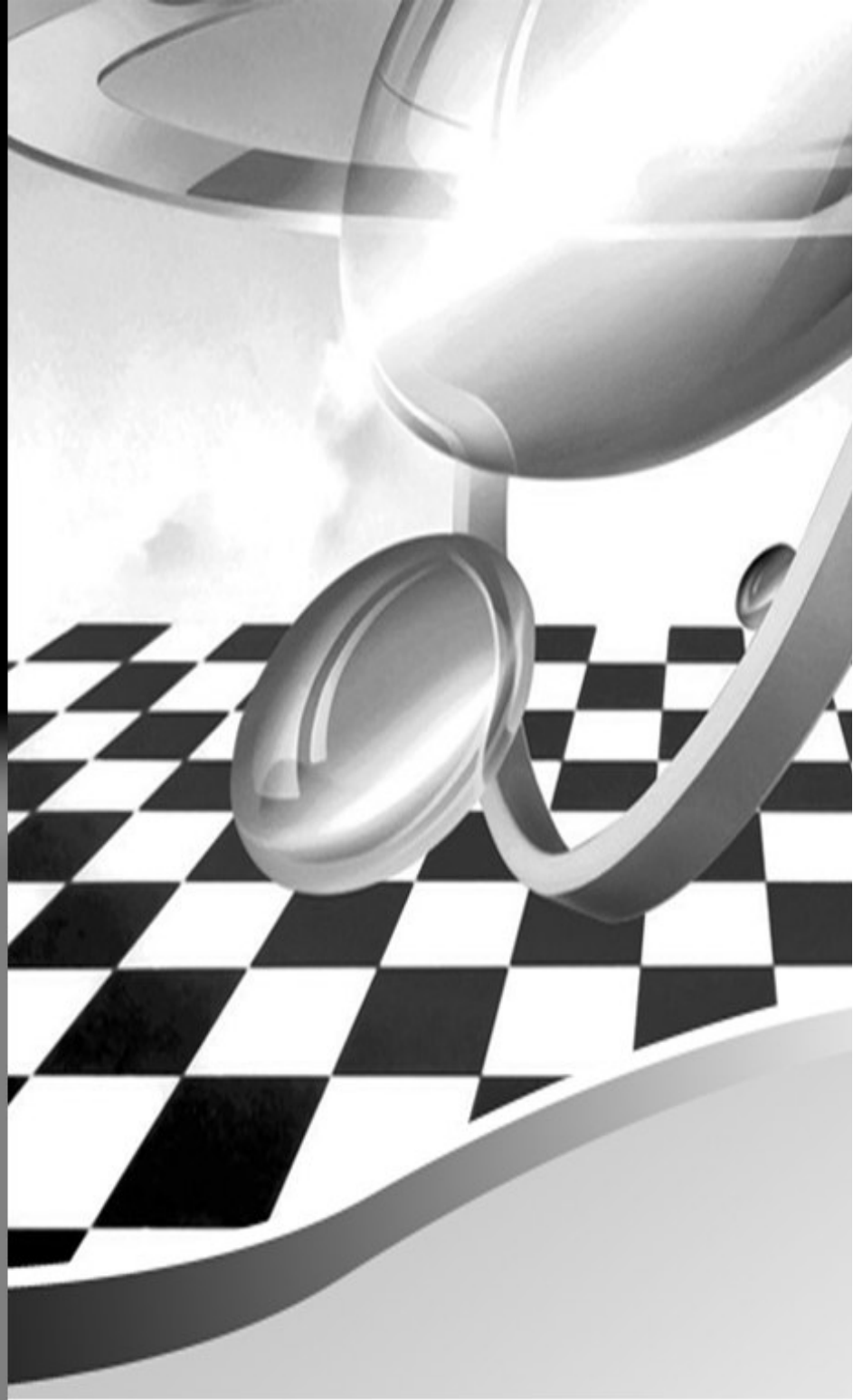


# USER'S MANUAL



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# General Information

## Safety and Precautions

*Thank you for purchasing the digital satellite receiver.*

*For your safety and proper operation, please take time reading this manual fully before installing and operating the receiver.*

*We hope you will be able to take advantage of the numerous functions with the help of this manual.*

### ☐ MAINS SUPPLY

Use only 100 - 250VAC 50/60Hz.

### ☐ OVERLOADING

Do not overload a wall outlet, extension cord or adapter as this may result in fire or electric shock.

### ☐ LIQUIDS

Do not expose to drippings or splashes and be sure that no objects filled with liquids, such as vases be placed on the apparatus.

### ☐ CLEANING

1. Always disconnect the STB power cord from the outlet before cleaning.
2. Use a light damp cloth (no solvents) to dust off the STB.

### ☐ VENTILATION

1. The slots on top of the STB must be left uncovered to allow proper airflow to the unit.
2. Do not stand the STB on soft furnishings or carpets.
3. Do not expose the STB to direct sunlight or do not place it near a heater.
4. Do not stack electronic equipments on top of the STB.
5. Do not use this appliance in airtight area.
6. Do not open the top cover.

### ☐ CABLE

Use standard certified cables to prevent any malfunction of the STB.

## ◆ Safety and Precautions

### □ ATTACHMENTS

Do not use any attachments that are not recommended as these may cause hazard or damage to the STB.

### □ CONNECTION TO THE SATELLITE DISH LNB

Disconnect the STB from the mains before connecting or disconnecting the cables from the satellite dish.

*Failure to do so can damage the LNB.*

### □ CONNECTION TO THE TV

Disconnect the STB from the mains before connecting or disconnecting the cables from the TV.

*Failure to do so can damage the TV.*

### □ EARTHING

The LNB cable MUST BE EARTHED to the system earth for the satellite dish.

The earthing system must comply with SABS 061.



