II. CHANNEL MANAGER

II-5. DELETE

1. Select Delete and press OK to go to Delete mode.
2. Press the one that you want to delete among Red(channel), Green(TP) and Yellow(Sat) on the Remote Control Unit.
3. Select the channels or the channels of TP and Satellite that you want to delete in each mode and press OK.
4. Press Exit and then Message box will be displayed. Press OK to delete.
5. Press EXIT to go to Main Page.

III. USER INSTALLATION

D. 22KHz Tone

Select the one among None, 0KHz and 22KHz depending on the user's antenna switch box.

E. DiSEqC

Two or more antennas or LNBs can be connected to the receiver at the same time.

1) Select the appropriate port among None, Port A, Port B, Port C and Port D for the DiEqC switch box.
2) When you select Auto from the Diseqc mode, Diseqc will be changed automatically by selected Satellite.

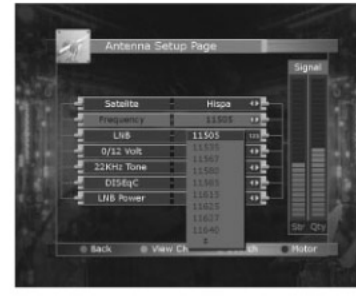
F. LNB Power

1) Select LNB Power in Antenna Setup Page and press OK.
2) Select On or Off and press OK.
3) Press EXIT to go to Main Page.

4. Press Yellow button when finishing selecting all necessaries.
5. Channel Search Page displays on the screen.

III-1. Antenna Setup B (DiSEqC1.2)

1. Select Antenna Setup in User Installation menu and press OK.
2. Antenna Setup Page displays on the screen.
3. Press Blue button on the Remote Control Unit.
4. Antenna Setup Page for DiSEqC1.2 displays on the screen.
5. You can move the cursor using ◄ / ► / ▲ / ▼ and press OK when you select or insert the value that you want.



A. Antenna Type

1) Press OK to display Antenna Type List.
2) Select DiSEqC1.2 and the press OK.

B. Satellite

1) Press OK to display the Satellite List box.
2) Select the proper Satellite and then press OK.

III. USER INSTALLATION

C. FREQUENCY

1) Press OK to display the frequency box.
2) Select the proper frequency and then press OK.

D. LNB

1) Select the proper LNB frequency referring to your LNB using ◄/► and then press OK.
2) Universal 1 : 9750 and 10600 MHz are supported at the same time
   Universal 2 : 9750 and 10750 MHz are supported at the same time

E. Motor Movement

Search for the appropriate position of the selected satellite using ◄/► .

F. MOTOR CONTROL

1) Store Sat position
   Stores the current position of the motor for the selected satellite .
2) Goto Sat position
   Moves the motor to the stored position of the selected satellite.
3) Goto 0
   Goes to the center of the motor.
4) Reset
   Resets all stored position of the motor

G. SATELLITE POSITION

1) Adjust Satellite position and direction (East / West).

6. Press Yellow button when finishing selecting all necessaries.
7. Channel Search Page displays on the screen.

III-1. ANTENNA SETUP C (USALS)

1. Select Antenna Setup in User Installation menu and press OK.
2. Antenna Setup Page displays on the screen.
3. Press Blue button on the Remote Control Unit.
4. Antenna Setup Page for Usals displays on the screen.
5. You can move the cursor using ◄ / ► / ▲/▼ . and press OK when you select the value that you want.

III. USER INSTALLATION

A. ANTENNA TYPE

1) Press OK to display Antenna Type List.
2) Select Usals and press OK.

B. SATELLITE

1) Press OK to display the Satellite List box.
2) Select the proper Satellite and then press OK.

C. FREQUENCY

1) Press OK to display the frequency box.
2) Select the proper frequency and then press OK.

D. LNB

1) Select the proper LNB frequency referring to your LNB and then press OK.
2) Universal 1 : 9750 and 10600 MHz are supported at the same time
   Universal 2 : 9750 and 10750 MHz are supported at the same time

E. MOTOR MOVEMENT

1) Search for the appropriate position of the selected satellite using ◄ / ►.

