

DSR 3800, DSR 3700

Instructions for use



DSR 3800, DSR 3700



Warning! Important Safety Instructions



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

APPLICABLE FOR USA, CANADA OR WHERE APPROVED FOR THE USAGE

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT. INSERT FULLY.

ATTENTION: POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.



The lightning flash with arrowhead symbol, with an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

Thank You for Choosing Samsung

Thank you for choosing Samsung! Your new Samsung Digital satellite receiver represents the latest in IRD technology. We designed it with easy-to-use on-screen menus and closed captioning capabilities, making it one of the best products in its class. We are proud to offer you a product that will provide convenient, dependable service and enjoyment for years to come.

Warning! Important Safety Instructions

Always be careful when using your product. To reduce the risk of fire, electrical shock, and other injuries, keep these safety precautions in mind when installing, using, and maintaining your machine.

- Read all safety and operating instructions before operating your product.
- Keep the safety and operating instructions for future reference.
- Heed all warnings on the product receiver and in the operating instructions.
- Follow all operating and use instructions.
- Unplug the product from the wall outlet before cleaning. Use a damp cloth; do not use liquid or aerosol cleaners.
- Never add any attachments and/or equipment without approval of the manufacturer. Such additions can increase the risk of fire, electric shock, or other personal injury.
- Do not use the product where contact with or immersion in water is a possibility, such as near bath tubs, sinks, washing machines, swimming pools, etc.
- Do not place the product on an unstable cart, stand, tripod, bracket, or table where it can fall. A falling product can cause serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Follow the manufacturer's instructions when mounting the unit, and use a mounting accessory recommended by the manufacturer. Move the product and cart with care. Quick stops, excessive force, and uneven surfaces can make the unit and cart unsteady and likely to overturn.
- Provide ventilation for the product. The unit is designed with slots in the cabinet for ventilation to protect it from overheating. Do not block these openings with any object, and do not place the product on a bed, sofa, rug, or other similar surface. Do not place it near a radiator or heat register. If you place the product on a rack or bookcase, ensure that there is adequate ventilation and that you've followed the manufacturer's instructions for mounting.
- Operate your product only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your appliance dealer or local power company.



Warning! Important Safety Instructions

- Use only a grounded or polarized outlet. For your safety, this product is equipped with a polarized alternating current line plug having one blade wider than the other. This plug will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still does not fit, contact your electrician to replace your outlet.
- Protect the power cord. Power supply cords should be routed so that they won't be walked on or pinched by objects placed on or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.
- Unplug the product from the wall outlet and disconnect the antenna or cable system during a lightning storm or when left unattended and unused for long periods of time. This will prevent damage to the unit due to lightning and power-line surges.
- Avoid overhead power lines. An outside antenna system should not be placed in the vicinity of overhead power lines or other electric light or power circuits or where it can fall into such power lines or circuits. When installing an outside antenna system, be extremely careful to keep from touching the power lines or circuits. Contact with such lines can be fatal.
- Do not overload the wall outlet or extension cords. Overloading can result in fire or electric shock.
- Do not insert anything through the openings in the unit, where they can touch dangerous voltage points or damage parts. Never spill liquid of any kind on the product.
- Do not attempt to service the product yourself. Refer all servicing to qualified service personnel. Unplug the unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - when the power-supply cord or plug is damaged
 - if liquid has been spilled on the unit or if objects have fallen into the unit
 - if the product has been exposed to rain or water
 - if the product does not operate normally by following the operating instructions
 - if the product has been dropped or the cabinet has been damaged
 - when the product exhibits a distinct change in performance
- If you make adjustments yourself, adjust only those controls that are covered by the operating instructions. Adjusting other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal.
- When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitutions may result in additional damage to the unit.
- Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in a safe operating condition.