### □ LOCATION

Place the STB indoor in order not to expose to lightening, rain or sunlight.

### □ SERVICING

1. Do not attempt to service this product yourself.
2. Refer all servicing to qualified service representatives

**NOTICE :** *The power remains on even when the switch is turned off.*

<b>WARNING</b> RISK ELECTRIC SHOCK DO NOT OPEN	TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
	This symbol indicates "dangerous voltages" inside the product that presents a risk of electric shock or personal injury.
	This symbol indicates important instructions accompanying the product.

# Remote Control Unit

**STANDBY (Power)**  
Power On/Off, Standby

**NUMERIC KEYS :**  
Select channels by channel numbers or enter programming parameters.

**TV / RADIO**  
Receiver switches between TV and Radio mode.

**PG UP/DOWN**  
Move up/down the cursor

**VOL (VOLUME)**  
Increase or decrease the volume. And move left or right highlight marked cursor.

**LIST/OK**  
Select menu option, or to updated on entry and to enter List menu

**MENU**  
Display the Main Menu

**AUDIO (Red Key)**  
Select audio mode (left, right, stereo, language)

**SUBT (Green Key)**  
Display subtitle contents

**REW** Rewind a programme.

**PLAY** Play a programme.

**R.SKIP** Skip a programme backward (Default interval : 10 seconds)

**REC**  
Record a programme

**CAPTURE**  
Capture current image

**REPEAT**  
Repeat a section

**Book.M** Bookmark key

**USB**  
Direct button to Connect USB port with PC

**TV/SAT**  
Receiver switches between TV and Satellite receive mode.

**M (MUTE)**  
Enable or disable audio

**Back (PREVIOUS)**  
Return to the previous menu, status or channel

**VOL (VOLUME)**  
Increase or decrease the volume.

**EPG**  
Display the TV/Radio Electric Program Guide

**INFO (INFORMATION)**  
Display channel status or various program information of current service.

**CH UP/DOWN**  
Tune to the next or previous channel. And move up or down highlight marked cursor.

**EXIT** Cancel the user selection

**SLEEP (Blue Key)**  
Operate sleep mode

**TEXT (Yellow Key)**  
Show Teletext

**FWD** Fast forwards a programme.

**STOP** Stop a programme.

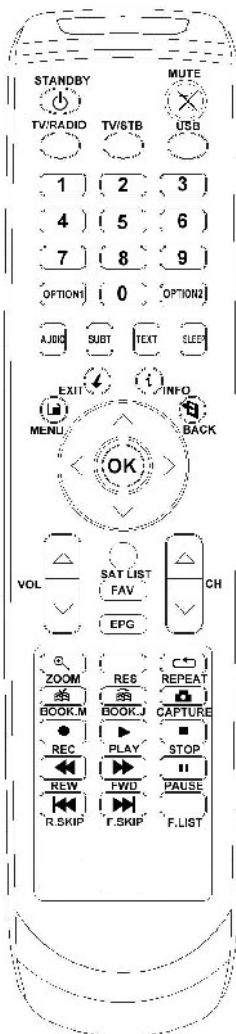
**F.SKIP** Skip a programme backward (Default interval : 10 seconds)

**PAUSE** Pause a programme

**Book.J** Bookmark jump key

**Sat list** View a satellite list

**SLEEP** Operate Sleep mode.



**FAV (Favorite)**  
Set receiver to favorite service mode, display the favorite channel.

# System Connection

## ◆ Front Panel



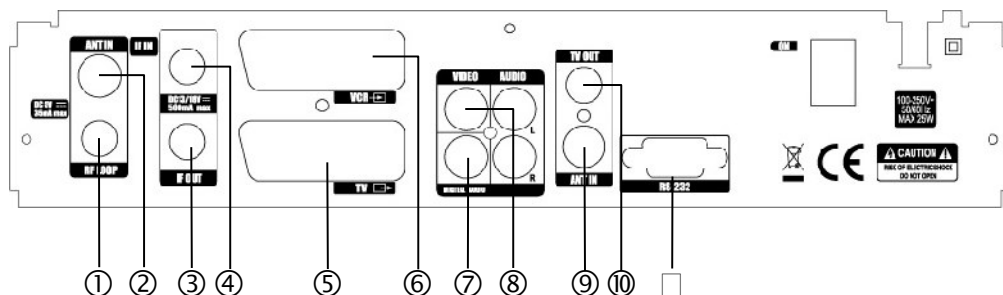
- ☐ *Normal Display :*
  - On
  - STANDBY
  - Channel Number
  - Channel Name
- ☐ *Tact switch :* Standby On/Off, CH UP/DOWN, Menu, OK, Vol. UP/DOWN
- ☐ *Smart Interface slot :* 1 Smart card slot
- ☐ *USB Port :* 1 adapted the USB component port

### NOTICE :

2. *Current time is based on the TDT(Time and Date Table) in the stream of the current service. If the TDT information is not correct, current time might be incorrect.*
3. *Please do not insert metal or alien substance into the slot for the modules and Smartcards. In doing so can cause damage to the STB and reduce its life span.*

# REAR PANEL

## ➤ Rear Panel



Please refer to the diagram above for all possible connections of your receiver

*Do not connect the unit to the mains socket until all other connections have been made and checked.*

① ANT IN : Use to connect an Terrestrial antenna

② RF LOOP OUT : Use to connect a RF signal from this receiver to RF(Ant)  
input jack on TV

③ IF OUT : This enables the connection of an Analogue receiver.

④ IF INPUT : This port is to connect the coaxial cable from LNB of your Dish.

⑤ TV SCART : This is used to connect your TV through Scart cable

⑥ VCR SCART : This Scart connector is used to connect any external video.

