

## CONTENTS

|                                     |    |
|-------------------------------------|----|
| Safety .....                        | 2  |
| Introduction .....                  | 3  |
| * SMC (Smart Media Card)            |    |
| Accessories .....                   | 5  |
| Installation .....                  | 6  |
| Remote Control Unit ( R C U ) ..... | 8  |
| Front/Top/Rear panel .....          | 9  |
| Connection .....                    | 11 |
| Menu operations .....               |    |
| System set up .....                 | 13 |
| OSD set up .....                    | 17 |
| Search .....                        | 18 |
| TV list .....                       | 26 |
| Radio list .....                    | 28 |
| System Info .....                   | 28 |
| Other Functions .....               | 29 |
| Trouble shooting ( Q&A ) .....      | 31 |
| Specification .....                 | 32 |



## SAFETY

All safety instruction should be read before the product is operated.

This section provides instructions for installing and operating this Receiver.

- **Movement** : Please power off this Receiver before moving.  
Watch for falling leg from Receiver, because it may cause a hazard to people.  
Please refer to the page of installation of leg.(p.6)
- **Location** : Put the Receiver on an even place because an uneven place may cause the Receiver to be damaged. Place the Receiver in a well ventilated environment away from direct rays of the sun, lightning and humidity.  
Never stand the Receiver on soft furnishings (like sofa) or carpets.
- **Overloading** : Do not overload a wall outlet and adapters as these may cause a fire or an electric shock.  
When you do not use the Receiver for a long time, please power off and disconnect cables from a wall outlet.
- **Cleaning** : Disconnect the Receiver from a wall outlet before cleaning.  
Use a light damp cloth to clean the exterior of the Receiver and no solvents.  
Do not touch a power cord with a wet hand as it may cause an electric shock.  
Never open the cover of the Receiver as it's very dangerous to touch the inside of the Receiver due to possible electrical shock.
- **Ventilation** : Do not block the ventilation slots of the Receiver with small objects or dust.  
Be careful not to fall any liquid in the ventilation slots of the Receiver.
- **SMC** : Keep liquids away from SMC and Be careful to be easy to break.  
Do not use other SMC not recommended by us.  
Be sure that the power is off whenever SMC is inserted or not.

**Notice** Top door of Receiver can be come out, but it can be fixed into the Receiver freely.

#### Interchangeable Multi OSD On Screen Display

NAEMO MEGA provides you a variety of selection of OSDs.

Just select one of them and enjoy it.

The number and use of OSD will be provided in various ways by user's needs.

-----> Page 17

#### Easy and convenient SMC upgrade from S/W

New version of System Software will be upgraded to your Receiver via SMC easily.

If SMC has a new version of S/W, do < system load > to your Receiver.

----> Page 15

#### Channel/System Data backup

Your personal channel/system data can be saved in SMC by using

< Channel data back-up / System data back-up > in page 15.

----> Page 15

#### System Restore mode

If there's some unexpected phenomenon and your all personal data is gone.

Take the following steps. (There are 2 cases.)

1. If SMC is in your receiver.
  - a. Wait until the SMC icon(  ) stop blinking. (Takes about 1 minute.)
  - b. After finish the restoration, TV will be on automatically.
2. If SMC is not in your receiver.
  - a. Unplug the power cord.
  - b. Insert the SMC in your receiver.
  - c. Plug back the power cord.
  - d. Then do step ( 1 - a, b )

Your programmed personal data will be saved safely.

#### Pre-programmed channel data

Your favorite satellite & channel data in your region is already in your Receiver.

## ◆ GENERAL FEATURES

- MPEG-2 Digital & Fully DVB Compliant
- 4000 Channels programmable
- 10 OSD languages  
(English, German, French, Italian, Spanish, Arabic, Turkish, Russian, Persian, Polish)
- Multi OSDs via SMC
- Sub Title (Closed Captioning) Supported
- Teletext Supported (OSD & VBI Insertion)
- EPG (Electronic Program Guide) for On Screen Channel Information
- Various Channel Searching Mode by Auto, Multi SAT, NIT, TP, PID and FTA only
- S-PDIF AC3 Dolby Digital Audio Output
- Program Upgrade Function via SMC
- DISEQC 1.0 & 1.2 Compatible

## ACCESSORIES

Please ensure that the following items are included with the receiver.

1 Remote control Unit



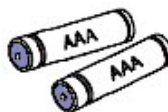
2 User's manual



3 Smart Media Card



4 Batteries(AAA type)



## INSTALLATION

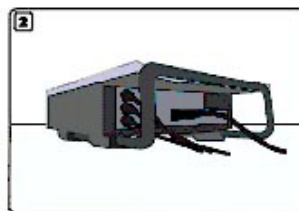
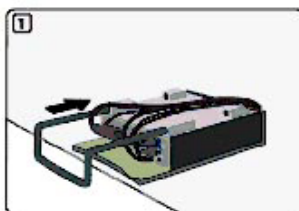
At first, turn the Receiver over on a flat place, pull out the leg from the Receiver and then connect cables to the Receiver.

