

SMART[®] M1 *Plus*

DIGITAL SATELLITE RECEIVER

User's Guide

Note: This equipment has been tested and found to comply with the limit for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential Installation. 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 encourage to try to correct the interference by one or the following measures:

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

Change or modification not expressly approved by the party responsible for Compliance could void the user' s authority to operate the equipment

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FOR YOUR SAFETY

GERNERAL INFORMATION FOR YOUR SAFETY

To avoid the risk of fire, shock or other hazards,

- The receiver shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the receiver.
- The minimum distances around the receiver for sufficient ventilation should be 10cm.
- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table cloths, curtains, etc.
- No naked flame sources, such as lighted candles, should be placed on the receiver.

To reduce the risk of electric shock,

- The top cover of the receiver shall not be removed. Please refer to a qualified technician.
- Do not connect, disconnect or modify cables when the receiver is connected to the mains power supply.
- Use a soft, dry cloth to clean the receiver and remove dust.
- It is recommended that a responsible person is always present when young children are viewing programs through this receiver.

Do not treat it as a toy.

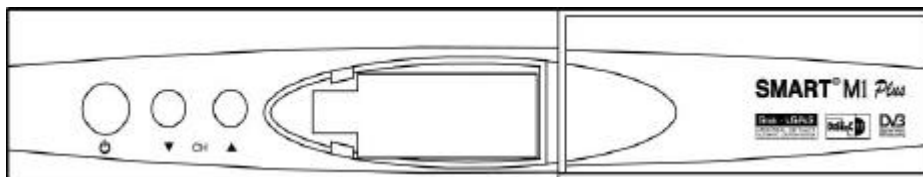
BEFORE GETTING STARTED

MAIN FEATURES

- ? MULTI LANGUAGE EPG INCLUDING ARABIC
- ? ENGLISH / ARABIC WRITING FUNCTION
- ? SUBTITLE DISPLAY FUNCTION
- ? AUTO AUDIO LANGUAGE DETECTION
- ? CHANNEL VOLUME SAVING FUNCTION
- ? FULL PARENTAL CONTROL ON ALL MENUS INCLUDING RECEIVER LOCK
- ? OSD & INFOBAR CHANGING COLOR, TIMER & TRANSPERANCY
- ? COPY FUNCTIONS (SET TO SET, SET TO PC, PC TO SET) INCLUDING (SOFTWARE AND CHANNELS)
- ? LNB SWITCHING LOGIC (22 KHz, DiSEqC 1.0, DiSEqC 1.2 and AUTO DiSEqC DETECTION)
- ? ADVANCED SEARCH OPTIONS (CHANNEL, TRANSPONDER, NETWORK, BLIND, MULTI SATELLITE & FREE TO AIR ONLY)
- ? USALS AUTO POSITIONING FUNCTION
- ? PROVIDER NAME DISPLAY
- ? EDIT CHANNEL MENU (LOCK, MOVE, RENAME, SKIP (HIDE), DELETE, ADD, & FAVORITE)
- ? ADVANCED CHANNEL SORTING OPTIONS BY (NAME, FREQUANCY, FREE TO AIR, PROVIDER)
- ? EDIT SATELLITE MENU (LOCK, MOVE, RENAME, SKIP (HIDE), DELETE, & FAVORITE)
- ? FIVE FAVORITE PROGRAM TIMERS, SLEEP TIMER, 5 VIDEO TIMERS & FRONT LED STANDBY CLOCK
- ? PHONE BOOK FOR 100 NAMES
- ? CALCULATER
- ? MULTI SCREEN FORMATS (4:3, 16:9)
- ? PAL-NTSC CONVERSION
- ? CALENDER
- ? 5 GAMES

CONTROLS AND FUNCTION

Front Panel



The 4-digit displays channel information.

In stand by mode, 7-segment displays local time & red LED indicator.

The green LED is the antenna signal indicator.

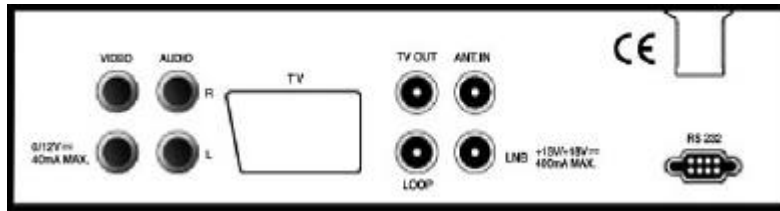
POWER

Turn the power on/off.

CH ▼ ▲

Change channel,move menu, or input frequency value.

Rear Panel



VIDEO

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

Audio(R,L)

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

0/12V

It provides LNB selection for the different satellite.

TV

It provides stereo audio, RGB video & composite video output.

Connect the receiver to TV with SCART cable.

TV OUT

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

ANT.IN

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

LOOP

It sends signal to the another receiver.