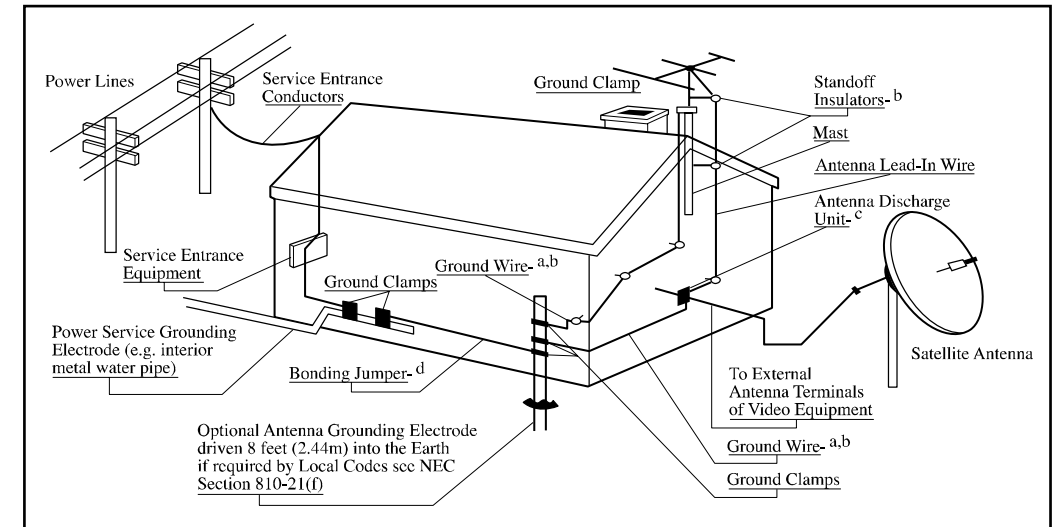
This device complies with part 15 of the FCC Rules.
Operation is subject to the following Two Conditions;

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Outdoor Antenna Grounding

Be sure the antenna is properly grounded to provide some protection against voltage surges and built-up static charges.

Example of Antenna Grounding as per National Electrical Code



Note to CATV System Installer

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Note: NEC 810-21 (i)

A bonding jumper not smaller than No. 6 AWG copper or equivalent shall be connected between radio and television equipment grounding electrode and the power grounding electrode system at the building or structure served where separate electrodes are used.

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GENERAL FEATURES

1. USER SECTION

- ▶ 4000 PROGRAMMABLE CHANNELS
- ▶ SOFTWARE DOWNLOAD VIA SATELLITE & PC
- ▶ ADVANCED ELECTRONIC PROGRAM GUIDE
- ▶ DiSEqC 1.2 SUPPORTED
- ▶ FULL FUNCTION INFRARED REMOTE CONTROL UNIT
- ▶ 7 SEGMENT LED DISPLAY
- ▶ AUTO AND MANUAL SCAN FACILITY
- ▶ CHANNEL ORGANIZING(PROGRAMMABLE)
- ▶ RCA OUTPUT
- ▶ LOW POWER CONSUMPTION
- ▶ 9 FAVORITE LISTS
- ▶ AUTO UPDATED EPG

2. TUNER SECTION

- ▶ 950~2150 MHz WIDE BAND TUNER
- ▶ IF OUTPUT WITH DC PASS LOOP FOR ANALOG RECEIVER
- ▶ 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)
- ▶ MODULATOR OUTPUT

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

CONNECTING YOUR "DSR 3800, DSR 3700"

1. LOCATION OF THE RECEIVER

Your DSR 3800, DSR 3700 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 3800, DSR 3700.

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 three methods; RF cable, or RCA cable.

Connect the RF cable to the terminal marked "AV OUT" at the rear panel of DSR 3800, DSR 3700 and its other end to the TV RF input socket.

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

4. CONNECTING YOUR ANALOG RECEIVER

To facilitate the user using analog receiver to view analog channels, DSR 3800, DSR 3700 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 3800, DSR 3700 in standby, you will be able to tune and view analog channels from your analog receiver.

5. CONNECTING YOUR VCR

To connect a VCR, the DSR 3800, DSR 3700 has been provided with RCA at the rear marked "AV OUT".

Using a RCA connector, the VCR can be connected to the receiver.

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.

8. INSERTING COMMON INTERFACE CAM AND SMARTCARD

The DSR 3800 supports Common Interface CAMs under DVB specification.

