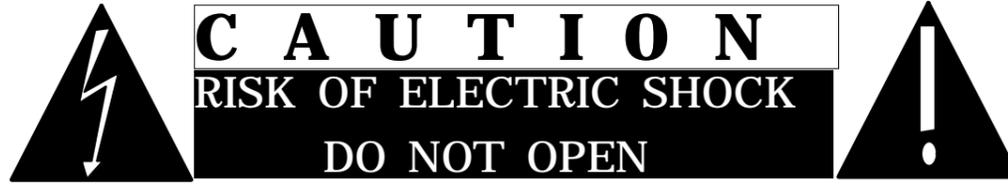




USER MANUAL

MODEL: DSR2700



The lightning flash with arrowhead symbol, within 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 appliance.

WARNING:

To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture. Do not remove cover (or back). No user-serviceable parts inside. Refer servicing to qualified service personnel only.

ATTENTION:

Pour prevenir les chocs electriques ne pas utiliser cette fiche polarisee avec un prolongateur, une prise de courant, sauf si les lames peuvent etre inserees a fond sans en laisser aucune partie a decouvert.

CAUTION:

To prevent electric shock, do not use this (polarized) plug with an extension cord receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

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.

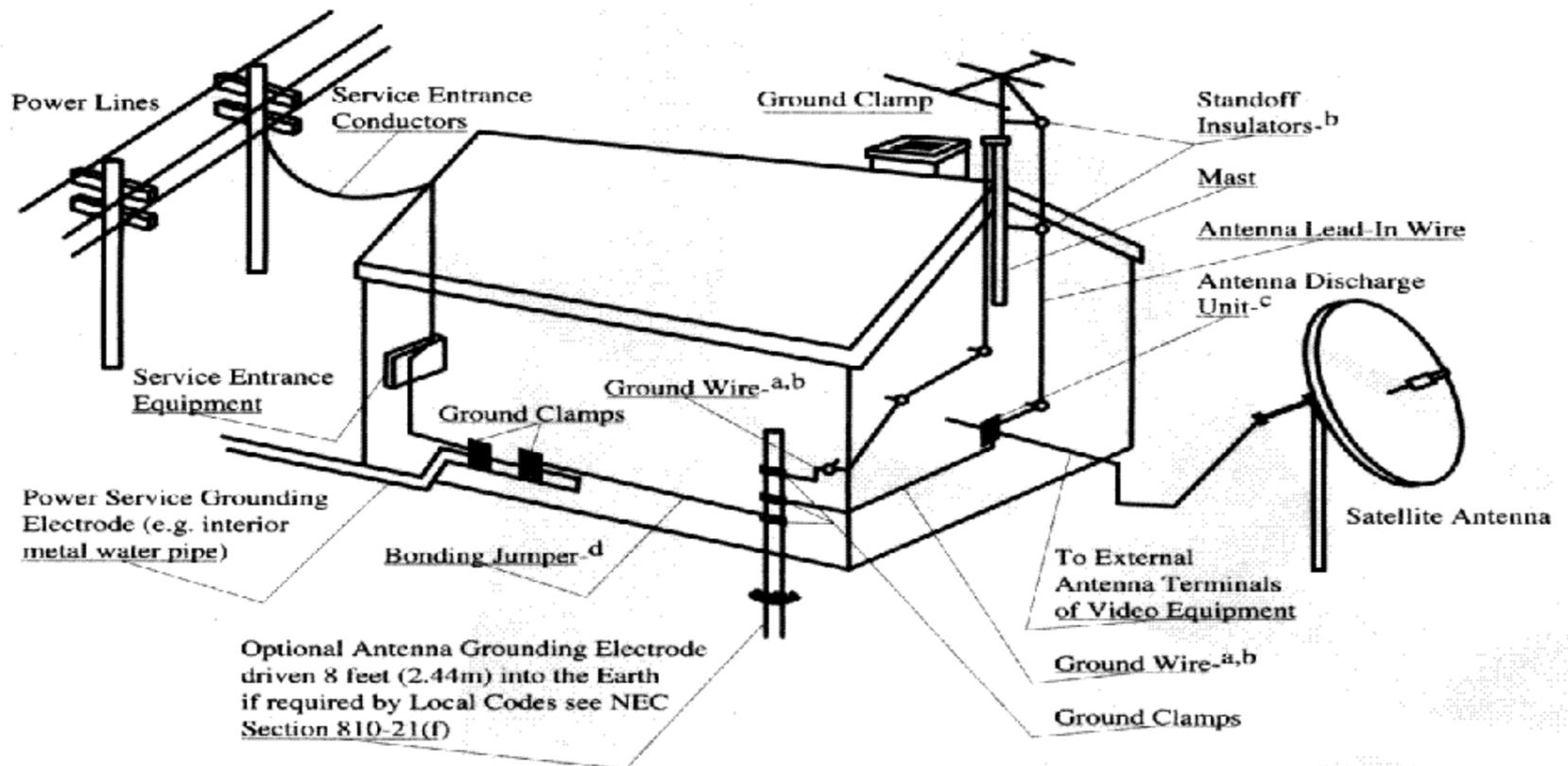
Note : NEC 810-21

A bonding 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.

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



Read Instructions

All the safety and operating instructions should be read before the appliance is operated.

