

# DIGITAL SATELLITE RECEIVER OPERATION MANUAL

**DVB**  
Digital Video  
Broadcasting



**S9000**

**DEAR CONSUMER**

**GREAT APPRECIATION FOR PURCHASING OUR PRODUCT; TO SECURE THE  
BEST PERFORMANCE AND THE HIGHEST SAFETY, PLEASE READ THE  
FOLLOWING EXPLANATION CAREFULLY**

**PLEASE READ THIS MANUAL WITH SUFFICIENT CAREFULNESS AND  
PATIENCE PRECEDE THE CONNECTION AND INSTALLATION**

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## SAFETY INSTRUCTION

### Please read the following instructions carefully!

- Do not overload the following wall outlets, extension cords or integral convenience receptacles as this can result in a risk of fire or an electrical shock
- Never allow liquids, sprays or other material to be exposed with the inside of the **STB**
- Unplug the **STB** from the wall outlet before cleaning and use the soft cloth to clean the exterior of the **STB**
- The LNB cable must be earthed to the system that earthing for the satellite antenna
- The parameter of using power source should be squared with which indicating on its rear panel, otherwise, the machine will work improperly and even be ruined
- To maintain the suitable antenna installation position, the proper antenna installation angle, the adequate antenna earthing, the normal antenna anti-interference measure; Keep the earthing of the outdoor antenna separating with the indoor equipment's
- Do not place the **STB** where it is exposed to sunlight directly or near a heater
- Never stack other electronic equipment on top of the **STB**
- Place the **STB** indoor properly to prevent lightening, raining and direct sunlight
- The location where connecting with the connector plug of this machine should be served as the disconnect device, and should be maintained on the state of power-supplying always
- Protect the power line from being walked on or being squeezed particularly on plugs, convenience receptacles (jack), and the spot where they exit from the apparatus
- Unplug this apparatus during lightning storms or when unused for long periods
- Refer all servicing to qualified service personnel. Service is required when the machine has been damaged in any case, such as power-supply cord or plug is damaged, liquid has been dropped into or objects have fallen into the interior, the machine has been exposed to rain or moisture, does not perform malfunctioning, or has been dropped on the ground, or other situations abnormally etc
- Warning: This unit should only be maintained by the authorized and the regular trained technician; Opening the cover or other attempts by the user to service this unit can lead serious injury or person-death from electrical shock, and can increase the possibility of risk of fire
- The naked flame sources, such as the lighting candles, shouldn't be placed on the apparatus
- Do not use any attachment that are not recommended as these may cause hazards or damage the equipment
- Note: All the OSD and illustrations in this manual may be somewhat different from the actual situation
- Please take the digital receiver as the standard



This symbol indicates "dangerous voltage" inside the product that present a risk of electric shock or personal injury



This symbol indicates important instructions accompanying the product

## CAUTION

RISK OF ELECTRIC SHOCK  
DO NOT OPEN

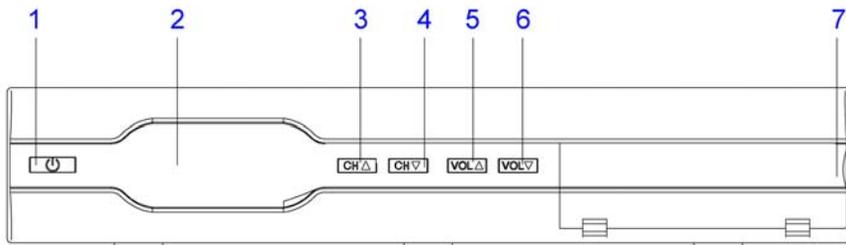
TO REDUCE THE RISK OF ELECTRIC SHOCK

DO NOT REMOVE COVER (OR BACK)

NO USER SERVICEABLE PARTS INSIDE

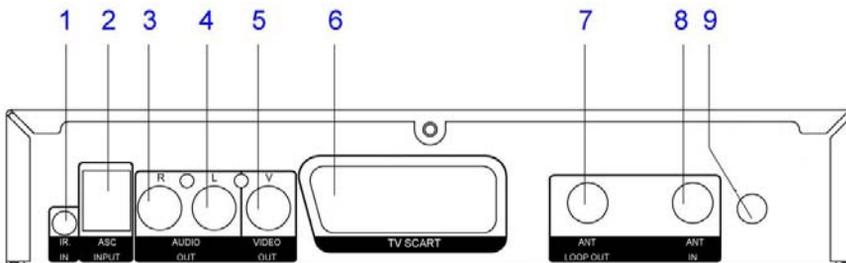
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