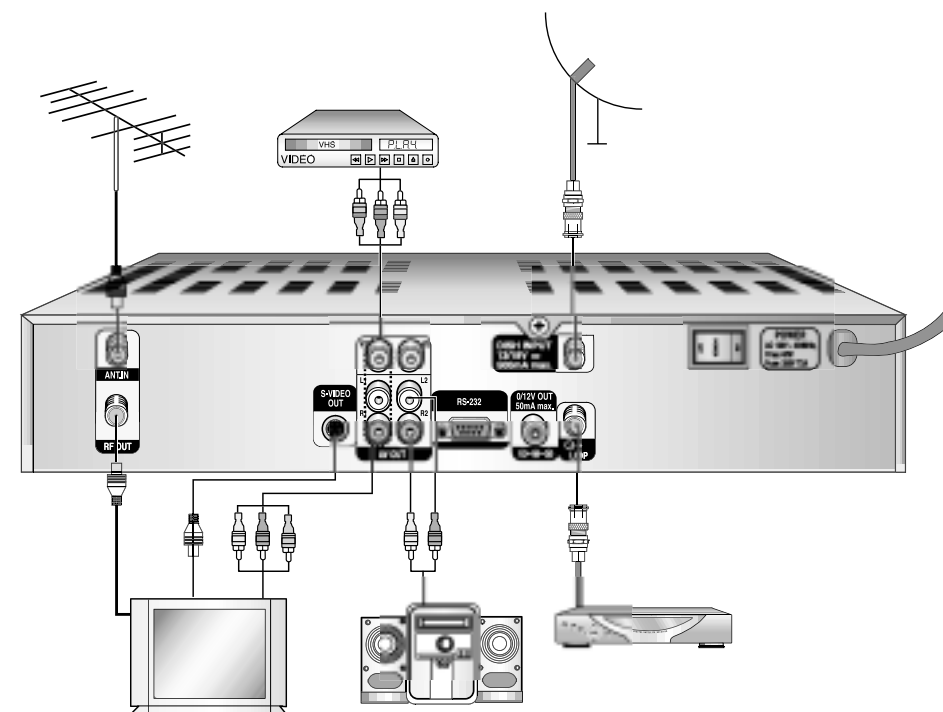
The CI CAMs include a built-in smart card reader.

- 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:

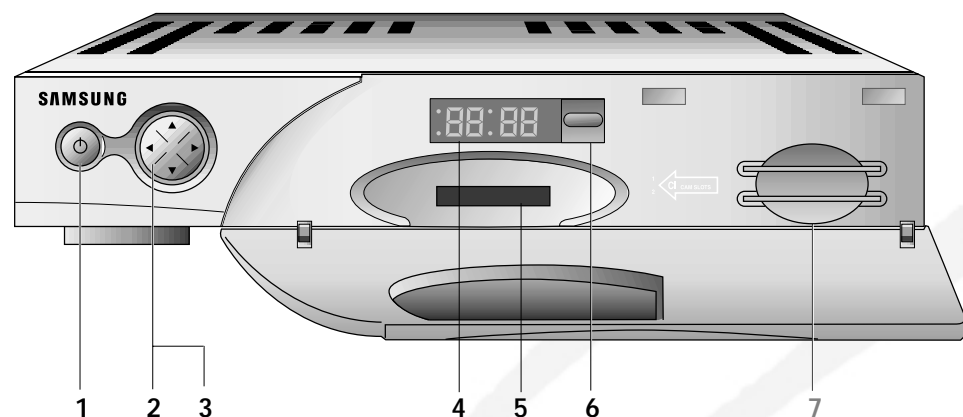
IRDETO, CONAX, CRYPTOWORKS, VIACCESS, NAGRAVISION, SECA, Etc.