Retain Instructions

The safety and operating instructions should be retained for future reference.

Heed Warning

All warnings on the appliance and in the operating instructions should be adhered to.

Follow Instructions

All operating and user instructions should be followed.

Cleaning

Unplug this video product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use A damp cloth for cleaning the unit.

Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

Water and Moisture

Do not use this video product near water, for example near a bathtub, sink, in a wet basement or near a swimming pool and the like.

Accessories

Do not place this video product on a unstable cart, stand, tripod, bracket or table. This unit may fall, causing serious injury to a child or adult, and a serious damage to the appliance. Use only with a cart, stand, tripod, bracket or table recommended by the manufacturer, or sold with the video product. Any mounting of the appliance should follow the manufacture's instructions, and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating. These opens should not be blocked or covered. The openings should never be blocked by placing the unit on a bed, sofa, rug or other similar surface.

The receiver should never be placed near a heat radiator or in a built-in installation unless adequate ventilation is provided. Allow 4 to 6 inches of open space on the sides and top of your receiver.

Power Source

This unit should be operated only by the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them

Overloading

Do not overload power outlets and extension cords as this can result in a risk of fire or electrical shock.

Grounding or Polarization(North America only)

This video product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other) This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of this polarized plug. Make sure all wiring is clear of obstruction and are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the point where they exist the receiver.

Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electrical shock. Never spill liquid of any kind on the receiver.

Lightning

For added protection for the receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug the unit from the wall outlet and disconnect the interconnecting cable. This will prevent damage to the video product due to lightning and power line surges.

Power Lines

An outside antenna should not be located in the vicinity of overhead power lines or other electrical circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them may be fatal.

Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Damage Requiring Service

Unplug the unit from the wall outlet and refer servicing to qualified service personnel under the following conditions: a) when the power supply cord or plug is damaged, b) if liquid has been spilled, or objects have fallen into the unit, c) if the unit has been exposed to rain or water, d) if the unit does not operate normally by following the operating instructions. Adjust only the controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.

Replacement Parts

When replacement parts are required be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

Safety Check

Upon completion of any service or repair to this receiver, ask the service technician to perform safety checks to determine that the unit is in proper operating conditions.

SECTION 1

- A. What is Digital Statellite Broadcasting?
- B. Unpacking your DSR2700 Receiver
- C. Connecting your DSR2700 Reciver to your system
- D. Setting up your system
- E. Activating your DSR2700 System

SECTION 2

- Using your DSR2700
- Introducing the DSR2700
- Power On/Standby Mbde
- Changing Channels
- Using Channel List
- Highlight and Select
- Using the Menu System
- Selecting Your Preferences
- Selecting an Alternate Language
- Parental Lock
- System Setup & Maintenance

SECTION 3

- Front Panel Keys
- Back Panel
- Remote Control Key Functions
- System Connection Options
- Menu Tree

DSR2700

PURPOSE OF THIS MANUAL:

This manual is intended to give you an overview of setting up your system and to ensure that your viewing and entertainment values are maximized by making your DSR2700 receiver easy to use and understand. Although the DSR2700 system is designed with simplicity of operation but, there may still be instances when questions exist. This manual will provide answers to those questions in the simplest form by following the step by step procedures outlined in the appropriate section of the manual.

A. WHAT is Digital Satellite Broadcasting

Through the use of the latest in digital satellite technology, crystal clear video and digital stereo sound are brought into your home. Your favourite programming selections, the latest in movies and special events can be available on demand at a moments notice.

How is this accomplished?

No matter where the programming originates, whether it is a movie, a sports event, a comedy or a drama, it is sent to one of several satellite uplink stations, located across Europe, where it is then turned into a digital signal and transmitted up to a satellite high above the earth. This signal is then sent back down from the satellite to your antenna and passed to your DSR2700 receiver which converts it back into signals that can be seen on your television screen.

The signal which is sent up to the satellite is a crystal clear digital signal. Unlike a cabled or wired system, there is nothing between the satellite uplink center and your home system that can cause interference or distortion of the sound or picture quality. The result is laser like pictures and the finest CD quality sound available in your own home with the push of a button on your DSR2700 remote control.

B. UNPACKING THE RECEIVER

Includes the following items:

DSR2700 receiver
DSR2700 users' manual
Remote control Unit
Batteries

If any of these components are missing from the carton or any the pieces damaged, do not proceed with the assembly. Immediately contact the retailer where you purchased. They will take the proper steps to supply the missing components or ensure the damaged parts are replaced.

DSR2700

C. CONNECTING YOUR DSR2700 RECEIVER:

After the antenna as been properly installed and the coax cable has been run, it is time to connect the receiver.

(j) Location for your receiver

Your receiver must be placed in an a position that can easily be reached by the coaxial cable from the antenna.

The receiver must be located in an area where there is proper ventilation. Do not stack other electronic components on top of the receiver or put it in a completely enclosed cabinet as this may restrict the flow of air around the receiver which could cause overheating.

The receiver should only placed in a location where it will not be in the direct sunlight or subject to excess moisture or abuse by rough handling or household pets.

(k) Connecting the coaxial cable

Make certain the receiver is not plugged into the wall outlet.