LNB

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

RS 232

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

Remote Control Unit

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

STAND BY

Turn the power on/off

MUTE

Deactivate current sound.

Numeric(0~9)

Move menu, change channel or input

TV

Change to TV mode from radio channel.

RADIO

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

Shows the current Radio program list.

TXT

Change to Teletext mode.

AUDIO

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

FAV.

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

LANG

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

Page UP/DOWN

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

Volume

Control volume, change item on menu or input frequency value.



Channel ▼ ▲

Change channel, move menu, or input frequency value.

OK

Select menu or value on menu item.

MENU

Shows the menu application.

EXIT

Exit from the menu.

SAT LIST

Shows the current captured satellite list

SIZE

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

RECALL

It is to move to previous channel.

PAUSE

Shows the freeze video display.

DEL

Delete input data (Searched Channel & TP list, Phone Book Data etc.)

ZOOM + -

Zoon in & out for the freeze and live picture.

SLEEP

Sleep timer setting.

REN

Change the Satellite & Channel name.

LOCK

Lock the channel and satellite in order to prevent to watching children.

MOVE

After the channel searching, changing the channel order.

SKIP

In the channel edit menu, you can skip specific channel. Skipped channel will not display in the channel list.

SL/ RP

Press one for the slow display for the live picture. Press one more for the repeat the live picture for certain time.

INFO

Shows the information of current channel. Click the INFO button twice, TELETXT mode will be displayed.

GUIDE

Shows the broadcasting information.(Video - Audio - LNB)

SIGNAL

Front LED will shows you the signal strength.

P

Power for the DiSEqC control box.

STORE

Save the satellite position.

EAST/WEST

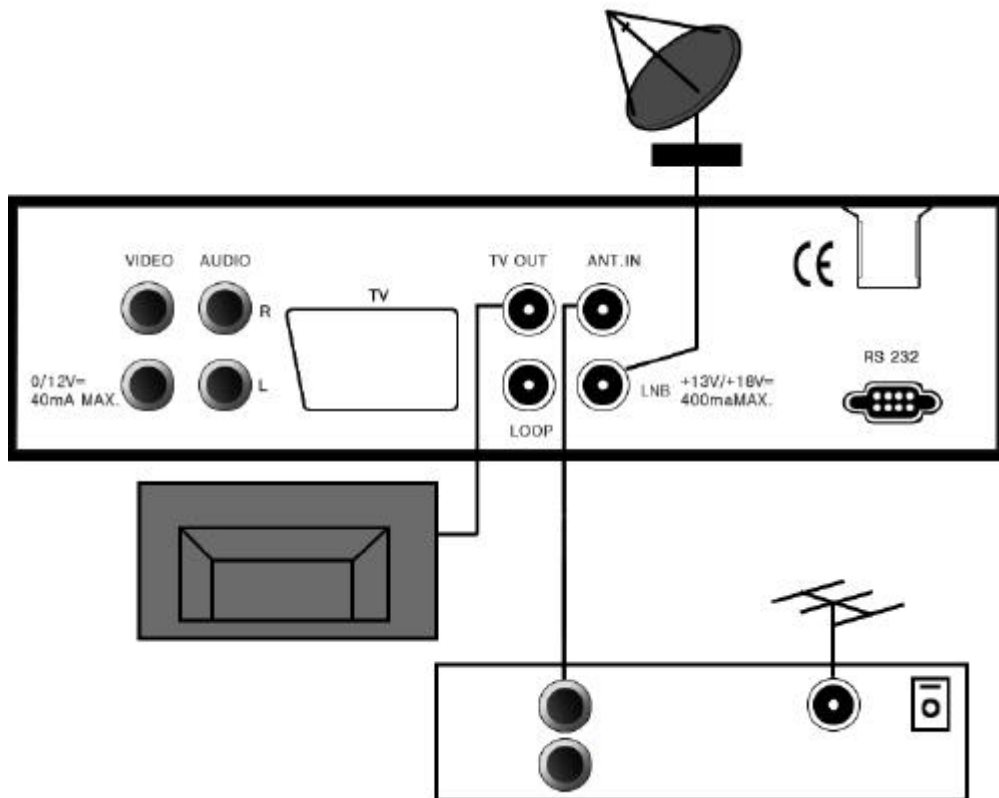
The function of EAST/WEST button is to move the Position Actuator westward/eastward.