⑦ S/PDIF : This is used to connect with Digital audio amplifier (Optional)

⑧ VIDEO : This RCA connector is used to connect your TV through RCA cable.

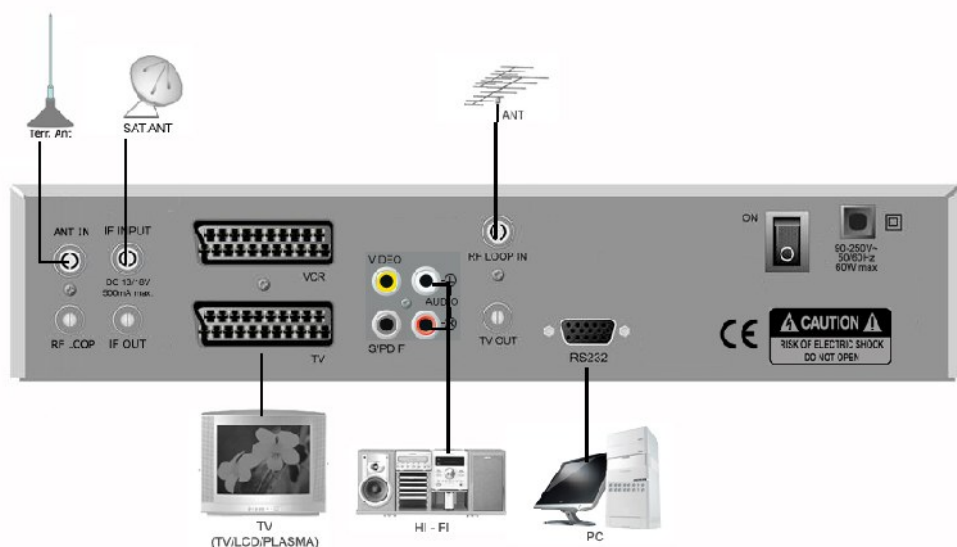
AUDIO R/L : These RCA connectors are used to connect your TV through  
RCA cable or any external audio amp or system

⑨ ANT IN : To connect the terrestrial antenna

⑩ TV OUT : To connect the RF signal to a RF(ANT) input e.g. VCR, TV

□ RS 232C SERIAL PORT : This is used to connect your receiver with a  
computer or other STB through a serial cable.

## ➤ Connecting Your System



### □ TV Only

There are two ways to connect the STB to your existing TV system. We recommend using one of the following cases for the best result :

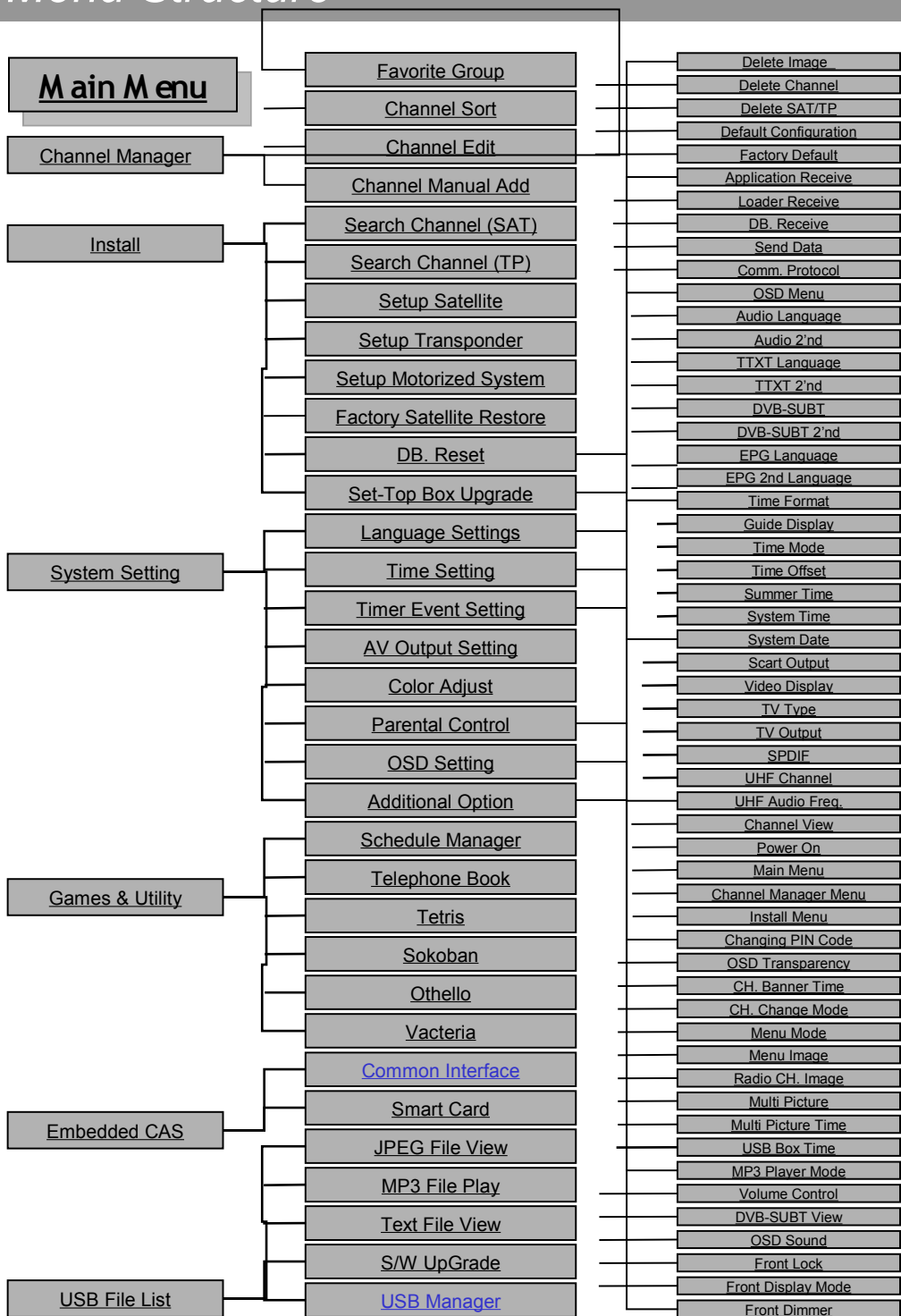
- Connect one end of RCA cable (Composite Video, Audio Left, Right) to the RCA jack on the back of the STB and the other end to a RCA Jack on your TV.
- Or connect one end of a SCART jack on the back of the STB and the other end to a SCART input of your TV.
- Finally connect the coaxial cable from the LNB to the LNB IN jack on the STB.