After you ensure there is some slack in the antenna cable, connect the cable to the TV ANT IN terminal on the back of the receiver. Do not over tighten. All cable connectors should only be finger tight. Never use a wrench of any kind on a coaxial cable connector.

(l) Connecting DSR2700 to your television set

Connect a coaxial cable, with the DSR2700 to the terminal on the back of the receiver marked TO TV. Connect the other end to the input terminal on the rear of your television. The terminal may be marked "From Antenna" or "Antenna In." (Information on the inputs of your television set can be located in your TV instruction manual.) Or directly connect a RCA cable marked "TV" on the back of the receiver to your TV set.

(m) Connecting your receiver to a Hi-Fi.

If you have Hi-Fi stereo you may wish to connect the receiver using L & R audio input RCA connectors for better audio quality.

To do this plug the audio two way patch cord(RCA cable), into the two terminals on the back of the DSR2700 marked **AUDIO R** and **AUDIO L** and plug the other ends into the corresponding terminals on the rear of a Hi-FI Stereo set.

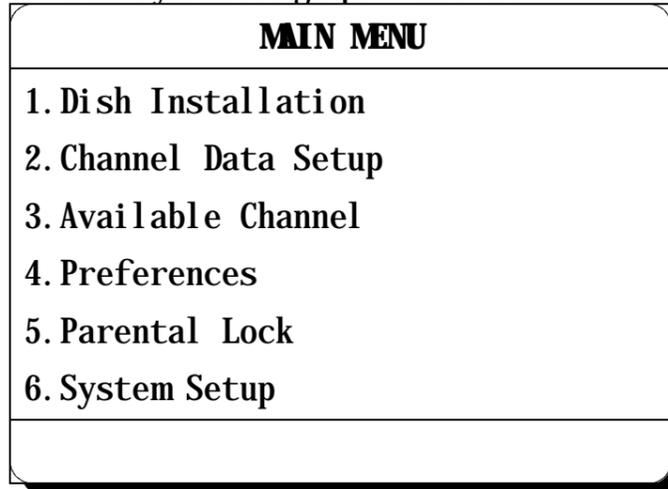
(n) Connecting analog receiver to your DSR2700

Connect a coaxial cable, with the DSR2700 to the terminal on the back of the receiver marked AUX. Connect the other end to the output terminal on the rear of your analog receiver. The terminal may be marked TO TV" or TO VCR. ±

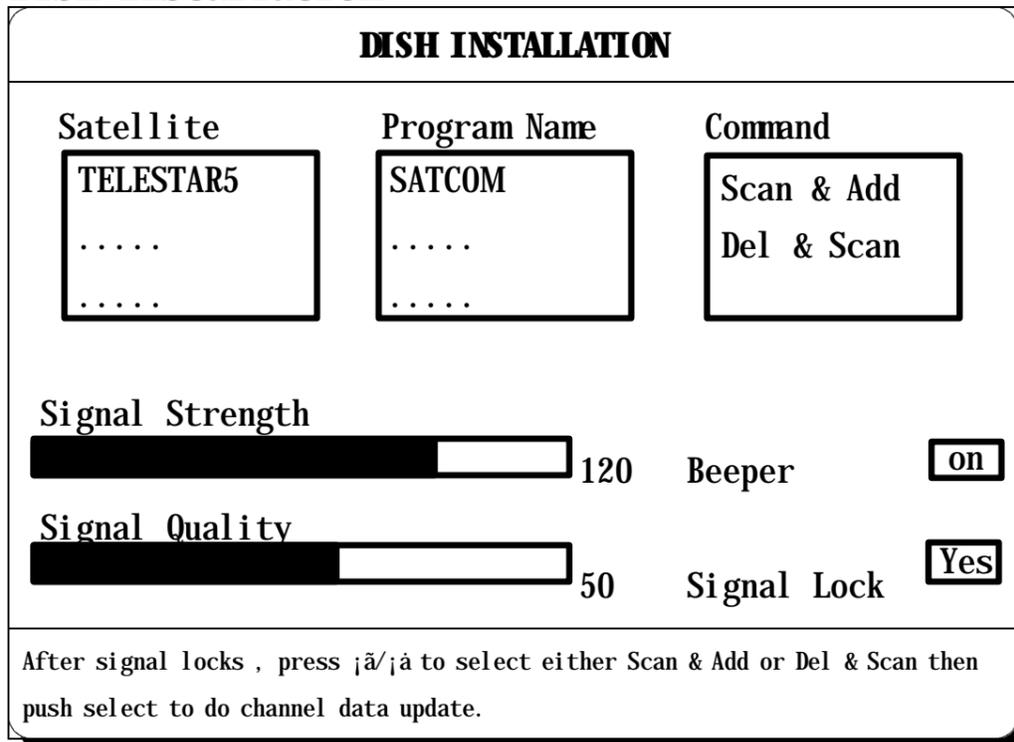
Operating

Min menu

Press MENU key to bring up MAIN MENU



Dish Installation



Press 1 "Dish Installation"

This mode have three fuctions as following.

Scan & Add -- to Download Channel Data and to preserve existing Channel Data.
Del & Scan -- to Download Channel Data and to erase previously existing Channel Data.