Connections

Connecting to the TV,VCR and Satellite Antenna

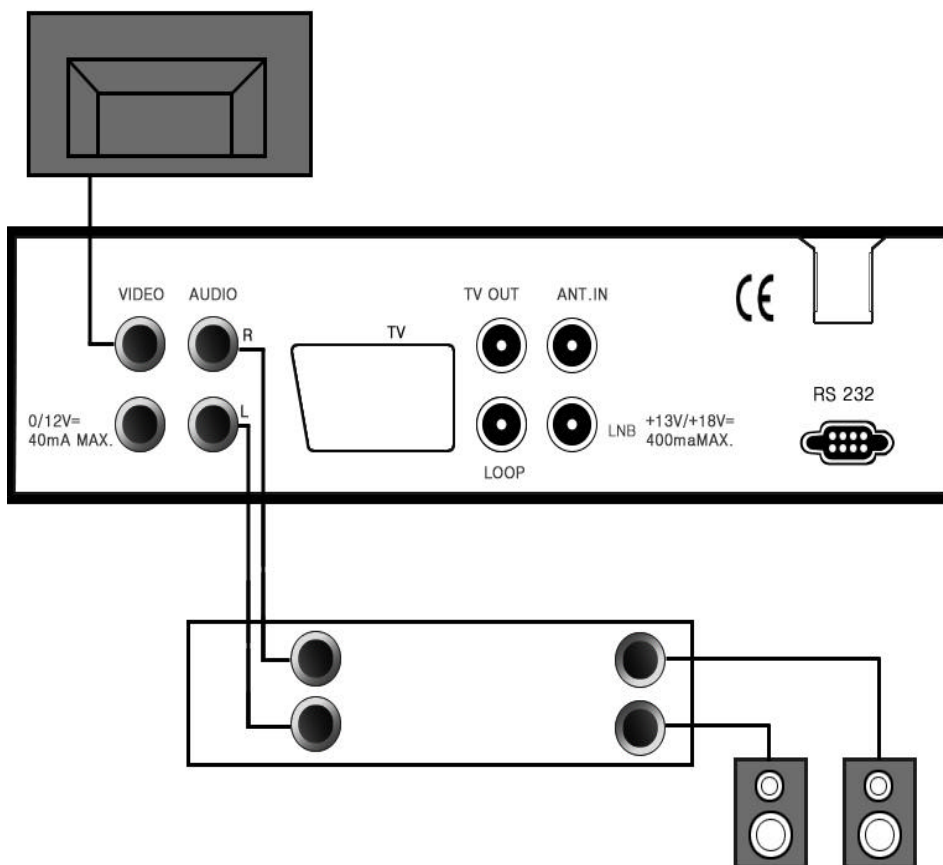
It is not necessary to adjust power, as the product is of free-voltage(100-240V)

- 1.Connect the RF cable from the TV OUTPUT on the satellite receiver to a TV and connect the RF modulate on the VCR and the TV ANT.IN.
2. Connect an antenna to the LNB socket on the VCR or other receiver and cable of the satellite dish to the DIGITAL on the satellite receiver.



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

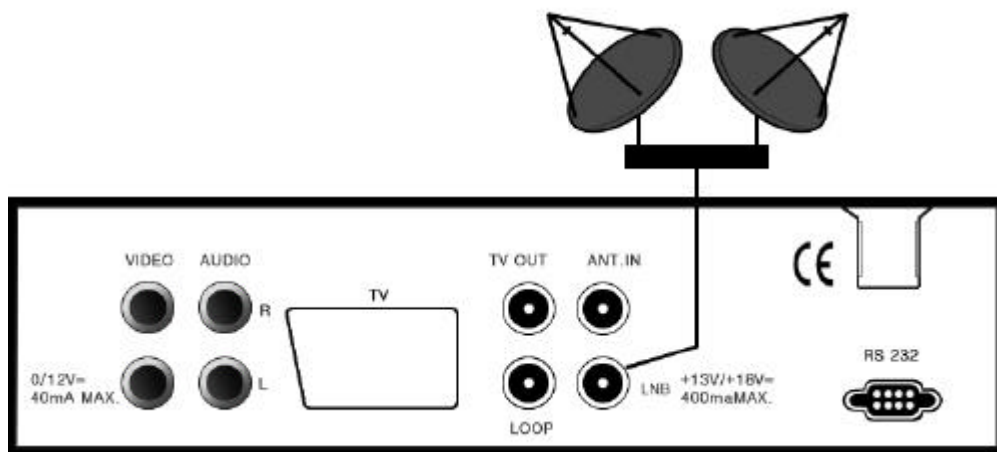
1. Connect the RCA cable from the VIDEO INPUT on the TV to the VIDEO on the satellite receiver.
2. To use 0/12V switch, connect one cable of the 0/12V switch to the 0/12V on the satellite switch and connect another cable to the DIGITAL on the satellite receiver.
3. Connect a RCA stereo cable from the AUDIO RL on the satellite receiver to the AUDIO R/L on the HiFi system.



Connecting DiSEqC switch

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

1. Connect the LNBs to a DiSEqC switch at first.
2. Connect the antenna cable to the OUT connector on the DiSEqC switch and connect the end of the cable to the DIGITAL on the satellite receiver.