**Notice** Please turn the Receiver over on a soft cloth like carpet, otherwise the front of Receiver can be scratched.

### ◆ Horizontal Style

Arrange the cables connected upward the back of the Receiver and put the leg in the main body of Receiver like the below **1** picture.

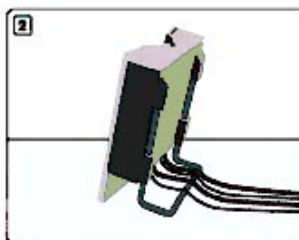
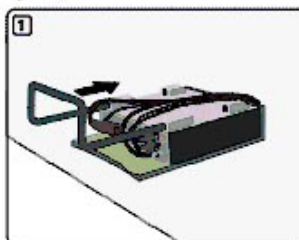
Finally, let the front panel of the Receiver upward, then the cables are arranged neatly like the below **2** picture.



### ◆ Standing Style

Arrange the cables connected upward the back of Receiver and put the leg in the main body of Receiver like the below **1** picture.

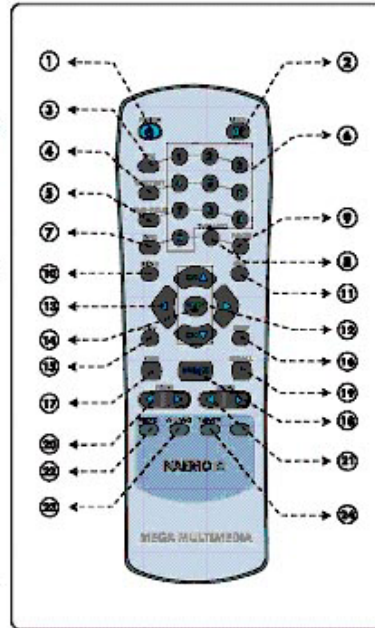
Finally, let the Receiver stand up rightly, then the cables are arranged neatly like the below **2** picture.



**Notice** Arrange the cables not to be held under the leg. It may cause electrical shock.

# REMOTE CONTROL UNIT (RCU)

- ① **Power**  
Press to switch between operation and stand by mode.
- ② **Mute**  
Press to temporarily cut off the sound.
- ③ **EPG**  
Electronic Programme Guide button displays the TV/Radio programme guide.
- ④ **Teletext**  
Press to have Teletext service when the service supports Teletext.
- ⑤ **Sub-Title**  
When the current broadcasting programme provides subtitle, press the Subtitle button on RCU to see the current subtitle language list.
- ⑥ **Numeric Buttons (0~9)**  
Press to select a service, enter your PIN code or numeric on the menu.
- ⑦ **INFO**  
Press to display the channel information box on the screen.
- ⑧ **TV/RADIO**  
Press to switch between TV and Radio modes.
- ⑨ **PAUSE**  
Press to halt the picture on the screen.
- ⑩ **MENU**  
Press to display the Main Menu on the screen or save the changed data.
- ⑪ **ESC**  
Press to return to the previous menu and screen.
- ⑫ **CH (up/down)**  
Press to move the highlighted bar for selecting options on the menus and channels up/down.
- ⑬ **VOL (up/down)**  
Press to move Volume up/down and the highlighted bar for selecting options on the menus.
- ⑭ **Select/OK**  
Press to display the service list.  
This button is used to select the item on the menu.
- ⑮ **FAV**  
Press to display the Favorite channel list.
- ⑯ **Sort**  
Press to sort channel in certain ways.
- ⑰ **Edit**  
Press to set the channel edit mode in the list and on the screen.
- ⑱ **Browse**  
Press to display all satellite & channels which are searched.

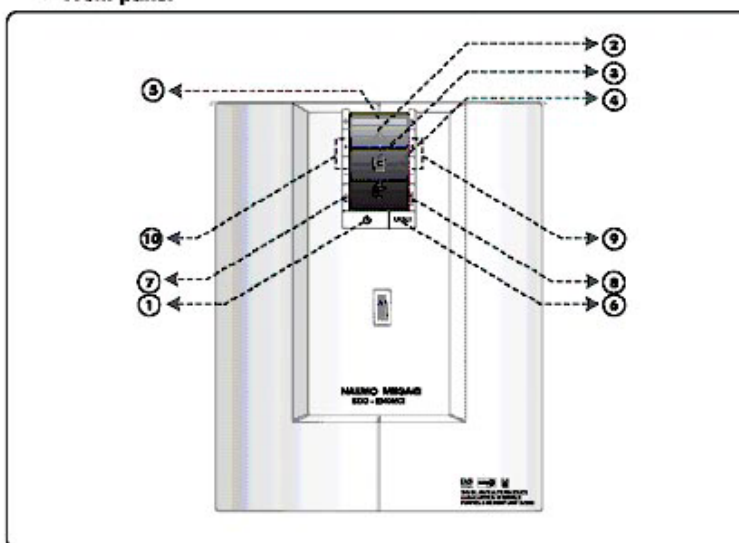


BEGINNING

- ⑲ **Recall**  
Press to select the service that was previously viewed.
- ⑲ **Page (up/down)**  
Press to move the current page up/down in the list and on the screen.
- ⑲ **Scan (up/down)**  
Press to scan channels up/down.
- ⑲ **Audio**  
press to select left, right, mono and stereo Audio.
- ⑲ **A-Lang (Audio-Language)**  
Press to display the A-lang list for the current service.
- ⑲ **TV/VCR**  
Press to switch between TV and VCR modes.