Connecting Figure



DESCRIPTION

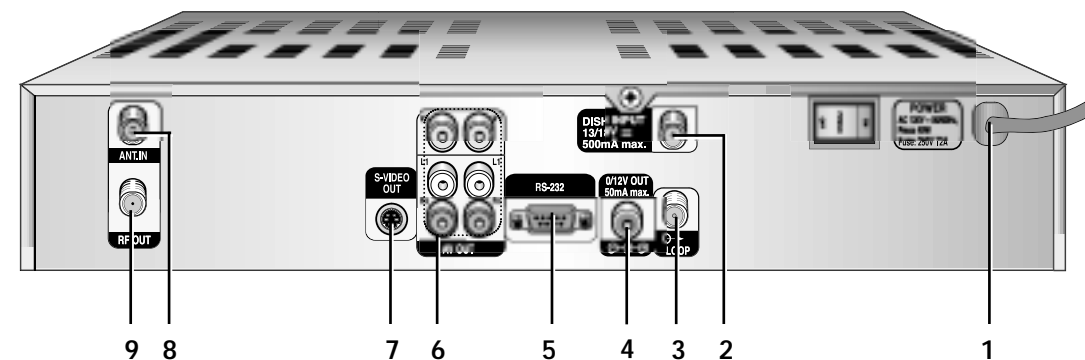
Front Panel



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.(DSR 3800 only)
6. **Infrared Sensor** This is to receive the IR commands from the Remote Control Unit.
7. **Not Used**

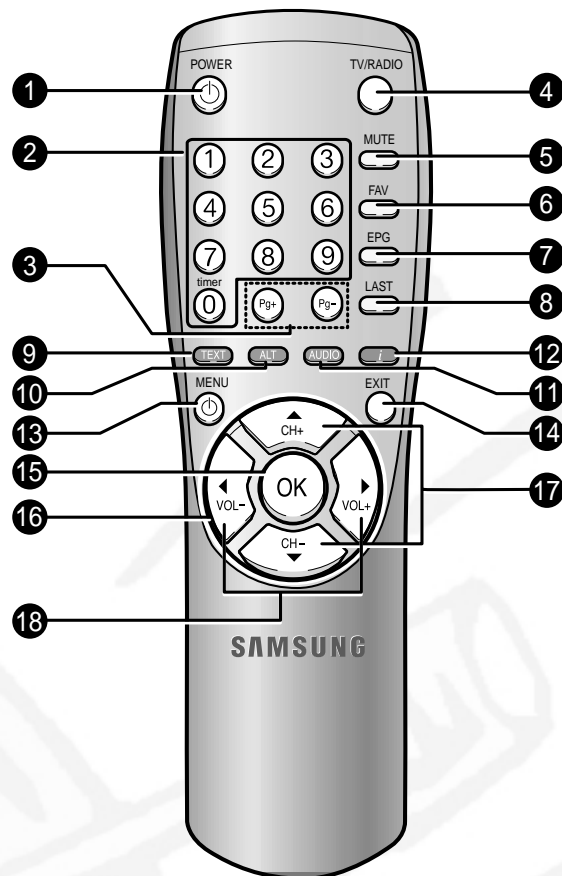
DESCRIPTION

Rear Panel



1. **AC MAINS** This is to plug in the AC mains power cord. The input AC voltage range is 120V, 60Hz supply.
2. **DISH INPUT** 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. **0/12V OUT** This is used to connect to an external LNB switch.
5. **RS 232 DATA PORT** This is used to connect your receiver to a computer for reading and loading data information. (only for service)
6. **AV OUT** These RCA connectors are used to connect any external video and audio.
7. **S-VIDEO OUT** This is used to connect STB to your TV by using S-VHS cable.
8. **ANT.IN** This is used to connect your local RF channels to your TV through Loop.
9. **RF OUT** This is used to connect to your TV via RF cable. (Preset to channel 3)

