# Digital Satellite Receiver

User's Guide

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## FOR YOUR SAFETY

- Be sure to read the user manual before starting the operation of the receiver.
- Do not open the housing. The receiver contains high-voltage components and parts.
- Even after switching off the receiver still contains high-voltage for a while.
- Do not expose to rain or moisture.
- Do not make objects or fluid enter the housing through the ventilation slot. If any spilt liquid went into to the housing, unplug the power cord and call your local service provider.
- Do not place close to any heat source.
- Do not press with hard or heavy object.
- To protect possible malfunction by lighting, we recommend you to use power surge unit. Call your local dealer for advise.

**For Your Safety**

**1. Before Getting Started** ..... **1**
1.1 Main Features ..... 1
1.2 Accessories ..... 2

**2. Controls and Functions** ..... **3**
2.1 Front Panel ..... 3
2.2 Rear Panel ..... 4
2.3 Remote Control Unit ..... 5

**3. Connections** ..... **7**
3.1 Connecting to the TV, VCR and Satellite Antenna ..... 7
3.2 Connecting DiSEqC switch ..... 7
3.3 Connecting to the TV, HiFi system and SPDIF ..... 8

**4. Settings and Operations** ..... **9**
4.1 Basic Settings ..... 9
4.2 Viewing TV(or Radio) ..... 14
4.3 Other functions ..... 18
4.4 System Settings ..... 21
4.5 Game ..... 24

**5. Appendix** ..... **25**
5.1 Troubleshooting ..... 25
5.2 Specification ..... 25
5.3 Glossary ..... 26

## 1.1 Main Features

- Easy Menu Function
- TV Guide Function
- RF Output Function
- Electronic Program Guide(EPG) for On Screen Channel Information
- Software Upgrading Function Through RS-232C Cable by PC
- Perfect DiSEqC 1.2 and 0/12V Support for Various Antenna System or 2-LNB on 1 Antenna System
- Supports of Ku/C band, SCPC and MCPC
- Additional Audio Output Function for Connection to Hi-Fi Audio System
- Other Functions of Remote Controller, Receiving Level Selection, Channel Editing, Menu Language Selection and Audio Selection
- Digital free-to-air Satellite Receiver
- NTSC & PAL Output Function

  Regardless of the TV type, NTSC and PAL channels can be viewed by selection

**Note**

When PAL channel is viewed on NTSC TV, small deletion on up & down sides of the screen may occur and it is normal, as its conversion is managed by software. And darker color on the bottom side of the screen may occur, when NTSC channel is viewed on PAL TV.

- 1200 Transponders and 1820 Channel Memory Function
- Teletext Supported
- Multi Language Function(Menu, Audio)

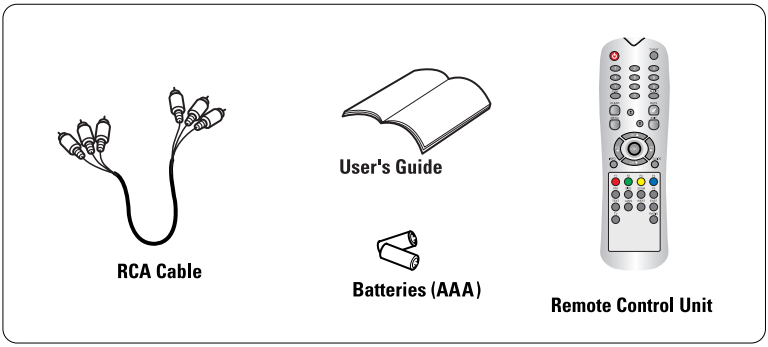
## 1.2 Accessories

RCA cable

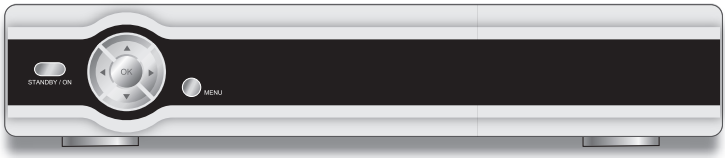
User's Guide

Batteries(AAA)