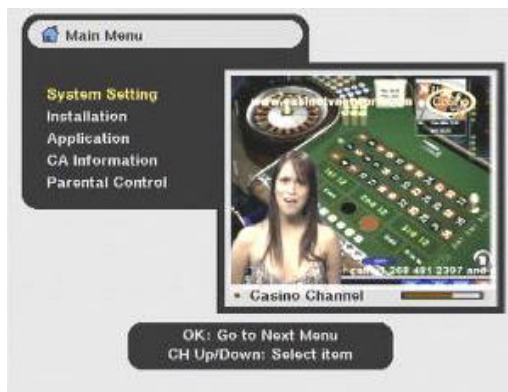
Settings and Operations

Basic Setting

If it is first time using a receiver, you should set parameters for system configuration.

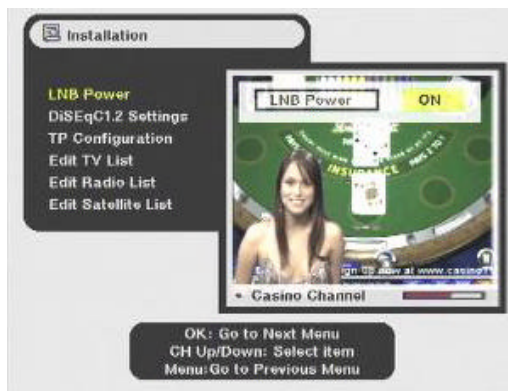
Refer to the following section.

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



<LNB Power>

1. Select Installation on the Main Menu.
2. Select LNB Power.
3. If LNB Power is independently supplied from outside source, set the LNB Power OFF. Otherwise set it ON.
4. After completion of LNB Power setting, go back to Installation menu by pressing MENU.



<DiSEqC 1.2 Limit Setting>

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

1. Select DiSEqC 1.2 Limit Setting of the installation.
2. You should set the East Limit and West Limit of your satellite antenna. If you use the satellite receiver at first. Press OK button on the Change Limit item, set the EAST/WEST Limit.
3. Select satellite you want and DiSEqC 1.2 Positioner will be set automatically.

Satellite

The Satellite shows current name of satellite.

Go to Center

If you press OK button dish position is moved to center position.

ReCalculate Pos.

You can change the input data (Satellite Position) in the DiSEqC box.

Clear E/W Limits

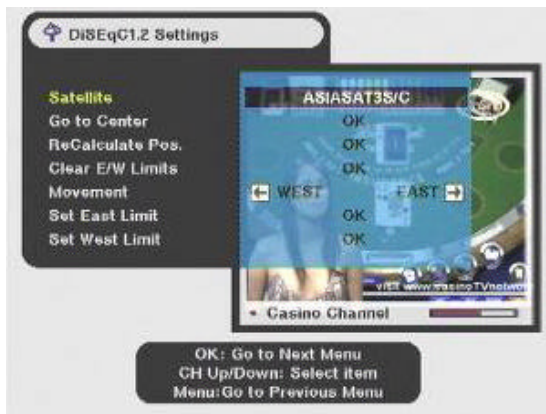
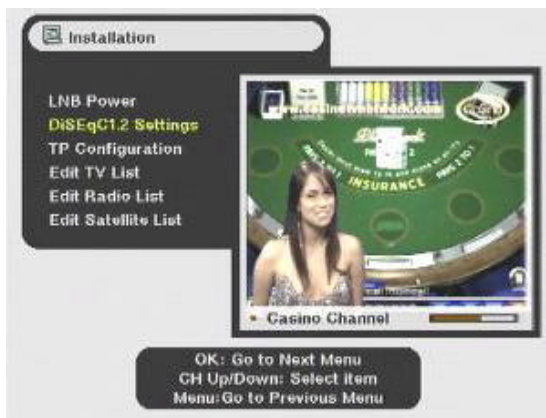
Set dish position's East or West limit, clear the limit value.

Movement

In User mode this is used to tune the position of the motor. In Installer mode this is used to search for the position of a satellite manually.

Set East/West Limit

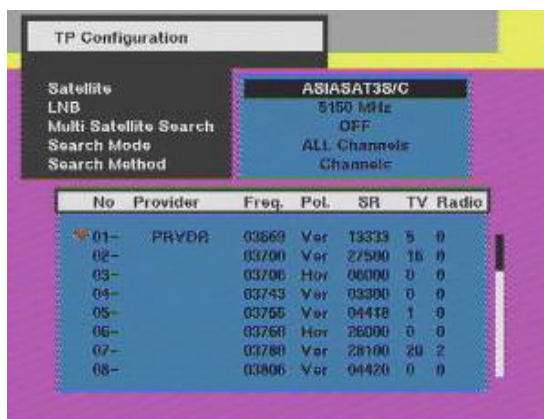
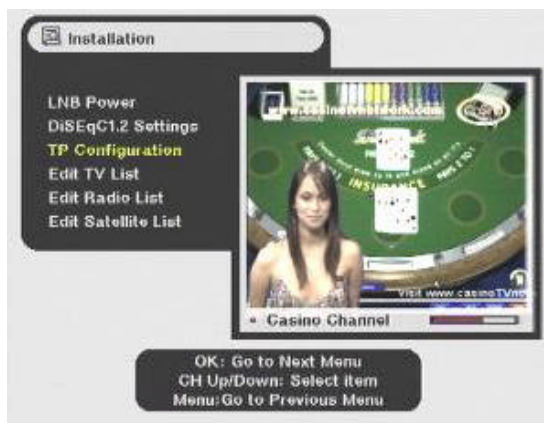
Set dish position's East or West limit, disable limit value.