## FRONT PANEL



1. key standby. To instruct the receiver to the standby state or the normal state when the power is being inserted
2. LED-displaying board/ status indicator/ remote sensor
3. 4. channel turning/ cursor movement
5. 6. volume adjustment/ parameter adjustment
7. The lid, to uncover it to show the card slot which is used to be inserted a card. Make the side of card with metal slice downwards when inserting the card

## REAR PANEL



1. plughole, infrared line. To insert the inserting terminal of infrared line with a sensor into this hole. If so, you can remote the receiver either by the local or by the infrared sensor
2. interface ASC. To exchange data with the outer
3. 4. terminals of audio signal output. right/ left. To be linked with a TV set or an audio amplifier
5. terminal, video signal outout. To be linked with the video terminal on a TV set
6. interface, TV SCART. To couple this with which on a TV set. This interface owns both the audio and the video signals the same time
7. terminal, satellite signal loop out. To link with another receiver to form the loop connection
8. terminal, satellite signal input. To link with the terminal that comes from the satellite antenna
9. plughole, power inserting. to be inserted with the terminal of DC power that comes from the adaptor

## REMOTE CONTROL KEYS

It's recommended to operate each function of the **STB** by using the key on the remote control. Please read this section to lend itself to advance your understanding of the function of the **STB**



**POWER**

**FAV**

**SAT**



**EXIT**

**MENU**

**Number 0-9**

**INF**

**ZOOM**

**EPG**

**RCL**

**IMAGE**

Non-menu: to mute the audio output

To instruct the unit to enter the standby mode

Non-menu: to display the menu of **FAVORITE CHANNEL Fav n** (if existing)

Non-menu: to display the menu of **SELECT SATELLITE**

Menu mode: to select or adjust the parameter/ to turn page  
Non-menu: to adjust volume

Menu mode: to move cursor downwards / upwards  
Non-menu: to turn over channel

Non-menu: to return to the previous menu

To enter the **MAIN MENU** interface or return to the program-enjoying status

Non-menu: to choose the channel

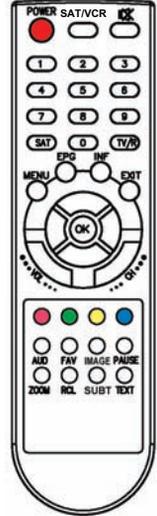
Non-menu: to display the information bar

Non-menu: press the key to appear one rectangle, use key <>,▲/▼ to deform, press **OK** key to enlarge the opting area and repress any key to restore

Non-menu: to show the channel's EPG data

Non-menu: to switch the channel between the present and the last (recall)

Spare



**AUD**

Non-menu: to select the audio channel

**SUBT**

Non-menu: to display the caption (subtitle) of the present channel (if existing)

**OK**

Non-menu: to show the stored channel list, menu mode: to confirm the operation

**PAUSE**

Non-menu: to instruct the scene between the active and the inactive (only on the TV status is effective) (still)

**TEXT**

Non-menu: to display the information of graphics context (teletext)

**VOL**

Non-menu: to adjust volume

**CH**

Non-menu: to change channel

**TV/R**

Non-menu: to change the program mode between TV and radio

**SAT/VCR**

Spare

## PRECAUTIONS ABOUT BATTERIES

Improper use of batteries may cause corrosion or fluid leakage. Please observe the following instructions for the safe use of batteries

1. Do not mistake the polarities of batteries
2. Never leave dead batteries in the remote control
3. Remove batteries from the remote controller it is not going to be used for a certain time
4. Do not attempt to disassemble, short-circuit, heat, recharge or throw the batteries into the fire source
5. Do not use new batteries and old one together, or which is different type
6. Wipe away any electrolyte fluid inside the remote controller, and insert new batteries

## PREPARATION OF REMOTE CONTROLLER

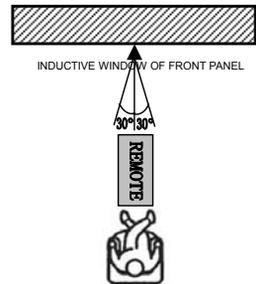
Load the batteries to the groove of the remote controller and then enable you to operate the native

