OVERVIEW

This product is designed for using Digital Satellite and allows you to enjoy a lot of broadcasting whenever you want to watch it anytime. By simply pressing the button of the remote control unit, the vivid picture and life –like sound of digital broadcasting that your TV portrays through this product, allows you to watch whatever channel you wish of the digital broadcasting.

Through this manual you will notice that the operation is easy to use.

This manual will help you get the most from this product and guide you through Installation, channel selection and many other functions.

In case you experience any difficulties to use this product, please consult the relevant section of this manual.

From now on, enjoy digital broadcasting with digital satellite receiver!!!

General Features

- 10days EPG (Electronic Program Guide)
- Full Compliant of MPEG-2 Digital & DVB broadcasting
- 950-2, 150 MHz input Frequency (IF Loop Throughout)
- Variable Input Symbol Rate (1-45Msps)
- Multi Language OSD
- · Automatic PAL/NTSC Conversion
- Fast Channel Change
- 5,000 Channel TV & Radio Program
- Flexible reception of SCPC & MCPC from C/Ku-Band Satellites
- S/PDIF (Digital Audio or Dolby AC3 Stream out)
- Timer Function (Automatic Turn On/Off by Setting Function)
- 256 Colors (Graphic Use Interface) Number
- PIG (Picture In Graphic)
- 5 Favorite List & 100 programs per each
- Powerful Channel Editing Function
- Sorting: Alphabetic, Satellite, FTA/Scramble, Parental Lock
- Move, Delete, Favorite Edit
- Parental Lock, Channel Rename, Channel Skip
- Manual PID/Satellite & TP/Network Scan
- Blind Scan

- · Satellite Scan Simultaneous Scan with various Satellites
- DiSEqC 1.2 & USALS Compatible
- Comparable of Setting the Frequency for SMATV System
- Software Upgrade via USB Memory Stick or RS232C (Receiver to Receiver, PC to Receiver)
- UHF- Ready
- S-VHS Out
- Universal Remote Control

. HOW TO USE THE REMOTE CONTROL KEY

Key	Function	
ψ	Turns this receiver on/off.	
	In the standby mode, it is automatically changed	
	to TV mode that enables to watch terrestrial TV	
	broadcasting.	
TV/SAT	Toggles between TV & SAT	
TV/VCR	Toggles between TV & VCR	
TIME	Time shows current Time	
×	Sounds Off/On	
INFO	Shows channel information, such as channel	
	number, channel name, Frequency, Polarity,	
	Symbol Rate, Video PID, Audio PID and PCR PID	
EPG	Shows program information	
TV/RADIO	Toggles between the TV service and radio	
	service	
PAUSE	Holds the picture or release the pause	
SIG	Shows signal quality	
	Selects audio mode	
AUDIO	(Stereo, left only and right only).	
	Select language in case of Multilingual program.	
MENU	Enters main menu screen. Or exits menu screen	
EXIT	Moves to upper menu	
CH ▲ ▼	Channel up/down	
J.: 2 ·	Moves the cursor upward/downward in the menu screen	
ОК	Shows Channel list. Confirms selection	
VOL ◀▶	Volume down/up	
,,	Change the value of a selected line	
LAST	Returns to previous program	
FAV	Enter favorite program or Exit from Favorite	
	program	
	Changes channel directly.	
0~9	Controls the numerical operation.	
	Input the alphabet in the name edit screen	
*	Execute page down function in the menu	
★	Execute page up function in the menu	



SAT	Classifies satellite by satellite
???	???
TTX	Teletext
SUB	Subtitle

Operating Principle

- Select an item by using up and down key and change the value of the highlighted (selected) item by using keys shown
 on the screen. Press OK to enter to the sub-menu if there is no instruction marks on the screen.
- The items is automatically stored and moved the upper menu by pressing the 'EXIT' key
- You can return to normal mode at any time by pressing the menu key from the menu mode

FRONT PANEL

1. POWER

To put Power in and out of standby mode.

2. VOLUME

To make volume up and down.

CHANNEL

To move up and down in the menus, To change channels.

