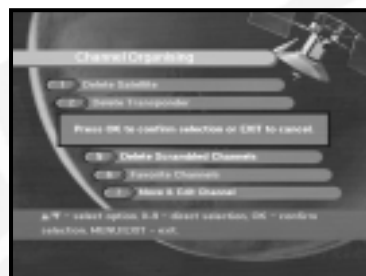## 2.4 Delete All Channel

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

2.5 Delete Scrambled Channels

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

2.6 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 9 favorite TV and Radio list.

● Select the desired channel list with ⟨ ⟩/⟨ ⟩ 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 Ⓞ key for confirmation.
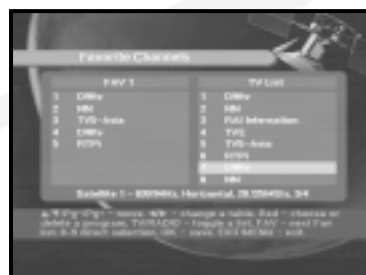
2.7 Move & Edit Channel

● Select the desired list with ⟨ ⟩/⟨ ⟩ keys.

● Select channel by pressing **Red (_i_)** key.

● Press ⟨ ⟩/⟨ ⟩, ⟨Pg⟩/⟨Pg⟩ keys to change the position of the channel you want, and press Ⓞ 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 Ⓞ key but press **blue (AUDIO)** key.
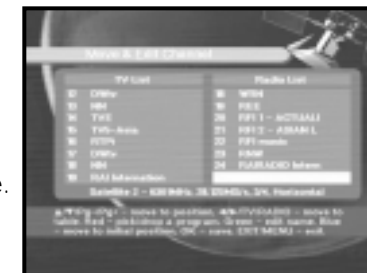
● To edit channel name, press **Green (TEXT)** key. Font Table will be displayed.

● Select desired character with ⟨ ⟩/⟨ ⟩, ⟨ ⟩/⟨ ⟩, and then press Ⓞ key to paste character to the string.

● Press **MENU** key to save the set data.

3. Parental Lock

This "**Parental Lock**" feature sets viewing restrictions and prevents unauthorized access to your DSR 9500A 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 (i)** 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 (i)** key again in order to cancel the lock.
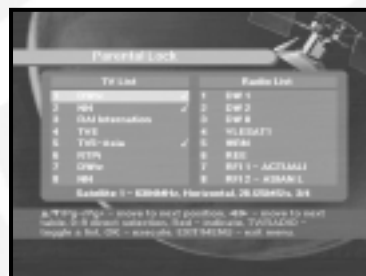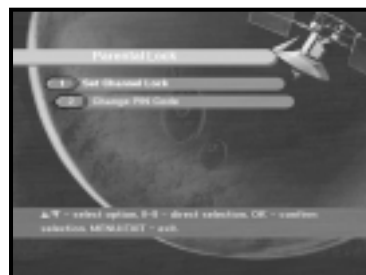
3.2. Change PIN Code

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**.
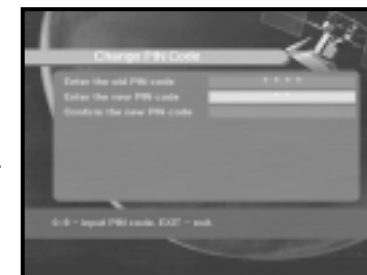
Note : If you forget the PIN Code, please refer to the following instruction;

> 1. Press **MENU** Key on the RCU.
> 2. Select "**System Setup**".
> 3. Select "**System Information**".
> 4. Press "**0000**".

4. System Setup

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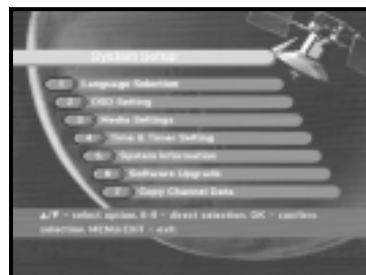
4.1 Language Selection

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.
● To select the desired language menu, press ⌃/⌄ keys to change language and press ⊚.
● 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.
● Place the cursor on the position you want, and press the **UP/DOWN** keys or **LEFT/RIGHT** keys until the screen moves to the position you want.
  The screen will move to the position you want.

4.3 Media Settings

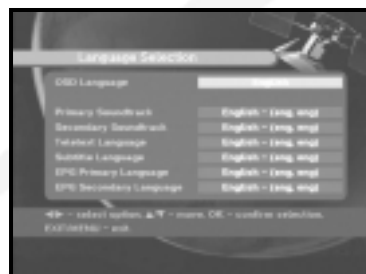You can set the various media settings you want. Place the cursor on this sub menu and press ⊚.

● 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.
● Select the RF Channel.   ● Select Broadcasting System : B/G, I or D/K.
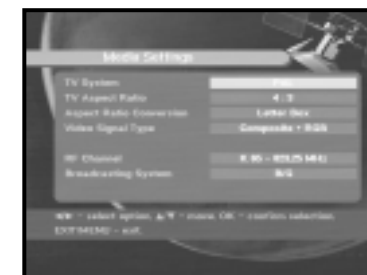
4.4 Modem Setting

● **Modem Type:** Please choose your modem type External or Advance External.
● **Prefix:** If you are using extension line, please enter prefix number.
● **Dialing:** Please choose between Tone and Pulse.