Signal Strength - to Display the Signal Strength

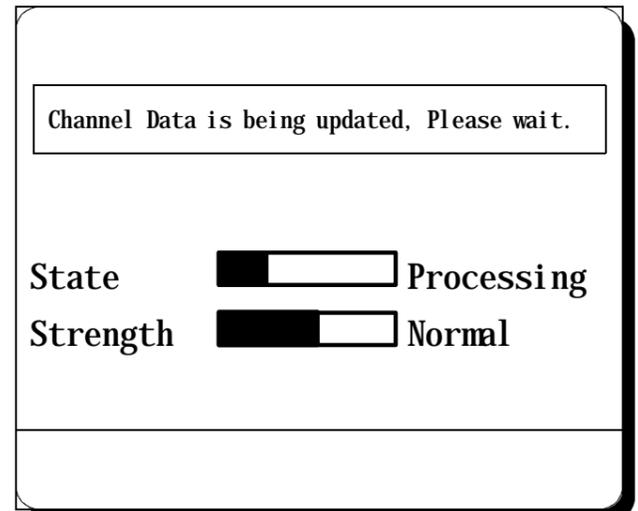
This function is very helpful to have an assistant indoors to relay the information provided on the Dish Installation screen to the person adjusting the antenna, or to adjust the antenna using a small portable TV and the receiver outdoors near the antenna location. Aim the antenna as following;

1. After your receiver is turned on, if the antenna has not tuned to the satellite, it will be necessary to go to Dish Installation menu.
2. Specify the satellite name to aim from the Dish Installation menu.
3. Loosen the antenna. While watching the signal strenght bar and listening for an audio tone, carefully rotate your antenna.
4. You will hear rapid BEEPs, which indicates your system is looking for a signal.
5. When the BEEP sounds turns to longer interval it means you are getting closer to the signal.

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6. And when you at last find the signal the Signal quality go higher and the Signal Lock will indicate "Yes".

When the Signal Lock confirms "Yes" and press 'SELECT' key channel data will be updated. Wait until "Process End" Menu appears Press "CLEAR" button to view Channel.



The time taken to complete varies from satellite to satellite according to data received.

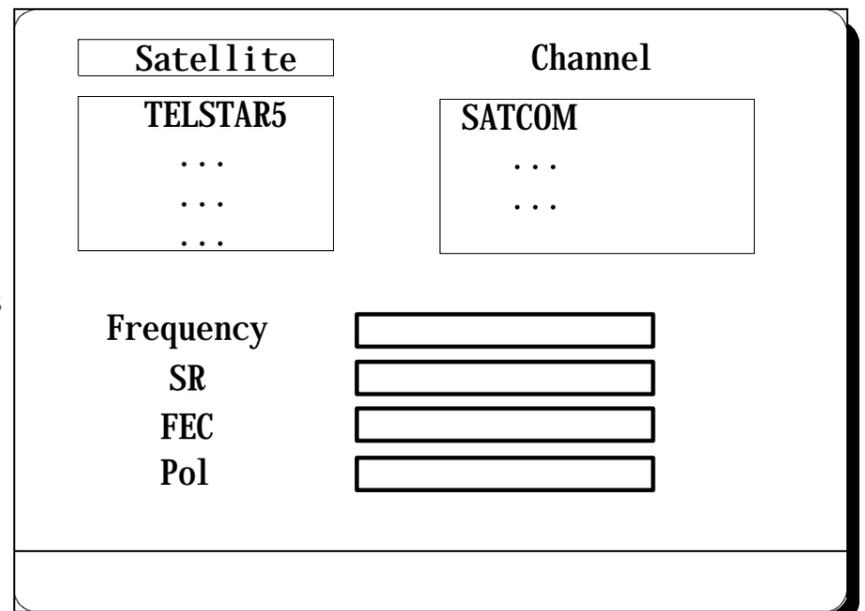
Please allow up to several minutes for the receiver to complete the scan.

Please note the auto scan facility may not capture all transmissions on all satellites.

Channel Data Setup

Press 2 bring up Channel Data setup.

This mode is to add additional programs of transponders that is not recognised.



Available Channel

Press MENU to bring up MAIN MENU Press 3 to view Available Channel list.

On the LEFT you will see all available Video Channels and on the right Audio Channels.

You can find additional available programs from a satellite magazine or your program provider.

TV			Radio		
001	ARD	F	001	ARD Ra	F
002		F	002		F
003		F	003		F
004		F	004		F
005		s	005		s
006		F	006		F
007		F	007		F

Use the 'ALT' key from the Remote Control Unit to toggle cursor from TV to Radio.

Put cursor to desired Channel and press SELECT for direct jump to Channel directly.

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Preference

Channel Organize is to change the order of the channels for the user as desired, or to delete a channel. To delete a channel just put the cursor on the channel to delete and press 'SELECT'.

Preferences

1. Channel Organize
2. Select Power Up Channel

In the **Preferences** menu, you may select how you want the receiver to wake up when the **POWER** key is switched to ON.

- the last viewed channel
- Selectable channel

Parental Lock

The Parental Lock feature is used to set viewing restrictions, and prevent unauthorized access to your DSR2700. Personal Identification numbers, (P. I. N. s,) are used establish by any 4-digit number.

Parental Lock

1. Set Channel Lock
2. Change PIN code

The Master P.I.N. user has unlimited access to all programming and control the program by channel features.

