

eycos[®]
multimedia systems

USER'S MANUAL

S 30.12 CI H

**DIGITAL SATELLITE RECEIVER
with 2 COMMON INTERFACE**



Notice

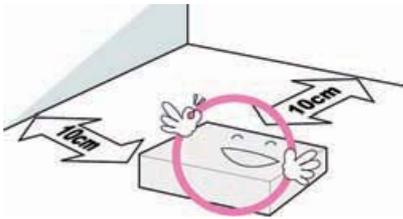
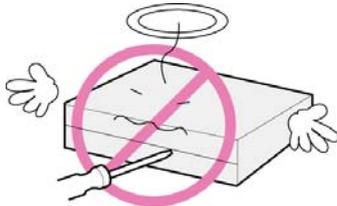
This manual can help you to become familiar with how-to-use and the many great features of the digital satellite receiver S 30.12CI H. All the safety and operating instructions should be read before the digital satellite receiver S 30.12CI H is operated. Please keep the manual in a fixed place so that it can be easily referred to later.

The following symbols will serve as follows:

 Note	Indicates any other additional important or helpful information.
 Warning!	Indicates warning information.
“MENU” (Double quotation marks)	Indicates a button on the remote control or the product.
	To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.
	Indicates dangerous voltage inside the product that presents a risk of electric shock or personal injury.
	Indicates important-operating and maintenance instructions accompanying the product.

Safety and Precautions

<Attention when installing the receiver>

<p>Install on an even plane.</p> 	<p>Don't install in the cold or under direct sunlight.</p> 
<p>Leave a minimum 10cm gap all around the product.</p> 	<p>Don't disassemble, repair, or reorganize the product.</p> 

<Use and care of the receiver >

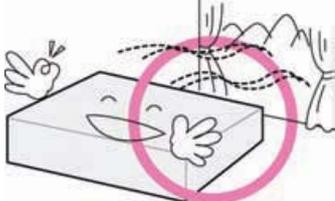
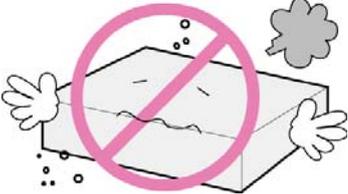
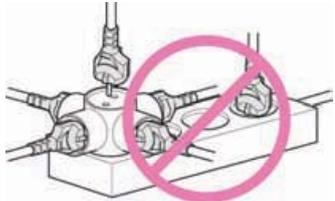
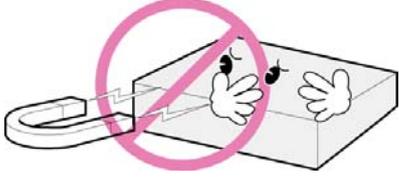
<p>Place the product in a well-ventilated area.</p> 	<p>Place the product where dust and other materials do not build up.</p> 
<p>Don't plug in with several other power plugs.</p> 	<p>Don't place the product where there are extreme vibrations or near magnetic forces.</p> 
<p>Don't place objects on top of the product.</p> 	<p>Don't place cups that hold water or other liquids on top of the product.</p> 

Table of Contents

Chapter 1. Before You Begin	5	4.9.5 Changing Satellite Group	32
1.1 Features	6	4.9.6 Editing Channels	33
1.2 Package Contents	7	4.10 Managing Favorite Channel Lists ..	35
1.3 Names of Each Parts	8	4.11 Changing Channel Mode	37
1.3.1 Front Panel	8	4.12 Viewing Program Guide	37
1.3.2 Rear Panel	9	4.13 Viewing Teletext	38
1.4 Names of Remote Control	10	4.14 Changing STB/TV	38
Chapter 2. Connections	13	Chapter 5. Settings	39
2.1 Connecting to TV & VCR	14	5.1 Search Channel	41
2.2 Connecting to Dish	16	5.1.1 Antenna Setting	41
2.3 Connect to the Optical S/PDIF	17	5.1.2 Automatic Search	42
2.4 Connecting to CI module	17	5.1.3 Manual Search	43
2.5 Starting Up	18	5.1.4 Advanced Search	44
		5.1.5 Blind Scan	44
Chapter 3. Basic Settings	19	5.1.6 USALS	45
3.1 Language	20	5.2 Edit Channel	46
3.2 Time Setting	20	5.2.1 Edit Channel	46
3.3 Antenna Setting	21	5.2.2 Edit Favorite	46
		5.2.3 Edit Transponder	46
Chapter 4. Operations	23	5.2.4 Remove Satellite	47
[Basic Functions]	24	5.3 Setup	48
4.1 Changing Channel	24	5.3.1 Language Setting	48
4.2 Adjusting Volume	24	5.3.2 OSD Setting	49
4.3 Viewing Program Information	25	5.3.3 Output Setting	49
4.4 Switching TV and Radio	26	5.3.4 HDMI Setting	50
4.5 Freezing Screen/Zooming Screen ..	26	5.3.5 Time Setting	50
4.6 Changing Subtitle Language	27	5.3.6 Timer Setting	51
4.7 Changing Audio Language	28	5.3.7 Lock Control	51
4.8 Selecting Audio Output Direction ..	28	5.4 Tools	52
[Advanced Functions]	29	5.5 Common Interface	55
4.9 Managing Channel List	29		
4.9.1 Displaying Channel List	29	Chapter 6. Appendix	57
4.9.2 Searching Channel	30	6.1 Trouble Shooting	58
4.9.3 Viewing Multi-Channels Window ..	31	6.2 Specification	59
4.9.4 HDMI Color Adjust	32		

Chapter 1

Before You Begin

1.1 Features

Enjoy a full of thrills and excitement with Arion's new product!

The S 30.12CI H is a set-top box perfectly suited for receiving digital satellite broadcasts. You can enjoy the various TV and radio programs. The simple connection and easy-of- use operation, user-friendly three-dimensional OSD, highest quality audio output with Dolby AC-3 Digital Audio, and Multi-channel screen are all designed to enrich the user experience.

Furthermore, S 30.12CI H provides the enhanced Electronic Program Guide (EPG), various utilities, and channel change effect modes.

<Main Features>

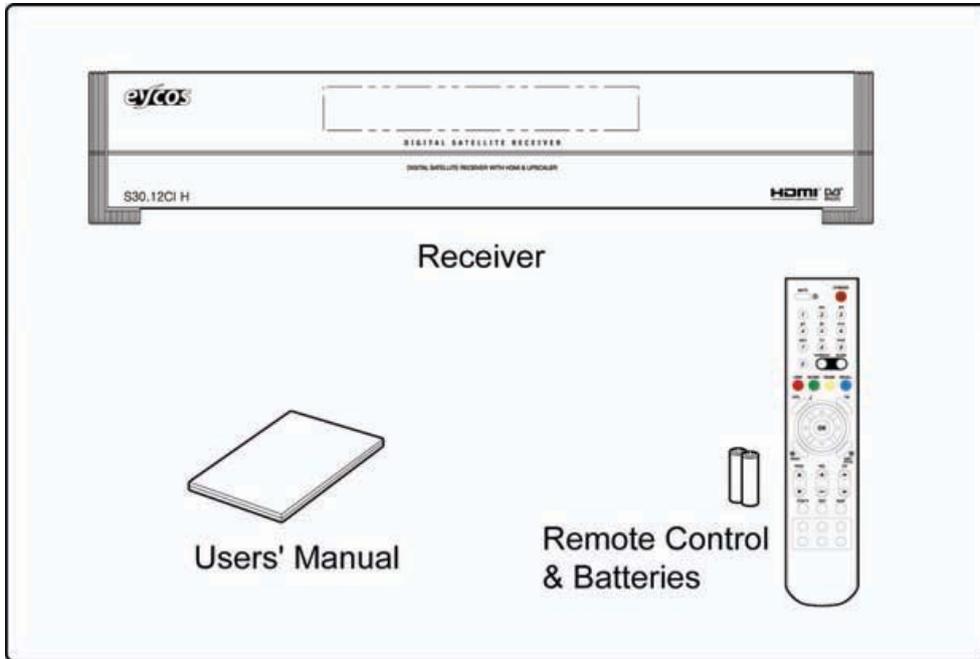
- MPEG-2 / DVB(Digital Video Broadcasting) compliant
- MPEG Layer I and II, CD quality audio sound
- Supports RS-232 port for S/W upgrade (115,200 bps)
- Separated TV/Radio/All List & Favorite Group List
- Offering 8,000 TV and radio channels
- DiSEqC 1.0/1.1/1.2 and USALS
- Supports multi-channel screen (Mosaic)
- Variable kind of utilities (Calendar, Calculator, Zoom In)
- Channel change effect mode (Blank, Fade-in/Out, Freeze)
- Supports 2 Slot Common Interface (CAM)
- 1 Port HDMI Output

<Other Features>

- Capable of receiving both SCPC and MCPC channels
- Powerful and easy functions for editing (Lock, Delete, Move, Rename Channel & Favorite group)
- Games Included: Tetris, Block Out, etc.
- Electronic Program Guide (EPG) for On Screen Channel Information
- 12 OSD languages and 256 color OSD menu
- Auto searching & manual searching function
- Parental lock function (Install Lock/Menu Lock/ IRD Lock)
- Ergonomic full functions remote control & VFD and 8 buttons on the front panel
- Teletext and subtitle supported by VBI and OSD
- Channel editor & channel loader in PC environment
- Software transfer from receiver to receiver
- Total 8 configurable timer control
- S/PDIF for digital audio(Optional)
- Free voltage

1.2 Package Contents

Please check to make sure the following contents are in the product's package.

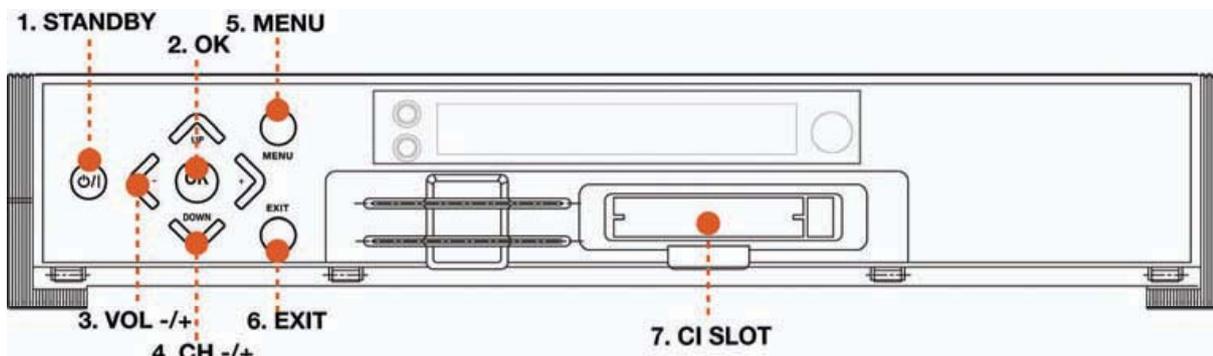


Note

- Product contents may be subject to change.
- Cables not specified above must be purchased separately.

1.3 Names of Each Parts

1.3.1 Front Panel



1. STANDBY

To switch the receiver on/off.

2. OK

To select a menu or confirm the user's action and display the channel list during watching a TV.

3. VOL -/+

To increase or decrease TV/Radio volume level or change the value of an item with preprogrammed values. The "▶" button can be used to show the sub-menu corresponding to the highlighted menu.

4. CH -/+

To change the TV/Radio channel Up/Down.

5. MENU

To display the menu OSD.