<TP Configuration>

You have to know valid value for your LNB at first.

1. Select TP Configuration of the installation.
2. Select correct name of Satellite. If there is no proper satellite name in the item, select one from any of USER1 ~ USER8.
3. To change value of LNB from each satellite, press OK button from LNB.
4. For universal type of LNB, select Universal from LNB Type item and input the LNB frequency value on L.O Freq. Low by using VOL or numeric key. For standard type of LNB, select Standard from LNB Type and input correct value on L.O. Freq..
5. While only 1 antenna is in use, set the 0/12V switch and DiSEqC mode to Disable. In case of STANDARD, select OFF from 22KHz. If more then 1 antenna is in use, select 0V or 12V from 0/12V switch, or select a proper position from Mini A, Mini B, DiSEqC 1~DiSEqC4 by different DiSEqC type as you are using DiSEqC switch.



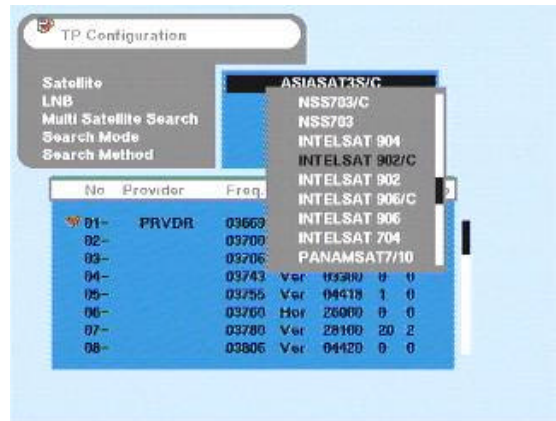
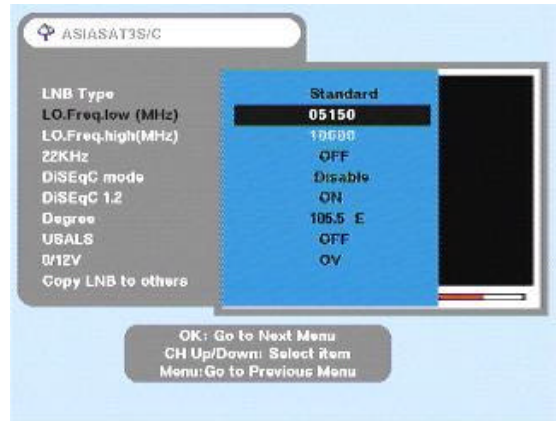
6. USALS

If you want to set USALS (Universal Satellite Automatic Location System), you must enter your longitude value and you must set USALS menu to "ON" and enter position value at LNB menu in the TP configuration. The DiSEqC code value will be automatically sent to Motor. If you also set DiSEqC 1.2 to "ON", the USALS function will not work.

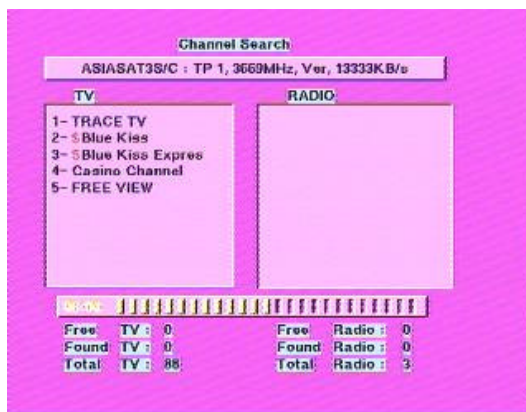
7. Select Search Channels on the TP Configuration press OK, all the available TP will be searched automatically.

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

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



10. After all the values are input, select Search Channels and wait until the automatic search is completed. If FTA only is selected as Yes, only free channels will be searched without scrambled pay channels. Otherwise all channel with scrambled pay channels will be searched. Scrambled pay channels is marked as \$ at the beginning of the channel name.



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

To find not only TP information but also all the channels from current satellite, select Network Search.

11. In case of searching a certain satellite which can not be searched by TP Search, add channels by PID. Select Add Channel and input proper Channel name and input the values of Video PID, Audio PID, Audio PID and PCR PID. Then, press OK button from the Add item.