- Programme viewing by channel (parental lock)

Personal Identification Numbers (P. I. N.)

The preset factory Master P.I.N. is "0000". if you change the Master P.I.N. - remember it - or better than that write it down and keep it in a safe place! if you happen to forget it, contact your Customer Service Center.

Change PIN Code

Enter Old PIN Code

Enter New PIN Code

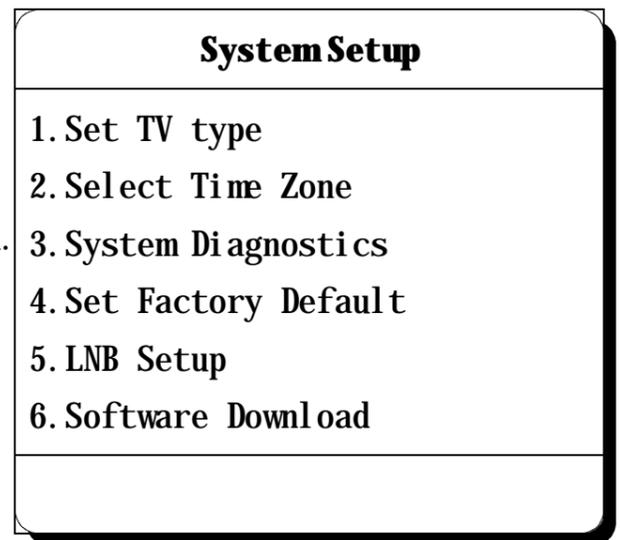
Confirm New PIN Code

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1. Press the MENU key to bring up the Main Menu.
2. Highlight and select Parental Lock Menu. (or press 5)
3. Enter the Master P.I.N. using the number keys to access this menu.
4. Select 2. to Change PIN Code.
5. Use the 0-9 number keys to enter a new P.I.N. number, followed by the SELECT key.
6. Press CLEAR to exit the menu.
7. Enter the new Master P.I.N. to confirm changes, as requested.

System Setup

1. Turn your system on,
2. Press "MENU" from remote to invoke Main Menu.
3. Press 6 bring up to 'System Setup'
This mode has 6 functions

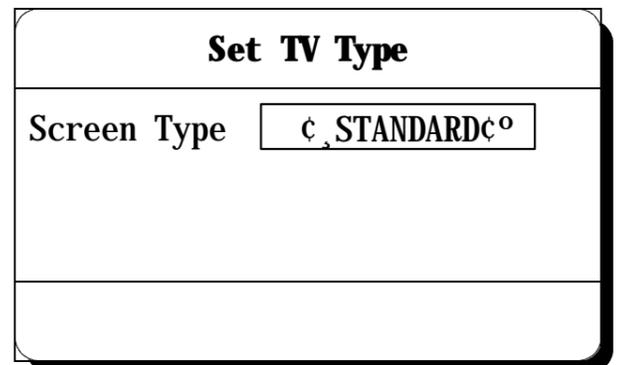


Set TV Type

The receiver comes with Standard TV pre-selected. Change this only if you have a wide screen TV. Improper selection may distort the picture. To change selection, do the following:

Press 1 to bring up Set TV Type

Press \leftarrow / \rightarrow keys to change screen type.



Select Time Zone

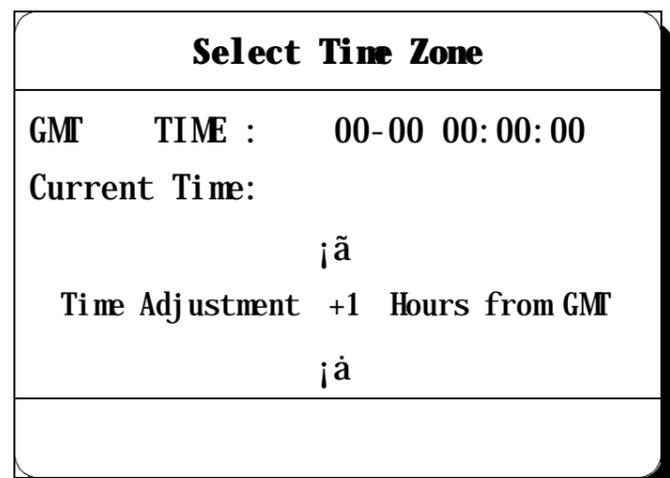
Press 2 to bring up Set Local Time in the Viewer Setup

GMT is pre-set. If your system is located in a different time zone, highlight your selection using the \uparrow or \downarrow keys, then press **SELECT** Daylight Saving Time During

Summer is pre-set. If you do not change to

Daylight Saving Time during the summer, press select again and highlight your selection using the \uparrow or \downarrow keys, then press **SELECT**.

Should you require further installation assistance, please contact the nearest DSR2700 Dealer or call XXX-XXX-XXXX.



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System Diagnostics

System Diagnostics	
CA Module:	N/A
Phone connection:	N/A
Software version:	V1.00 -- -- -- -- --:--:--

The Satellite receiver will display N/A(Not Available) related to Conditional Access.

Current Software version and the latest updated date/time will display.

Set Factory Default

Set factory Default will initialize the receiver to factory preset parameters. All the information of the satellite and transponder information added by the user will be initialized.