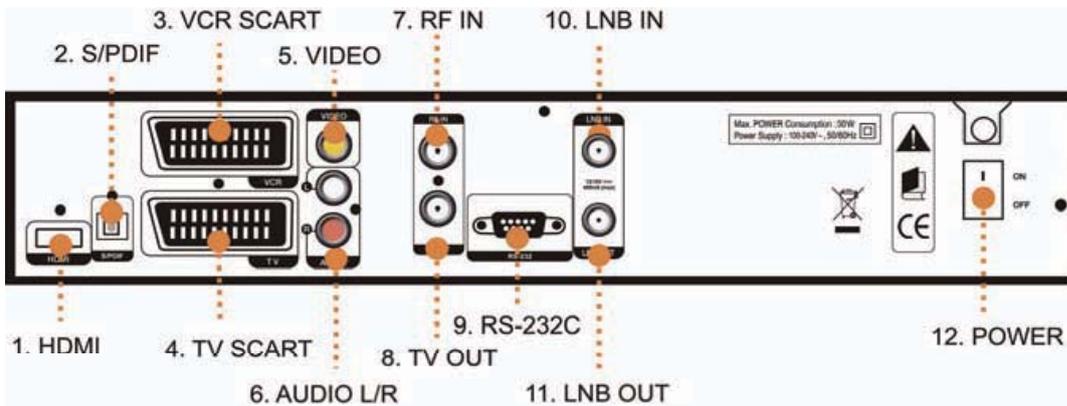
6. EXIT/ZOOM

To exit from the current menu or cancel the current operation in menu state. Zoom in/out the screen during watching a program.

7. CI Slot

Insert CI module into CI slot for conditional access..

1.3.2 Rear Panel



1. HDMI

Connect this connector to your TV via a HDMI cable.

2. S/PDIF

Connect S/PDIF to audio input of your amplifier with optical digital port via an optical cable.

3. VCR SCART(*Optional)

Connect this connector to your VCR via a SCART cable.

4. TV SCART(*Optional)

Connect this connector to your TV via a SCART cable.

5. VIDEO

Connect VIDEO to video input of your TV or VCR via a RCA cable.

6. AUDIO L/R

Connect AUDIO L/R to the matching Audio Inputs of your TV/VCR via a RCA cable.

7. RF-IN

Connect RF-IN to your TV antenna or cable TV system.

8. TV-OUT

Connect TV OUT to your TV antenna input.

9. RS-232C

Connect RS-232C to your PC via a serial cable to upgrade S 30.12CI software

10. LNB IN

Connect a coaxial cable of your LNB to this connector.

11. LNB OUT

Connect LNB OUT to another set-top box.

12. POWER

Turn the S 30.12CI H On/Off.

1.4 Names of Remote Control



MUTE

To mute the sound.

STANDBY

To switch the receiver On/Standby.

CH-/ +

To change the TV/radio channels Up/Down.

VOL -/+

To increase or decrease TV/Radio volume level or change the value of an item with preprogrammed values. The “▶” button can be used to show the sub-menu corresponding to the highlighted menu and the “◀” button can be used as a backspace to cancel the numerical input.

OK

To select a menu or confirm the user’s action and display the channel list during watching a program.

MENU

To display the menu OSD.

EXIT/ZOOM

To exit from the current menu or cancel the current operation in menu state. Zoom in/out the screen during watching a program.

Red(LANG, hereafter “Red”)

To display the provided audio language lists of the current channel.

Green(SOUND, hereafter “Green”)

To select the sound mode (stereo, left, or right.)

Yellow(PAUSE, hereafter “Yellow”)

To pause the TV screen.

Blue(RECALL, hereafter “Blue”)

To return to the previous chosen channel.

NUMERICAL (0~9) BUTTONS

To enter a TV/Radio channel number or characters.

Guide

To display the Electronic Program Guide. Press again to return to the normal mode.

FAV

You can register the favorite channels by pressing the "MENU" button, and then change the channel modes by pressing the "FAV" button.

Lower VOL/CH

To change the TV/Radio volume/channel without displaying the OSD.

PAGE

To change the TV/Radio channel lists by the page.

INFO

To display the information about the channel.

TV/RADIO

To switch the receiver TV/Radio

TEXT

To display the teletext information about the channel if applicable.

SUBT

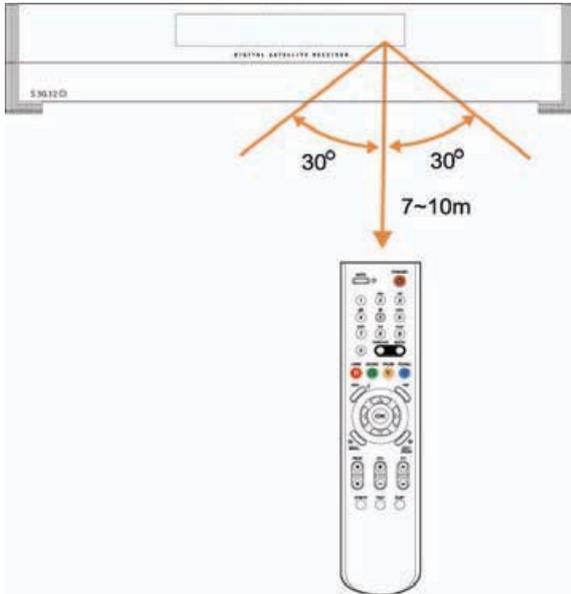
To display the provided subtitle language lists of the current channel.

SAT

To select the specific satellite.

 **Note** : Angle of remote control use

The remote control can be used at a distance of up to 7 to 10 meters, and at an angle of 30 degrees from the remote control led.



Chapter 2

Connections

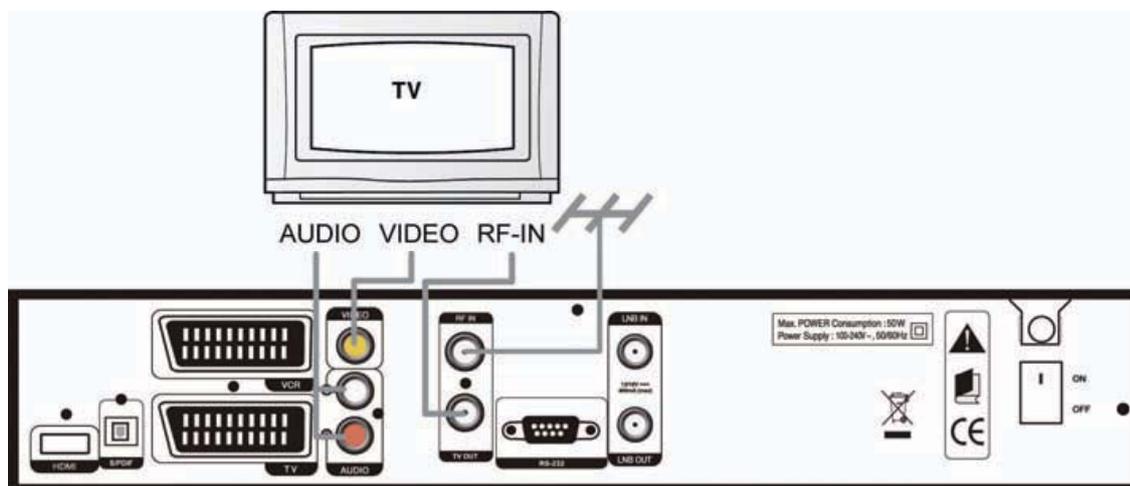
This chapter describes how to connect the receiver. Choose the most appropriate procedure depending on your environments.

 **Note** : If you encounter with any problem during connecting the receiver, please contact your local product distributor.

2.1 Connecting to TV & VCR

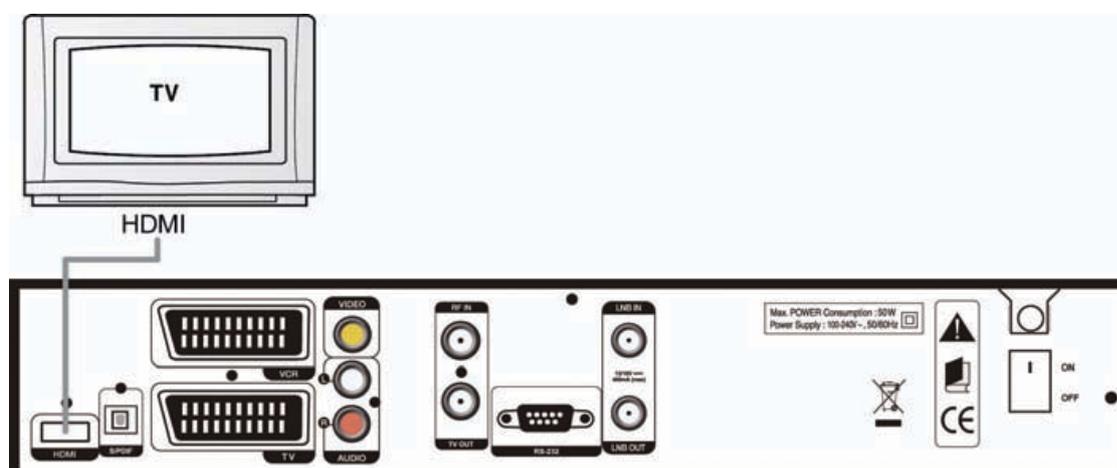
1. Connecting to TV with RF

- 1) Connect the TV antenna to the RF-IN of the receiver.
- 2) Connect the RF-IN of TV to the TV-OUT of the receiver.
- 3) Connect the Video and Audio of TV to the VIDEO and AUDIO L/R of the receiver.
- 4) Go to **2.2 Connecting to Dish**, and then connect your dish.



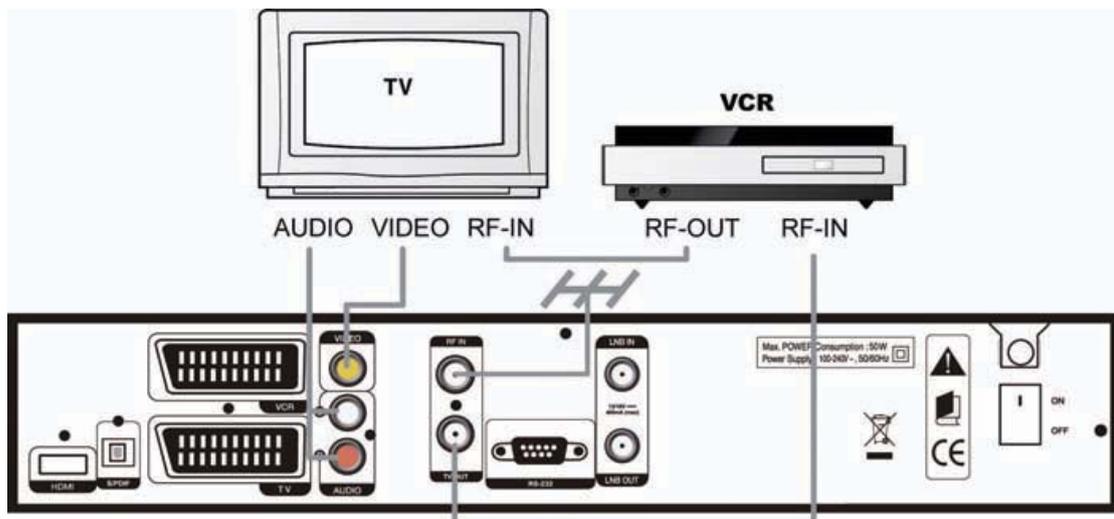
2. Connecting a TV with HDMI

- 1) Connect the TV HDMI port to the HDMI port of the product.