## FRONT/TOP/REAR PANEL

## + Front panel



## ① POWER (⏻)

To switch on the receiver in Standby mode or in operation mode.

## ② Indication light for (⏻) Standby/Power mode

The icon lights on in Standby mode and off in operation mode.

## ③ SMC (⏻)

The icon lights on when SMC is working.

## ④ Indication light for IR Sensor (⏻)

The icon flickers whenever you're using RCU.

## ⑤ IR Sensor

To receive a infrared signal from Remote Control Unit.

## ⑥ Menu

To open the main menu and save & exit in sub menu.

## ⑦ OK

To activate a highlighted item, go to next level on hypertext menu or confirm the user's action.

## ⑧ ESC

To exit from the current menu or cancel the current progressing operation.

## ⑨ VOL (+ / -)

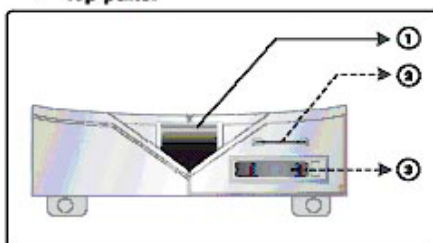
To adjust the volume level or select the value of preprogrammed item.

## ⑩ CH (+ / -)

To change channel or to go other menu.

Front/Top/Rear panel

# ◆ Top panel

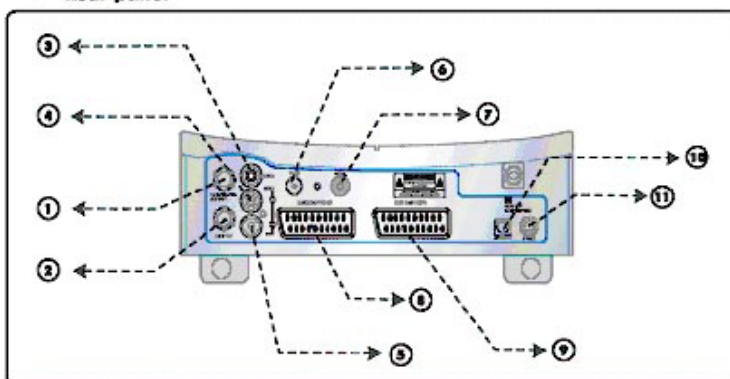


① IR Sensor

② SMC Slot  
Insert Smart Media Card

③ PCMCIA SLOT  
Insert PCMCIA (CAM)

# ◆ Rear panel



① LNB IN  
Connect the satellite antenna cable

② Loop out  
Use it to connect another receiver

③ VIDEO OUTPUT  
Video output

④ AUDIO L (WHITE)  
Left Audio output

⑤ AUDIO R (RED)  
Right Audio output

⑥ TV OUT  
Connect to RF IN of TV with cable.

⑦ ANT IN  
Connect a TV antenna

⑧ VCR SCART  
Connect a VCR SCART

⑨ TV SCART  
Connect a TV SCART

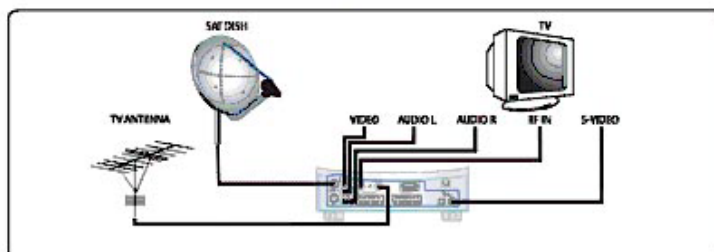
⑩ S/DIF OUT  
Connect a optical cable to the digital audio AMP

⑪ S-VIDEO  
Connect a TV S-VIDEO

Front/Top/Rear panel

## CONNECTION

### 1 Connect Receiver to TV and Antenna



#### 1 - 1 Connect Receiver to TV with AV connectors

Connect one end (3 connectors) of the CINCH Cable to the AUDIO-RIGHT(red), AUDIO-LEFT(white) and the VIDEO (yellow) socket on the Receiver and the other end(3 connectors) to the AUDIO-RIGHT Input(red), AUDIO- LEFT Input(white) and the VIDEO Input (yellow)socket on the TV or HI-FI.

#### 1 - 2 Connect Receiver to TV Antenna with Antenna cable

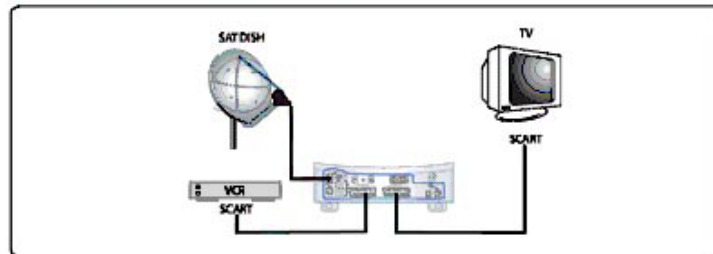
Connect the end of the antenna cable to TV(terrestrial) antenna and the other end of it to the ANT IN socket on the Receiver.