F. MOTOR CONTROL

1) Store Sat position
   Stores the current position of the motor for the selected satellite.
2) Goto Sat position
   Moves the motor to the stored position of the selected satellite.
3) Goto 0
   Goes to the center of the motor.
4) Reset
   Resets all stored position of the motor.

G. SATELLITE POSITION

1) Adjust Satellite position and direction (East / West)

H. LONGITUDE

1) Write your current longitude and direction (East /West).

I. LATITUDE

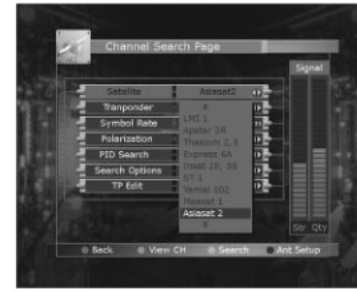
1) Write your current latitude and direction (North /South).

III. USER INSTALLATION

6. Press Yellow button when finishing selecting all necessaries.
7. Antenna Setup Page displays on the screen.

III-2. CHANNEL SEARCH

1. Select Channel Search in User Installation menu and press OK.
2. Channel Search Page displays on the screen.
3. You can move the cursor using ◄/►/▲/▼ and press OK when you select the value that you want.
4. Press Blue button If you go back to Annena Setup page.

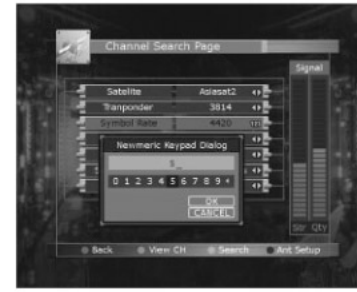


A. SATELLITE

1) Press OK to display the Satellite List box.
2) Select the proper antenna and then press OK.

B. TRANSPONDER

1) Press OK to display the frequency box when you want to set up it.
2) Select the proper frequency and then press OK.



C. SYMBOL RATE

1) Press OK and then Numeric Keypad Dialog displays on the screen.
2) Edit the proper symbol rate number in the Numeric Keypad Dialog and enter OK.

D. POLARIZATION

Select Horizontal or Vertical using ▲/▼.

E. PID SEARCH

1) Select ON if you want to search PID by directly entering PID value.
2) Press OK.
3) Set PID box displays when you press Yellow button.
4) Edit the proper PID rate using Numeric Key Dialog and enter OK.

F. SEARCH OPTIONS

1) Press OK to display the scan modes.
2) Select a scan mode among All Channels, FTA Channels, One TP and Network and press OK.
3) Select Network if you want to search for more TPs using the network information table.

III. USER INSTALLATION

G. TP EDIT

1) Select New or Delete if you want to add the new TP or delete the TP that you have searched manually and press OK.

4. Press Yellow button when finishing selecting all necessaries.
5. Satellite Search Page displays on the screen and Channels are searched automatically.
6. Channel Search Page displays on the screen after finishing searching process.
7. Press Green button to save the searched data in memory. Press Exit to stop searching.

III. USER INSTALLATION

III-3. TIME ADJUST

Set your local time according to your location.

1. Select Time Adjust in User Installation menu and press OK.
2. Time Adjust Page displays on the screen.
3. Move the cursor using ◄ / ► / ▲ / ▼. And press OK when you select the value that you want.

III-4. PARENTAL LOCK

1.Select Parental Lock on User Installation menu and press OK.
2. Parental Lock Page displays on the screen.
3. Enter the current password.
4. Select ON of Parental Lock if you want to lock the channel.
5. Select ON of Install Lock if you want to protect your installed data and information.
6. Enter new password.
7. Confirm your new password entering new password again.

Note. Default password is 0000.

III-5. FACTORY DEFAULT

Use this Factory Default function only to return the receiver to the condition of factory default. All previous settings and channels are deleted.

1.Select Factory Default in User Installation menu and press OK.
2. Factory Default Page displays on the screen.
3. Select OK on Factory Default Page and then press OK.

IV. SYSTEM SETTING

This section may help you to organize the system of the receiver according to your preference.