Remote Control Unit



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

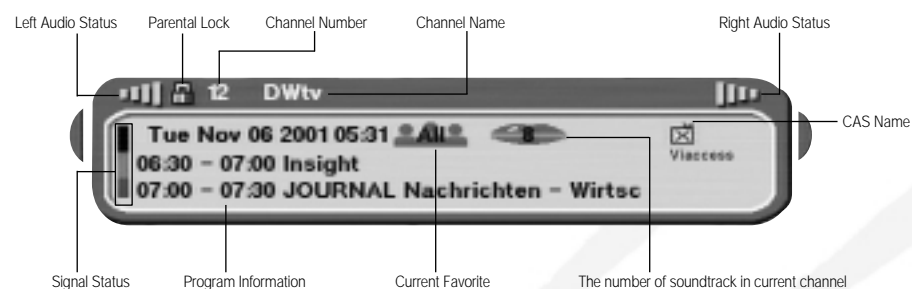
1. **POWER** (⏻) This is used to switch the receiver ON/STANDBY mode.
2. **0-9 Numerical keys** (0~9) These keys are to enter numeric values and to select the channel directly by entering its number.
3. **Pg+/Pg-** (Pg+, Pg-) These keys are used to move up or down pages the menu.
4. **TV/RADIO** This 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 programme 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-** (CH+, CH-) These keys are used to change channels.
18. **VOL+/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 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 behind the channel name symbolises scrambled channel, and the icon behind the channel name symbolises lock channel.

- Select the channel by pressing / , / .
- 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**



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.

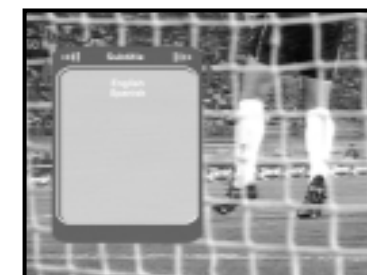
7. Subtitle

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

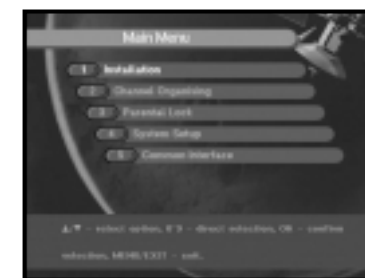
After installing your antenna system and DSR 3800, DSR 3700 with appropriate connectors.

- 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!



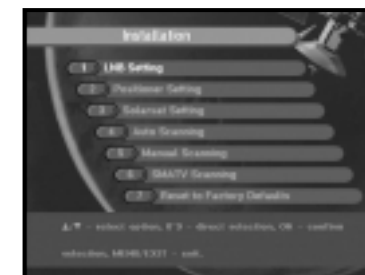
Before you begin with the "Installation" menu, you should check in the 4th menu "System Setup" whether all the information there is applicable for you.

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.

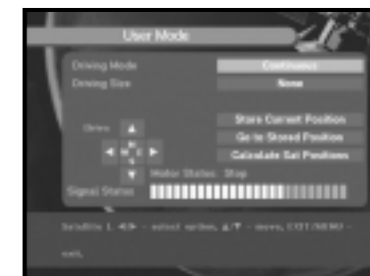
"Installer" mode : Complete control of the positioner's full functions recommended for installers and professional users.

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 / 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.

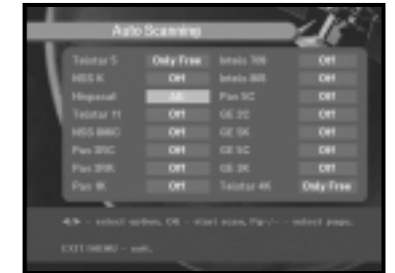
- Off :** No Scan
- All :** Scan all the channels
- Only Free :** Scan free channels

- 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 3800, DSR 3700 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 **OK** key to start the scan process.

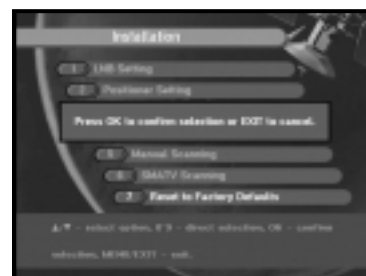
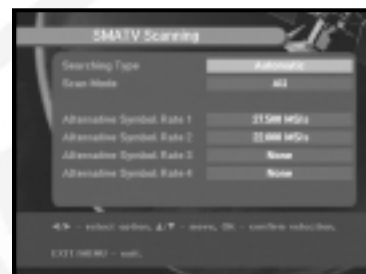
1.6 SMATV Scanning

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.

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.

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.