#### 1 - 3 Connect Receiver to TV with RF cable

Connect the end of the RF Cable to ANT IN(RF IN) of the TV and the other end of it to the TV OUT socket of the Receiver .

#### 1 - 4 Connect Receiver to TV with S-VIDEO Cable

Connect the end of S-VIDEO Cable to the TV S-VIDEO socket on the Receiver and the other end of it to a S-VIDEO socket on the TV.

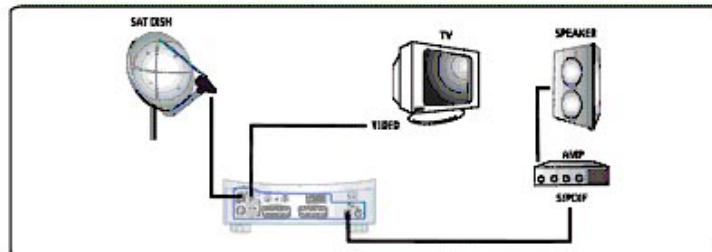
**2 Connect Receiver to TV and VCR****2 - 1 Connect Receiver to TV with SCART cable**

Connect the end of SCART cable to TV SCART socket on Receiver and the other end of it to the SCART socket on TV.

**2 - 2 Connect Receiver to VCR with SCART cable**

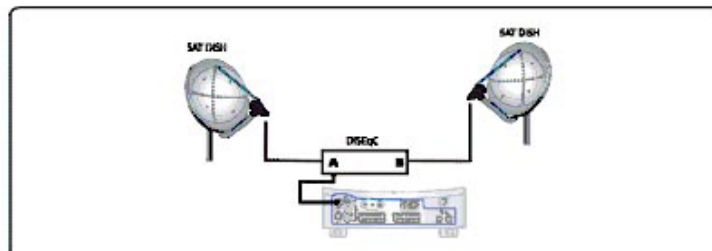
Connect the end of SCART cable to VCR SCART socket on Receiver and the other end of it to the SCART socket on VCR.

### 3 Connect Receiver to AMP with OPTICAL cable



Connect the end of OPTICAL cable to the S/PDIF out socket on Receiver and the other of it to S/PDIF socket on AMP.

### 4 Connect Receiver to Satellite Dish with DiSEqC



Connect the output of DiSEqC1.0(1.1, 1.2 and 2.0) to LNB IN socket on Receiver and Dishes to the inputs of DiSEqC 1.0(1.1, 1.2 and 2.0).

## MENU OPERATIONS

## 1. System setup



## 1 -1. Language

Press buttons to move to a language you wish and then press button to set up.

## 1 -2. TV Output Setting

Press button and then the sub menu will be listed.

## A. Screen Type

Select Screen type between normal (4:3) and wide (16:9) mode using buttons.

## B. TV signal

Select TV signal between composite(CVBS) and RGB color using buttons.

## C. RF mode

Select RF mode among AUTO, PAL B/G, PAL I, PAL K, PAL M, and NTSC M using buttons.

## D. RF channel

Select RF channel which you want among 21~69 using buttons.

Press button to finish setting.



Menu operations

### 1 -3. Lock

Press **EXIT** button to display the sub menu.  
Then the password will be required. The initial password is '0000'.

#### A. System Setup

Select system UNLOCK or LOCK using **◀▶** buttons.  
After choosing LOCK, whenever entering the each sub menu in System setup, OSD setup or Search menu, the password will be required.

#### B. Channel List

Select Channel UNLOCK or LOCK using **◀▶** buttons.  
After choosing LOCK, whenever watching the locked channel in edit mode in TV list, the password will be required.

#### C. Satellite Lock

Press **EXIT** button to lock a satellite. The selecting box will be shown.  
Select **EXIT** button on the satellite to lock while moving satellites using **◀▶** buttons. Press **EXIT** button to finish setting.

#### D. New Password

Input a new password (4 letters) which you want in the blank using numeric buttons.

#### E. Verify

Input again the new password which you input to reconfirm the new password.

Press **EXIT** button to finish setting

### 1 -4. Factory Reset

In this menu, you can make all data to default status.

Press **EXIT** button to change to default status, if System setup is locked, the password will be required to choose.  
Press **EXIT** button on YES letters highlighted, or press **EXIT** button or on NO letters to exit or cancel.



## 1 - 5. SMC (Smart Media Card)

Please refer to page 3~4.

### A. System load

Use to copy system program or new version S/W from SMC to Receiver.

Press **[F4]** button to carry it out, the confirm message will be shown.  
Press **[F4]** button on YES letters to load program to receiver or **[F5]** button on NO letters to cancel.

### B. Channel load

Use to copy User's data (TP Information, Channel, LNB Setup data) from SMC to Receiver.