1. Select System Setting in the Main Page using ▲/▼ and press OK.
2. System Setting Page displays on the screen.

IV-1. OSD LANGUAGE
IV-2. AUDIO LANGUAGE
IV-3. SUBTITLE LANGUAGE
IV-4. TV TYPE
IV-5. DISPLAY INFO BAR
IV-6. OSD POSITION
IV-7. CH CHANGE MODE

IV-1. OSD LANGUAGE

1. Select OSD Language in System Setting Page and press OK to go the language list.
2. Select the language that you want and press OK.
3. The selected language is applied on the OSD.
4. Press EXIT to go to Main Page.

IV-2. AUDIO LANGUAGE

This section may help you to organize the sequence of the audio languages that are supported from the channel according to your choice.

1. Select Audio Language in System Setting Page and press OK.
2. Audio Language box displays and press OK to go language list .
3. Select the languages in order and enter OK.
4. The selected languages are applied as the audio language in order.
5. Press EXIT to go to Main Page.

IV. SYSTEM SETTING

IV-3. SUBTITLE LANGUAGE

1. Select Subtitle Language in System Setting Page and press OK.
2. Select the favorite language in the language list and press OK .
3. Press EXIT to go to Main Page.

IV-4. TV TYPE

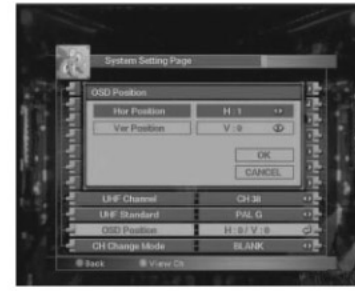
1. Select TV Type in System Setting Page and press OK.
2. Select the proper mode according to your TV Type and press OK.
3. Press EXIT to go to Main Page.

IV-5. DISPLAY INFO BAR

1. Select Display Info Bar in System Setting Page and press OK.
2. Select the second that you want using ◄ / ► and press OK.
3. Press EXIT to go to Main Page.

IV. SYSTEM SETTING

IV-6. OSD Position



1. Select OSD Position in system setting page and press OK.
2. Select the proper HOR / VER Position using ◄ / ► according to your TV and OK or CANCEL using ▲/▼ on the remote Control Unit.
3. Press EXIT to go to Main Page.

IV-7. Channel Change Mode

1. Channel change mode(BLANK, FREEZE, Fade In/Out)
   - Go to the channel change mode bar and select the mode as your preference

V. COMMON INTERFACE

The receiver is equipped with two slots of common Interface, which have access to the scrambled and the pay per view service together with various conditional access modules and a valid smart card.

The program that can be descrambled is determined by what conditional access module and smart card that you use.

1. Select Common Interface in Main Page and press OK.
2. Common Interface displays on the screen.
   (The phrase 'No Module' is indicated when the conditional access module is not installed.)
3. Insert the conditional access module into slot 1 or slot 2.
4. The menu differs according to each inserted the conditional access module.
5. Press Exit to go to Main Page.

VI. CHANNEL LIST GUIDE

VI-1. NORMAL LIVE MODE

1. When you select channel information bar appear on the screen, it gives to users channel information

VI-2. ZOOM IN/OUT

1.By selecting page up key (▲) in a normal live mode you can use Zoom In/Out function.

2.From the Pop-Up Window of Zoom function you can select(*2*3*4)by page up key(▲), for Zoom out press page down key.

3.When you move cursor of Zoom focus by key (◄►▲▼) then you can select Zoom In/Out on the focused point by pressing page up/down keys.
Press Pause key then live mode will be paused on the mode of Zoom.

VI-3. SLEEP TIME MODE

1.By selecting page down key (▼) in a normal live mode you can use Sleep Time setting function.

2.Set a Time by page Up/Down keys before within 3 second after selecting Sleep Time Mode

VI-4. DETAIL CHANNEL LIST

1. Press OK on the normal live mode to go to the channel list
2. When simple channel list displayed on screen press RED button to go to detail channel list.
3. Press each color button to go to 'Favorite' or 'Satellite' or 'Alphabet sort' mode.
4. Press BLUE button for alphabet sort in each mode of 'Favorite' or 'Satellite'.

