



VISIONETICS International

USER MANUAL

June 1, 2000

VIStar 2000-FA

DVB-S Digital Set-Top Box

USER'S MANUAL

Ver. 1.0



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NOTICE

This manual is to help you familiarize yourself with the set up and operation of the Visionetics VlStar 2000. Please read through this manual carefully before operation. This manual should be stored and accessible for future reference.

There are no user serviceable parts inside this unit. To ensure your safety and to avoid damaging the unit, DO NOT remove any cover or attempt to access the inside of the unit. Doing so may void your product warranty. Please refer all servicing to Visionetics authorized personnel.

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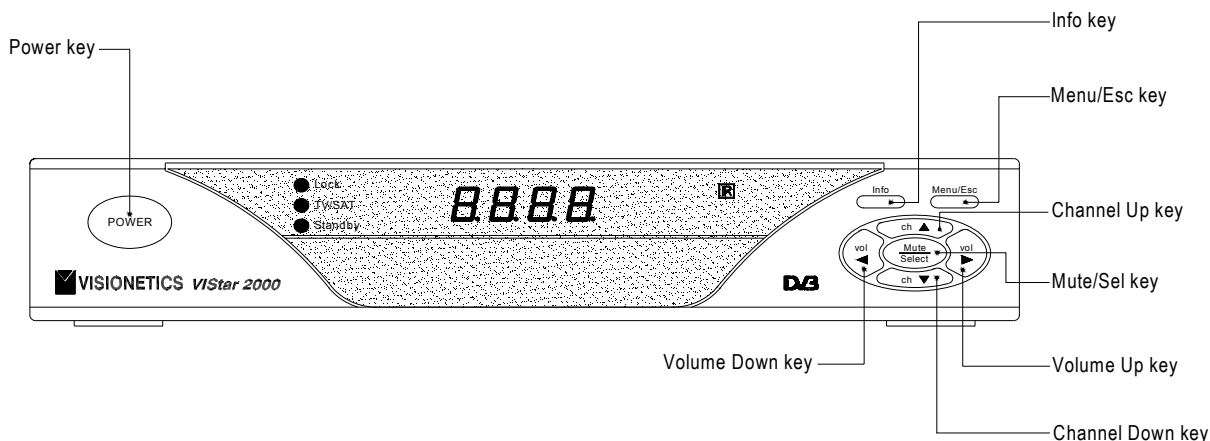
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1. NAMES OF PARTS

Your STB should come with the following accessories. Please check to make sure you have received all the parts listed below. If any part is missing, please contact an authorized dealer.

- Remote Control 1
- Batteries (3A) 2
- RCA A/V Cable 1 (Video, Audio L & R)
- User Manual 1

1.1 FRONT PANEL



1. Standby LED

When this LED glows red, it indicates the power line is connected and main power does not turn on.

2. TV/Sat LED

When this LED glows red, the A/V output is receiving satellite programs. Otherwise, TV programs will be received.

3. Lock LED

When the LED glows yellow, this indicates the selected program signal is locked correctly.

4. Numerical LED

This indicator displays a four digital read-out of the currently received program number. The display is also used to indicate received signal strength of the tuned

program. Each digit is displayed by a seven –segment LED.

5. Menu button

Press this toggle switch to enter/exit the on-screen menu.

6. Mute/Select button

This button has a dual role. In the Menu mode, the button is used to select items in the on-screen menu. Otherwise, it is used to disable (mute)/enable the sound.

7. Info button

Press this button to present an on-screen display of program information and signal strength for the channel you are currently tuned to.