Press **[F4]** button to carry it out, the confirm message will be shown.  
Press **[F4]** button on YES letters to load User's data to Receiver **[F4]** button on NO letters to cancel.

### C. Channel Backup

Use to copy User's data (TP Information, Channel, LNB Setup data) from Receiver to SMC.

Press **[F4]** button to carry it out, the confirm message will be shown.  
Press **[F4]** button on YES letters to load User's data to SMC or **[F5]** button on NO letters to cancel.

### D. System Backup

Use to copy the current system program from Receiver to SMC.

Press **[F4]** button to carry it out, the confirm message will be shown.  
Press **[F4]** button on YES letters to load program to SMC or **[F5]** button on NO letters to cancel.

### E. SMC version : 0.0

Check the current version of SMC.



## 1 -6. Time Adjustment

Press **ENT** button to display the submenu.

### A. Time Setting

Input local time at with numeric buttons.

### B. GMT

Select GMT time zone with **◀▶** buttons.

### C. Sleep Time

Insert sleep time you wish using numeric buttons for automatic power off.

### D. Wakeup Time

Insert wake time you wish using numeric buttons for automatic power on.

### E. Timer Enable

Select on/off using **◀▶** buttons to carry out Sleep time and Wake up time setting.

Press **ENT** button to finish setting.

## 2. OSD Setup



### Notice

If the version of Receiver is different from the one of SMC,  
It doesn't run right.  
Match the version of both.

### 2-1. OSD Select

Press button to set list of multi OSDs menu.

There are 3 category(5 OSD's) of OSD, you can choose from.

- a. Standard - with or without SMC.
- b. Roy & Lara -> Special for children
- c. Avantgard & Antique - For parents

Furthermore, the number of OSD will be extended infinitely by user's needs.

### 2-2. OSD Display Time

Set the display duration of OSD on the screen after changing channels.  
The time ranges are from 1 to 10, off and infinity.

### 2-3. Transparency

Set the degree of transparency of OSD on the screen among  
0, 10, 20...50%.

### 2-4. Help

Set the help bar on/off on the screen.

Press button to finish setting.

### 3. Search



This Search menu is used to search channels to see more broadcast which you want at firsthand.

**Notice** Be sure to set the region you locate, before searching channel of satellite.

#### 3 -1. Setup & Search

This Setup & Search is used to search all channels per satellites which you want.

##### A. Satellite Select

Select a satellite which corresponds to the value of the Antenna Alternative using buttons.

Or press button to see the list of preprogrammed satellites and see satellites using buttons and press button to select a satellite you wish in the list.

##### B. LNB Type

Select LNB type between Standard and Universal.

##### C. TP Select

Select TP to check its signal quality & level using buttons.

Or press button to see the list of TP and select TP.

##### D. Low Freq. (Frequency)

Select preprogrammed Freq. using buttons or insert new Freq. using numeric buttons directly.

##### E. High Freq. (Frequency)

Select preprogrammed Freq. using buttons or Insert new Freq. using numeric buttons directly.



### F. DiSEqC Selection

This Receiver is designed that DiSEqC 1.0 and 1.2 can be compatible and also allows multi antennas to be connected to Receiver at the same time. Select one among DiSEqC A, B, C, D, Mini A, B, DiSEqC 1.2 and Disable according to the option or the configuration of DiSEqC switch box or antenna using buttons. Or press button to get the lists of DiSEqC and press button to select one.

### F-1. DiSEqC 1.2 setup

After selecting DiSEqC 1.2 motorised system, the setup screen will be shown.

#### a. DiSEqC 1.2 Enable

Select ON letters to use DiSEqC 1.2 version using buttons.

#### b. Satellite Name

Select a satellite using buttons.

Or press button to get the list of satellite and press button to select satellite.

#### c. TP Freq.

Select TP Freq. using buttons.

Or press button to get the list of TP Freq. and press button to select TP Freq.

#### d. East /West Limit Set

Select East limit or West limit of the positioner using buttons. Or select Erase limit to make the limit of it clear.

Press button to save the limit of positioner which you selected the confirm message will be shown.

Press button on YES letters to save it.

#### e. Move

Move the position of antenna to East or West using buttons.

#### f. Set Position Store

Press button to store the certain position of satellite in the course of moving position and then the confirm message it will be shown.

Press button on YES letters to carry it out.

#### g. Realign dish

Press button to realign the stored dish. The confirm message will be shown and press button on YES letters to carry it out.



The confirm message will be shown and press **Yes** button on Yes letters to carry it out.

If the positioner is in the best condition (when the level of signal is on the top) after satellite name and TP Freq. is set, press  button to search channel right away.

Select DiSeqC among A~D, Mini A and B. But, check the coincidence of the condition in set up and search menu and the connection DiSeqC 1.0 with antenna.

When using Universal LNB type, 22KHz Tone is set to AUTO.  
When using a dual LNB or two antennas connected to a 22 KHz Tone switch box, Make 22KHz Tone switch ON or OFF to select LNB or antenna.

Select LNB Power among V/H, Vertical, Horizontal, OFF.