### □ With External Audio / Hi-Fi System

- To connect any external Audio Hi-Fi system, the receiver has been provided with two RCA connectors at the back of the receiver marked with Audio L and R.
- Connect an RCA stereo cable from the AUDIO L, R jacks on the back of the STB to the LINE, AUX, SPARE OR EXTRA input jacks on your Hi-Fi System or for better quality connect the S/PDIF output to the S/PDIF input of the Hi-Fi system



# Menu Structure



## Installation

### □ Initial Service Searching

#### Menu Language

Select Language With “◀”, “▶” Key On The RCU, Then Press Ok Or Menu Key To Continue.

#### Factory Sat/Terr Restore

After booting, select an area with “◀”, “▶” key on the RCU. this moment, PIG on the right side of the screen shows the receive-able range.

After selecting the area, move to a certain Satellite with “▲”, “▼” button on the RCU, there will be range and signal strength in the PIG.

If the users wants to find satellites easily, press the “Yellow” or “Green” button to sort by name and longitude.

Then, Press “OK” key on the RCU to edit satellite connection and it will move to setting mode.

And then, If it is wanted the searching terrestrial channel, select an area with “▲”, “▼” key on the RCU. After selecting the area, move to a certain. Starting the channel search.



#### Selected Satellite Edit

##### 1) Motorized System

Select motor system. (OFF, v1.2 or USALS system)

##### 2) LNB Type

Depending on the type of LNB cling to your antenna, you can supply either LNB by setting “single” or “universal”.

##### 3) Local Freq.

Users can input local frequency directly with numeric keys on the RCU. (0....9, one cable1/2 , 5150, 9750, 10600, 10750mhz). to move the cursor, press cursor “◀”, “▶” keys on the RCU.

##### 4) DiSEqC

To the supported the DiSEqC 1.0/1.1. you can selected the dish to the connection.

\* Finally press “Red” key to save settings.



# Menu Guide

## Installation

### Service Searching

#### Setup Satellite

When Selecting Setup Satellite In Install Menu.

#### 1) Degree

Users can edit satellite degree by using numeric keys on the RCU.

#### 2) LNB Frequency (High / Low)

Input the frequency directly from the numeric keys on the RCU or press "OK" on the RCU to scroll frequencies and to select.

#### 3) LNB Power

Select LNB voltage.(On/13V/18V/Off)

#### 4) DiSEqC Ver.

DiSEqC must be used when using two or more antennas and LNBs.

Select DiSEqC 1.0 or DiSEqC 1.1.

#### 5) DiSEqC

- Committed

Set The Port Number Of DiSEqC 1.0

Switch ( P-1 To P-4), Auto, Off

- Uncommitted

Set The Port Number Of DiSEqC 1.1

Switch. (P-1 To P-16 ), Off

#### 6) 22KHz

In case you are using a dual LNB or two antennas connected to a 22KHz tone switch box, make 22KHz tone switch enable or disable to select LNB or antenna.

#### 7) 0/12V

#### Setup Terrestrial

When Selecting Setup Terrestrial In Install Menu.

#### 1) Antenna Power : You can selected the

Antenna power, move the power to the left or right by pressing the "◀", "▶" keys selection.

If you use active antenna(5Vdc IN),

STB will supply 5V dc(35 mA max)

#### 2) LCN (Logical Channel Network) search :

Selected the on or off.



## Installation

### □ Service Searching

#### Setup Motorized System

When Selecting Setup Motorized System In Install Menu.

- 1) Motorized System 1.2(motor) : You can move the motor to the left or right by pressing the “◀”, “▶” keys selection. at v1.2 , USALS, off mode.
- 2) Save Position : When you press the “OK” key on the RCU.
- 3) Degree : Press “OK” key on the RCU first, then, press numeric number keys on the RCU to edit degree directly.
- 4) Move :Select TP and use the cursor with RCU keys to “Move” menu to move the motor. Refer to the signal strength (as visual graphic chart), at this time. The motor will move by step by pressing left/right cursor keys shortly on the RCU. The motor will move continuously if users press cursor keys steadily on the RCU. The movement of a motor will be shown on the upper screen.



#### Setup Transponder

When Selecting Setup Transponder In Install Menu.

- 1) Delete : Press “Green” key on the selected TP to delete the TP.
- 2) Sort : Press “Yellow” button to sort TP by TP name or Frequency
- 3) Edit TP : Press “OK” key on the TP to edit.
- 4) TP data change :
  - When the cursor is on the TP name, press “OK” button to change the TP name.
  - TP Edit
    - Place the cursor on the sub menu by using the ▲▼ keys and press the ◀▶ keys or “NUMERIC” key to change the setting.
    - Insert the frequency of the transponder you want to edit.
    - Input the symbol rate of the transponder you want to edit.
    - Select the polarization of the transponder you want to edit ( Horizontal / Vertical ) .
    - Select the FEC (Forward Error Correction) of the transponder you want to edit.
    - If you cannot find the desired transponder from the transponder list, you can add it by inputting appropriate parameter values for a new transponder and press the “Red” key to add new transponder.