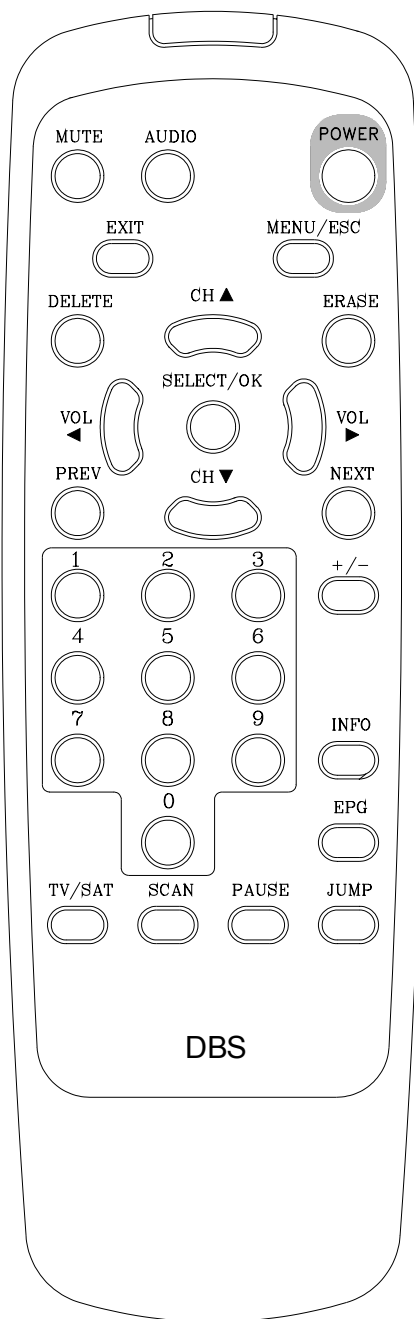
8. Channel up/▲ / down/▼ buttons

These buttons are used to switch between program in the program information and signal strength for the channel you are currently tuned to.

9. Volume up/▶ , down/◀ buttons

These buttons are used to increase or decrease the volume. However, while in the menu mode, they are used to navigate the on screen menu. Please see section 2.2.3-10 for details.

1.2 REMOTE CONTROL



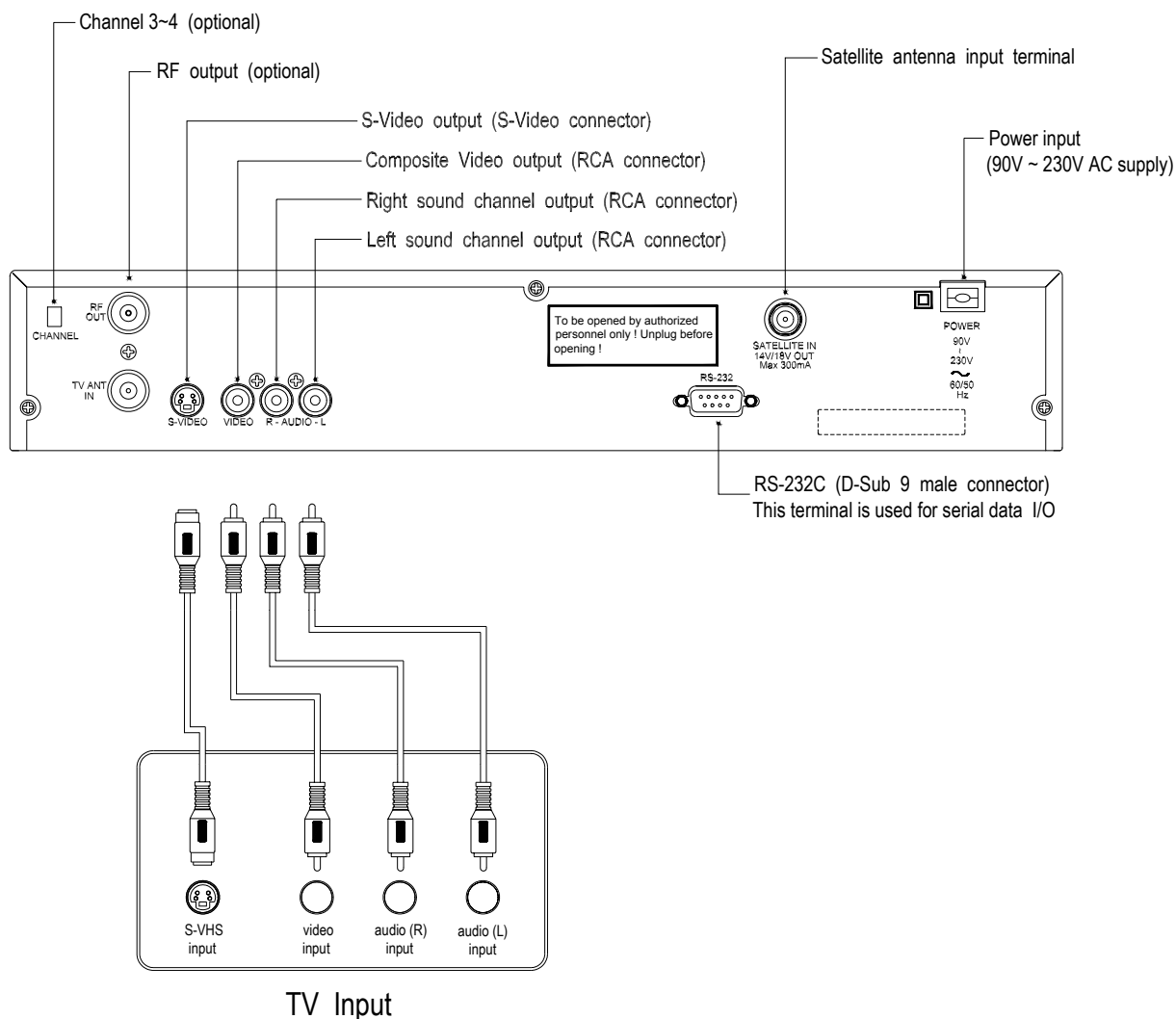
- **VOLUME ▲ ▼**: Volume up, volume down. When in menu mode, these two keys will move the selection up or down.
- **MUTE**: Pause and resume the audio output.
- **SELECT/OK**: Execute the selected command when in menu mode.
- **MENU/ESC**: Enter/exit the main menu.
- **AUDIO**: This function allows you to select the audio output from one of the options listed in the table below.
- **EPG**: Press this key to enter the EPG menu and select the desired program from the menu.
- **EXIT**: When in MENU, you can press this key to exit to last display.
- **DELETE**: Delete the set parameter.
- **ERASE**: Erase the numeric digit before the cursor.
- **PREV**: When in the EPG menu, you can press this key to display the program contents on the previous page (10 records.)
- **NEXT**: When in the EPG menu, you can press this key to display the program content on the next page (10 records.) When not in the EPG menu, this key is used to cycle the video system of the video output: NTSC, PAL, PAL-N, PAL-M, and AUTO.
- **+/-**: When in SETUP menu (within SYSTEM menu under MAIN MENU,) you can use ▲ / ▼ to select a channel number, then press this key to disable or enable the channel. [NOTE: When a channel is disabled, you can not watch the programs when CHANNEL ▲ / ▼ keys are used.]
- **SCAN**: Scan all channels defined in the SETUP menu and search all the programs within each channel. This may take a few minutes to complete. While the STB is scanning the programs, the searching channel and program number will be displayed on the LED on the front panel.
- **TV/SAT**: This only applies to units configured with SCART connectors. Use this key to switch between the TV and satellite input.
- **PAUSE**: Freeze up the screen. Press this key again to resume the video playing. [NOTE: Unlike a VCR, the video program that is being transmitted will be not recorded and resumed playing after exiting from the PAUSE mode. The video program is a continuous stream.]
- **JUMP**: Return to previous program.
- **Numeric keys**: Use these keys to enter numeric values when entering set up information, such as Down Link Frequency or Password.