Viewing TV(or Radio)

1. Press the TV(or Radio) button.

2. If you want see all TV channel list, click the OK button and then select the TV Channels(or Radio Channels). TV Channels(or Radio Channels) window will appear.



Viewing Favorite Channel

1. Press FAV key.
2. Select a CH ▼ ▲ . To move to next or previous page, press PAGE UP/DOWN(Double Arrow) buttons on Favorite TV(or Radio) List.
3. Press FAV key more will bring you to another Favorite TV (or Radio) List.

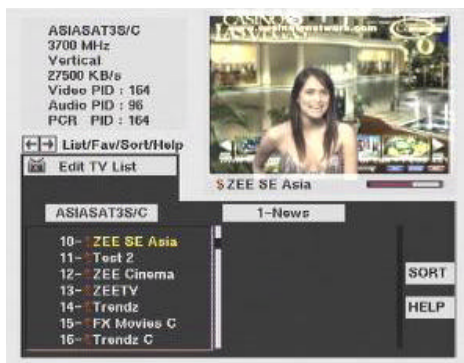
Other Function

Edit TV Channels/Edit Radio Channels

From these menus you can create and channel list. Press OK button from Edit TV Channels and similar screen will be shown as below.

Arrange channel

To change the channel orders from TV List,press OK button from your desired channel. Then you should move to desired number by pressing CH ▼ ▲ , after then press OK button. Its orders will be changed.



Delete channel

To delete a certain channel from current TV List,press DEL button on the channel to be deleted. To confirm the deletion, press DEL button once more. This function will delete the channel completely and you have to search channel again for the reactivate channel. Use SKIP button and the skipped channel will not display in the channel list.

Create favorite channel

You can create favorite channel list,containing the channel which you want to watch frequently.

Press FAV button channel you want, and then selected channel will be moved to Favorite List box. To delete the desired channel from from the Favorite List, press DEL button.



Help function

You can see the functions of each button in Edit TV List. Select the HELP button.

Sort

If you want to sort channels in order, select the SORT button in Edit channels. You can select the order you want.

LOCK

Lock Channels

From here you can lock channels in any of the lists in order to prevent your children from watching.

Satellite Lock

When you want to lock all the channels in the satellite, go to the Edit Satellite List. You can select the specific satellite in the Satellite Favorite List, press LOCK button.

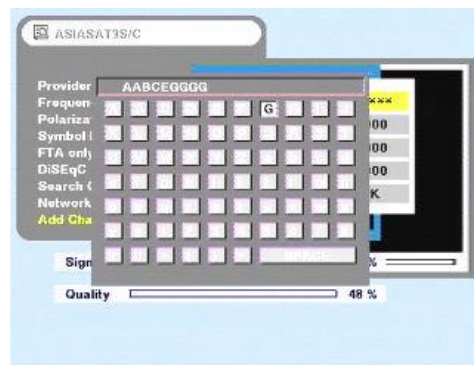


Edit Channel Name

1. Press REN button on Edit TV or Edit Radio list. Cursor will be moved by using VOL ,CH ▼ ▲ .

2. Press OK button on desired alphabet. To delete pre-selected alphabet, press DEL button.

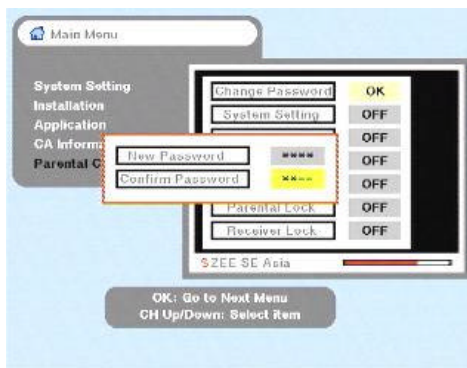
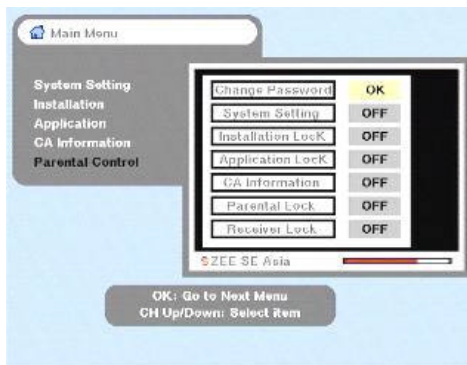
3. To change character set(upper,lower,number),press REN button. By using MENU button, it will be automatically stored and moved to previous menu.



Parental Control

If you use this function you have to enter the password every time you start this satellite receiver.

1. Select Parental Control on the Main Menu.
2. To secure program setting and installation, select Change Password.
3. Input 4 digit New Password. And input password Confirm Password once more. After all the password function is set, the unit will ask you to input password to get into the menus of Installation, System Settings, Application, CA information, Parental & receiver Lock. Input correct password which was already stored. If the password is forgotten, contact your service provider.