# Menu Guide

## Installation

### Setup Transponder

5) CH Search : To search TP on the setup transponder mode, select TP first and then press “Blue” key to blind search channels or press “OK” to search.

### Search Channel

When selecting Search Channel (Sat/Terr) in Install menu.

1) Service searching : TV/RADIO, CAS, NETWORK SEARCH can be selected when “OK” key is pressed in satellite.

LCN search can be selected when “OK” key is pressed in Terrestrial.

To search multiple channels between satellites,

press “Red” key to select satellites.

Press up/down key to move cursor on the option then press “OK” button to begin searching.

2) SAT-Setup : If satellite setup was wrong, users can run setup edit by pressing press “Yellow” key.

Please refer page 12 for editing.

3) Blind Search : To blind scan, refer below information and start searching. “Blue” key

□ Polarization : Select All, Ver(13V), Hor(18V)

□ TP/Channel : Select All TV, RADIO or TP only

□ CAS : Select All (FTA+CAS), FTA or CAS only.

4) SCAN : Users can go to scan mode when “OK” key is pressed on the selected SATELLITE.

Then select few options to start scan by;

- TV / Radio channels
- CAS or FTA channels
- Network search

Press “Start” on the menu or press “OK” from RCU to start search.



## Install

### Search Channel (Sat/Terr)

STB will automatically search all TV/Radio channels from a satellite and save them into the Channel List.

You can see the progressive status of channel searching. Press the “Red” or “Exit” key to stop during the Channel Search.

When the Channel Search is completed, the result will be saved and the first channel of the searched ones will be displayed.

*Notice : Please wait for the receiver to process all the channels, and note that the “Channel Search” procedure may take a few minutes.*

### □ Service Searching

#### Search Channel (Transponder)

When selecting Search Channel (Transponder) in Install menu. (in [Satellite](#))

- 1) TP searching : First select the Satellite then choose the TP(s) by using the “RED” key or press the “OK”, another “OK” will start searching the selected TP(s)
- 2) TP Setup : To edit the parameters of the TP, press the “Yellow” key on the RCU.
  - Frequency
  - Symbol rate
  - Polarization
  - FEC

When selecting Search Channel (Transponder) in Install menu. (in [Terrestrial](#))

- 1) Channel Search : First select the Terrestrial then choose the channel by using the “RED” key and press the “OK”, another “OK” will start searching the selected channel.
- 2) Channel Setup : To edit the parameters of the channel, press the “Yellow” key on the RCU.
  - Frequency / Bandwidth / setting(Tx. Mode/Constellation/Guard Interval/Code rate)





# Menu Guide

## Installation

### □ Factory Sat/Terr Restore

Restores preinstalled Satellite List from the memory.

After booting, select an area with “◀”, “▶” key on the RCU. this moment, PIG on the right side of the screen shows the receive-able range. After selecting the area, move to a certain Satellite with “▲”, “▼” button on the RCU, there will be range and signal strength in the PIG. If the users wants to find satellites easily, press the “Yellow” or “Green” button to sort by name and longitude. Then, Press “OK” key on the RCU to edit satellite connection and it will move to setting mode.

### □ DB. Reset

Deletes User boot images, Channel, SAT/TPs go resets to Default configuration. Also to “FACTORY DEFAULT”.

### □ Set-Top Box Upgrade

PRESS OK on;

#### 1) Application Receive :

Only to receive application S/W from another STB or from PC.

#### 2) Loader Receive :

Only to receive Loader S/W from another STB or from PC.

DB Receive : To receive certain DB(DB All, CH All) from another STB or from PC

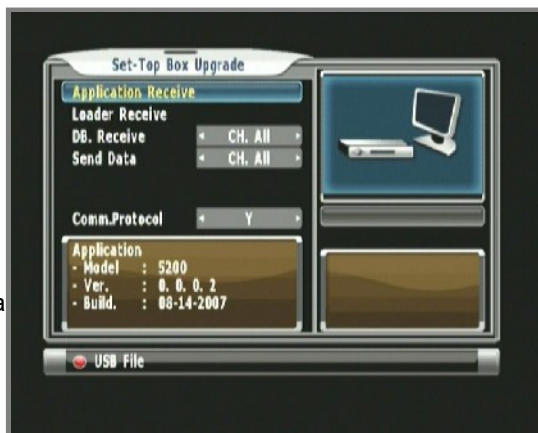
Send Data :

To send;

- All Data Base
- All channel
- Application S/W
- Loader

From;

Current STB to another STB or to a PC to store.



\* PIN CODE “0000” at the initial.

## Channel Guide

### Program Guide

#### EPG

The information is only available from the transponder of the channel you are watching.  
To see the titles of current & next program, press the “EPG” of the RCU. Depending on the amount of the EPG data, loading time might take a couple of seconds.



#### Ext. Event

When selected channel information is displayed  
To see the extended information of program, Press “RED ” key. The extended information may include :  
detailed information such as the actors, the providers . etc.



#### Reservation Functions

1. Maximum 10 events can be reserved.
2. To reserved the channels you want,
  - 1) Select the reservation broadcast using “▲”, “▼” or “◀”, “▶” keys.
  - 2) Reservation : Press “Blue” key
  - 3) Mode : Select the mode “Once / Daily / Weekly”.
  - 4) Time : Set the Start time using numeric keys.
  - 5) Duration : Set the duration time using numeric keys
3. Save : Press the RED(Update), Green(Add) to cancel the reserved channels, select “Exit”.





# Menu Guide

## ➤ Channel Guide

### □ Sort Channel

Easy to find a certain channel in channel list.