System Setup	
1. Set TV type	
2. Select Time Zone	
3. S	Please enter PIN Code <input type="text"/>
4. S	
5. LNB setup	
6. Software Download	

LNB Setup

LNB Frequency : To edit local frequency.

LNB POWER : To turn on/off the LNB POWER provide to LNB.

LNB SETUP	
LNB Frequency	<input type="text" value="10750"/>
LNB POWER	<input type="text" value="on"/>

DSR2700

Software Download

When Frequency and SR parameters display '*****' this means that the factory default value has been applied.

Software Download	
Frequency	*****
SR	** . *****
FEC	AUTO
Pol	Hor
PID	0000
Table ID	000

This feature is to upgrade the receivers system software.

1. Press 6. from 'System Setup' menu.
2. Press download to upgrade software version. (The current displayed parameters are the factory default values. The default values will always be saved even if the user might edit it or forget it, Just turn the receiver off and back on to reload factory default values)
3. If the software download parameters change select Edit, modify the parameters and then download.

TIMER LIST

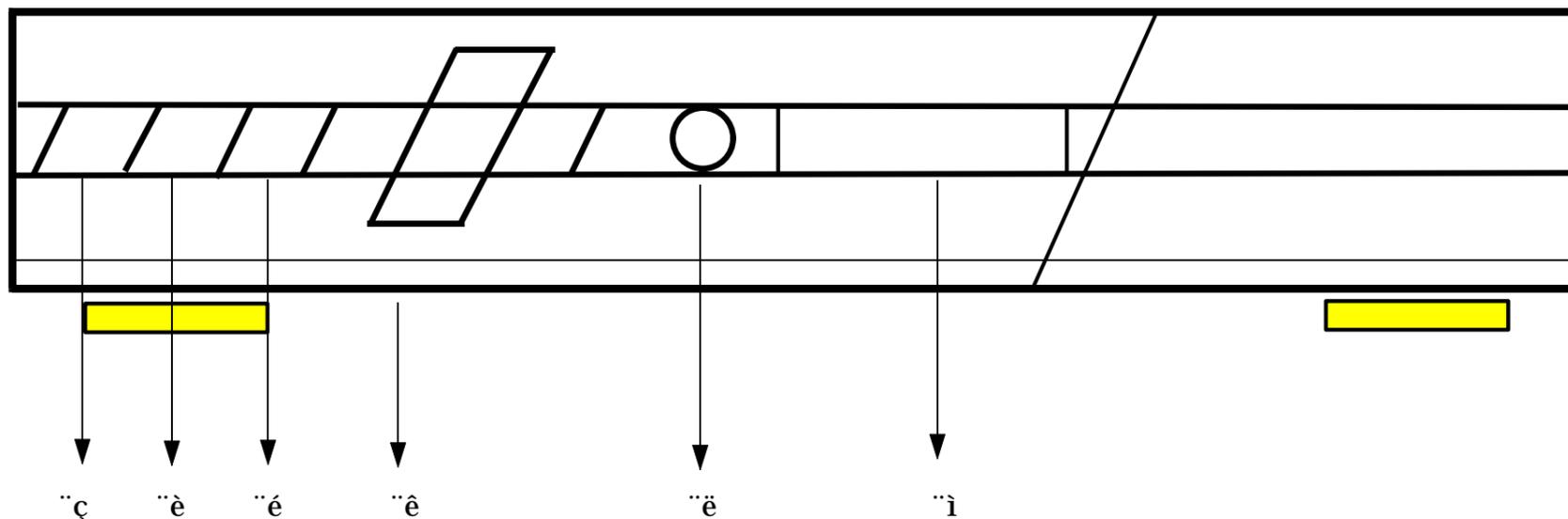
TIMER LIST						
Timer	Status	Day	Hour	Mn	Dur	Channel
1	Off	Sun	00	00	001	001 DW-tv
2	Off				001	002
3	Off	Sun	00	00	001	003
4	Off	Sun	00	00	001	004
5	Off	Sun	00	00	001	005
		Sun	00	00	001	006

System supports 15 Timers.

1. To view current programmed timer status press 'Auto'
2. To program timer press 'Guide' and then 'Auto' while viewing channel.
3. Press \uparrow/\downarrow to change timer, press 'VIEW' to move item window and use \leftarrow/\rightarrow keys to change value.
4. Legend
 - Timer : Timer events(up to 15 events are available)
 - Status : To turn timer function on or off.
 - Day : To set day (to set a date or can set it to daily)
 - Hour/Mn : Is to set the starting time.
 - Dur : To To set the duration time
 - Channel : To set the channel for the timer.

DSR2700

Front Panel



The Front Panel Menu provides access to most features, using the "highlight and select" method using the \uparrow/\downarrow and SELECT buttons. Press the FUNCTION key to bring up the Front Panel Main Menu.

\square POWER

Turns the receiver power on or places the receiver in Standby Mode. When the power is restored it will return to the last watched channel or other preference set in Power Up Channel menu.

\circ CLEAR

Used to remove on-screen display, exit from Menu while **saving changed parameters** and return to normal programme viewing.