<System settings>

Please make sure to press OK buttons always, after the changing items of System settings.

Time & Date Adjustment

To set the GMT(Greenwich Mean Time) for EPG(Electronic Program Guide) by using VOL . If EPG in England is needed to set, adjust as 00:00. In case of Beijing, adjust as 08:00.

Set Time and Date for the receiver LED display and Calendar.

Language

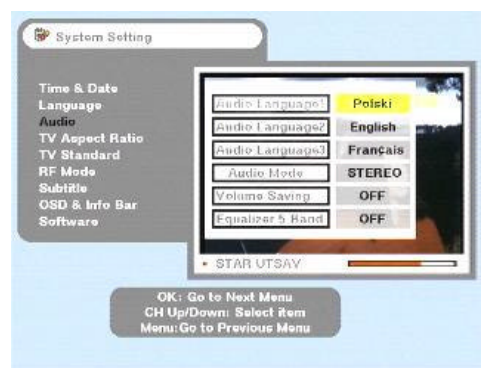
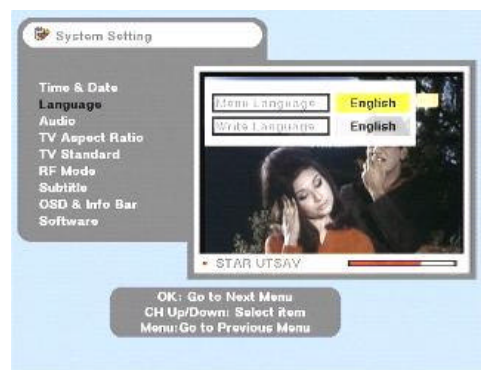
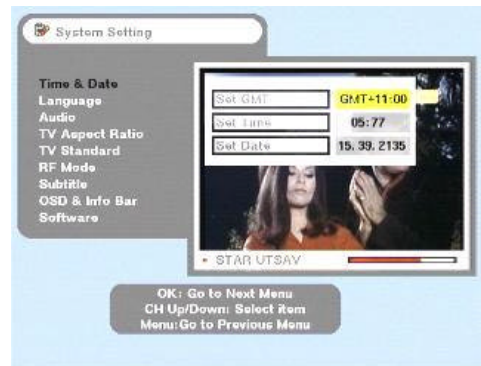
You can select the language for menu and writing, Phone Book, etc... select desired language from Language of System Setting.

Audio

Set the current available languages for you up to 3 languages. Then press OK button for its confirmation. Select desired audio mode among Stereo, Mono left & right. For general selection, Stereo is recommended. Also for the memorized volume for each channel, please set OK for Volume Saving.

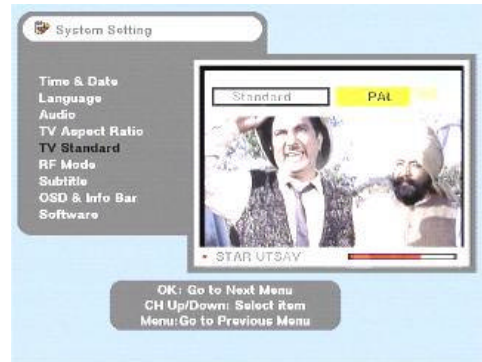
TV Aspect Ratio

Select 4:3 for normal TV or 16:9 for wide TV. Then press OK button for its confirmation. If 4:3 ratio is selected on normal TV for wide channel, both left and right side of the screen will be a bit trimmed. If 16:9 ratio is selected on normal TV for wide channels the screen trim symptom will not occur. However the screen will be in narrow view. Wide screen will be properly viewed, only when wide channel is broadcasting.



TV Standard

Except for few, most countries are using PAL system for TV signal, accordingly set TV Standard as PAL. To be more flexible for NTSC or PAL signal from different satellites, select MULTI for automatic signal conversion. Then press OK button for its confirmation.



RF mode

If the satellite receiver is connected to the TV with a RF cable, you have to set the RF mode, which is dependent on the country where the satellite is being used.

1. Select the Channel No(Select a channel of RF output of TV set that you are using).
2. Select the accurate RF mode of country the satellite receiver is used.
3. Select RF pattern with on and off. It will help you correct video quality with adjusting TV frequency.



Subtitle

Set the Subtitle language and mode.