When the “OK” Channel List is displayed ,  
Press the “FIND” key continuously screen to  
sort by ALL, Alphabet, TP, CAS or Normal  
Channel number



### □ Multi Picture

Display shows 3 previous channels from the  
viewing channel and 2 channels forward from  
viewing channel.

The current viewing channel is displayed  
on the center of the screen.

Press “Multi Picture” from the remote control.



### □ Favorite Group

Favorite group is selected in Channel manager menu. There are theme category for grouping.

Favorite group register

Select a Favorite group and move the cursor to a channel with the “▲”, “▼” key and press  
the “RED” key to select channel(s). Then GREEN key to ADD the channel(s) in a favorite  
group. [Select the theme group and press OK to register.](#)

[Also Deleting and Renaming the Favorite Group is possible in this menu.](#)

## ➤ Channel Manager

### □ Channel Sort

Sort by channel name, Sat/TP and in CAS order at the satellite or LCNs Sort at the Terrestrial.

### □ Channel Edit

To Lock, Rename, Delete or Move channel(s).



### □ Channel Add (Manual PID)

When the PID (broadcast data) of a certain channel is changed, PID value can be adjusted in "Channel Manual Add" menu.

1. Select a satellite where the channel PID is to be changed.
2. Select the transponder of the channel.
3. Select the channel with the cursor by pressing the RED key.
4. On the channel, press "OK" key.
5. Input value with the numeric key.
6. To add a new channel select "Add" and input the value, to modify an existing channel PID value select "Update". These selection can be done by hot key.  
(“Red” and “Green” Key)

The new added channel name can be modified by pressing "OK" on the current channel name.

To display in either hex value or decimal value press the "Yellow" key.

To check and view the modified channel press "VIEW" to display PIG screen on the right side of the screen.

The PID can be viewed in DECIMEL or HEX value by pressing the "Yellow" key.

# Menu Guide

## ➤ System Setting

### □ Language Setting

To select the desired language of the OSD Menu , Audio, 2'nd Audio, EPG Language, EPG 2'nd, TTX.T.Language, TTX.T.2'nd, DVB-SUBT., DVB-SUBT.2'nd place the cursor on the sub menu by pressing the “▲,▼” keys and press the “◀,▶” keys to change language.



The Language of the OSD Menu , Audio, and

### □ Time Setting will be changed to the selected language.

#### 1. Time Format

Displays in 24HR mode or in AM/PM mode.

#### 2. Guide Display

Control information display time on live channel in EPG screen. (time : 3Hour, 1 ~ 7 Days)

#### 3. Time Mode

To set time automatically from TDT information if set to “Auto”.

#### 4. Time Offset

Date is displayed by GMT time standard. (Changeable only in “Auto Time” mode.)

#### 5. Summer Time

#### 6. System Time / Date

When Time Mode is in “Manual” the time and date information is set by numeric and “◀,▶” keys on the RCU.

### □ Timer Event Setting

#### 1. Wakeup

Wakeup time can be selected.

#### 2. Standby

After certain amount of time, STB can be automatically turned off.

#### 3. Timer

User can setup reservation for a Start / End time of a specific up to Max. 10 Timer.

Press “RED” key to save the settings and “GREEN” key to Add the settings.

## System Setting

### □ AV Output Setting

#### 1. Scart Output

Video output can be selected RGB, CVBS, Component.

#### 2. Video Display

##### 1) When Aspect Ratio 4:3

- PAN SCAN : Center part of 16:9 image shown on full screen when 16:9 transmission

- LETTERBOX : Whole 16:9 image is shown on screen with horizontal black bars on top and bottom.

#### 3. TV type

Select the format of the video to be displayed on screen. You can choose either 4:3 ratio (Standard) or 16:9 (Wide) according to the TV type.

#### 4. TV Output

TV output can be selected as Auto/PAL/NTSC/SECAM

#### 5. SPDIF (Sony Philips Digital InterFace)

Digital audio out put can be selected On/OFF

#### 6. UHF Channel

Select RF modulator output channel number from 21 to 69.

#### 7. UHF Audio Freq.

Select from "PAL-B/G", "PAL-I", "PAL-D/K", "PAL-M"



### □ Color Adjust

Except default adjustment, users can adjust below ration for changing.  
(Default/Sports/Movie/Cartoon/User)

User defined adjustment can be changed as range.( -32 ~ +31)

### □ Parental Control

You can change your PIN Code from the factory default value "0000" as follows:

#### 1. Channel View

Off, Continuous, Once.

#### 2. Power On

To lock the receiver, select "Power On" in the "Parental Control" menu and change it to the "On" mode by using the "◀,▶" keys.

If the receiver is locked, whenever you try to start the STB, the "PIN Code" screen will appear and you will be asked to enter your PIN Code.

# Menu Guide

## ◆ System Setting

### □ Parental Control

#### 3. Main Menu

To lock the receiver, select “Main Menu” in the “Parental Control” menu and change it to the “On” mode by using the “◀,▶” keys. If the receiver main menu is locked, whenever you try to Menu key the RCU, the “PIN Code” screen will appear and you will be asked to enter your PIN Code.

#### 4. CH. Manager Menu


To lock the Channel Manager, select “Channel Manager Menu” in the “Parental Control” menu and change it to the “On” mode by using the “◀,▶” keys.

#### 5. Install Menu

To lock the Install, select “Install Menu” in the “Parental Control” menu and change it to the “On” mode by using the “◀,▶” keys.