\square MENU

Used to display Front Panel Menu for access to volume control, Programme Guide or Menu System

\circ SELECT, \uparrow and \downarrow , \square and \square

SELECT KEY:

Used to select highlighted programmes in the Programme Guide and highlighted selections on menu screens.

\uparrow and \downarrow :

Used to change channels, move highlighted area in the Programme Guide and Menu System and enter Passwords when required.

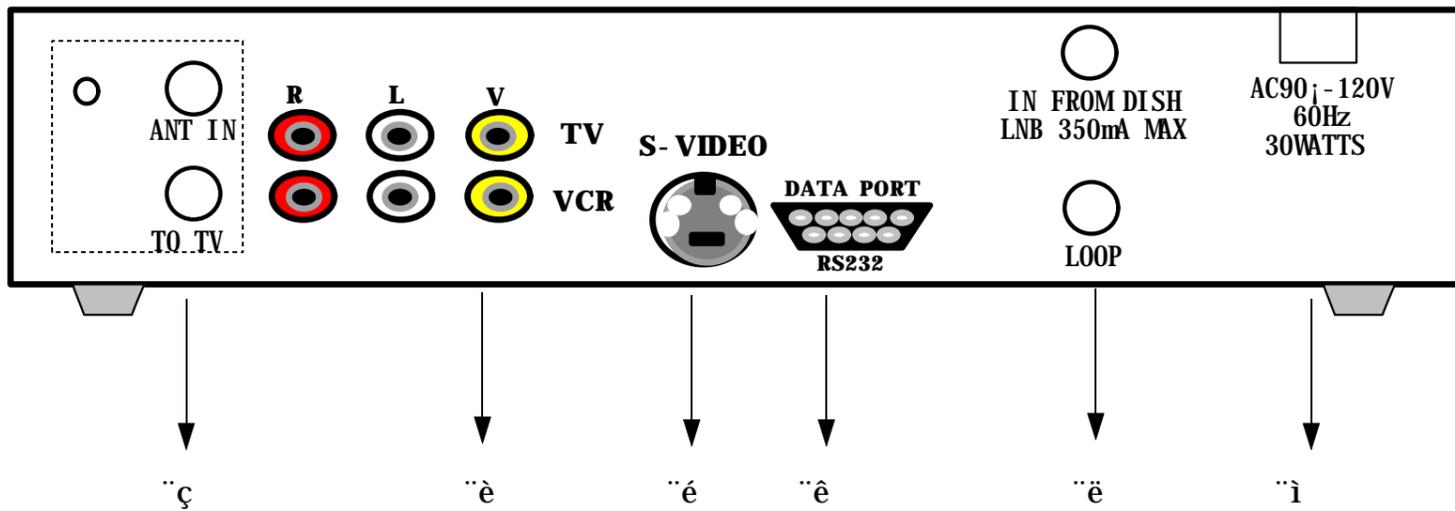
\square and \square : Used to control volume level while programme viewing and to move forward and back through the menu screens.

\circ Infra Red Sensor

\square 4digit 7-segment LED Display

DSR2700

Rear Panel



☐ TV ANT IN, TO TV

TV ANT IN:

Used to connect an off-air television antenna or cable to your DSR2700 Television system

TO TV:

Used to connect your receiver to your the UHF input on your television using coaxial cable.

● VIDEO & AUDIO R(right) and AUDIO L (left)

Used to connect to TV & VCR

● S-VIDEO

Super VHS output for high quality picture.

● RS232

Used to connect your receiver to your computer.

● IN FROM DISH, LOOP

IN FROM DISH:

Used to connect the coaxial cable from your satellite dish.

LOOP:

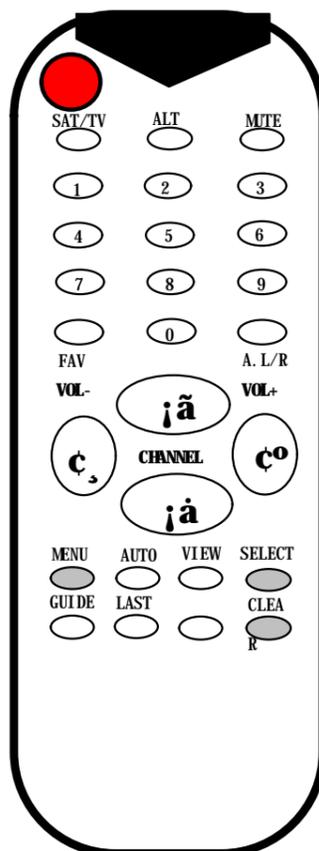
External output connector for additional Set-Top-Box

☐ AC 90 ~ 120V 60Hz

Power cord

DSR2700

Remote Control Unit



POWER KEY

Used to switch receiver between Power On/Standby Mode.

MUTE KEY

Used to toggle between normal and muted audio.

SAT/TV KEY

Used to switch between DTH TV system and local/cable TV broadcasts.

0 - 9 KEYS

Used to enter channel and P. I. N. numbers. They are also used to select menu items.

FAV KEY

Used to switch between favorite program lists.

A. L/R

Used to switch audio left and right.