4. Menu

To enter main menu screen.

5. Exit

To move to upper menu.

6. Select

To enter selected menu screen.

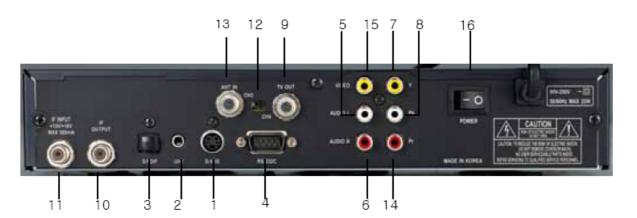
7. Display

To show channel number, error messages, remote control commands and time in standby mode.



. REAR PANEL

NO	NAME	FUNCTION
1	S-VHS	Super Video output to TV or VCR
2	UHF	Option for UHF Remote Control lit
3	S/PDIF	For digital audio output
4	RS232	Serial port used for software upgrade
5	L	Left Audio Output
6	R	Right Audio Output
7	Υ	Component Video Output
8	Pb	Component Video Output
9	TV OUT	Output to TV
10	IF OUTPUT	IF Loop-through output to 2 nd receiver
11	IF INPUT	IF INPUT from LNB to receiver
12	Modulator Switch	CH 3/4 Switch
13	ANT IN	Input from terrestrial TV antenna
14	Pr	Component Video Output
15	VIDEO	Composite Video Output
16	AC SWITCH	AC Power ON/OFF (Reset Function)



Specification

Embedded Smart Card Slot 1 Smart Card Reader USB2.0 with On-The-Go 1 Host

Front-End

1 Input Connector F-type, IEC 169-24
IF Input Frequency 950MHz to 2150MHz
IF Loop Throughout 950MHz to 2150MHz

IF Frequency Zero-IF

Input Level -65 dBm~-25 dBm LNB Power 13 /18VDC / 500mA Max

DiSEQqC Control Diseqc 1.2 & USALS Compatiable

Band Switch 22KHz Tone Demodulation QPSK

Symbol Rate 1~45 Msps(SCPC,MCPC)
Viterbi Decoding Rate 1/2,2/3,3/4,5/6 and 7/8
Reed Solomon Decoding FEC: 204, 188. t=8

MPEG transport Stream A/V Decoding

Demultiplex According to ISO/IEC 13818-1

Input syream Max. 90Mbit/s Aspect Ratio Max. 90Mbit/s 4:3, 16:9

Video Resolution 720x576 (PAL), 720X480 (NTSC)

Audio Decoding MPEG Layer I & II

Audio Mode Single Channel / Dual Channel , Stereo , Joint Stereo

Audio Sampling Frequency 16/22, 05/24/32/41, 1/48 khz

Microprocessor & Memories

Main ProcessorVIRGO SECPU Clock150 MHzFlash Memory8 MbyteSDRAM32 MbyteEEPROM32 Kbit

Data port

Connector 9 Pin D-Sub Type
Protocol RS232 Asynchronous
Data Rate Max. 19.2Kbps

RF Modulator

Connector IEC 169-24, Male/ Female

Frequency CH3 (61.25MHz), CH4 (67.25 MHz)

Output Channel CH 3-4
TV Standard NTSC

Preset Channel Ch3-4, Changeable by Menu Screen

Front Panel

4 Digits LED Channel Number Display

8 keys Volume Up/Down, Channel Down/Up, OK, Power, Menu, Exit

Smart Card Interface 1 Slot USB Memory Card Slot(Max. 500mA) 1 Host

Rear Panel

IF Input F-type Connector IF Loopthrough output F-type Connector

6 Phone (Cinch) Video, Audio L, Audio R, YPbPr

S/PDIF Optical S-VHS

UHF Modulator

RS232 Serial Port 9 Pin D-Sub Type

Remote Control

Type IR Remote Battery 2x1.5V AAA Type

Electrical and Mechanical

Input Voltage AC 90 -240V, 60Hz
Power Consumption Max. 25 Watts
Standby Power Less than 11 Watts
Size(WxHxD) 290x200x55mm

Weight 2.1kg