#### 6. Changing PIN Code

You can change your PIN Code from the factory default value “0000” as follows:

Select “Change PIN Code” in the “Parental Control” menu. You will then be asked for a new PIN Code when the changing PIN Code pressed. Once you enter a new PIN Code, the system will ask you to re-enter for confirmation. When you have entered a new PIN Code twice, the PIN Code has been changed. If you forget the PIN Code, contact the distributor to recover it. [8. Parental rating](#) 

### □ OSD Setting

1. OSD Transparency : default 8. setting the 1 ~ 10 step.

2. CH. Banner time : default 5 second. Setting off, 3 ~ 10 second.

3. CH. Change mode : default freeze. Selected the black or freeze.

4. Menu Mode : default picture mode. Selected the picture, live and PIP.

5. Menu Image : default internal on picture mode. Selected the Internal, user or off mode.

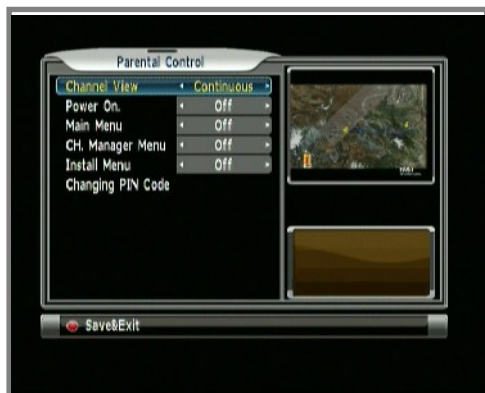
6. Radio CH. Image : default internal. Selected the internal, user or off mode.

7. Multi Picture : default 6 pictures. Selected the 4, 6, 9, 13 or 16 pictures.

8. Multi Picture Time : default 5 second. Selected the 5 ~ 10 second.

9. USB Box Time : default 5 second. Selected the off, 1~9 sec or continuous.

10. MP3 Player Mode : default picture mode. Selected the picture or live mode.



## System Setting

### □ Additional Options

#### 1. Volume Control

ALL: Volume level applied for ALL channels.

Singly: Will save the volume level status for each individual channel.

#### 2. DVB-SUBT View

Select DVB-Subtitle

#### 3. OSD Sound

#### 4. Front Lock

To lock the receiver, select “Front Lock” in the “Additional Option” menu and change it to the “On” mode by using the “◀, ▶” keys.

If the Front key is locked, don’t control at the front key.

#### 5. Front Display Mode

Selecting CH. Name or CH. No. the front 7 segment will display be either Channel or Channel number.

#### 6. Front Dimmer

Front Display of the box’s bright can be adjusted from step 1 to step 5

#### 7. LCNs Mode

- LCNs Sort : On, Off mode selected

- LCNs Undefined No. : 100 ~ 900 numbering.



## Games & Utility

### □ Schedule Manager

### □ Telephone book

Users can manage telephone numbers

### □ Games

Tetris, Sokoban, Othello and Vacteria

## CA

### □ Smart Card

STB is an embedded smart card receiver, please insert a valid smart Card to view channels. For proper operation always insert the smart card IC face down.

### □ Common Interface

# Menu Guide

## USB File List

### □ JPEG File View

View a JPEG image from a USB memory.  
Also change the default "MENU" background image as to a user desired JPEG image.

\* To go back the original background image, do a DB. Reset from the "INSTALL" menu.

### □ MP3 File Play

Play a MP3 music file from the USB memory.

### □ Text File Play

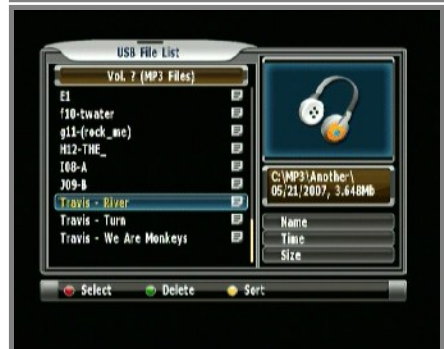
To display a TEXT file on the TV from the USB memory.

### □ S/W Upgrade

To Upgrade the S/W from the USB memory.  
(The latest S/W should be prepared in the USB memory in advance)

### □ USB Manager

Drive Change, Drive Format and Drive Speed mode selected.





## ◆ List Menu

This menu helps you to easily select the channel that you want to watch or edit.

To display the Channel List, press the “CH List” or “OK” key while you are viewing a program and you will see all channels that you saved in the channel list.

To watch a specific channel, first select by using the “▲, ▼” keys, and press the “OK” key to confirm. (For page scroll, press left/right key or the scroll keys on the RCU)

You can also select a specific channel by pressing the numeric keys directly.

The symbol of “Lock” & “Scrambled” feature displayed on the Right side of the list stands for locked channel or scrambled channels.

- When you press the “TV/Radio” key, you will toggle from TV to Radio Channel List.
- When you press the “FAV” key, you can see each favorite channel list .
- The channel list can be constructed independently for each Satellite, Favorite Group, TV or Radio, by pressing the “TV/ RADIO, SAT LIST, CH LIST and FAV” keys.

At these menus press “FIND” key repeatedly of the RCU to easily find channels in Alphabetical, TP, CAS or Normal channel number order.

## ◆ Info bar (i-Plate)

Press once “I” (Information Key) on the RCU. To display i-plate for quality (Green).

Also the satellite name, channel number and name/TDT/ program type (FTA/ CI ...), Channel Lock, Teletext, Subtitle, AC3 audio and now EPG is displayed.

Pressing one more “I” Key in the I-plate, display the current channel information (frequency, PID information and now EPG detail information).