If the all above conditions are ready,  
Press  button on start to search menu.

Select YES letters to search only FTA broadcasting using  buttons.  
Select NO letters not to search FTA one using  buttons.

Select YES letters to search NIT using  buttons.  
Select NO letters not to search NIT using  buttons.  
Press  buttons to search channels after setting.

Press **[F4]** button to enter 'Search Multi Sat' menu.  
Select satellite to search with **[Left/Right]** buttons. After selecting all  
satellites which you want, press **[F4]** button to search channels.  
Or press **[F4]** button to just save and exit.

\* The result of search is on page 23.



### 3 -2. More Search

This menu allows you search in detail by satellite and TP and add some channel or edit TP & PID.

Press **[F2]** button to display the sub menu.

#### A. Sat Select

Press **[F2]** button to get the list of Satellite. Check satellites in the list using **[Left]** buttons.

Press **[F2]** button on satellite which you wish to search.

#### B. TP

Press **[F2]** button to enter the list of TP of the satellite you selected in previous stage.

Check TP in the list using **[Left]** buttons and press **[F2]** button on TP you wish to search. As soon as pressing **[F2]** button, Channel search will be starting and the result of search will be shown.

#### C. PID

Press **[F2]** button to enter the list of TP to add and edit channels.

Press **[F2]** button on TP you wish to input a new PID of channel. Then the PID input box will be shown.

##### a. Video PID

Insert Video PID (4 letters) using numeric buttons.

##### b. Audio PID

Insert Audio PID (4 letters) using numeric buttons.

##### c. PCR PID

Insert PCR PID (4 letters) using numeric buttons.



#### d. Name Input

Press **[F1]** button to Input Name of the channel, Keyboard will be shown on left box.

Move from character to character using **[Left]** and **[Right]** buttons and press **[Enter]** button on the character which you wish confirm the character is written on the below.

Press **[F2]** button on ENTER letters, to finish Input.

#### e. Save

Press **[F1]** button on OK letters to save all above Video/Audio/PCR PID/Name Input and then the new channel will be added.

#### D. TP Edit

Press **[F1]** button to enter TP Edit mode. Then the list of TP will be shown. Move from TP to TP using **[Left]** and **[Right]** buttons and press **[Enter]** button to select TP which you wish.

The Edit box will be shown on right side.

#### a. Freq. (Frequency)

Input new frequency using numeric buttons.

#### b. S/R (Symbol Rate)

Input new Symbol rate using numeric buttons.

#### c. Polar (Polarity)

Select Horizontal or Vertical using **[Left]** and **[Right]** buttons.

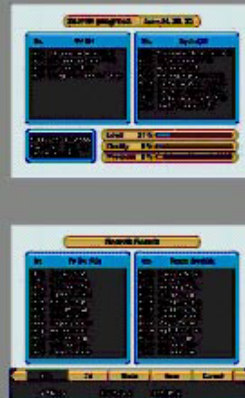
#### d. Use TP

Select No or YES whether using the TP or not pressing **[Left]** and **[Right]** buttons.

#### e. Save

Press **[F1]** button to finish setting

The confirm box will be shown, press **[F1]** button to carry it out or **[Esc]** button to cancel.



#### Search Result

When the search procedure is completed, the screen show you how many TV and Radio channels have been searched.

Use buttons to move from ALL to Cancel menu.

ALL : Press button to save all the TV and Radio channels.

TV : Press button to save all the TV channels only.

Radio : Press button to save all the Radio channels only.

View : Press button to see the list of all channels and move from channel to channel using and Page UP/Down buttons.

Use buttons to move from TV channel list to Radio channel list.

Cancel : Press button not to save the TV and Radio channels. And the screen will turn to TV channel which you had watched at last.

### 3 -3. Region Select

First of all, set the Region where you locate before searching channels of Satellite.

Press button to enter Region Select menu mode.

Select your region using buttons. Then, press button to save it.

**Notice** After Factory Reset, be sure to reset the region.



### 3 - 4. Common Interface

In this menu, check which cam is in slot 1 & 2.

Press  button to get status, Messages and Monitoring.

Press  button to redo on Status, then press  button on update.

## 4. TV List



In this menu, edit(Lock, Favorite 1~6 and Rename), scan, delete and move channels in the list. See each channel on screen using buttons in TV list mode. The information of the channels available will be shown on the below of PKG.

Press button on RCU whenever entering Edit, Scan, Delete and Move mode.

### 4 -1. Edit(Lock, Favorite 1~6 and Rename)

Press button on RCU to enter Edit mode in TV list.

#### A. Lock

Press button on the channel to lock, the edit box will be shown. Press button to lock the channel when the cursor is on below LOCK letters. And the password will be required.

After entering the password, Lock will be marked in the below of LOCK letters.

#### Notice

Channel List LOCK is set up in System Setup, password will be required in this step. But password will be needed at the first time only when locking a channel in Edit mode and then it won't be needed to lock channels. But after going the current edit mode, turning to edit mode and then the password will be needed again.

#### B. FAV 1~6

Favorite list is classified into Max. 6 sections(F1~F6).