1. Open the lid
2. Load the batteries (AAA type) and attend whether the anode and cathode of battery are corresponding to the polarity indicated on the remote controller
3. Close the lid

## OPERATION SCOPE OF THE REMOTE CONTROLLER

Make the controller toward the inductive window of native and then press the keys

1. Distance: about seven meters in front of the inductive window
2. Angle: about 30 degree right or left refer to the frontispiece of the native's front panel



## USEFUL PROMPT

- To prolong the useful life of this machine, the interval of the continuous switching action must be above one minute
- The parameter of the using power source should be accordance with which indicating on its rear panel, otherwise the machine will work improperly and even be ruined. Use the attached adaptor for power supply
- When the picture that the unexpected non-responsendency happening, please turn on the machine again
- To maintain the suitable antenna installation position, the proper antenna installation angle, adequate antenna earthing, the normal antenna anti-interference measure; and should keep the earthing of the outdoor antenna separating with the indoor equipment's

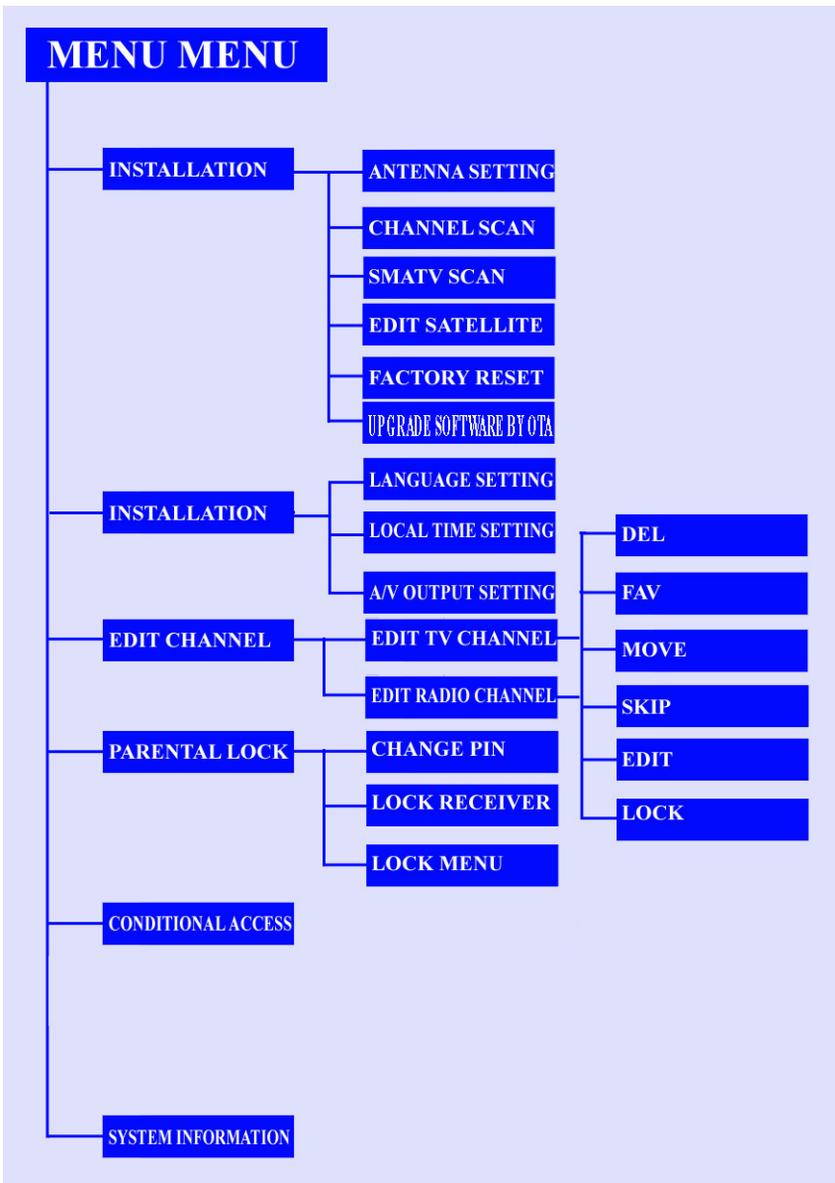
## SYSTEM CONNECTION

- Connect the **TV Scart** interface or the video terminal of this machine with the corresponding interface or terminal of TV set
- Adjust the direction of the dish according to the antenna signal level of info bar displaying on the screen
- Connect **F** terminal to both ends of the cable, one end to **LNB** of satellite antenna and the other end to "ANT IN" input terminal of this unit
- Please make sure that the **F** terminals are connected well
- Do not bind or bundle antenna cable with power line together in case influencing the reception
- Insert the infrared component when necessary, if so, the same time, the remote sensor and the sensor of infrared component can both work

## POWER ON

- Plug the terminal of power **DC 12V** that comes from the adaptor into the power plughole of this local to get the power connection
- Press the **[POWER]** key on the remote control to the remote receiving window of the device or the standby key on the local, which enters its standby mode  
Re-press the key, the device recovers to its normal
- When the receiver is staying on the standby mode, the indicator lights up

## MENU TREE



## INSTALLATION

Press the **MENU** key on non-menu mode and the image shows as

Press the [red key] repeatedly to alternate the type of language



Move the cursor to the **Installation** menu tape and press the **OK** key, the image shows as



### Antenna Setting

Highlight the instruction [LNB Index(1..8)], press the </> key to opt one correct type, or, further,

Light the **LNB Freq Type** to select one suitable preinstalled parameter (**C Band, Single Sol., Ku Band, Universal**)