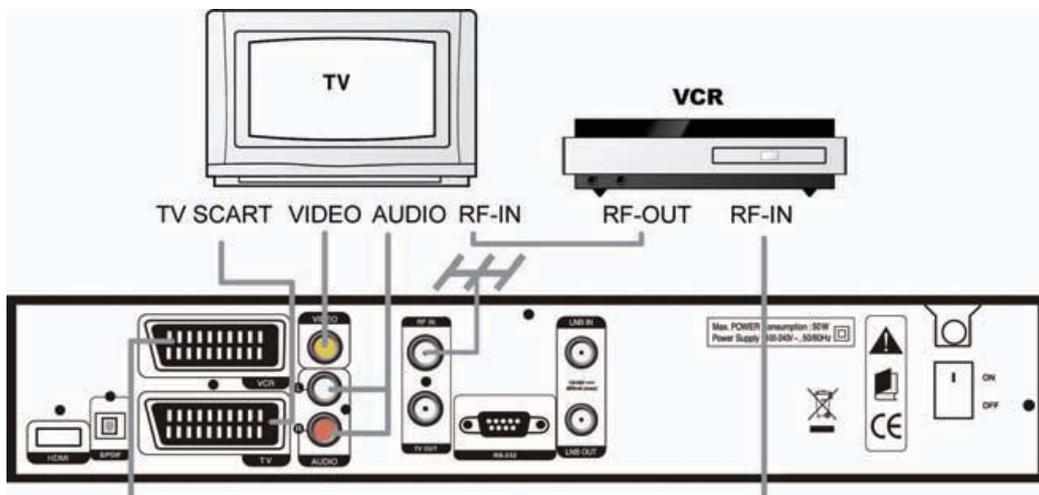
3. Connecting to TV and VCR with RF

- 1) Connect the TV antenna to the RF-IN of the receiver.
- 2) Connect the RF-IN of VCR to the RF-OUT of the receiver.
- 3) Connect the TV-OUT of VCR to the RF-IN of TV.
- 4) Connect the Video and Audio of TV to the VIDEO and AUDIO L/R of the receiver.
- 5) Go to section **2.2 Connecting to Dish**, and then connect your dish.



4. Connecting TV and VCR with Scart Cable

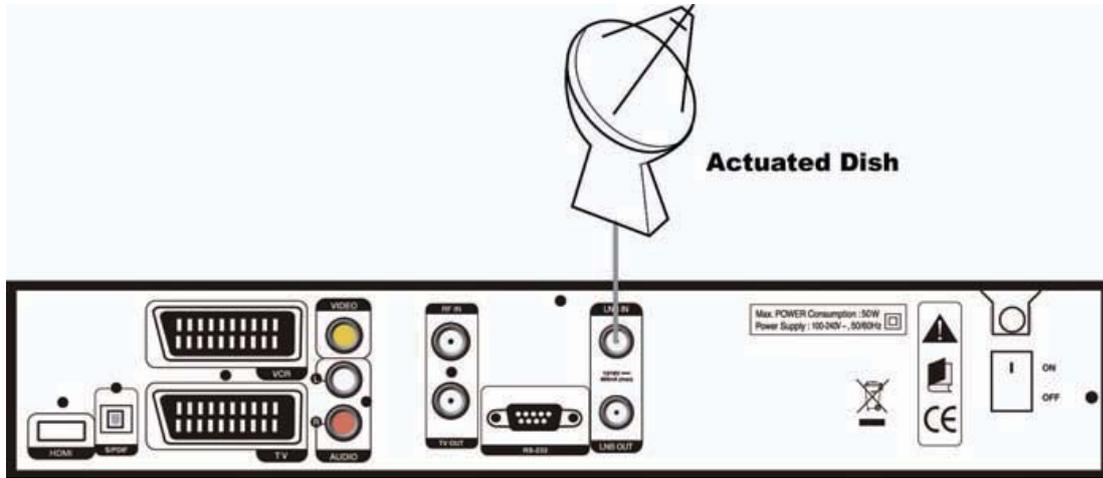
- 1) Connect the TV antenna to RF-IN of the receiver.
- 2) Connect the RF-IN of VCR to the RF-OUT of the receiver.
- 3) Connect the RF-OUT of VCR to the RF-IN of TV.
- 4) Connect the Video and Audio of TV to the VIDEO and AUDIO L/R of the receiver.
- 5) Connect the TV Scart of TV to TV SCART with fully featured Scart cable.
- 6) Go to section **2.2 Connecting to Dish**, and then connect your dish.



2.2 Connecting to Dish

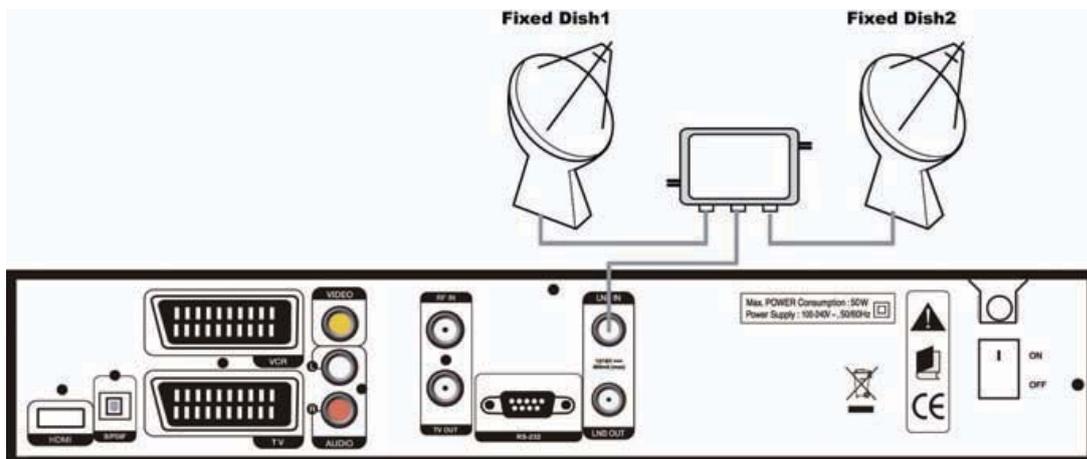
1. Dish

Connect the satellite antenna cable to the LNB IN.



2. Fixed Dishes Using DiSEqC

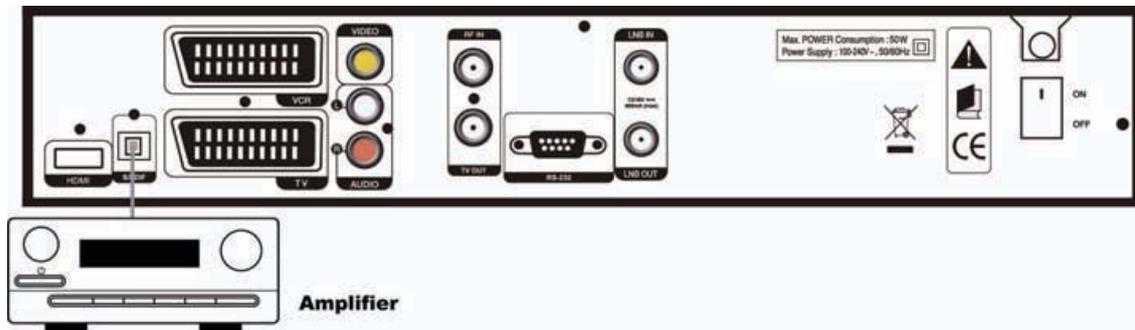
Connect the output of DiSEqC to the LNB IN of the receiver.



2.3 Connect to the Optical S/PDIF(Optional)

If you watch a program encoded by a Dolby Digital, you can enjoy the higher quality sound of the Dolby Digital audio.

Connect the optical S/PDIF to Dolby digital decoder or Digital television.

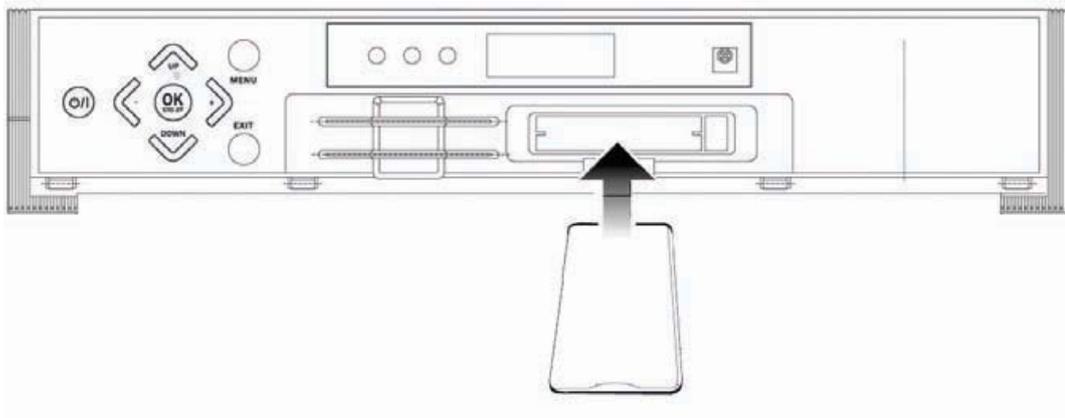


Note

S/PDIF is an optional port.

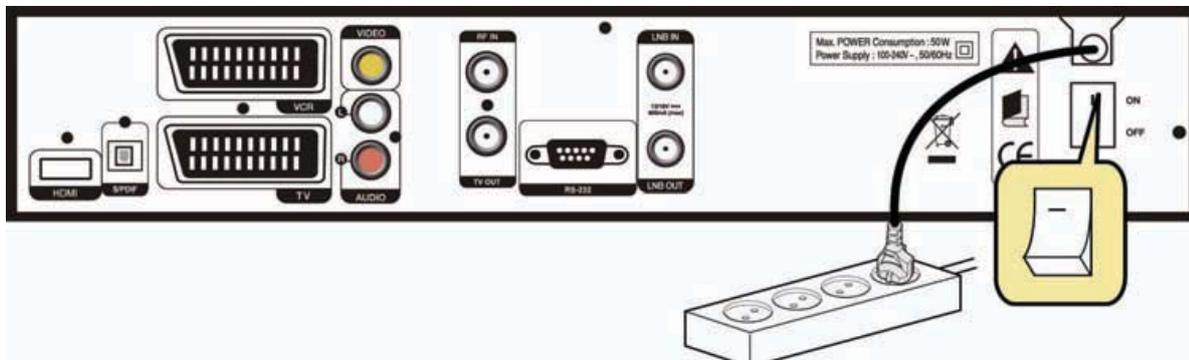
2.4 Connecting to CI Module

Insert CI module fully into CI slot for watching TV programs from Service Provider.



2.5 Starting Up

1. Connect the power cord of the receiver to a power outlet and press the “Power” button at the rear panel to turn the receiver on.



2. The first time you power up the receiver, it will display the initial screen, then some parameters for system configuration should be set. Refer to the following chapter for detailed information about the basic settings.

Chapter 3

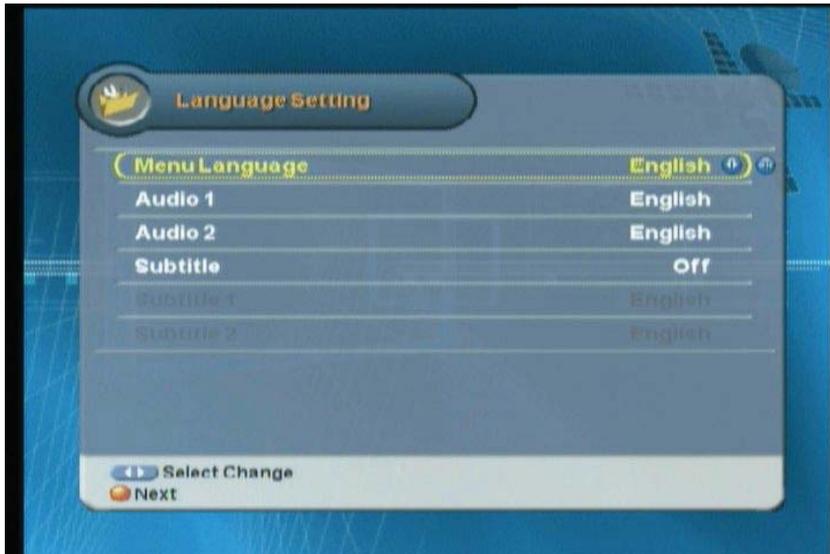
Basic Settings

If you use the receiver for the first time after connecting, you have to perform basic settings. Once the setup procedure is finished correctly, you can start watching TV or listening to radio.

Turn on your TV and the receiver. Follow the instruction on the screen.

3.1 Language

You can select Menu Language, Audio, and the Subtitled Language.



1. Select the appropriate language from the list using the “◀▶” button.
2. Press the “▲▼” buttons to move cursor into other language items.
3. Press the “Red” button to move to the next setting.

3.2 Time Setting

You can set the current time.