Remote Control Unit



## 2.1 Front panel



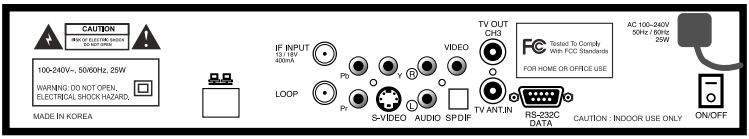

**STANDBY / ON**
Turn the power on/off.

**MENU**
Shows the menu application.

**Channel ▲ ▼**
Change channel, move menu, or input frequency value.

**Volume ◀ ▶**
Control volume, change item on menu or input frequency value.

## 2.2 Rear panel




**IP Connection**
Network interface

**IF INPUT**
It receives signals from the LNB in the range of 950 ~ 2150MHz. Connect a satellite dish to DIGITAL.

**LOOP**
It sends signal to the another receiver.

**YPbPr**
Component analog video signal.

**S-VIdeo**
It provides high definition screen.

**AUDIO**
It provides stereo audio output. Connect the audio on TV to AUDIO with RCA cable.

**VIDEO**
It provides composite video output. Connect the Video on TV to VIDEO with RCA cable.

**SPDIF**
Output for connection to a digital amplifier

**TV OUT CH3**
It provides a modulated audio and video from the receiver. Connect the TV/VCR on TV to TV/VCR with the RF cable.

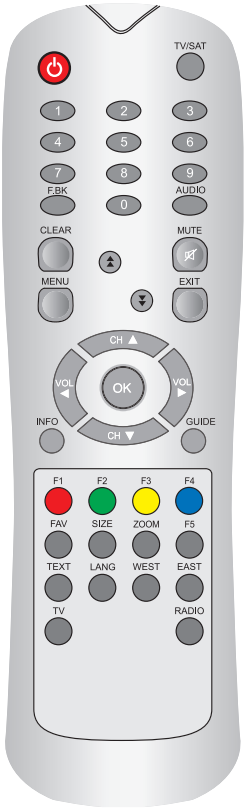
**TV ANT IN**
The signal supplied to this connector from a TV antenna will be sent to TV antenna output. Connect a TV antenna to TV ANT IN.

**RS-232C DATA**
It receives data by connecting to PC for software upgrading. Connect with RS-232C cable a PC and receiver.

**ON/OFF**
The switch is to turn on or off the main power of the receiver mechanically.

## 2.3 Remote Control Unit

Open the controller cover on the back and insert two batteries (AAA - 1.5V).




**POWER**
Turn the power on/off.

**TV/SAT**
Select between TV Channels and Satellite channels for RF output.

**Numeric(0~9)**
Change channel or input frequency value.

**F. BK**
It is to move to previous channel.

**AUDIO**
Select Stereo, Main or Sub from multi language channels available.

**CLEAR**
Clear wrong number input or delete channel from TV (Radio) list or favorite channel list.

**MUTE**
Deactivate current sound.

**MENU**
Shows the menu application.

**Page UP/DOWN**
Move to previous/next page on TV(Radio), Favorite Channels or Edit TV(Radio) Channels.

**EXIT**
Exit from the menu.

**Volume ◀ ▶**
Control volume, change item on menu or input frequency value.

**Channel ▲ ▼**
Change channel, move menu, or input frequency value.

**OK**
Select menu or value on menu item.

**INFO**
Shows the information of current channel. Click the INFO button twice, EPG mode will be displayed. When pressed in channel list channels will be sorted in alphabetical order A-Z.

**GUIDE**
Shows EPG[Electronic Program Guide]

**FAV**
Add TV or Radio channel to the favorite list on Edit TV(Radio) Channels, or watch favorite channel from your favorite list.

**SIZE**
Select between standard 4:3 and wide 16:9 screen sizes.

**ZOOM**
2 times zoom in mode. First press, show target area box. Second press, show zoomed screen. Zoom area can be moved with arrow keys. Exit zoom in mode with "EXIT" remote key.

**TEXT**
Change to Teletext mode.

**LANG**
Select the audio language from 2 or more audio language channels available.

**EAST/WEST**
The function of EAST/WEST button is to move the Position Actuator westward/eastward.

**TV**
Change to TV mode from radio channel.

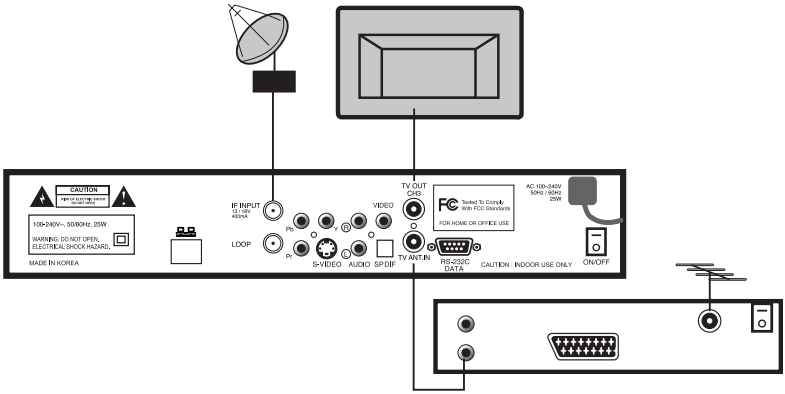
**RADIO**
It is for fast change to radio mode from TV channel. .