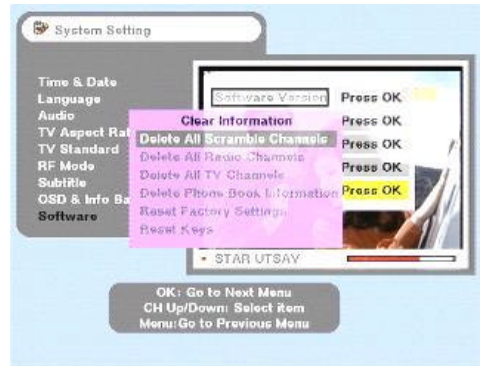
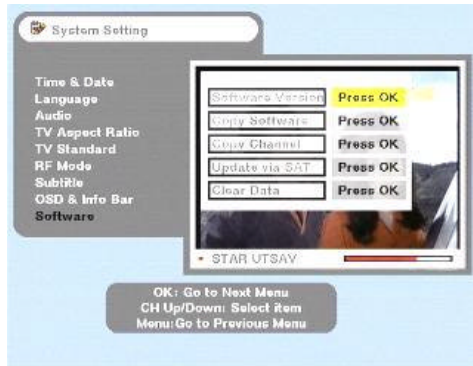
OSD & Info Bar

The color mode for OSD display menu screen is available from 4 different Color Set. By changing the Color set, the changes in color can be easily noticed with your choice. Also you can set the OSD and Info Bar appearance time and transparency.



Software

Press OK button from Software menu in System Setting. You can select available option at there. If you want initialization, select OK button at CLEAR DATA. Receiver will ask you the password and select the item you want to initialize. If you press OK button, after 1~2 seconds to initialize all the values to factory setting mode. After initialization, TV screen will show you at the Main Menu.

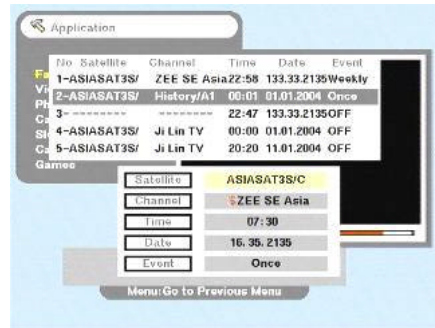


<Application>

Check the various kind of functions for your convenience and fun.

Favorite Program

You can save 5 favorite channels and the receiver will show you automatically at that time even you are watching other channels in different satellite. You can set up date and time of the favorite programs and will be notice you by daily, weekly, monthly as your selection.



Video Timer

When you were out of home and want to record some channel and programs from specific satellite at certain time, please set up your video timer. It will on and off automatically and as your set up. You have to set up your video recorder also for the recording.



Phone Book

Save frequently used telephone numbers. It will be available up to 99 numbers.

Calculator

Simple calculation function for your convenience.

Sleep timer

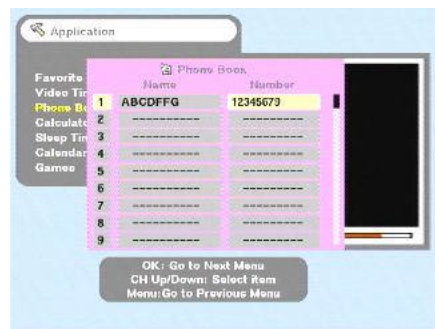
Select sleep timer up to 120 minutes.

Calendar

Check current date.

Games

Now available 5 games and it will be updated with new games time to time.



Troubleshooting

Troubleshooting

SYMPTOM	SOLUTION
No picture display and no LCD channel display	Check the power connection
No picture display with normal LCD channel display	1. Check the connection with TV 2. Check the connection between TV outside input and receiver cable
No satellite channel with MAIN MENU screen on	1. Check the LNB, Frequency, Polarization and Symbol Rate from Installation menu. 2. Check the connection of receiver of Antenna angle.
No sound with normal screen display	1. Check between sound output connector and TV 2. Check if it is not in MUTE condition
Remote control unit does not work	Check if the batteries in remote control unit are dead

Specification

LNB/Tuner	RF input frequency	950 to 2,150 MHz
	RF input level	-65 to -25 dBm
	LNB control	DuSEqC1.0/1.2, USALS
	LNB power	13V/18V (Max. 400 mA)
	LNB tone switch	22 kHz $\pm$ 2 kHz (0.6 Vp-p)
	External LNB switch	0/12V (40 mA)
MPEG	Video	MPEG-II Main Profile @ Main Level
	Audio	MPEG-II Layer I & II
VIDEO	Resolution	720 $\times$ 576
	Video output level	1 V p-p into 75 Ω
	Aspect ratio	4:3, 16:9
Audio	Frequency range	20 Hz to 20 kHz
	Sampling frequency	32/44.1/48 kHz
	Frequency response	20 Hz to 20 kHz Hi-Fi Quality Digital stereo
	Audio output level	2 V rms into 600 Ω
General data	Supply voltage	(100-240 V ~, 50/60 Hz)
	Power consumption	Max. 30 W (Standby 15 W)
	Operation temp	0 ~ 50
	Storage temp	-40 ~ 65
	Dimensions	265 (W) $\times$ 190 (D) $\times$ 45 (H) mm
	Weight	1.5 Kg