VI-5. SIMPLE CHANNEL LIST

1. Press OK on the normal live mode to go to the channel list.
2. When detail channel list displayed on screen press RED button to go to simple channel list.

VI. CHANNEL LIST GUIDE

VI-6. RENAME

1. Channel Rename :

Move cursor on Selected channel from detail channel list.
Then press INFO Key, channel information will be displayed.
Then Press OK, Keyboard will be displayed.
Move cursor to each character or number and press OK for editing new name.

2. Favorite and Satellite Rename :

Move cursor on Favorite name or Satellite name on each Mode at detail channel list.
Then press INFO Key, keyboard will be displayed
Move cursor to each character or number and press OK for editing new name

3. To add favorite channel on the mode of detail channel list :

Select channel from detail channel mode to add favorite.
Press FAV key select the place to add then press OK
Press Exit key for saving

TROUBLESHOOTING

Problem	Solution
Nothing appears on the Front Panel No power supply	Check that the power cable is plugged into the power socket.
No Picture	- Check the dish and adjust it. - Check the cable connection and correct it. - Get out of UHF mode. - Check channel and video output.
No Sound	- Check the volume level of the TV and receiver. - Check the mute status of TV and receiver. - Check the cable connection and correct.
Remote Control Unit dose not work	- Replace batteries. - Aim the remote control unit directly to the receiver. - Checking that nothing blocks the front panel.
Service is not running or scrambled	- Check the Conditional Access Module and smart card are appropriate for the selected service. - Check the Conditional Access Module and smart card are correctly inserted or not.
"No Signal"on the screen	- Check the signal strength and the signal quality in the menu. - Check the LNB and replace the LNB if necessary. - Check the LNB cable. - Check the dish and adjust it.
Tuner Defective Check.	- Go to the Option and select System Information. - Check Tuner : When 'SZVO" changed to 'TUERRVO' Tuner is defective.
You have forgotten your secret PIN Code.	Contact your Service Provider.

SPECIFICATIONS

I. TUNER

Item	Specification
Inner FEC	Rate: 1/2, 2/3,3/4, 5/6, 7/8 (DVB Specification)
Outer FEC	Reed Solomon coding RS (204, 188, t=8)
Frequency Range	950 ~ 2150MHz
Input Symbol Rate	2 ~ 45 Ms/s
Connector Type	F Type (IEC 169 - 24 female)
Modulation	QPSK (DVB Specification)

II. MPEG A/V DECODER

Item	Specification
Video Resolution	720 * 480 / 720 * 576
Input Bit Rate	Max. 90 Mbit/s
Video Decoding	MPEG II MP@ML
Audio Decoding	MPEG II Mulit-channel MPEG I, Layer I, II & III
Audio Mode	Single & Dual Channel

III. SPECIFICATON AUDIO

Item	Specification
Digital Audio	IEC 60958
Operation Mode	Mono, Dual Mono, Stereo
Sampling Frequency	33, 44.1, 48KHz

IV. VIDEO SPECIFICATION

Item	Specification
TV System	NTSC-M
Video Decoding	ISO/IEC 13818-2, MG@ML
Video Resolution	720 pixels x 576 lines x 25 frames per sec.
Aspect Ratio	Wide Screen 16:9, Normal TV 4:3
On-Screen Display	256 colors with full resolution

SPECIFICATIONS

V. RF MODULATOR

Item	Specification
MECHANICAL Type	CH 3~4 for the modulation
TV Standard	NTSC-M
RF Connector	F Type(IEC169~24fe)
Frequency Range	VHF 54-860MHz

VI. RESOURCES

Item	Specification
Flash Memory	2Mbytes
SDRAM	8Mbytes
MAIN CPU	STi5518
Digital Audio Output	S/PDIF
LNB Power	13/18V (600mA max)

VII. POWER SUPPLY

Item	Specification
Input Voltage	AC 90 to 250V, 50/60Hz
Power Consumption	Max 30W
Type	SMPS