- **INFO:** Press this key to display the information and signal strength/quality of the program that is being tuned now.

The "Signal Value" bar shows the strength of the tuned signal. The "Signal Quality" bar shows the quality of the tuned signal. Above the "Signal Value" bar, the "0506" indicates the program number, and "1S" indicates the current audio model (First Audio Stereo). The "L1" indicates FCL 1 (Favorite Channel List 1).

1.3 REAR PANEL (CONNECTIONS)



2. SET UP

2.1 DISH and LNB

- Before setting up the STB, you need to install your satellite dish and LNB following the installation instruction and point the dish to the satellite that you will be receiving the programming from.
- The STB will not be able to tune in and decode the incoming signal unless the dish and LNB are properly installed.
- If you are not sure if the dish and LNB have been set up correctly, please consult your dealer or professional installer for further information.

2.2 STB CONNECTIONS

- Connect the coaxial cable from LNB to "SATELLITE IN" on the rear panel.
- Connect audio/video RCA cables (or S-Video Cable) between the STB and your TV/Monitor.
- Plug to a grounded outlet.
- Refer to 1.3 REAR PANEL (CONNECTIONS) for reference.

2.3 TRANSPONDER RECORD SETUP

- Turn on the TV and the STB. After a few seconds have past you will see the message "Searching for Programs..." on the screen. If your STB has been pre-configured and the previous two steps have been set up correctly, you should be able to see the programs playing on the screen.
- If your STB has not been configured yet, you need to follow the procedures described in 3.2.1 Channel Parameters (Transponder) Setup to set up the STB according to the channels that you will be viewing.

3. SYSTEM MENU



When the MENU key is pressed, the following will appear on the screen:

This screen indicates that you are now in SYSTEM MENU mode.

When you first enter the SYSTEM MENU, the EPG will be highlighted to indicate that it is being selected. Pressing the SELECT key will enter the EPG MENU. Or, use the ▲/▼ keys to select other menu items.