4.5 Time & Timer Setting

● Place the cursor on this sub menu and press ⊚.
● Press the ⊕/⊖ , ⌃ / ⌄ keys to change the Local time in Time Zone.
  The local time will be changed according to your location.
● Press the ⌃/⌄ 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 (⓪ ~ ⑨)** keys to set the time you want and press the ⌃/⌄ keys to choose a switch time you want to reserve.
● Select TV program to set the event program by pressing ⌃/⌄ keys.
  When you press the **TV/RADIO** key, TV program and Radio program are toggled.
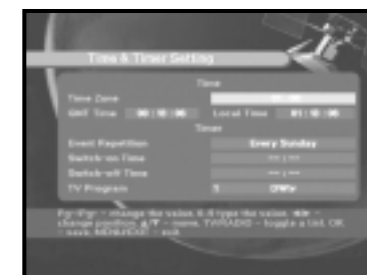
4.6 System Information

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 ⊛ key. The following will be the on-screen display.

4.7 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 ⊛ 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.

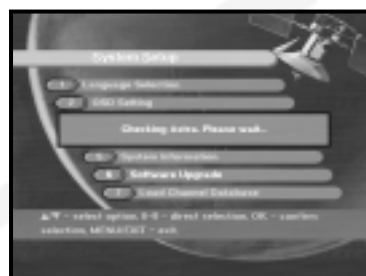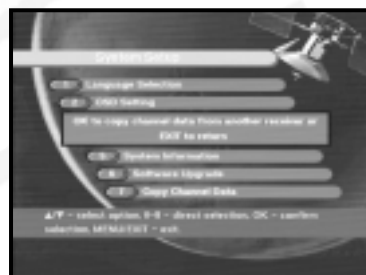## 4.8 Copy Channel Data (Only for DSR 9500A CI, DSR 9500A FTA)

If you want to copy the channel data from one receiver to another, please follow the instruction below. Please make your own channel data, such as favorite & lock channel with your own master box. Then take your master box when you install another box.

1. Plug on both master & slave receivers
2. Master Box(Installed Box) : Stand-by Mode
3. Slave Box(Installing Box) : Menu Mode
4. Connect 2 Boxes with RS232 serial cable (Both end should have male connector)
5. Select '**4. System Setup**'
6. Press '**7**' key on RCU
7. Press '**OK**' to start channel data copy

Note :   Use this function after removing SMART CARD or CAM modules.

5. Common Interface (Only for DSR 9500A VIA CI, DSR 9500A CI)

This STB is equipped with two PCMCIA slots, which enable the use of two CI-CAMS. 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.,
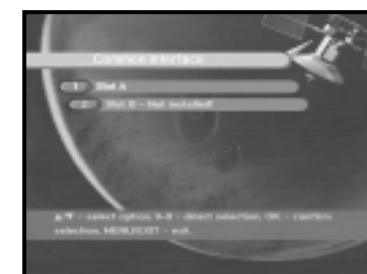
SLOT A: You can see the Common Interface CAM's name which has been inserted.
SLOT B: "**Not installed**" is displayed when there is no CAM in slot.

6. Embedded Viaccess (Only for DSR 9500A VIA CI, DSR 9500A EM VIA)

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

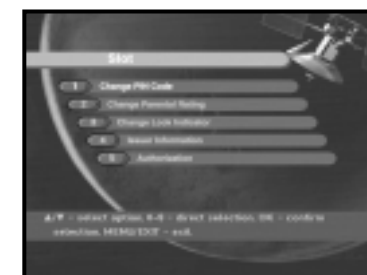| Problem	Possible cause	Solution of the problem
No display LED on the front panel; No power supply	Power cord not plugged in correctly	Power cord plug in correctly
No pictures on the screen	Receiver in Standby mode; Scart not connected tightly to video output of television; incorrect channel or video 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 "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,

7 segment LED display,
auto and manual scan facility,
channel organizing (programmable),
SCARTS & RCA output,
low power consumption

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 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: SMPS
Input voltage: AC 100-240V ~, 50/60 Hz
Fuse rating: 250 V/T2 A

Tuner
Freq. Range: 950 ~ 2150 MHz
Input signal level: -65 ~ -25 dBm
Channel selection: PLL frequency synthesizer
Input impedance: 75 Ω 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

TECHNICAL SPECIFICATIONS

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
SPDIF Digital Audio Output	
S-VHS	YC p_p 1Volt (±10%)

RF modulator

Modulator output:	CH 21_69 (preset to CH 21)
Video type:	PAL B/G, K, I (preset to PAL B/G)
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:	RS232C, Max. 115.2 kB
Connector type:	9 pin D-type female

Embedded descrambler

VIACCESS conditional access system.

Smart card

2 slots, embedded Viaccess: interface & descramble

Common Interface

(For models DSR 9500A CI, DSR 9500A VIA CI)

Module Type:	PCMCIA TYPE II x 2
Available CAM:	VIACCESS, IRDETO, NAGRAVISION, CRYPTOWORKS, CONAX, SECA, Etc.