Move each section using buttons. Its section depends on user's needs.

Press button to select the section of Favorite list.

#### FAVORITE LIST

Press Button on RCU to see Favorite list.

#### EDIT WHILE WATCHING

Edit channels easily while watching TV.

While you're watching TV on your favorite channel, you can edit easily by using button on your Remote control unit.

You don't have to go back to TV list for editing.



### C. Rename

When the cursor is on the below of Rename, press button to rename the name of the channel.  
Then Keyboard will be pop-up. Press button when the cursor is on the character which you want to input.  
Press button on Enter letters to Input.  
Press button to finish setting.



### 4 -2. Scan

This button allows you scan all channels up or down.  
Press button to enter scan mode and then the message which indicate its direction(up/down) will be shown.  
Press button on UP/Down. If the letters of SCAN in Menu is blinking, it is on scanning.  
Press any button except buttons to cancel.



### 4 -3. Delete

Press button on Delete menu to enter Delete mode and the password will be required, if channel list LOCK is setup in System Setup.  
Select channel to delete using buttons and press button.  
Then the color of name of channel will be changed and press button to delete it. The confirm message will be shown and press button on YES letters to delete it or on NO letters to cancel.  
Press button to finish setting.

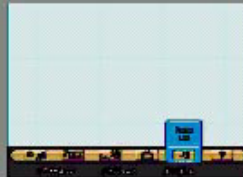
**Notice** If channel list LOCK is set in System Setup, password will be required in this step. Only when you enter Delete menu, the password will be required.



#### 4 -4. Move

This channel allows channel to another position in the list.  
Press **MOVE** button on MOVE menu to enter Move mode, then MOVE menu is blinking to mark it is in progress. Press **ENTER** button on a channel to move and the color of name of channel is changed. And press **ENTER** button on a channel of position you wish to put the channel.  
Then, it will be carried out with message "Please wait"

#### 5. Radio List



Press **ENTER** button to enter into Radio list.  
The use of Radio List is same with the one of TV List.

#### 6. System Info



Check the name of product, Model no., SAW Version and contact.

## 7. Other Functions



### 7-1. Volume

Press Volume button on RCU to adjust volume upward/downward.

### 7-2. Mute

Press Mute button on RCU to be soundless and if pressing button again, Mute will be canceled.

### 7-3. Info

Whenever you change channel watching TV, simple info will be shown and vanished. But if you want to see more information of the current channel, press button on RCU to see the more information of the channel. Info box will be vanished after pressing button once more.

### 7-4. Sort

Press button to display the list of channels (simple list) per satellite by alphabet, TP and FTA & CA5 (Indeto, viaccess, criptoworks, seca, betacrypt, conax, nagravision, etc). Set one of the above 3 options using buttons and press button to carry out it. Then you can see the arranged channel list will be shown. Movement between Satellite and Channels can be available by using buttons.

### 7-5. Browse

After pressing button, the same list of channels with Sort will be shown. But sort options will not shown. The use of list is same with Sort function.

### 7-6. Audio

Press button to allow you set left, right, mono and stereo audio. Whenever pressing button, its option is changed.

### 7-7. A-Language (Audio Language)

Press button to display Audio language which supported by current channel. The language selection box will be shown and select a language which you want to hear using buttons, then press button to carry it out.



#### 7-8. Pause

Press **(Pause)** button to stop the current Video(Audio is Irrelevant) and press it again to cancel.

#### 7-9. Sub-title

Press **(Sub-title)** button on RCU to display Sub-title which supported by current channel. The language selection box will be shown and select a language to get using **(Left/Right)** buttons, then press **(Enter)** button to carry it out.



#### 7-10. Scan

Press **(Scan)** button to scan channels only watching TV the direction can be adjusted up/down.

#### 7-11. Fav.(Favorite list)

Press **(Fav.)** button to display the list of favorite and check channels of each section of Favorite(F1,F2,F3,F4,F5 and F6) using **(Left/Right)** buttons. Movement between the section of Favorite and channels can be available by using **(Left/Right)** buttons.

#### 7-12. Teletext

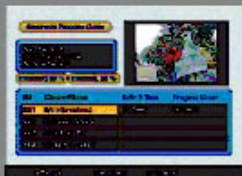
Press **(Teletext)** button to get teletext. The availability and amount of Teletext will vary depending on the particular broadcaster.

#### 7-13. Recall

Press **(Recall)** button to get the last channel which you had seen before.

#### 7-14. EPG(Electronic Programming Guide)

Press **(EPG)** button to get Electronic Programming Guide of channels. The availability and amount of EPG will vary depending on the particular broadcaster.