3.1 EPG

Pressing the EPG key or selecting EPG from the SYSTEM MENU will enter the following EPG (Electrical Program Guide) menu:

Lock	#	Content	Format
	0602	TVBS	A/V
	0603	TVBS-N	A/V
	0604	TVBS-G	A/V
	0605	ERA-SPORTS	A/V
	0606	ERA-LIFE	A/V
	0607	TVBS	A/V
	0608	PPV 1	A/V
	0609	PPV 2	A/V

“**Lock**” indicates the program’s locking status. If a program is locked, it can only be unlocked by entering the correct password. Please refer to 3.2.3 Program Lock Setup for more information on locking and unlocking a program.

 : Unlocked  : Locked

“**#**” indicates the program number.

“**Content**” indicates the program name.

“**Format**” indicates the audio and video contents of the program.

“**A/V**” means the program contains both audio and video contents.

“**1A**” indicates only the first audio program is available.

Use the ▲/▼ to highlight a program then press the SELECT key to tune to the program.

3.2 SYSTEM SETUP

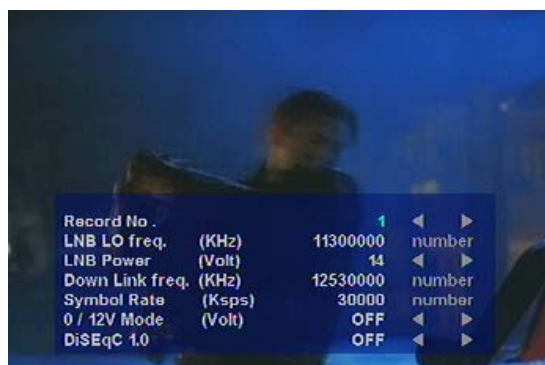
In System Main Menu use the ▲/▼ keys to highlight “System” and press the SELECT key to enter the Sy:



You may need to enter the password to enter the System Setup Menu. This depends on whether you have previously set up a password to prevent unauthorized access to your STB setup. The following sections give a description of the System Setup Menu.

3.2.1 Channel Parameters (Transponder) Setup

Selecting the “Set Up” from the System Menu will enter the Channel Parameters Setup Menu illustrated below. It contains the parameters that are required to successfully tune to the programs that you wish to receive. These parameters need to be set up correctly so that the STB will be able to decode the signal and play back the video and audio contents.



Each channel represents a transponder within a particular satellite. The associated parameters are either pre-configured or need to be set up. Sometimes, if the Setup information is lost, you may need to enter the parameters manually. It is important that you maintain a record of the Setup information for the programs that you are viewing so that you may enter it again when necessary.

3.2.1.1 Record No.

Depending on the model of your STB, there are several record numbers to keep your channel information. You can select the record number that you wish to use to maintain the transponder information. While the “Record No.” is highlighted, use the ◀ / ▶ keys to change the record number that you will be setting up.

3.2.1.2 LNB LO Freq.

LNB LO Freq. is the Local Oscillation Frequency of the LNB that you are using. Please refer to the user's manual of the LNB for the value that needs to be entered here. Use the ▲/▼ keys to highlight LNB LO Freq. and use the numeric keys on the remote control to enter the value.

3.2.1.3 Entering Values

You can also enter numeric values by using the Volume ◀ / ▶ and Channel ▲/▼ keys from the front panel. Press ◀ will enter the numeric entry mode and clear the entry to 0. Press ▲/▼ keys will increase/decrease the digit. Press ▶ will add a zero to the back of the number. Press ◀ again will exit the numeric entry mode.

3.2.1.4 LNB Power

LNB Power sets the voltage that the STB outputs to the LNB through the coaxial cable. The LNB itself requires the power from the STB for the electronics inside. Either 14V or 18V is sent from the STB depending on the modulated signal that the STB is tuning to. For a vertically transmitted signal, 14V is used. On the other hand, 18V is used for a horizontally transmitted signal. Please check the satellite chart for the signal that you are tuning. Two web sites usually list the information that you need: www.satcodx.com and www.lyngsat.com.

Using the VOLUME UP and DOWN buttons to cycle the pre-set values. If your LNB has its own power supply and will not require the STB to supply the power, you can set this field to 0V.

Also available in this field are 14V+22K and 18V+22K. The 14V and the 18V settings are the same for vertically and horizontally transmitted signal. The additional 22K signal riding out through the coaxial cable has two functions:

For multi-switches: the 22K can be used to select inputs from a multi-switch. Please refer to your multi-switch manual for more information on the connection and setting.