1. Select Time Mode between GMT Offset and Local time using the “◀▶” button.

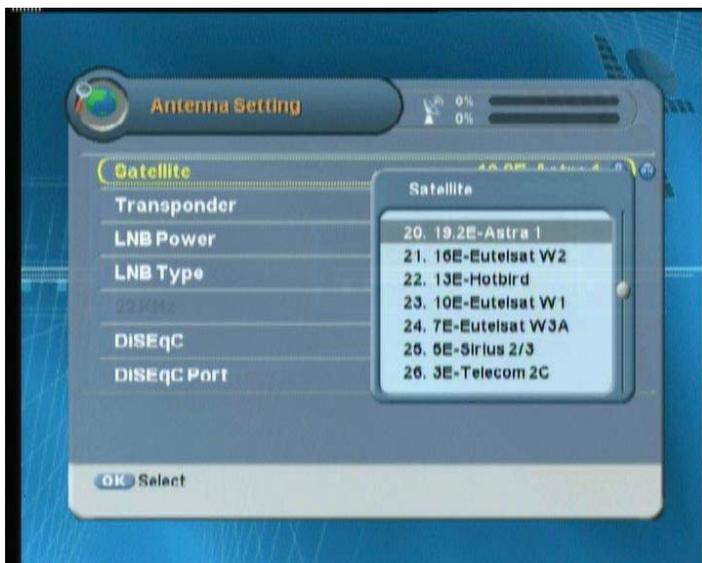
2. Select the appropriate GMT Offset value using the “◀▶” button or enter the local time using the “0~9” button.
3. Press the “Red” button to move to the next setting. Or press the “EXIT” button to return to the previous screen.

Warning!

Press the “EXIT” button to save the previous input information and exit the basic settings. If you exit the basic settings without fully completing the setting procedures, you may not watch any broadcasting normally.

3.3 Antenna Setting

You can set the antenna's properties to watch the program.



1. Select the Satellite name using the “◀▶” button.
2. Set transponder value for the satellite using the “◀▶” button.
3. Set the LNB power and frequency type using the “◀▶” button.

 **Note** : When using Universal LNB, select Universal for LNB type (9750/10600 (MHz)). Also, if you select Universal, 22KHz tone value is disabled.

4. Select 22kHz Tone using the “◀▶” button. When using 22kHz tone switch, select ‘On’. Otherwise, select ‘Off’.
5. Select DiSEqC item using the “◀▶” button.
6. When you complete the setting, press the “Red” button to search the channel.

7. When completing Channel Search, the following message will appear. Move cursor to the “OK” button and press the “OK” button to save the changes.



 **Note**

If you encounter with any problems or have any questions when setting up the antenna, please contact your local product installer or distributor.

Now you have completed all steps required for watching TV or listening to radio. For detailed information about how to use the receiver, refer to **Chapter 4**.

Chapter 4

Operations

[Basic Functions]

4.1 Changing Channel

There are several ways to change the channel.



- Press the “▲▼” button on the remote control to access the channels sequentially.
- Enter your desired channel number using the “0~9” buttons directly.
- Press the “OK” button to display TV channel list, and then select the desired channel.
- You can move to the previous channel by pressing the “Blue” button.

 **Note** : During setting up the Menu(ex, Guide, Edit channel, etc), you can also change the current channel using the lower “CH ▲▼” button without OSD.

4.2 Adjusting Volume

You can change the volume level of the current channel.

- Press the “◀▶” button to change the audio volume level.
- Press the “MUTE” button to turn the sound off temporarily.

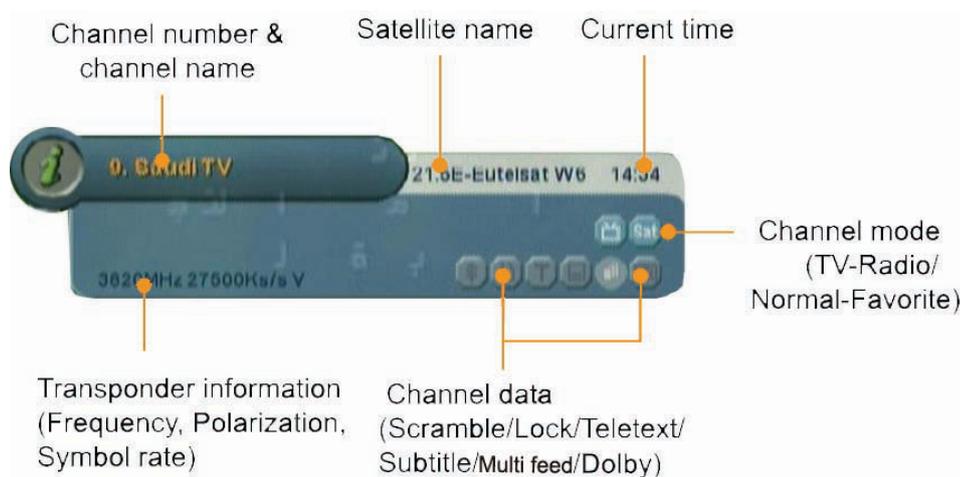
 **Note** : During setting up the Menu(ex, Guide, Edit channel, etc), you can also change the volume level using the lower “VOL ▲▼” button without OSD.

4.3 Viewing Program Information

You can view the program information window by pressing the “INFO” button while watching a program. Press the “EXIT” or “INFO” button to hide the program information.

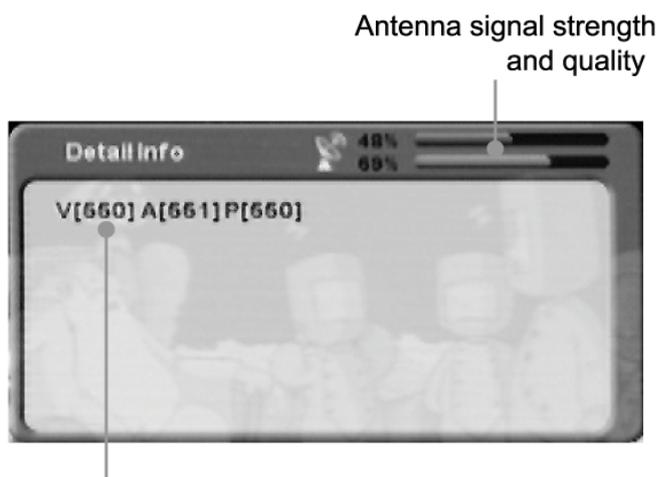
1. Basic Information

The Basic Information is displayed as following on the screen.



2. Detailed Information

You can see detailed information about the current program. Press the “INFO” button to view detailed information during the basic information is displayed. Press the “EXIT” or “INFO” button to hide the program information.



EPG information: Displayed only when there is any Video PID/Audio PID/PCR PID information.



Note : If there is no available EPG information, it is not displayed. Refer to **Chapter 5.1.4 Advanced Search** for more information.

4.4 Switching TV and Radio

Press the “TV/RADIO” button to switch TV/Radio.



4.5 Freezing Screen/Zooming Screen

You can zoom in or out the current screen.

1. Press the “Yellow” button to pause the current program.
2. Press the “EXIT/ZOOM” button to select zooming mode.



3. Press the “Red” button to zoom in the screen or the “Green” button to zoom out the screen. Or press the “◀▶▲▼” button to change the position of the frame.
4. Press the “OK” button to zoom in or out the current screen.
5. Press the “EXIT” button to return to the normal screen size. Press the “Yellow” button again to continue the program.

4.6 Changing Subtitle Language

If the current program provides Subtitle information, you can select the subtitle language.

1. Press the “SUBT” button to display the subtitle language list.



2. Select the desired subtitle language using the “▲▼” button, and press the “OK” button. The subtitle language will be displayed at the bottom of the screen.



3. Select 'OFF' from the subtitle language list not to display subtitle from the screen.

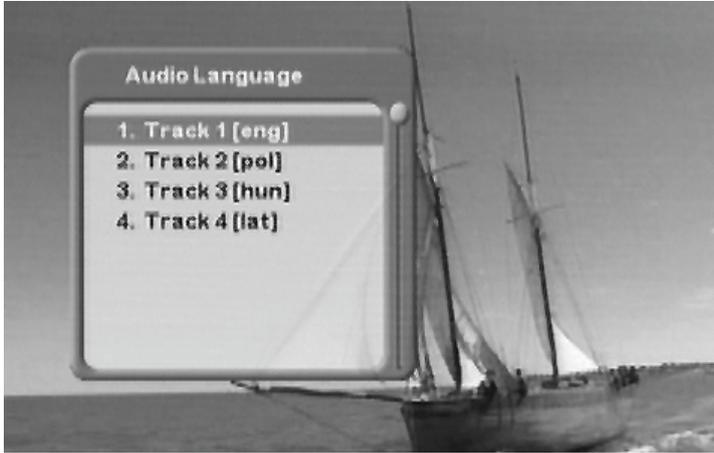


Note : You can select a default subtitle language by pressing the “MENU” button and selecting the Setup–Language Setting–Subtitle menu in order. Refer to **Chapter 5.3.1 Language Settings** for more information.

4.7 Changing Audio Language

If the current program provides multiple audio languages, you can select the desired language.

1. Press the “Red” button to display the audio language list.



2. Select the desired audio language using the “▲▼” button, and press the “OK” button. The audio language will be changed immediately.



Note : You can select a default audio language by pressing the “MENU” button and selecting the Setup–Language Setting– Audio menu in order. Refer to **Chapter 5.3.1 Language Settings** for more information.

4.8 Selecting Audio Output Direction

You can select the direction of audio output such as left, right, or stereo.

Press the “Green” button to toggle the direction of audio output among left, right, or stereo.



Note

- If the program supports Dolby AC-3 sound, you cannot select the direction of audio output.
- You can select Dolby by pressing the “MENU” button and selecting the Setup–Output Setting– S/PDIFOutput menu in order.

[Advanced Functions].....

4.9 Managing Channel List

4.9.1 Displaying Channel List

You can see various channel lists and change the channels from the channel list more conveniently.

1. Press the “OK” button while watching a program to display the selected channel list.



- RED: Sorts the channel lists by alphabetic order.
- Green: Sorts the channel lists by FTA/CI order.
- Yellow: Displays the multi-channel window.
- Blue: HDMI Color adjust.

2. Move to the desired channel using the “▲▼” button and press the “OK” button to change the channel.

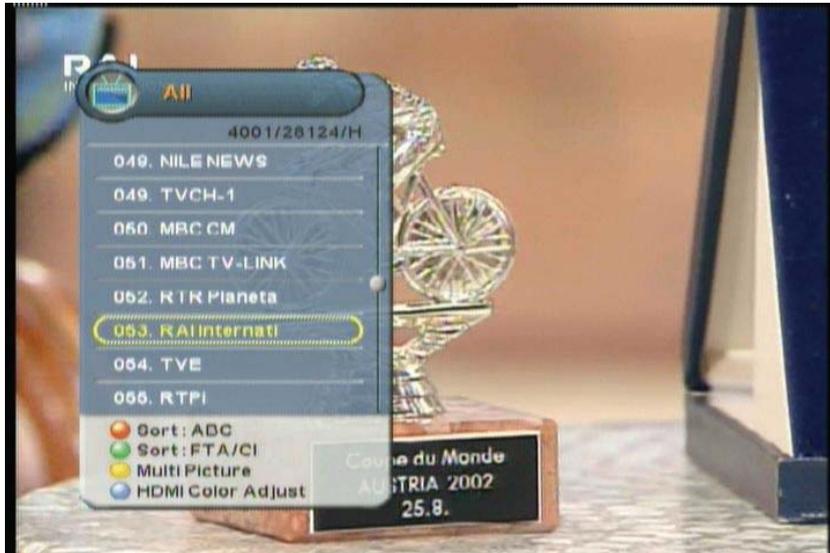
Note

Press the “FAV” button to switch among the channel modes such as ‘ALL, FAV1~4, etc’. Refer to **Chapter 4.10 Managing Favorite Channel Lists** for more information.

4.9.2 Searching Channel

You can search the specific channel among various channel lists more conveniently.

1. Press the “OK” button while watching a program to display the selected channel list.
2. Press the “Red” button to sort the channel lists by alphabetic order.