or, pitch on the **User Defined** to install the **LNB Freq Low** and **LNB Freq High** parameters according to the value of

tuner on the antenna by forcing down the digit-keys. Press the OK key to display the Warning dialog box to save or cancel the parameter installation by choosing the YES or NO instruction.

E.g, provided that there have parameter of [local oscillation] indicating as 5.15GHz, then you should set the [LNB Freq Type] as [C Band, LNB Freq Low 5150 & LNB Freq High 5150]; provided that the indicating parameter is 10.75GHz, then you should set the [LNB Freq Type] as [Ku Band, LNB Freq Low 10750 & LNB Freq High 10750]

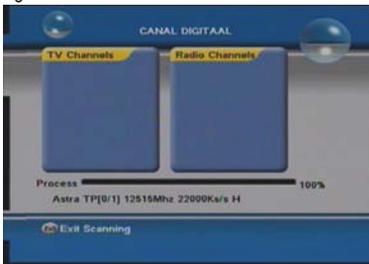
Light the DiSEqC tape to opt the suitable port (port1, port2, port3, port4, Motor, None) through pressing the </> key. The port must be same to the actual satellite signal inputting terminal

Attention:

LNB Power: Single mode: keep the status on "on"

Loop situation: keep the status of the machine which connected the satellite signal on the "on" and others on the "off"

Press the EXIT key to return to the FAST SCAN interface. After setting the LNB parameter, move the cursor onto the instruction [Start Scan], press the key [OK] to commence the process of scanning. After the process, the machine will save all the scanned channel and return the interface to the program-watching's



Channel Scan: light the second tape [Channel Scan], press the key [OK] to enter

Light the first instruction [Satellite], press the </> key to choose one the satellite or press the OK key to display the satellite bar to pick. If the type of the DiSEqC in the ANTENNA SETTING is set on motor, then the instruction [Motor Position] owns the selectivity. Press the </> key to set

=>E: to drive the dish eastwards

=>W: to drive the dish westwards

light the Scan Type, In which: ALL, FTA, Scrambled: ALL: to scan all the channels in the selecting satellite; FTA:

to scan the channels, which belong to the [Free To Air]; Scrambled: to scan the scrambled channel

NIT Search: to scan the channels, which are, belong to the network

Light the Scan Mode: Sat: to scan the channels in the selecting satellite; TP: to scan the channels on the present

TP; Manual: to scan the channel by operator

Finish all the above operation; it is time to scan the channels,

if the scan is rescan on **Sat**, there will appear a

**"warning"** dialog box: **YES**, to rescan; **NO**, to cancel

The scanning interface shows us as next page

Finish scanning, if the channel has been stored then the interface returns to the program-watching's



## SMATV SCAN

Enter **SMATV Setting** submenu, the image shows as:

**SMATV** refers that several users share the same antenna.

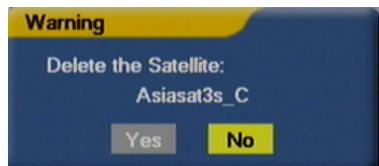
Connect the machine to the **SMATV** network and input the symbol rate of the transponder. Move the cursor to the fifth strip and press **OK** key to start the scanning.