For dual-band LNB: the 22K signal can be used to select the LNB band if you are using a dual-band LNB. A dual-band LNB has two LNB LO (local oscillator) frequencies (please refer to the LNB manual for the actual frequency values). Depending on the Down Link frequency that you are tuning to, you need to select one of the LO frequencies. A voltage (14V or 18V) without the 22K will select the lower LO frequency. A voltage with 22K will select the higher LO frequency. To determine whether you need to select lower or higher frequency, subtract the Down Link frequency from the LO frequency. The absolute value of the difference should be within 950 to 2150 MHz. There will be Down Link frequencies that can use either one of the LO frequencies.

3.2.1.5 Down Link Freq.

The Down Link Frequency is the frequency of the channel that you are tuning. You need to check with the program provider and find out the values of this parameter. There are also several web sites on the internet that list these parameters as well. This parameter also needs numeric values to be entered. Be sure to enter the number according to the units that are being displayed. For example, a 11.998 GHz down link frequency should be entered as 11998000 (KHz), not 11998 (MHz.).

3.2.1.6 Symbol Rate

The symbol rate uses the channel that you will be tuning. Initial setting is 0 KHz. Like the Down Link Freq., you will need to check with the program provider to find out the value of the symbol rate and enter the value accordingly.

3.2.1.7 0/12 V

This will control the 12 Volts output of the STB. The default is 0 Volt.

3.2.1.8 DiSEqC 1.0

The STB supports DiSEqC 1.0, which allows you to set up multiple satellites. Options are OFF, LNB1, LNB2, LNB3, and LNB4. The default value is OFF.

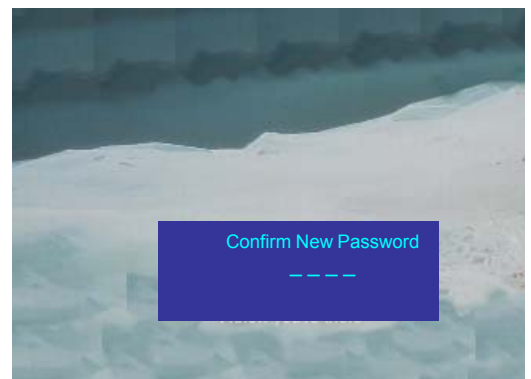
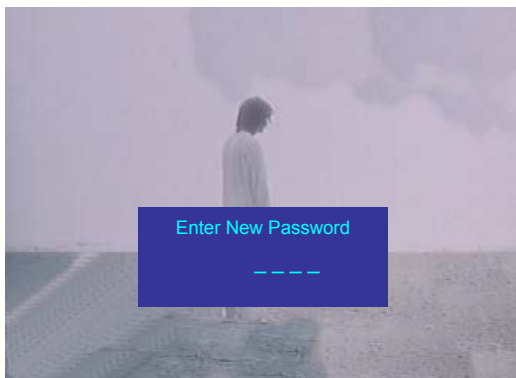
3.2.2 Password Setup

Selecting “Set Password” from System Setup Menu will allow you to set up password which will prevent unauthorized modification to your STB.



The Password is a four-digit number that you enter when you enter Password Setup Menu. The system will ask you to enter the number again to verify. Make sure that you can remember the password or keep the password in a safe place in case you forget. If you forget your password, you need to contact your dealer in order to get access to your Setup menu again.

Password protection can be removed by entering “0000,” which will remove the password protection from the Setup menus.



3.2.3 Program Lock Setup

From the System Setup Menu, select Set Lock to enter the following Program Lock Setup screen.



Lock	#	Content	Format
	0602	TVBS	A/V
	0603	TVBS-N	A/V
	0604	TVBS-G	A/V
	0605	ERA-SPORTS	A/V
	0606	ERA-LIFE	A/V
	0607	TVB8	A/V
	0608	PPV 1	A/V
	0609	PPV 2	A/V

The “Set Lock” function is used to prevent unauthorized access to designated programs (i.e. adult programming). To lock a program, use the ▲/▼ keys to highlight the program that you wish to select. Pressing the <Select> key will lock the program. The icon on the left of program number will be changed to “locked.” Pressing the <Select> key again will unlock the program and the icon will change to “unlocked”.

When a program is locked, using channel ▲/▼ keys will skip the locked channel. If you wish to view a “locked” program, you must enter the password. Changing the program will lock the program again.

3.2.4 Modify FCL (Favorite Channels List)

From the System Setup Menu select Modify FCL to enter the following Modify FCL screen.