## 3.1 Connecting to the TV, VCR and Satellite Antenna

It is not necessary to adjust power, as the product is of free - voltage (110~220V )

1. Connect the RF cable from the TV OUTPUT on the satellite receiver to a TV and connect the RF modulate on the VCR and the TV ANT.IN.

3. Connect an antenna to the LNB socket on the VCR or other receiver and cable of the satellite dish to the DIGITAL on the satellite receiver.

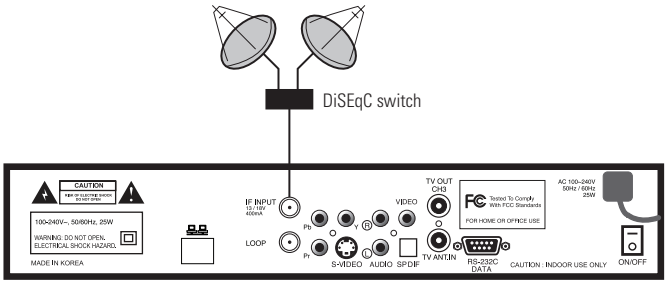



## 3.2 Connecting DiSEqC switch

If you have one antenna equipped with many LNBs or two antennas with one LNB on each, you need a DiSEqC switch.

1. Connect the LNBs to a DiSEqC switch at first.

2. Connect the antenna cable to the OUT connector on the DiSEqC switch and connect the end of the cable to the DIGITAL on the satellite receiver.

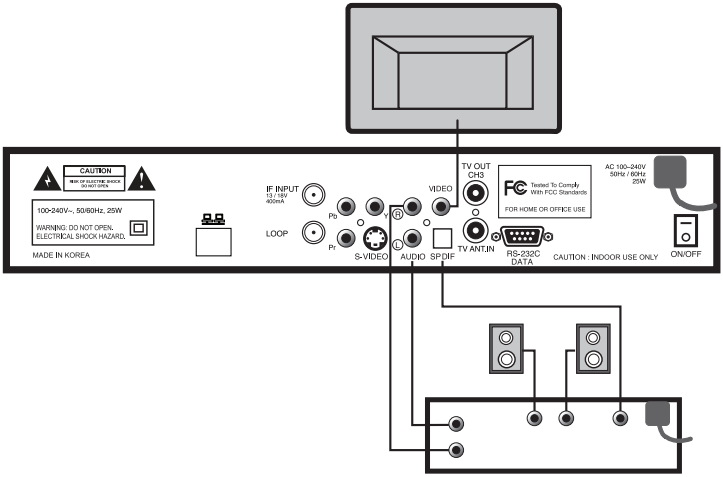


## 3.3 Connecting to the TV, HiFi system and 0/12V switch

1. Connect the RCA cable from the VIDEO INPUT on the TV to the VIDEO on the satellite receiver.

2. To use 0/12V switch, connect one cable of the 0/12V switch to the 0/12V on the satellite switch and connect another cable to the DIGITAL on the satellite receiver.

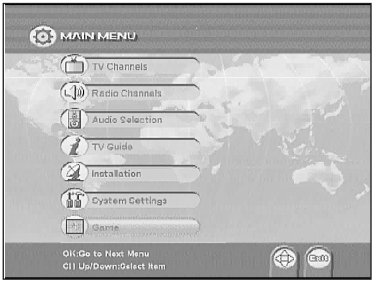
3. Connect a RCA stereo cable from the AUDIO RL on the satellite receiver to the AUDIO RL on the HiFi system.



## 4.1 Basic Settings

If it is the first time using a receiver, you should set parameters for system configuration. Refer to the following section.

1. Turn on your TV and Satellite receiver.
2. Press the MENU button, main menu screen will appear as shown below.




**<LNB Power>**

1. Select Installation on the Main Menu.
2. Select LNB Power.

3. If LNB Power is independently supplied from outside source, set the LNB Power OFF. Otherwise set it ON.

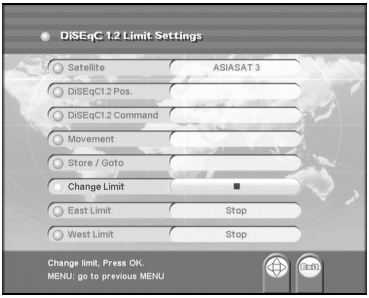
4. After completion of LNB Power setting, go back to Installation menu by pressing MENU.