Note : Press the “Green” button to sort the channel lists by FTA/CI order.

3. Press the “2(abc)~9(wxyz)” button to search the channel lists which have same initial. For example, press the “2(abc)” button, and then see the channel lists which start with ‘a’.

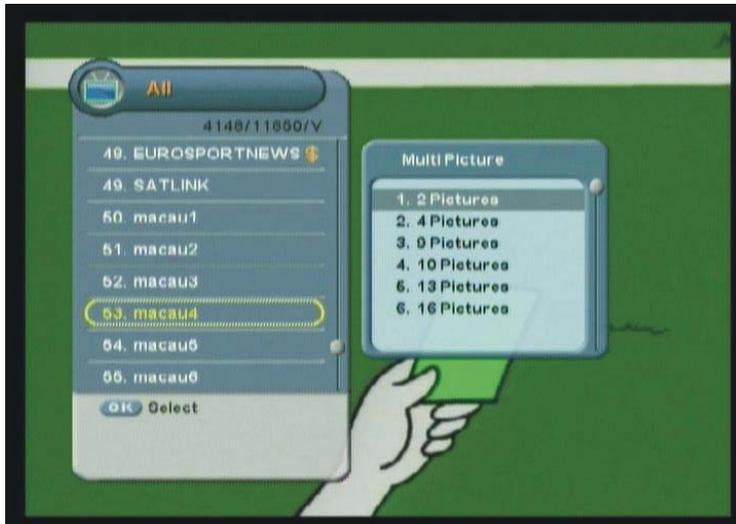


Note : Press the “PAGE ▲▼” button to move to the previous/next page (about 8 channels).

4.9.3 Viewing Multi-Channels Window

You can display multi-channels window and select a channel to watch.

1. Press the “OK” button while watching a program to display the selected channel list.
2. Press the “Yellow” button to display the number of the multi-channel among 2, 4, 9, or 16.



3. Move to the desired number of window using the “▲▼” button and press the “OK” button to display multi-channels.



4. Move to the desired channel using the “◀▶” button and press the “OK” button to watch the program.
5. Press the “EXIT” button anytime to return to one channel mode.

4.9.4 HDMI Color Adjust

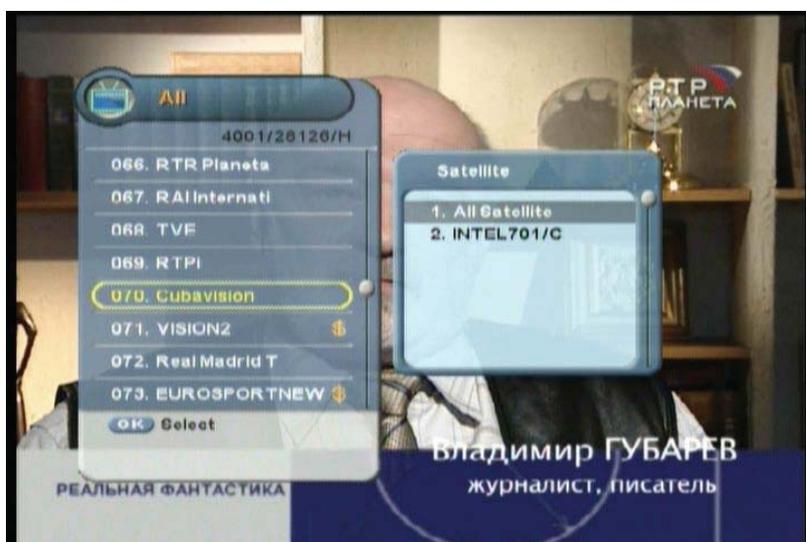
1. Press the “OK” button while watching a program to display the selected channel list.
2. Press the “Blue” button while the channel list is displayed to view the Hdmi Color Adjust.



4.9.5 Changing Satellite Group

You can change the satellite group.

1. Press the “SAT” button while the channel list is displayed to view the satellite group lists.



2. Select the desired channel group using the “▲▼” button to display its sub-groups.
3. Press the “EXIT” button to return to the previous screen.

4.9.6 Editing Channels

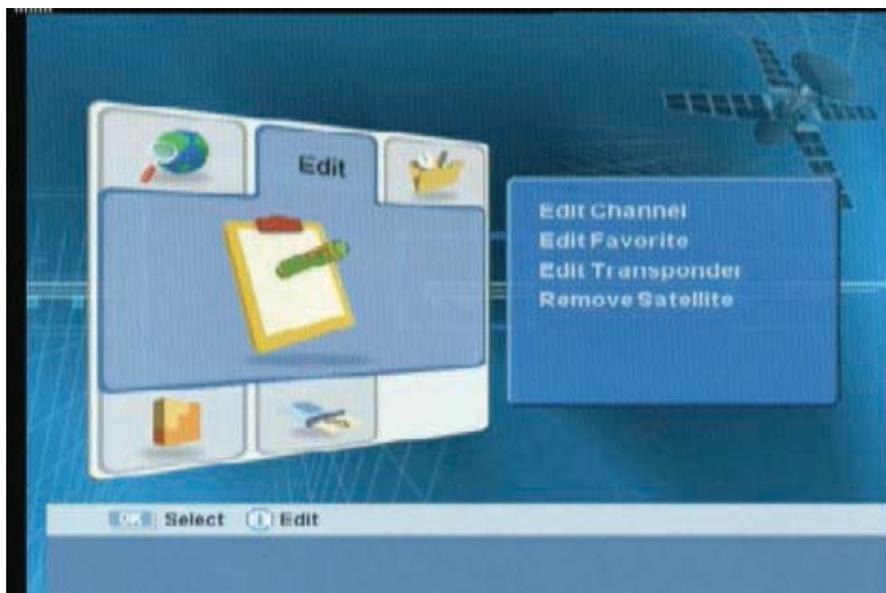
You can edit (such as lock, delete, move, and rename) all channels or each channel.



Note

Press the “EXIT” or “MENU” button to save the changes and return to the previous menu.

1. Press the “MENU” button.
2. ① Move to the Edit menu using the “◀▶” button, and press the “OK” button. ② Select the Edit Channel menu using the “OK” button. ③ Enter your password using the “0~9” buttons. The default password is 0000.



3. You can lock, delete, move, and rename all channels or each channel. If you want to delete one or more channels, select the desired channel(s) and press the “Green” button.
4. Whenever you press the “MENU” or “EXIT” button after completing channel deletion, the following message will appear. Move cursor to the “OK” button and press the “OK” button to save the changes.



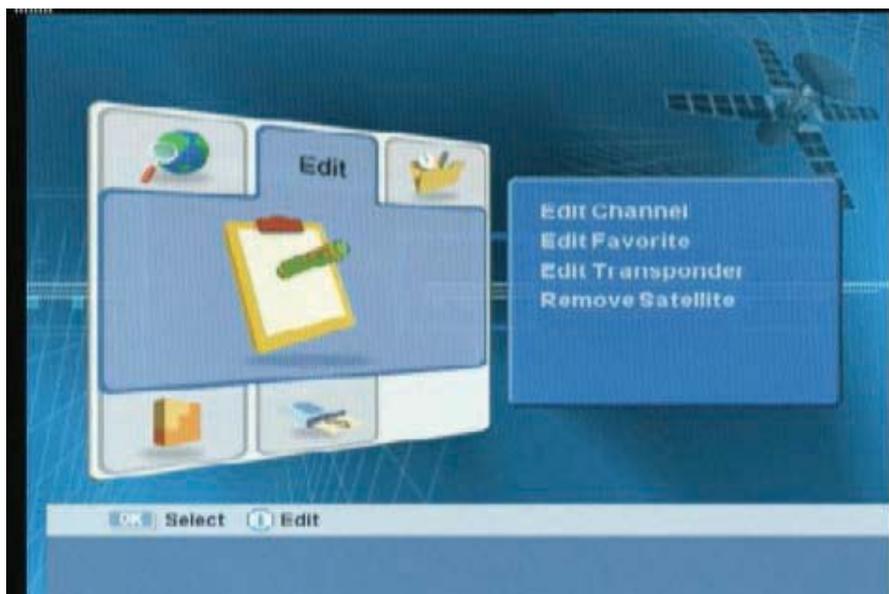
 **Note**

- INFO: Selects a satellite list group.
- Red : Locks/unlocks channel(s).
- Green: Deletes channel(s).
- Yellow: Moves channel(s) to the desired location.
- Blue: Renames a channel name.

4.10 Managing Favorite Channel Lists

You can create and edit favorite channel list(s) or group(s).

1. Press the “MENU” button.
2. ① Move to the Edit menu using the “◀▶” button, and press the “OK” button. ② Select the Edit Favorite menu using the “OK” button. ③ Enter your password using the “0~9” buttons. The default password is 0000.



3. Press the “FAV” button to create new favorite channel group.



 **Note** : FAV1~4 are default name. You can also rename them for your convenience.

4. You can edit favorite channel list(s) or group(s). If you want to add channel(s), select the desired channel, and then press the “OK” button.



- ► : Switches Right column.
- **FAV** : Changes the Favorite mode on the Right column.
- **OK** : Adds channels.
- **RED** : Views the satellite lists.

- ◀ : Switches Left column.
- **FAV** : Changes the Favorite mode on the left column.
- **OK** : Deletes one or more channel.
- **RED** : Locks/unlocks one or more channel(s).
- **Green**: Renames a channel group name.
- **Yellow**: Moves channel(s) to the desired location.
- **Blue**: Renames a channel group

5. Whenever you press the “MENU” or “EXIT” button after editing favorite channel, the confirmation message will appear. Move cursor to the “OK” button and press the “OK” button to save the changes.

4.11 Changing Channel Mode

You can change the channel mode by group.

1. Whenever you press the “FAV” button, the channel mode changes sequentially such as ALL→FAV1→FAV2→...→ALL.



2. Press the “OK” button to display All Channel or Favorite Channel lists according to the current channel mode.

4.12 Viewing Program Guide

The Program Guide shows program information about each channel-by date and time.

1. Press the “GUIDE” button.



Move to other desired channel using the “▲▼” button. If there are multiple channels, use the “PAGE▲▼” button to move to channels by page.

2. Press the “Red” button to view weekly schedule for the selected channel.

4.13 Viewing Teletext

Teletext Service is text data service from Service Provider. It is available only when the program provides teletext data service.

1. Press the “TEXT” button. Teletext Service Data is displayed. Select the desired language using the “▲▼” button, and press the “OK” button.



2. Select the page using the “0~9” buttons(100~899).
3. Press the “EXIT” button to the previous screen.

4.14 Changing STB/TV

This function is used for receiving a signal through the RF modulator.

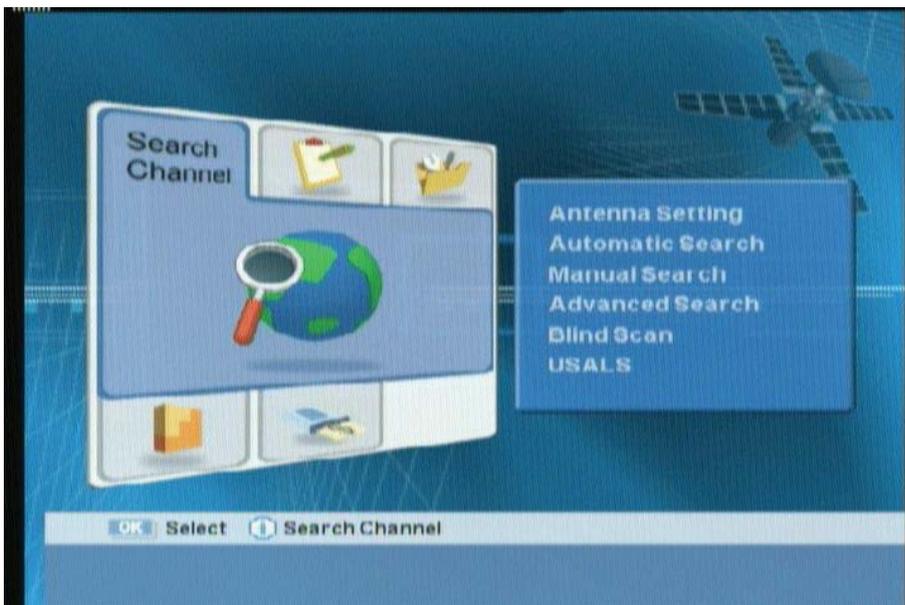
Press the “STB/TV” button. The signal reception path will change to RF modulator.