Lock	#	Content	Format	FCL
	0505	TEST5 (U4)	A/V	
	0506	TEST6 [E2]	A/V	
	0507	TEST7 [U5]	A/V	
	0601	ADB FONTS	----	
	0602	TVBS	A/V	
	0603	TVBS-N	A/V	
	0604	TVBS-G	A/V	
	0605	ERA-SPORTS	A/V	

Favorite Channel List can be used to organize similar programs into one group so that viewing the program is more convenient. Parents can also use this feature to set up the channels that are suitable for the children to watch.

The system has four FCL lists. They are “**ALL Channel**”, “**List 1**”, “**List 2**”, and “**List3**”. All the programs are classified into “All Channel”. You can set up programs to belong to List 1, 2, and/or 3. Use the ▲/▼/◀/▶ keys to highlight the FCL number within each program, press the <SELECT> key to set that program under the list number. Or, pressing the <SELECT> key again will deselect the program from the list. For example, program TVS belongs to Favorite Channel List 1, but not 2 and 3.

3.2.5 System Info

System Info will display the STB’s software version and the serial number for the Conditional Access System.

3.2.6 RF Mode Setup

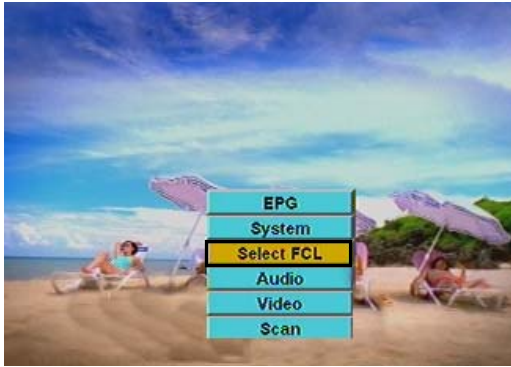
This setup menu is only for “multichannel system” (channel 21~69). Entering the numeric value of the channel, e.g. “38” to set up RF channel. Pressing the ◀/▶ key will set up the RF Mode for NTSC or PAL. However if your model

RF Channel	38	21~69 (numeric keys)
RF Mode	NTSC	◀ ▶ (use ◀/▶ key)

3.3 Select FCL (Favorite Channel List)

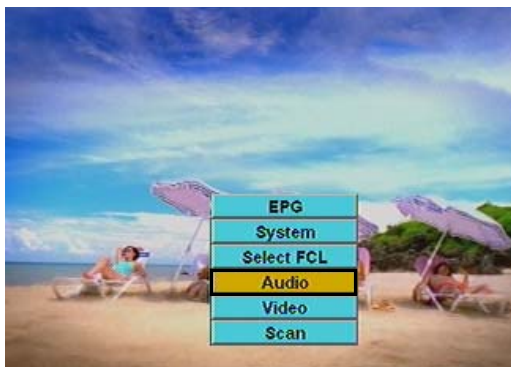
Once the Favorite Channel Lists are set up, you can use the Select FCL to select the programs you wish to view from the lists you have defined. Only the programs defined in the list will be played when using the Channel ▲/▼ keys.

To select FCL, use the ▲/▼ keys to highlight FCL List1, List2, or List3 (or All Channel), press the <SELECT> to set the FCL.



3.4 Audio

Some programs have more than one audio program channel associated with a video program. You can select the audio program that you wish to listen to by using the Audio Setup. You can also select Stereo, Left Channel Only, Right Channel for either audio program.



Use the ▲/▼ keys to highlight the audio Setup that you need then press <SELECT> to set. If the program does not contain second audio program, all the options associated with the second audio may be displayed in the color gray. This means selecting the option will have no effect.

Audio 1S: First Audio Stereo

Audio 1L: First Audio Left Channel Only

Audio 1R: First Audio Right Channel Only

Audio 2S: Second Audio Stereo

Audio 2L: Second Audio Left Channel Only

Audio 2R: Second Audio Right Channel Only

3.5 Video Setup

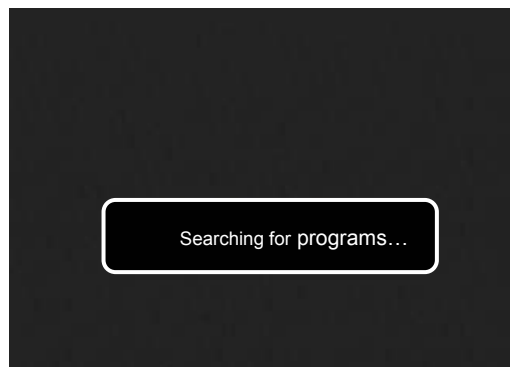
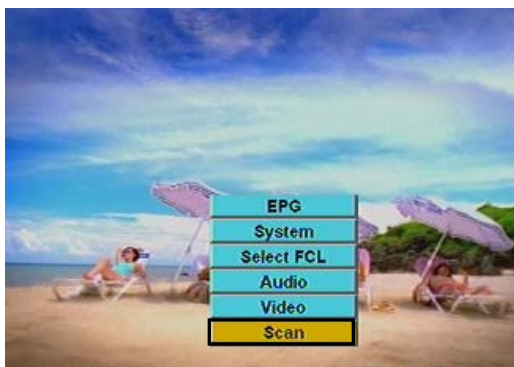