## EDIT SATELLITE

Light the **Edit Satellite** tape and force down the **OK** key to enter (image, next page)

**Del:** Press the **red key**, the dialog box with **"warning"** display, force down the **"Yes"** instruction to delete and the **"No"** to abandon



**Edit:** press the [green key], the dialog box with "Edit Satellite" appears. Light the **Satellite** instruction, press the **OK** key to display the soft-keyboard (usage)

Press the ▲▼, </> key to move the cursor and the **OK** key to confirm the input

Use pressing the **CAPS** instruction to switch the letter state between capital and lowercase

Use pressing the **NUM** and **CAPS** instructions to switch the character mode from letter to digit or special symbol

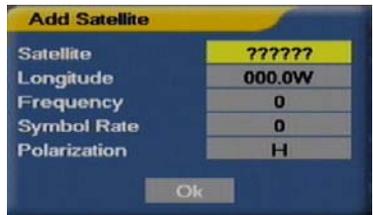
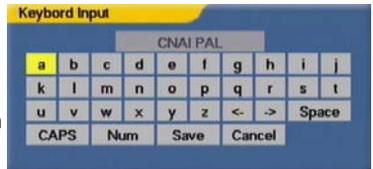
The <- & -> instructions are to cancel the wrong input for the correct one

After inputting, use pressing the **Save** instruction to complete the renaming

Light the **Longitude**; press </> key to change or, the **digit keys** to modify the parameter

**Add:** press the [yellow key] to display the dialog box with "Add Satellite". Light the **Satellite** instruction, press the **OK** key to display the soft-keyboard to accomplish the rename; light the **Longitude, Frequency, Symbol Rate, Polarization** instructions, use forcing down the **digit-keys** or pressing the </> key to complete the parameter

After above operation, press the **OK** key to finish the adding



## EDIT TRANSPONDER

press the **OK** key on one satellite name in the **EDIT SATELLITE** interface to enter the **EDIT TRANSPONDER**, all the stored transponder parameters will be listed as the image

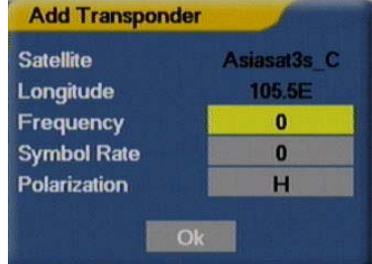
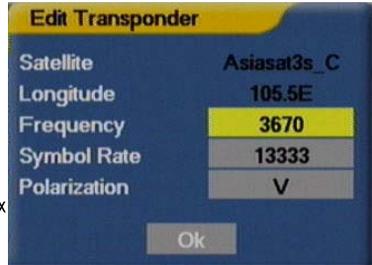
1. **Del:** refer to the corresponding description of EIDT SATELLITE
2. **Edit:** press the [green key] to display the window with "Edit Transponder". Press the **digit-keys** to fill



the parameter value of **Frequency** and **Symbol Rate** or, press the </> key to switch the polarization of **Polarization**.

Press the **OK** key on the **Ok** instruction to accomplish the transponder edit

3. **Add**: press the **yellow key** to display the dialog box with "**Add Transponder**". Press the **digital** keys to fill the parameter value of **Frequency** and **Symbol Rate** or the </> key to switch the polarization of **Polarization**. Press the **OK** key on the **Ok** instruction to accomplish the transponder adding



## FACTORY RESET

**Attention:** all the installation and parameter former set will be cleared completely !



## UPGRADE SOFTWARE BY OTA

On [ADVANCED INSTALLATION] menu, highlight the instruction [Upgrade Software by OTA], press the [OK] key to enter its submenu shows as right side the data that most user would use have set already. What do most user need to do is just highlighting the instruction [Start Upgrade] directly and then press the key [OK] to commence the process of updating