MENU KEY

Used to bring up the Main Menu screen.

iã and ã KEYS (multi-function)

Used to surf channels in the current Channel List while programme viewing and highlight selections in the Programme Guide and Menu System

ç, and ç° KEYS (multi-function)

Used to control the volume level while programme viewing and page-scroll in the Menu System

SELECT

Used to select highlighted selection in the Menu System

CLEAR KEY (dual-function)

Used to save settings and remove on-screen display, exit Menu System and return to normal programme viewing.

DSR2700**ALT KEY**

Used to select Alternate Language Audio.
Use to move item window(move the cursor)

AUTO KEY(dual-function)

When pressed in Electronic Program Guide screen is viewed it will change to Timer Setting mode and when pressed while viewing programs the Timer List will be displayed.

GUIDE KEY

To display Electronic Program Guide from satellite.

VIEW KEY

Used to display Information Banner.

DSR2700

Technical Specifications

1. System

- TV System : NTSC
- Symbol Rate : 2 ~ 45MSamples/s
- Modulation : QPSK(DVB specification)
- Inner FEC : Viterbi Convolutional Coding
rate 1/2, 2/3, 4/3, 5/6, 7/8(DVB)
- Outer FEC : Reed Solomon Coding(204, 188)
T=8(DVB)
- System Decoding : ISO/IEC 13818-1(MPEG2)

- Video Decoder : 13818-2(MPEG2) MP@L
11172-2(MPEG1) Compatible
Wide Screen TV(16:9)
Normal TV(4:3)
- Picture Resolution: 720(H) i¿ 480(V) i¿ 60 Fields/Sec
560(H) i¿ 480(V) i¿ 60 Fields/Sec
480(H) i¿ 480(V) i¿ 60 Fields/Sec
360(H) i¿ 480(V) i¿ 60 Fields/Sec
- Audio Decoder : ISO/IEC 11172-3(MPEG1) Layer 1, 2
Multi-Lingual
Sampling Frequency: 32, 44.1, 48 KHz
Stereo , Dual , Mono , Joint Stereo
- Memory : DRAM 1MByte , SDRAM 2MByte
non-volatile 1MByte flash
- Demultiplexing : min 3 PES streams
Video data rate max. 15MBit/s
Audio data rate max. 384MBit/s
- Number of Channels : up to 1000
- u-Processor : ST20TP2
- Language : ENGLISH

2. GENERAL FEATURES

- Dimension : 60(W) X 160(D) X 50(H)
- Operating Temperature : 0iÉ ~ 40iÉ
- Storage Temperature : -20iÉ ~ 60iÉ
- Humidity : Operating - less than 85%
Storage - less than 90%
- Remote Control : Full Function Infra-Red Remote
Control Unit

3. TUNER

- Input connector : 1x F type with loopthrough
- Output connector : 1x F type , to connect
an analogue receiver.
- Input Frequency Range : 950 i- 2150 MHz
- Input Impedance : 75 ¥Ø
- Connector Type : F TYPE
- Bandwidth : 27 MHz / 55MHz
- Input Level : -65 i- -25 dBm
- First IF Frequency : 479.5 MHz
- AGC Voltage : 0 i- 5V
- Channel Selection : PLL Frequency Synthesizer
- PLL Control Interface : IIC BUS
- Output Signal : I, Q Analog Output With 2V_{P-P}
(LOAD 1K¥Ø)
- AFC Range : i¾2.5 MHz
- Tuning System : PLL Synthesiser

4. Front Control

- Rudimentary receiver control

5. Power Supply

- Type : SMPS
- Input Voltage : 90V ~ 120Vac
- Voltage Frequency : 60 Hz
- Protection : Internally Fused

6. LNB control

- LNB Power Supply : 14V/18V , 350 mA Max
- Short circuit protected

7. COMPOSITE VIDEO OUTPUT

- Composite Video : NTSC
- Level : 1V_{P-P}(LOAD 75¥Ø)
- Impedance : 75 ¥Ø
- Connector : RCA PHONO JACKS
- S/N Ratio : 60 dB Min. (UNWEIGHTED)

8. AUDIO OUTPUT

- Operating Mode : Stereo, Dual Mono, Joint Stereo
- Output Level : 1.2 i¾0.2Vp-p
- Output Connector : RCA Phone Jack(Female),
Right : RED, Left : WHITE
- Left/Right Balance : i¾2 dB Max
- S/N Ratio : 70 dB Min

9. RE-MODULATOR OUTPUT

- TV Standard : NTSC
- Level : 77 i- 83 dBuV
- Output : CH 3, CH 4
- Pre-Set Channel : CH 3
- Connector : F-TYPE
- Audio : Mono

10. ASYNCHRONOUS DATA OUTPUT

- Standard : RS232
- Bit Rate : 115200 bps
- Connector Type : 9 Pin D-Type

- 1. Dish Installation
- 2. Channel Data Setup(P. I. N Code Required)
- 3. Available Channel

4.

Preferences
1. Channel Organize
2. Select Power Up Channel

MAIN MENU
1. Dish Installation
2. Channel Data Setup
3. Available Channel
4. Preferences
5. Parental Lock
6. System Setup

5.

1. Set Channel Lock
2. Change PIN code

(P. I. N Code Required)

6.

System Setup
1. Set TV type
2. Select Time Zone
3. System Diagnostics
4. Set Factory Default
5. LNB Setup
6. Software Download

P. I. N Code Required
for 4. Set Factory Default