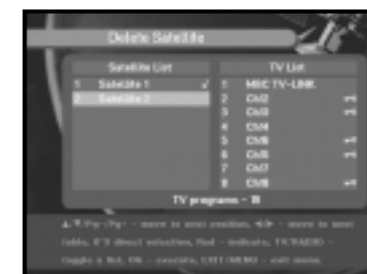
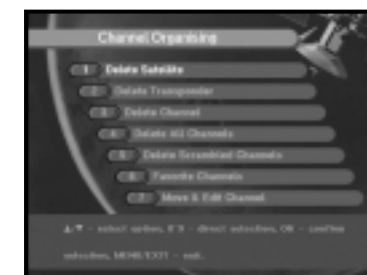
- Enter the **PIN** code.

If you have not entered your own **PIN** code **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.

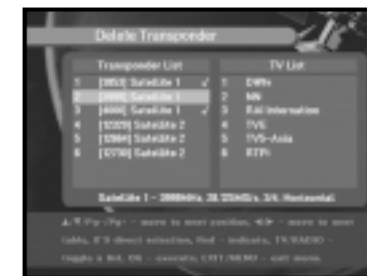
Note : This feature doesn't delete satellite itself but deletes the list of channels registered for satellite.



2.2 Delete Transponder

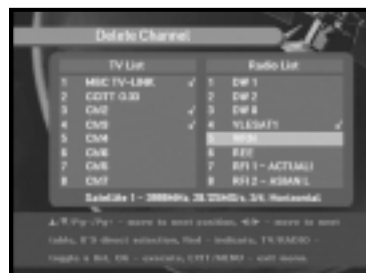
- Select the desired transponder list you want to delete by pressing **Red (i)** key.
- Press **OK** key for confirmation.

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



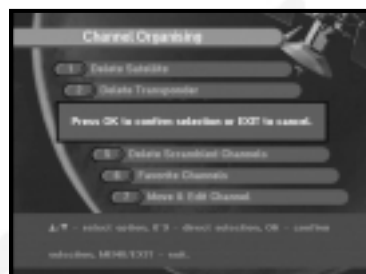
2.3 Delete Channel

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



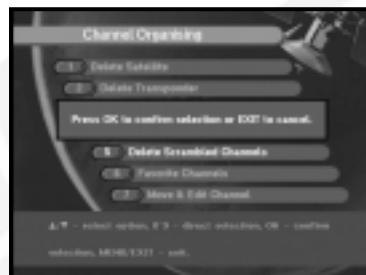
2.4 Delete All Channels

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

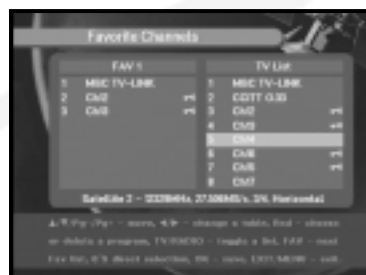
You can change TV list or Radio list by **TV/RADIO** key and change favorite list by **FAV** key. This enables you to create the 9 favorite TV and Radio list.

- 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.

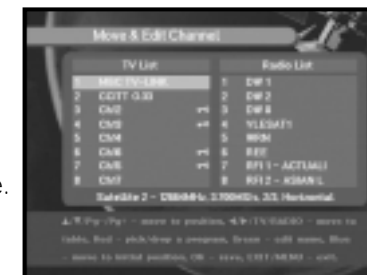
Left List : Deletes a channel by pressing the **Red (i)** key.

- 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**, **Up/Down** 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** keys, and then press **OK** 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 3800, DSR 3700 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.

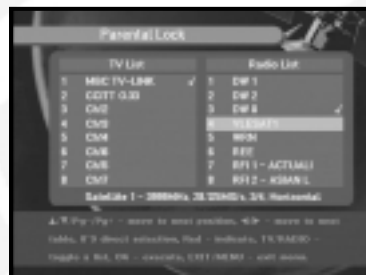
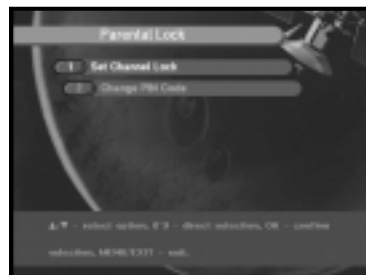
3.1 Set Channel Lock

- 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.