Chapter 5

Settings

This chapter describes how to search for channels, edit channel, setup for language(OSD, Timer, etc.), and show tools.

1. Press the “MENU” button to display the Menu OSD.
2. Move to the appropriate Menu using the “◀▶” button, and then press the “OK” button to select the menu.
3. Move to the appropriate Menu using the “▲▼” button, and then press the “OK” button to select the sub-menu.
4. If the password input window appears, enter your password using the “0~9” buttons. The default password is 0000.

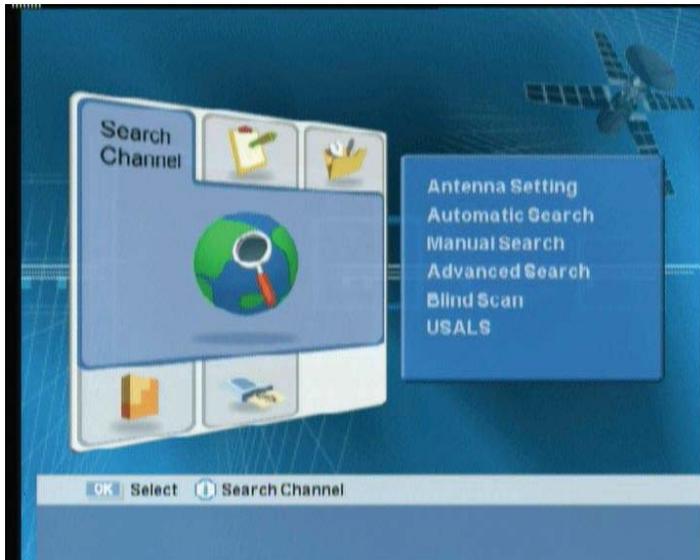


Note

- Press the “EXIT” button to return to the previous screen.
- Press the “MENU” button to exit the setting menu.
- The menu program shows buttons that can be used at every stage of setup.

5.1 Search Channel

You can set the antenna's properties and search channel.

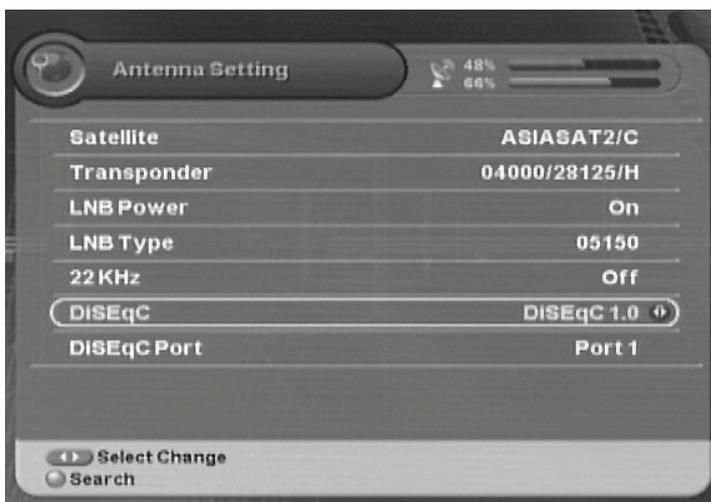


- **Antenna Setting:** Sets the Antenna properties.
- **Automatic Search:** Searches the satellite automatically.
- **Manual Search:** Searches the channel manually.
- **Advanced Search:** Finds the specific channel.
- **Blind Scan:** Searches the TP information.
- **USALS:** Sets Antenna angle.

5.1.1 Antenna Setting

You can set the antenna's properties such as satellite, transponder, LNB, DiSEqC, and etc.

- ① Move to the Search Channel menu using the “◀▶” button, and press the “OK” button.
- ② Move to the Antenna Setting sub-menu using the “▲▼” button, and press the “OK” button.
- ③ Enter your password using the “0~9” buttons. The default password is 0000.



- **LNB Power :** On, Off
- **22KHz :** On, Off
- **DiSEqC:** Off, 1.0, 1.1, Motor, USALS

1. Select the Satellite, the transponder, the LNB Power and Type value using the “◀▶” button.
2. Select 22kHz Tone using the “◀▶” button. When using 22kHz tone switch, select ‘On’. Otherwise, select ‘Off’.
3. Select DiSEqC item using the “◀▶” button.

Note : When using Universal LNB, select Universal for LNB Type (9750/10600 MHz). Also, if you select Universal, 22KHz tone value is disabled.

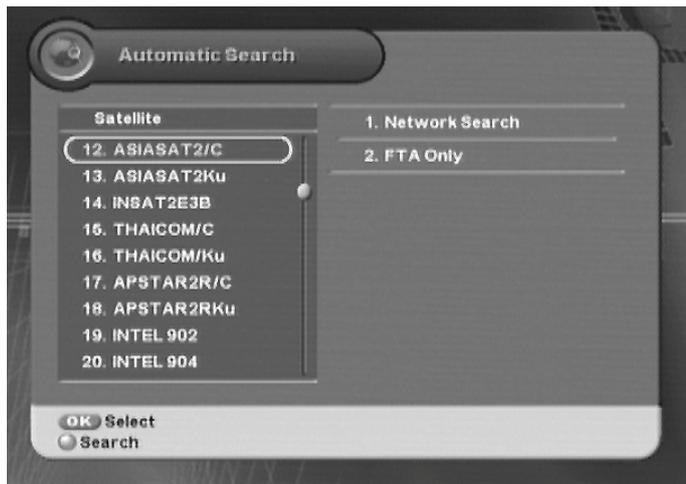
4. When you complete the setting, press the “Red” button to search the channel.
5. When Channel Search is finished, the following message will appear. Move cursor to the “OK” button and press the “OK” button to save the changes.



5.1.2 Automatic Search

After antenna setting, you can automatically search for satellites.

- ① Move to the Search Channel menu using the “◀▶” button, and press the “OK” button.
- ② Move to the Automatic Search sub-menu using the “▲▼” button, and press the “OK” button.
- ③ Enter your password using the “0~9” buttons. The default password is 0000.



- ▲▼: Moves to other satellite.
- ◀▶: Moves to other column.
- OK: Selects the satellite
- Red: Starts to search the satellite.
- MENU or EXIT: Exits the menu.

1. Select the desired satellite using the “OK” button.
2. Move to the right column using “▶” button, and then select the method using the “OK” button.
3. Press the “Red” button to search satellite.



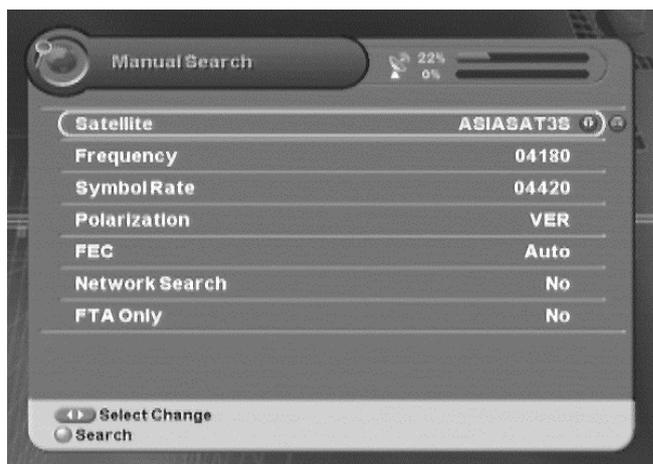
Note : Please wait for finishing the Automatic Search. If you want to stop the Automatic Search, press the “EXIT” button anytime. If Automatic Search is stopped or finished, the-searched information is automatically saved.

- When Satellite Search is finished, the confirmation message will appear. Move cursor to the “OK” button and press the “OK” button to save the changes.

5.1.3 Manual Search

After antenna setting, you can search channel(s) from the selected satellite if you know the transponder information.

- Move to the Search Channel menu using the “◀▶” button, and press the “OK” button.
- Move to the Manual Search sub-menu using the “▲▼” button, and press the “OK” button.
- Enter your password using the “0~9” buttons. The default password is 0000.



- **Frequency, symbol rate** : You can edit the value using the “0~9” button.
- **Polarization**: Vertical, Horizontal
- **FEC**: Auto, 1/2, 2/3, 3/4, 5/6, 7/8
- **Network Search & FTA only**: Yes, No

- Select the desired satellite using the “◀▶” button.
- Enter the Frequency & Symbol Rate value using the “0~9” button.
- Select the Polarization, FEC, Network Search, and FTA Only value using the “◀▶” button.
- When you complete the setting, press the “Red” button to search the channel.
- When Channel Search is finished, the confirmation message will appear. Move cursor to the “OK” button and press the “OK” button to save the changes.

5.1.4 Advanced Search

You can find the desired channel by entering Video, Audio and PCR PID directly.

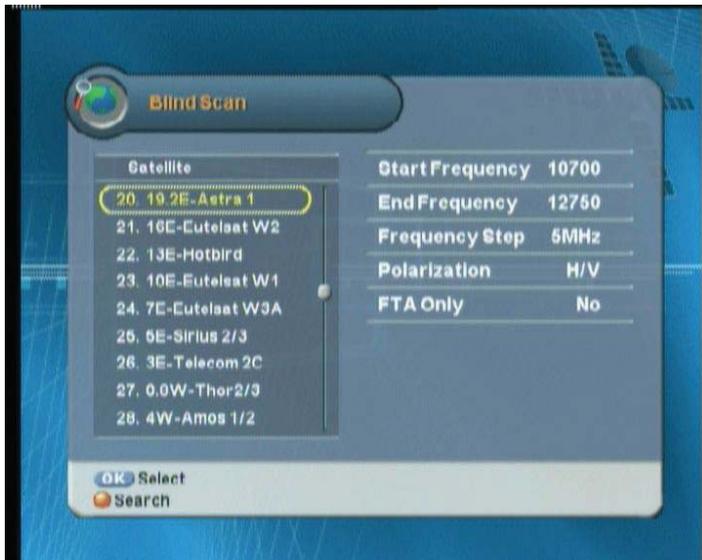
- ① Move to the Search Channel menu using the “◀▶” button, and press the “OK” button.
- ② Move to the Advanced Search sub-menu using the “▲▼” button, and press the “OK” button.
- ③ Enter your password using the “0~9” buttons. The default password is 0000.



Video, Audio, PCR PID : You can enter the value using the “0~9” button. Refer to **chapter 4.3 Viewing Program Information** for getting the values.

1. Select the desired satellite using the “◀▶” button.
2. Enter Video, Audio and PCR PID directly using the “0~9” button.
3. When you complete the entering PID values, press the “Red” button to search the channel.

5.1.5 Blind Scan



1. Blind Scan: in this search mode you can search for channels even if you don't know TP information. You can search the whole frequency range or only a part of it.
2. Frequency Step: you can adjust the searching frequency step.
3. Polarization: select horizontal or vertical.
4. FTA Only: select to search FTA channels only or all.

1. When completing Channel Search, a message will appear. Move cursor to the “OK” button and press the “OK” button to save the changes.

5.1.6 USALS

You can set the angle of the antenna by entering the values directly.

- ① Move to the Search Channel menu using the “◀▶” button, and press the “OK” button.
- ② Move to the USALS sub-menu using the “▲▼” button, and press the “OK” button.
- ③ Enter your password using the “0~9” buttons. The default password is 0000.



Longitude, Latitude : You can enter the value using the “0~9” button.

1. Enter Longitude and Latitude value directly using the “0~9” button.
2. When the entering angle values are finished, the confirmation message will appear. Move cursor to the “OK” button and press the “OK” button to save the changes.

5.2 Edit Channel

You can edit channel(s), favorite channel(s), transponder and remove satellite.