Video Setup allows you to choose between 4:3, 16:9, COMP or RGB display format... However, selecting 16:9 will have no effect on program that is not in 16:9 format.

To select any format, use the $\blacktriangle$ / $\blacktriangledown$ or $\blacktriangleleft$ / $\blacktriangleright$ keys to highlight the video format that you like, then press the <SELECT> key to set to that display format.

3.6 Scan

The Select Scan command will scan all the programs in all the channels that have been set up in Channel Parameter Setup. While the search is in progress the following message will be shown on the screen and the LED display will be showing the programs that are being tuned.



This process may take a few minutes to complete. If you have set up a password for your STB, the system will ask for the password before scanning.

The contents shown in EPG are also updated when the STB rescan the programs. It is recommended that you do a scan when the dish/LNB have been moved to receive programming from another satellite.

4. TROUBLESHOOTING

Should you encounter difficulties during setup or operation, check the following troubleshooting procedures. If the unit still doesn't work, please contact your dealer or authorized service center near you.

For your own safety, do not remove any covers of the unit or attempt to gain access to the inside of the unit. There is no user serviceable components inside the box.

Symptoms	Reasons	Actions
Standby LED does not light up after the power cord is connected	Power cord is not properly connected	Connect the power cord to the power outlet and POWER inlet of the STB properly
Lock LED lights up but no pictures on the screen	Video output cable is not connected to TV.	Connect the video cable
	TV/Monitor is not turned on or not set to the correct video input mode	Turn on TV/Monitor or set to the mode where the video cable is connected to
Lock LED does not light up and "No Signal" is shown on the screen	Dish does not aim to the broadcasting satellite properly	Adjust dish and LNB until the Lock LED lights up
	Cable from dish/LNB is not connected	Connect the F-type cable from dish/LNB to SATELLITE IN
	The transponder values are set incorrectly	Check and re-set the values correctly
No sounds from the TV speakers	Audio cable is not properly connected	Connect the audio cable properly
	The unit is in pause mode	Press "PAUSE" key
	The unit is in mute mode	Press "MUTE" key
"LNB Overload" message displayed on the screen	There might be a short in the input cable from LNB	Contact your dealer or authorized service center to check the input cable to see if there is short
	Defective LNB	Contact your dealer or authorized service center to check if the LNB works

5. Frequency Ask Questions

Q1: The picture is unstable and jumping, TV can not lock on the picture.

A1: The STB Video output mode may not be compatible with TV's video system. For example, the TV system is "NTSC", but the STB Setup is on the "PAL" output. You can use the "NEXT" key on the Remote Control to select the correct output mode.

Q2: The set-up of Vertical & Horizontal Polarization is opposite to actual receiving polarization.

A2: Adjust 90° to LNB.

Q3: I can only receive either Horizontal or Vertical Polarization programs, even though I have set up the LNB Power to 14/18V correctly.

A3: Your LNB may be a single Polarization type and can only receive either Parallel or Vertical program. Change the LNB to dual Polarization type.

Q4: The screen shows "LNB overload", no program is shown.

A4: Contact your dealer or service center to check the RF input cable. There may be a short within the cable. Also check if the LNB is working normally.

Q5: The screen shows "No Signal" and press "INFO" key will show "Low" on the Signal Value.

A5: 1) Contact your dealer or service center to check to see if the LNB is working normally.
2) Check to see if the cable between LNB and STB is broken. Zero Signal Value usually means that there is no signal coming from the SATELLITE IN.

Q6: Bad signal reception with the video demonstrating blocks or even freeze up.

A6: Check to make sure the dish and LNB are pointing to the most optimal orientation. Adjust the dish's orientation carefully to see if there is improvement. Also turn the LNB to see if the signal quality improves. Another possible cause is interference from signal reflection or other sources, check the surroundings.

Q7: The screen shows "Smart Card not inserted correctly".

A7: Pull the card out and re-insert firmly.

Q8: When scanning programs, there are programs shows "Scramble Channel".