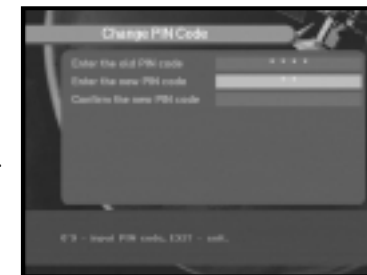
To confirm, you need to enter the new PIN code again.

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

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

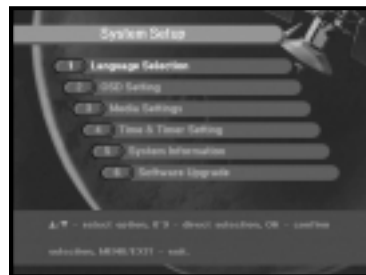
Note : If you forget the PIN Code, please refer to the following instruction;

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



4. System Setup

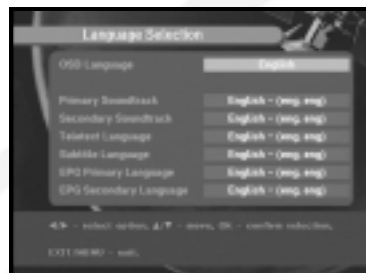
This option enables you to change the factory preset system settings as per your requirements.



4.1. Language Selection

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

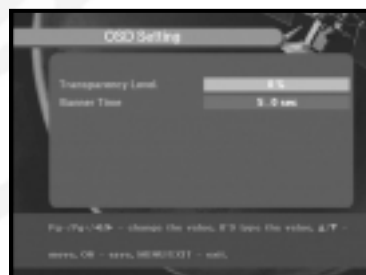
- To accommodate user from different regions speaking different languages.
- To select the desired language menu, press \leftarrow/\rightarrow keys to change language and press OK .
- The OSD Language, Soundtrack, Teletext, Subtitle, or EPG will vary according to the selected language.



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

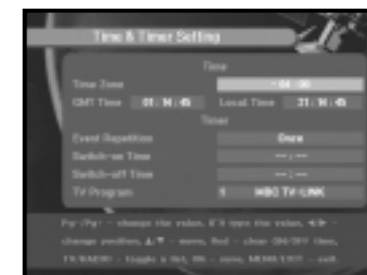
You can set the various media settings you want. Place the cursor on this sub menu and press OK .

- Select the TV system : NTSC or PAL.
- 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 RF Channel.



4.4 Time & Timer Setting

- Place the cursor on this sub menu and press OK .
- Press the $\text{P.M.}/\text{A.M.}$, \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

This service is not available yet.



5. Common Interface (DSR3800 Only)

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.

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), 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

sample frequencies, volume control and mute function through Remote Control Unit.

Power supply

Type:
Input voltage:
Fuse rating:

SMPS
AC 120V ~, 60 Hz
250 V/2 A

Tuner

Freq. Range:
Input signal level:
Input impedance:
Connector type:
LNB power control:
DiSEqC:

950 ~ 2150 MHz
-65 ~ -25 dBm
75 Ω unbalanced
F type female
13 V/18 V, 22 KHz tone
1.2 supported

Demodulator

Type:
Symbol rate:
Inner FEC:

QPSK DEMODULATION (DVB-S)
2 ~ 45 Ms/s
Viterbi Convolutional
Coding Rate - 1/2, 2/3, 3/4, 5/6, 7/8
Reed Solomon Coding (204, 188) t, = 8

Outer FEC:

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 480(V) 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 RCA:	VIDEO1 (CVBS), AUDIO R1&L1 X 2
VCR RCA:	VIDEO1 (CVBS), AUDIO R1&L1 X 2

RF modulator

Modulator output:	CH 3 or 4 (preset to CH 3)
Video type:	NTSC
Output level:	66 ± 5 dB μ V
Output connector:	F-Type, IEC 169-24, female
Ant. O/P connector:	F-Type, IEC 169-24, female

Serial data interface

Standard:	RS232C, Max. 115.2 kB
Connector type:	9 pin D-type female

Common Interface (DSR 3800 Only)

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