- **Edit Channel:** Locks/deletes/moves/renames channel.
- **Edit Favorite:** Creates/edits favorite channel.
- **Edit Transponder:** Creates/edits transponder.
- **Remove Satellite:** Removes satellite.

5.2.1 Edit Channel

You can edit (such as lock, delete, move, and rename) all channels or each channel. Refer to **Chapter 4.9.5 Editing Channels** for more information.

5.2.2 Edit Favorite

You can create and edit favorite channel list(s) or group(s). Refer to **Chapter 4.10 Managing Favorite Channel Lists** for more information.

5.2.3 Edit Transponder

You can create and edit transponder.

1. ① Move to the Edit menu using the “◀▶” button, and press the “OK” button. ② Move to the Edit Transponder sub-menu using the “▲▼” button, and press the “OK” button. ③ Enter your password using the “0~9” buttons. The default password is 0000.
2. Press the “Green” button to create new transponder.
3. You can edit new transponder data.
4. If you want to add transponder(s), select the desired transponder, and then press the “OK” button.
5. Whenever you press the “MENU” or “EXIT” button after editing transponder, the confirmation message will appear. Move cursor to the “OK” button and press the “OK” button to save the changes.

5.2.4 Remove Satellite

You can remove the channel(s) for the only added satellite.

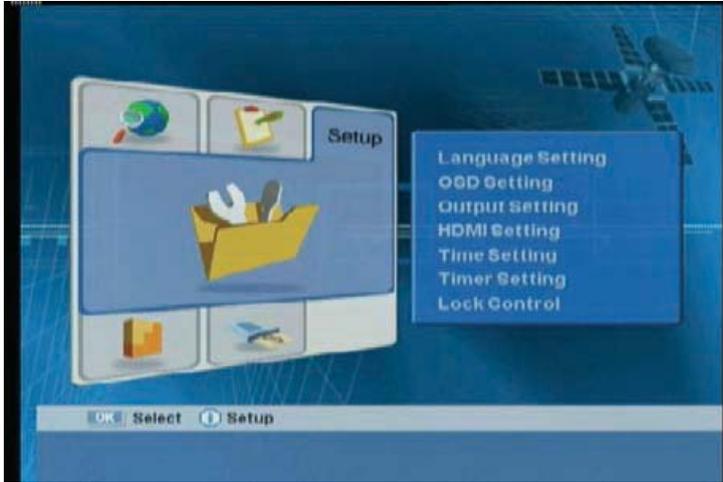
- ① Move to the Edit menu using the “◀▶” button, and press the “OK” button. ② Move to the Remove Satellite sub-menu using the “▲▼” button, and press the “OK” button. ③ Enter your password using the “0~9” buttons. The default password is 0000.
2. Press the “OK” button to select the satellite.



3. Press the “Red” button to delete the channel(s) for the satellite.
4. Whenever you press the “MENU” or “EXIT” button after deleting the channel(s), the confirmation message will appear. Move cursor to the “OK” button and press the “OK” button to save the changes.

5.3 Setup

You can setup additional function such as Language Setting, OSD, Output Setting, Time & Timer Setting, and Lock Control.



- **Language:** Selects the language.
- **OSD Setting:** Sets the OSD.
- **Output Setting:** Sets the connected devices.
- **HDMI Setting :** Sets the HDMI output.
- **Time & Timer Setting:** Sets the time and timer.
- **Lock Control:** Sets the system lock.

① Move to the Setup menu using the “◀▶” button, and press the “OK” button. ② Move to the desired sub-menu using the “▲▼” button, and press the “OK” button.

5.3.1 Language Setting

You can select the Menu Language, Audio, and Subtitled Language.

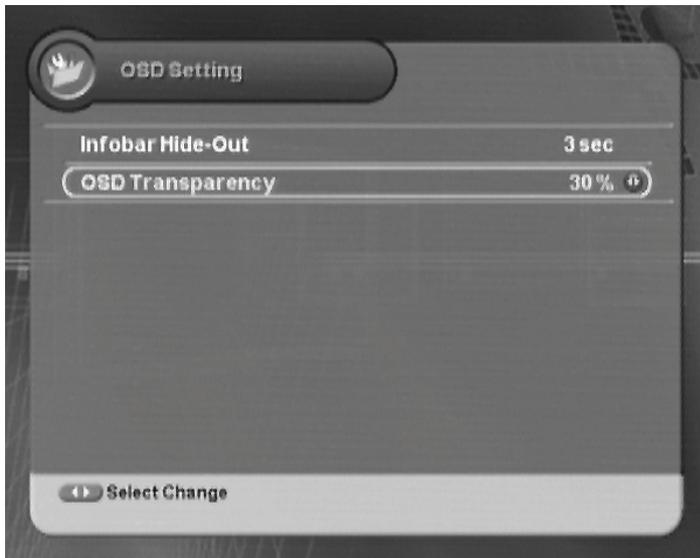


- **Menu Language :** Selects the desired menu language.
- **Audio :** Selects the desired audio language.
- **Subtitle :** Selects the subtitle On or Off.

① Move to the desired item using the “▲▼” button. ② Select the desired value using the “◀▶” button. ③ Exit the menu using “MENU” or “EXIT” button.

5.3.2 OSD Setting

You can set the interval for the program information bar hide-out or the OSD transparency.

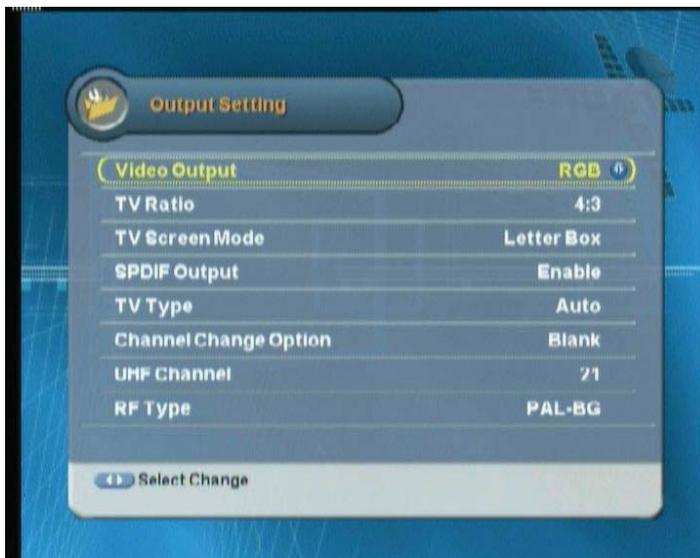


- **Infobar Hide-Out** : Selects the infobar hide out time.
- **OSD Transparency** : Sets the transparency of On Screen Display.

① Move to the desired item using the “▲▼” button. ② Select the desired value using the “◀▶” button. ③ Exit the menu using “MENU” or “EXIT” button.

5.3.3 Output Setting

You can set the connected devices such as TV, Dolby AC-3 decoder, and etc.



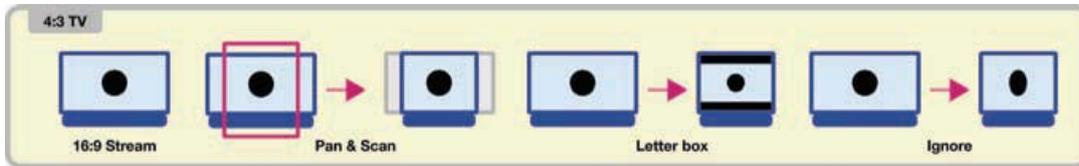
- **Video Output** : Selects one between RGB and CVBS
- **TV Ratio** : Selects one among 14:3, 16:9
- **TV Screen Mode** : Selects one among Letter box., Pan scan, Ignore.
- **SPDIF Output** : Selects one between and Disable.
- **TV Type** : Selects one among Auto/PAL/NTSC.
- **Channel Change Option** : Selects one among Blank/Freeze/Fade in-out.
- **UHF Channel** : Select an UHF channel (CH21~CH69).

① Move to the desired item using the “▲▼” button. ② Select the desired value using the “◀▶” button. ③ Exit the menu using “MENU” or “EXIT” button.

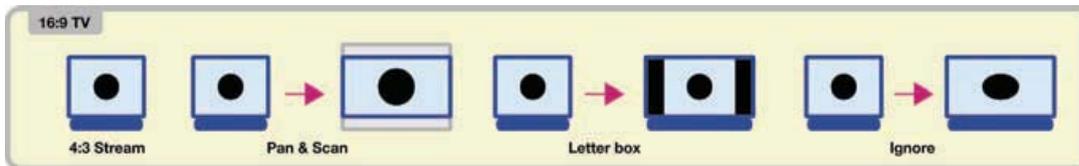


Note : TV, Aspect Ratio

TV – 4: 3 (You can adjust 16:9 stream to 4:3 TV, In case 4:3 stream no change).

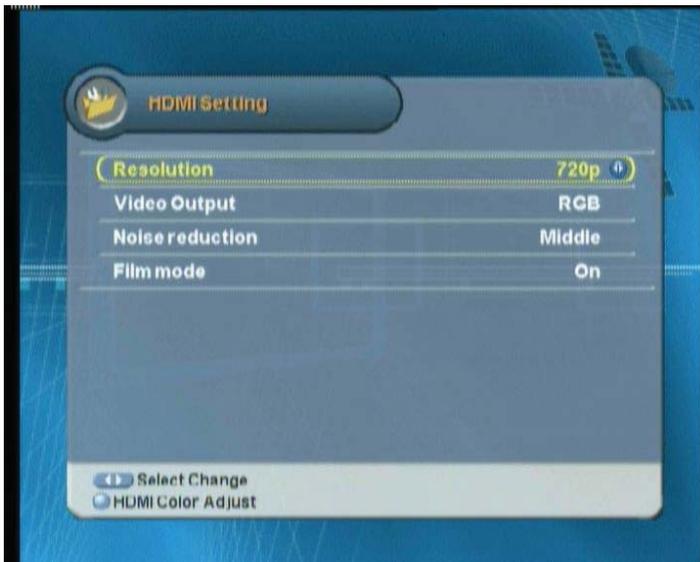


TV – 16: 9 (You can adjust 4:3 stream to 16:9 TV, In case 16:9 stream no change).



5.3.4 HDMI Setting

You can set the HDMI outputs. such as resolution, video output, and etc.



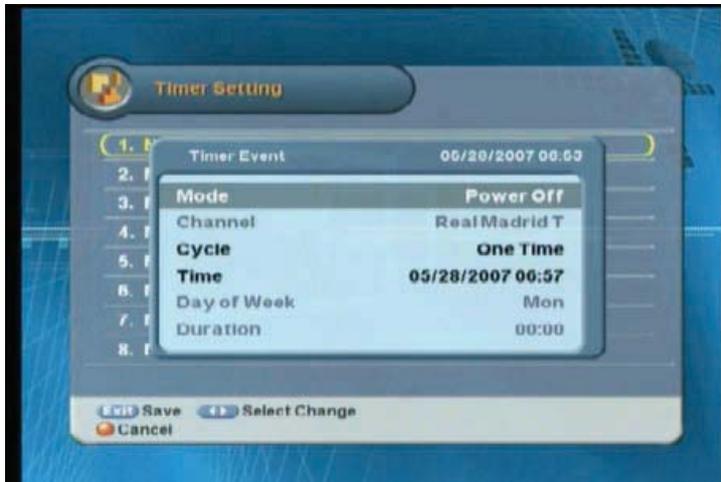
- ◀▶: Selects the desired value.
- ▲▼: Moves to other items.
- 0~9: Enters the value
- MENU: Exits the menu.
- EXIT: Returns to the previous screen.

5.3.5 Time Setting

You can set the current time. Refer to **Chapter 3.2 Time Setting** for more information.

5.3.6 Timer Setting

You can set the timer.



- **Mode** : Selects one mode between Power Off and Power On.
- **Channel** : Selects the desired channel.
- **Cycle** : Selects one among One Time/Every Day/Every Week.
- **Time** : Selects the time.
- **Day of Week** : If Every Week is selected in the Cycle menu, you can select the menu.
- **Duration** : Sets the running time.