A8: These programs have been scrambled. You will need to subscribe to the programs and obtain a Smart Card from the program provider to watch such programs. Be sure to contact your dealer to make sure the Smart Card that you are going to use is compatible with the STB. Usually, the program provider will supply the STB with the Smart Card together.

Q9: The screen shows "Smart Card not initialized", can not receive programs.

A9: Contact your dealer or program provider to initialize the Smart Card or replace it with another one.

Q10: How do I cancel the password protection?

A10: Reset password to "0000".

6. SPECTIFICATIONS

General Characteristics

Power Input	90V~ 260V AC, 47~ 63 Hz
Dimensions	381mm (W)×281mm (D) ×73mm (H)
Weight	2.6 Kg
Power Consumption	20W Max. (Normal operating condition)
Operating Temperature	5°C ~ 45°C
Operating Humidity	15%~80% RH

Tuner

Input Frequency Range	950 to 2150MHz
Input Signal Level	-25dbm to -65dbm
Input Connection	75ohm F- type female connector
IF Bandwidth	27/36 MHz
IF Frequency	479.5MHz
LNB Power	14V/18V, 300 mA max.

Video Output

Video Format	PAL/NTSC
Frame Rate	25/30
Maximum Resolution	720×576(PAL), 720×480(NTSC)
Aspect Ratio	4:3, 16:9
Connector Type	RCA. S-Video, and RF

Audio Output

Mode	Mono, Dual, Joint Stereo, Stereo
Sample Rate	32KHz, 44.1 KHz, 48 KHz
Frequency Response	20~20 KHz ≤ ± 2 dB, 60~18 KHz ≤ ± 0.5 dB

Controls and Display

Front Panel Controls	User Input Keypads
Infrared Remote Control	
On Screen Message Display	Channel Info Display, EPG Info Display
LED Status Display	

List of Parameters

LNB Frequency and Polarization

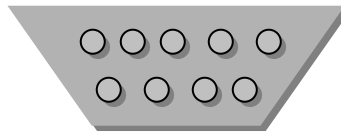
Satellite Frequency

Symbol Rate

7. Appendix

7.1 RS232 interface

Pin Assignment



Pin	Signal	Description
1	NC	
2	TX	Transmit data
3	RX	Receive data
4	+5V	+5V Volt
5	GND	Ground
6	NC	
7	NC	
8	NC	
9	NC	

7.2 NAGRAVISION ERROR MESSAGES

a) "Smart Card error"

When there is a communication error with the Smart Card. Possible Cause: A Smart Card from another system other than NagraVision is inserted:

b) "Smart Card not inserted correctly"

When program cannot receive any response from Smart Card. Possible Cause: A faulty Smart Card reader or Smart Card is not inserted properly.

c) "Please inserted Smart Card"

Smart Card is not inserted.

d) "Invalid Smart card ID"

The Smart Card's ID (serial no) is incorrect.

e) "Smart Card Blacklisted "

The Smart Card has been erased destroyed because of serious violation on the usage agreement or abuse.

f) "Smart Card Suspended"

The Smart Card has been suspended.

g) "Smart Card Not Initialized"

"Decoder s/n: XX XXXX XXXX XX"

"Smart Card s/n: XX XXXX XXXX XX"

The Smart Card has never been paired before.

h) "This Smart Card Cannot Be Used In This Decoder"

The Smart Card has not been paired with the decoder.

i) "Access Denied"

The subscriber does not have the access right to access a particular program.

j) "Access Blackout"

When STB is in an area where program receiving is restricted.

7.3 Glossary Terms

DiSEqC	Digital Satellite Equipment Control.
DVB	Digital Video Broadcasting. A European group including 25 countries that developed the preferred digital broadcasting scheme in Europe. This group has put together a satellite system (DVB-S), a matching cable system (DVB-C), and a digital terrestrial system (DVB-T) that can be used with any current or planned transponder.
STB	Integrated receiver and decoder.
LED	Light Emitting Diode.
LNB	Low noise block converter. The LNB is an electronic unit mounted on the satellite dish. It receives the signals and converts them to signals that can be used by the satellite receiver.
NTSC	National Television Standards Committee. A USA broadcast standard that can also be used in Japan, Taiwan, etc..
PAL	Phase Alternating Line. Transmission standard for TV signals used for conventional and satellite broadcasting.
Polarization	It allows several programmers to be fitted into the same frequency band.
RF	Radio frequencies.
Symbol rate	The range of a frequency sent by a satellite.
Transponder Freq.	A frequency to be Setup with the satellite frequencies.

7.4 Technical Support

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