**<DiSEqC 1.2 Limit Settings>**

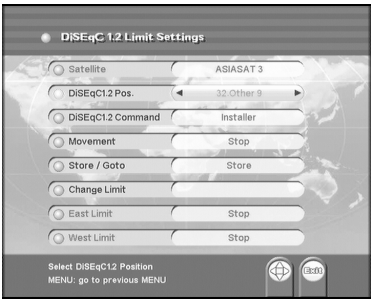
If you have a DiSEqC 1.2 motoried system to control your satellite antenna you have to make the following setting. First, you must select ON on DiSEqC 1.2 of LNB Setting in the TP Configuration. **< ☞ Please refer to the TP Configuration section >**

1. Select DiSEqC 1.2 Limit Settings of the installation.

2. You should set the East Limit and West Limit of your satellite antenna If you use the satellite receiver at first. Press OK button on the Change Limit item, set the East/West Limit.




3. Select satellite you want and DiSEqC1.2 Pos. will be set automatically.




### *Satellite / DiSEqC1.2 Pos.*

The Satellite shows current name of satellite, and DiSEqC1.2 Pos. shows positioner value of the current satellite.

### *DiSEqC1.2 Command*

DiSEqC1.2 Command changes the current mode between Installer and User.

### *Movement*

In User mode this is used to tune the position of the motor. In Installer mode this is used

to search for the position of a satellite manually.

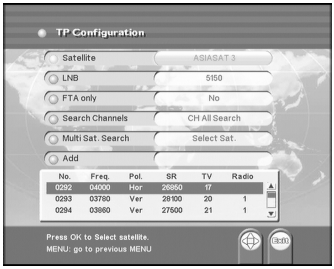
***Store***
Stores the current position of the motor for the selected satellite name.

***Goto***
Moves the motor to the stored position of the selected satellite name.

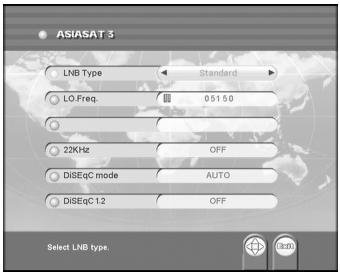
**<TP Configuration>**
You have to know valid value for your LNB at first.

1. Select TP Configuration of the installation.

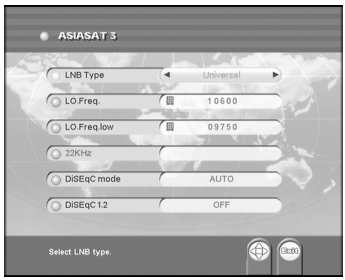
2. Select correct name of Satellite. If there is no proper satellite name listed in the item, select one from any of USER1 ~ USER 19.




3. To change value of LNB from each satellite, press OK button from LNB.




**< Standard >**




**< Universal >**

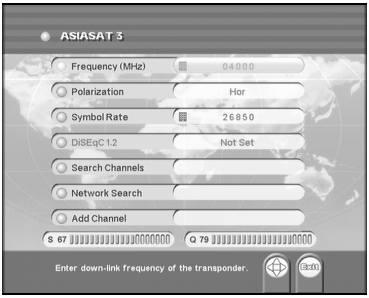
4. For universal type of LNB, select Universal from LNB Type item and input the LNB frequency value on Freq.High and Freq.Low by using VOL ◀ ▶ or numeric key.

For standard type of LNB, select Standard from LNB Type and input correct value on Freq..

5. While only 1 antenna is in use, set the 0/12V switch and DiSEqC mode. to Disable. In case of STANDARD, select OFF from 22KHz. If more then 1 antenna is in use, select 0V or 12V from 0/12V SWITCH, or select a proper position from Mini A, Mini B, DiSEqC 1 ~ DiSEqC 4 by different DiSEqC type as you are using DiSEqC switch.

6. Select Search Channels on the TP Configuration press OK, all the available TP will be searched automatically.

7. Move to desired TP with CH ▲▼ on the RCU. If there are no transponder data which you want, move to Add New TP and press OK button.




8. Select the desired satellite. And input correct values of Frequency, Polarization and Symbol Rate. Select the Polarization value as Hor of Ver. If you did not know accurate polarization value select Auto.

**Note**

You should find the correct data from satellite magazine or internet(http://www.SATCOD

9. After all the values are input, select Search Channels and wait until the automatic search is complete

If FTA only is selected as YES, only free channels will be searched without scrambled pay channels. Otherwise all channel with scrambled pay channels will be searched. Scrambled pay channels is marked as $ at the beginning of the channel name.

After successful completion of channel searching, move to TV Channels or Radio Channels on MAIN MENU to select currently received channels. Then you should select the TV channel or Radio channel which you want. After then you can watch the TV program or listen to the radio.