## TROUBLE SHOOTING

There may be various reasons for the abnormal operation of the unit.  
Therefore, if the unit does not work properly, check it according to the below.

| Problem                                                                                                                                                        | Reason                                                                                                                                                                                                                                                                                                                                                       | Solution                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Software cannot be upgraded using SMC.</li> <li>Cannot change the default OSD to other OSD. (Adult or Child)</li> </ul> | <ul style="list-style-type: none"> <li>STB does not recognize the inserted SMC.</li> <li>SMC is not inserted in SMC slot.</li> <li>SMC is not inserted properly in SMC slot.</li> </ul>                                                                                                                                                                      | <ul style="list-style-type: none"> <li>Power off the STB and check to see if SMC is inserted properly in SMC slot.</li> <li>Then, power on the STB and try upgrade. (See page 3 for direction)</li> </ul>                                                                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>Cannot find a particular satellite from the Satellite list.</li> </ul>                                                  | <ul style="list-style-type: none"> <li>The satellite you are looking for is a new satellite and it hasn't been added to the Satellite list yet.</li> </ul>                                                                                                                                                                                                   | <ul style="list-style-type: none"> <li>Upgrade your STB with the latest software version available.</li> </ul>                                                                                                                                                                                                                                                                                                        |
| <ul style="list-style-type: none"> <li>Remote controller doesn't work properly</li> </ul>                                                                      | <ul style="list-style-type: none"> <li>Battery exhausted</li> <li>Fluorescent light interferes with the remote controller</li> <li>Don't aim Remote Control Unit at Receiver correctly</li> </ul>                                                                                                                                                            | <ul style="list-style-type: none"> <li>Change the batteries</li> <li>Switch off the light</li> <li>Aim the Remote Control Unit at the receiver correctly</li> </ul>                                                                                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>Pictures/Sound problem</li> </ul>                                                                                       | <ul style="list-style-type: none"> <li>Video/Audio output socket is not connected to input terminal on the TV or connected incorrectly</li> <li>Satellite antenna is not connected or connected incorrectly</li> <li>Wrong direction of the satellite antenna</li> <li>No signal or weak signal</li> <li>Channel information is setup incorrectly</li> </ul> | <ul style="list-style-type: none"> <li>Connect the SCART, RCA, RF cable correctly</li> <li>Connect the satellite antenna cable correctly</li> <li>Set the direction of the satellite antenna correctly</li> <li>Check the connection of the satellite antenna cable</li> <li>Check the connection of equipment between LNB and receiver, like splitter</li> <li>Reset up the channel information correctly</li> </ul> |
| <ul style="list-style-type: none"> <li>BLACK-AND-WHITE screen or V-HOLD</li> </ul>                                                                             | <ul style="list-style-type: none"> <li>Your TV mode is different from satellite broadcasting mode</li> </ul>                                                                                                                                                                                                                                                 | <ul style="list-style-type: none"> <li>Adjust RF mode on TV output settings. See page 13.</li> </ul>                                                                                                                                                                                                                                                                                                                  |

## SPECIFICATION

|                                       |                       |                                                        |
|---------------------------------------|-----------------------|--------------------------------------------------------|
| system capabilities                   | fully DVB compliant   |                                                        |
| Tuner                                 | frequency range       | 950MHz ~ 2150MHz                                       |
|                                       | input impedance       | 75ohm                                                  |
|                                       | signal level          | -65dBm ~ -25dBm                                        |
|                                       | input structure       | F type female                                          |
|                                       | Input symbol rate     | 2Msps ~ 45Msps                                         |
|                                       | demodulation          | QPSK                                                   |
| MPEG Transport Stream<br>A/V Decoding | Transport Stream      | MPEG-2 ISO/IEC 13818<br>Transport Stream Specification |
|                                       | Profile & level       | MPEG-2 MP @ ML                                         |
|                                       | Input Data Rate       | 15Mbit/s Max.                                          |
|                                       | Aspect Ratio          | 4:3, 16:9                                              |
|                                       | Video Resolution      | 720*576(PAL), 720*480(NTSC)                            |
|                                       | Audio Decoding        | MPEG-1 Audio Layer 1, 2                                |
| System resource                       | Processor             | 32bit Processor (81MHz)                                |
|                                       | SDRAM                 | 64Mbit                                                 |
|                                       | FLASH                 | 2Mbyte                                                 |
| RF-Modulator                          | RF Connect            | 75ohm, IEC169-2, male/Female                           |
|                                       | Frequency             | 47MHz ~ 860MHz                                         |
|                                       | Output channel        | CH 21 ~ 69                                             |
|                                       | TV standard           | PAL B/G, PAL M, PAL K, PAL I,<br>NTSC M, AUTO          |
| Power supply                          | Input Voltage         | AC 90 ~ 250V 50/60Hz                                   |
|                                       | Power Consumption     | 30W Max.                                               |
| Environment                           | Operating temperature | ±0°C ~ +50°C                                           |
|                                       | Storage Temperature   | -25°C ~ +65°C                                          |

SPECIFICATION

Specification

**FCC Information**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This Device may not cause harmful interface, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for CLASS B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try correct the interference by one or more of the following measures:

- 1.1. Reorient or relocate the receiving antenna.
- 1.2. Increase the separation between the equipment and receiver.
- 1.3. Connect the equipment into an outlet on a circuit different from that to which receiver is connected.
- 1.4. Consult the dealer or experienced radio/TV technician for help.

**WARNING**

Changes or modifications not expressly approved by the manufacturer could void the user's authority operate the equipment.