: Scrambled channel



: Sound AC3 display



: Teletext information



: Subtitle information



: Lock channel display



: Favorite Channel



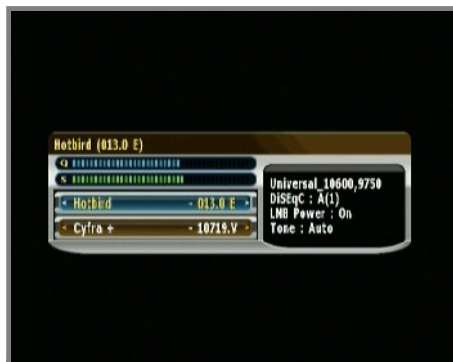
Pressing the “I” (Information Key) in the Channels List will display the Satellite, Frequency, Symbol Rate and other additional information.



# Functions Guide

## SIGNAL

To display the current Strength and quality of the signal including the current Satellite information.



## ZOOM

Press zoom key on the RCU to close up the screen as x1/ x2/ x3/ x4 rates.

On the zoomed screen it can move by "▲", "▼", "◀", "▶" key.

To quit zoom, press exit key.



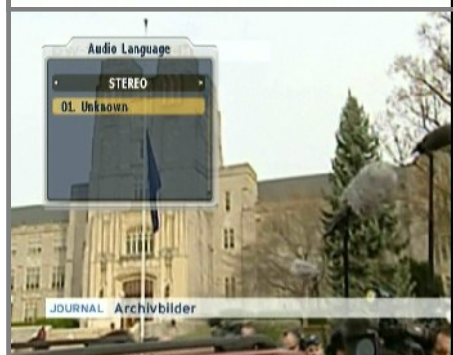
## Quick Edit

When the user wants to register or change the current favorite group while viewing or to lock or delete a channel press the "FIND" in the no menu state of the RCU for quick edit.



## Audio Language

Users can select audio language press the "AUDIO" key of the RCU.



## Technical Specification

### Conditional Access Interface

Smart	1 Slot Smart card interface
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Front End	Satellite	Terrestrial
Input Frequency	950~2150MHz	51 ~ 860MHz
Input Impedance	75 $\Omega$	75 $\Omega$
Connector	2xF-Type	1X IEC(Male,Female)
RF Input Level	-65~-25dBm	20 dBm to -75 dBm
LNB Control	DiSEqC 1.0 , 1.1 & 1.2, USALS	
LNB Power	13V/18V (Max500mA with short circuit protection)	
LNB Tone Switch	22KHz	
Wave Form	QPSK (SCPC, MCPC capable)	OFDM
Symbol Rate	2~45 MS/S	

### A/V Mode

Video	MPEG-II Main Profile/Main Level
Audio	MPEG-I Layer I&II
Aspect Ratio	4:3, 16:9
Audio Sampling Rate	32, 44.1, 48KHz
Audio Type	Mono, Dual Mono, Stereo, Joint Stereo
Graphic Display	720x576(PAL), 720x480(NTSC)

# Specification

## ➤ Technical Specification

Connectors		
Tuner	Satellite	IEC 169-24,Female With 1 Loop Through Out
	Terrestrial	IEC 169-2 Female/Male(Loop through out)
Video Output		1 x RCA/Cinch 1 x SCART
Audio Output		2 x RCA/Cinch 1 x SCART
S-Video Output (Optional)		1 x Mini DIN
S/PDIF (Optional)		1 x optic con. (Dolby Bitstream Out Available)
Modulator Output		PAL Modulator (UHF CH.21 ~ 69)
RS232C		9 Pin D-Sub RS232C serial port

General Characteristics	
Power Type	SMPS
Supply Voltage	100-250VAC, 50/60Hz
Power Consumption	Max. 25W
Display	4 Digit, 7-Segment
Weight	Approx. 1.65Kg
Dimensions	300(W) x 220 (D) x 60 (H) mm
Channel Storage	Max. 5000CH
Operating Temperature	0 ~ 45°C
Storage Temperature	-10°C ~ 70°C

Please Note : The specification of the STB may be changed without notice in advance.

# Trouble Shooting Guide

## ➤ Trouble Shooting

If you suspect there is a fault with your receiver, please check the following trouble shooting guide before calling an authorized service agent.

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Warning! Under no circumstances attempt to repair the receiver yourself. Tampering with the receiver may result in fatal electric shock and will invalidate your warranty.

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Symptom	Possible cause
No display on the Display Panel	<ul style="list-style-type: none"><li>• The power cord is not plugged in correctly.</li></ul>
No picture on the screen	<ul style="list-style-type: none"><li>• Receiver is in Standby mode.</li><li>• SCART Jack is not connected firmly to the video output port of television.</li><li>• Incorrect channel or video output is selected on television.</li><li>• Brightness level of your TV set is incorrectly defined.</li></ul>
No sound	<ul style="list-style-type: none"><li>• The SCART cables are connected incorrectly.</li><li>• The Volume level is low.</li><li>• Muting function is active.</li></ul>

# Trouble Shooting Guide

## ➤ Trouble Shooting

Symptom	Possible cause
Poor Picture Quality	<ul style="list-style-type: none"><li>• The level of Signal strength is low.</li></ul>
Receiver not responding to remote control unit	<ul style="list-style-type: none"><li>• RCU batteries are dead or inserted incorrectly.</li><li>• The RCU is pointing toward wrong direction.</li></ul>
Receiver is on but no picture or sound except the following messages (No signal, Locked channel, Not available)	<ul style="list-style-type: none"><li>• Channel is not available.</li><li>• Channel is locked.</li><li>• Service installation not yet done.</li></ul>
No Signal	<ul style="list-style-type: none"><li>• The level of Signal strength is low.</li><li>• LNB is out of order.</li><li>• The cable from the LNB is incorrectly connected.</li><li>• The position of the dish is aligned incorrectly.</li></ul>
Settings you made in the menu have now changed	<ul style="list-style-type: none"><li>• The receiver lost power before being able to enter into standby mode.</li><li>• Some of the Settings saved by user can be deleted partly or fully.</li></ul>