① Move to the desired item using the “▲▼” button. ② Select the desired value using the “◀▶” button. ③ Exit the menu using “MENU” or “EXIT” button.

5.3.7 Lock Control

You can prevent wrong usage by using the Install/Menu/IRD Lock and Password.



- **Install Lock/Menu Lock/IRD Lock** : Selects one between Lock and Unlock.
- **Current Password** : Changes the existing password.
- **New Password** : Enters new password.
- **Confirm Password** : Enters the new password to confirm.

① Move to the desired item using the “▲▼” button. ② Select the desired value using the “◀▶” button. ③ Exit the menu using “MENU” or “EXIT” button.

5.4 Tools

You can view the receiver information, restore to the default setting, upgrade the program, and etc.

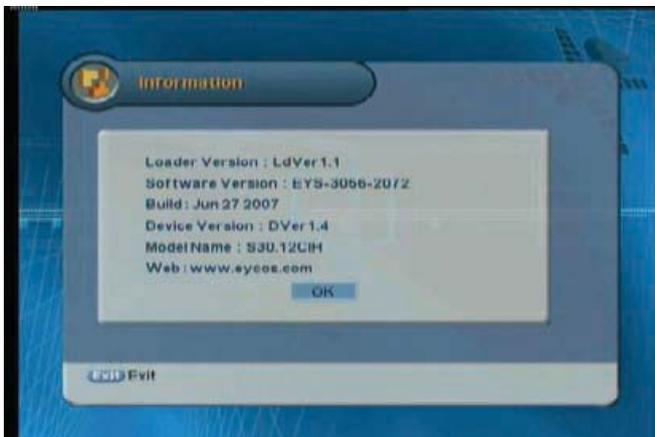


- **Information:** Shows the receiver version.
- **Factory Setting:** Restores to the default setting.
- **Software Transfer:** Upgrades the program.
- **Firmware upgrade:** The latest s/w can be downloaded by on-air.
- **Utility:** Provides the convenient utilities such as calendar and calculator.
- **Game:** Provides the games.

① Move to the Tools menu using the “◀▶” button, and press the “OK” button. ② Move to the desired sub-menu using the “▲▼” button, and press the “OK” button.

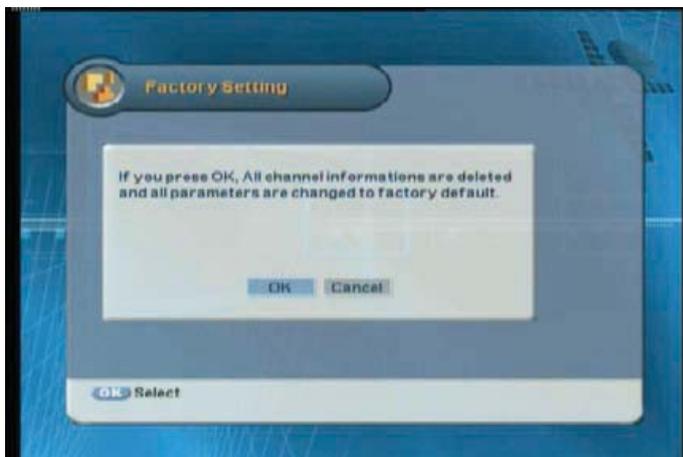
5.4.1 Information

You can view system information.



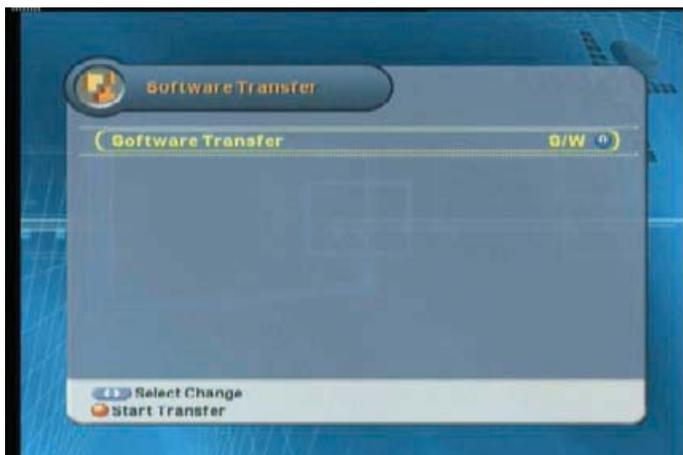
5.4.2 Factory Setting

Factory Setting restores the receiver to the default settings.



5.4.3 Software Transfer

You can update software from menu.



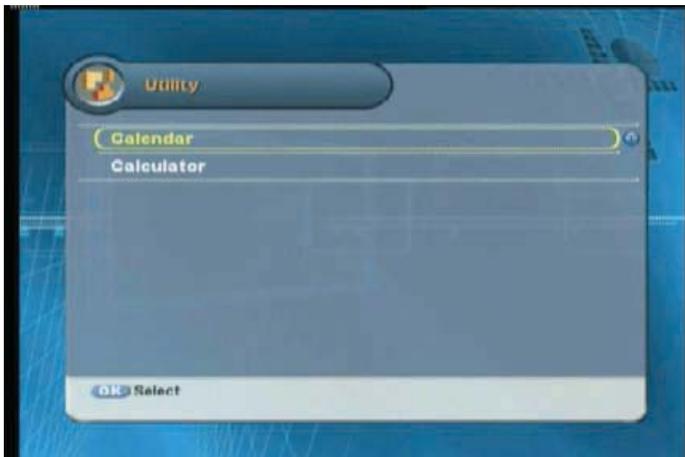
5.4.4 Firmware Upgrade

The latest s/w can be downloaded by on-air.



5.4.5 Utility

This product provides calendar and calculator.



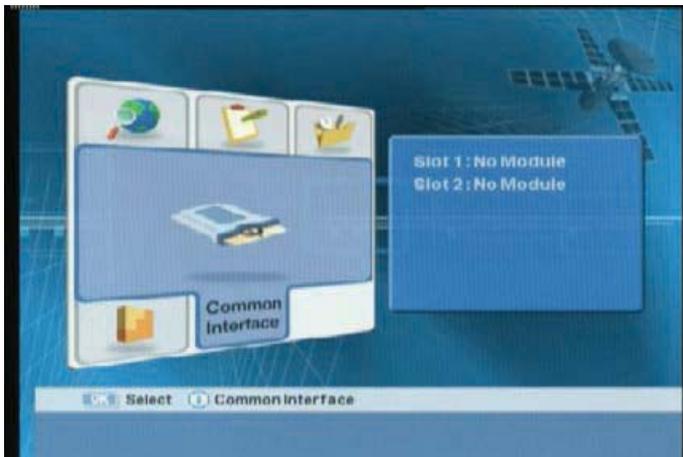
5.4.6 Game

This product provides games such as Tetris, Block Out and Sokoban.



5.5 Common Interface

You can view the information about each slot.



If you want to watch TV programs from a Service Provider you must use a CI module with a Smart Card. If no CI module is used, you can only watch FREE TO AIR TV programs.

Chapter 6

Appendix

6.1 Trouble Shooting

If the receiver does not work properly after checking it, please contact the dealer. Don't open the receiver. It may result in a dangerous electric shock and will invalidate your warranty

Problem	Possible Causes	What to do
The display on front panel does not light up.	The main power cable is not connected.	Check that the main power cable is plugged in to the wall outlet.
No picture, no sound.	Wrong connection of the audio/video output of the receiver to TV.	Connect the audio/video output of the receiver to TV correctly.
	TV power off.	Turn TV on.
	The receiver is standby mode.	Change the mode to the normal mode.
	No or Bad signal message appears.	Connect the antenna cable correctly.
The remote control unit (RCU) does not working.	No Batteries.	Change the batteries (both).
	The RCU is incorrectly aimed.	Aim the RCU properly to the receiver.
	The receiver is standby mode.	Change the mode to the normal mode.
Bad picture or noisy sound in the TV or radio mode.	Bad reception of the signal.	Make sure the dish and LNB are clean and correctly adjusted.

6.2 Specification

1. Tuner & Demodulator

RF input Connector	F-Type(Female), IEC 169-24
RF Frequency Range	950Mhz to 2150 MHz
Input Impedance	75 Ω Unbalanced
Input Signal Level	-65 dBm to -25 dBm
IF Frequency	ZERO IF
LNB POWER	Vertical : 13.0Vdc Horizontal : 18.0Vdc Current : 500mA(MAX) Overload Protection
LNB Control	DiSEqC 1.0, 1.1, 1.2, USALS
Band Switch Control	22KHz Tone
22KHz Tone	Frequency : 22 \pm 2KHz Amplitude : 0.6 \pm 0.2V
Demodulation	QPSK
Symbol Rate	2 to 45Ms/s

2. AV Decoding

Transport Stream	MPEG-2 ISO/IEC 13818 Transport Stream Specification
Profile Level	MPEG-2 MP@ML
Input Rate	Max, 60 Mbit/s
Aspect Ratio	4:3, 16:9 (Letterbox)
Video Resolution	720 x 576(PAL), 720 X 480(NTSC)
Audio Decoding	MPEG Layer I & II
Audio Mode	Single Channel / Dual Channel Joint Stereo / Stereo
Sampling Rate	32, 44.1 & 48 KHz
Graphic Engine	2 – OSD Plane 1-Background Plane / 256 Full Color

3. Main system

CPU	uPD61120(EMMA2L)
Flash Memory	2 Mbytes
Graphic & System DDR SDRAM	16 Mbytes(CL2.5)

4. AV Data In/Out

TV SCART	Video Output (CVBS, RGB) Audio Output
VCR SCART	Video Output (CVBS) Video Input (CVBS, RGB) Audio In/Output
RCA VIDEO	Video Output (CVBS)
AUDIO R/L	RCA/Cinch Volume & Mute Control
RS-232C	Transfer Rate 115.2Kbps 9 Pin D-sub Type
HDMI Output	RGB/YUV/720X576P, 1280X720P, 1920X1080i
DIGITAL AUDIO(* Optional)	SPDIF / COAXIAL

5. RF-Modulator(*Optional)

1) American Standard

RF-Connector	F Type(Female)
Output Channel	CH3,CH4
TV Standard	NTSC-M
Switch Position	CH3

2) European Standard

RF-Connector	75Ω, IEC 169-2, Male/Female
Frequency	470 to 860MHz
Output Channel	CH21~69 for the Demodulator
TV Standard	PAL B/G, I, D/K, NTSC-M
Preset Channel	CH21(PAL-BG) Software Changeable by Menu

6. Power Supply

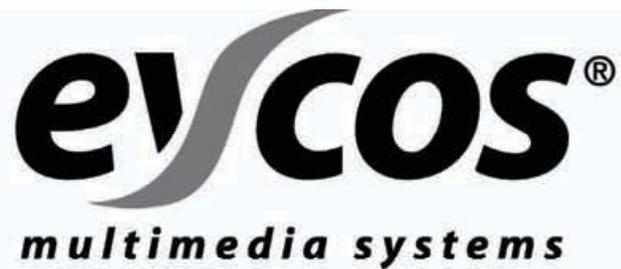
Input Voltage	100 to 240 Vac, 50Hz/60Hz
Type	SMPS
Power Consumption	Max 30W

7. Environment

Operating Temperature	+5°C ~ +50°C
Storage Temperature	-40°C ~ +65°C

8. Physical Specification

Size(W X D X H)	360 x 230 x 63 mm
Weight(Net)	2.0kg



EUROPE SERVICE

Service und Support

Sie können im Falle von Fragen und Problemen auf verschiedenen Wegen mit uns in Kontakt treten.

Unser Supportforum:

Sie finden unser Supportforum im Internet unter folgender URL: www.eycos.de

Hier finden Sie aktuelle Software, Tools, Handbücher und Foren die sich mit den einzelnen Geräten beschäftigen.

Österreich

SATFORCE
Kommunikationstechnik GmbH
Mayrwiesstr. 11
A-5300 Hallwang

Deutschland

SATFORCE
Kommunikationstechnik GmbH
Troppauer Strasse 6
D-83395 Freilassing