Note, after starting upgrade, the machine would reboot to perform the rest of upgrading



## USER SETTING

Return to the **INSTALLATION** interface, light the second tape and enter its sub-menu



Light the **Language Setting** and press the **OK** key to enter its sub-menu, the picture shows

Besides, Audio & Subtitle Language can be set



Light the **Local Time Setting** and enters its sub-menu:

**GMT:** the Greenwich Meantime-central Europe time

**Selected Time Zone:** to choose the appropriate location

**Summer Time:** daylight saving time

**Time Offset:** to modify the time

What the **Current Time** appears is the synchro-time which is sent by the satellite signal



Light the **A/V Output Setting** menu strip and enter its submenu (picture, next page)

**Aspect:** use the </> key to select the window style (4:3; 16:9)

**Delay Time:** use the </> key to select 2-7second, always etc.; the magnitude of value decide the length of time of channel info tape to stay on the screen when switching the channel.

Always: the instruction means the info strip will stay on the screen until press the **EXIT** key when switching

**Transparency:** use the </> key to modify the value and the magnitude of it decide the transparency degree of menu

**Color:** to select the suitable **Color** system



## EDIT CHANNEL

Light the **Edit Channel** tape and force down the **OK** key, the image shows as:



## EDIT TV CHANNEL

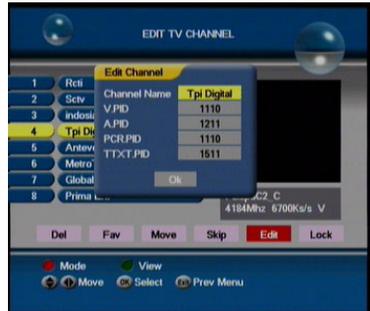
Light **Edit TV Channel** and enters its interface:

Press the **[red key]** repeatedly to change the mode and which will be shown on the image correspondingly, the modes include: **Del**, **Fav 1-4**, **Move**, **Skip**, **Edit**, and **Lock**

1. **Del:** use pressing the ▲/▼</> key to select one showing channel, press the **OK** key to display one dialog box with "Warning" phrase, use the "YES" or "NO" to confirm or exit
2. **Fav:** when the **Fav** character is highlighted, press the **[yellow key]** to opt one **Fav** category, use pressing the **OK** key to add the "heart" symbol on the tail of channel name and to release the symbol through repressing the key. The symbol shows that the channel has been added in the present **Fav** mode. The same operation in turn, to finish the rest of the three **Fav** Modes



3. **Move**: when the **Move** character is highlighted, press the ▲▼ key to light one channel, press the **OK key** to dim it, press the ▲▼ key to move the channel to the suitable location and press the **OK key** once more to release
4. **Skip**: when the **Skip** character is highlighted, press the ▲▼ key to select one channel, press the **OK key** to mark the lighted channel and repress the **key** to unmark. The marked channel name will be skipped over when switching the channel in the program-watching status
5. **Edit**: When the **Edit** character is highlighted, press the ▲▼ key to select one channel and press the **OK key** to display the dialog box with **"Edit Channel"** . Use operating the soft-keyboard, the **digital** keys on the remote to complete the editing. Press the **OK key** on the **Ok** instruction to accomplish the edit
6. **Lock**: when the **Lock** character is highlighted, press the ▲▼ key to select one channel, press the **OK key** to add a **"lock"** symbol on the tail of channel, before entry needs the correct present code. Repress the **OK key** to release the **"lock"** symbol. The symbol means that the channel has been locked and the operator has to input the correct code when it will be watching



Note: the instructions of Del, Move and Edit are **null** on the programs of the canal digital

## EDIT RADIO CHANNEL

The same operation as above-described

## PARENTAL LOCK

Return to the **MAIN MENU** interface; light the **Parental Lock** and force down the **OK key** to enter its submenu (entry needs code, the original code is **0000**)

**Change PIN**: light the **Change PIN** instruction; Press the **OK key** to show the dialog box in turn. Which are **Current PIN**, **New PIN**, and **Verify PIN**. Phrase **"PIN changed!"** appears mean that the **PIN** has been modified successful

**Lock Receiver**: light the **Lock Receiver** instruction; press the </> key to switch the status between **Free** and **Locked**. When the receiver has been locked, turning on the unit needs code input

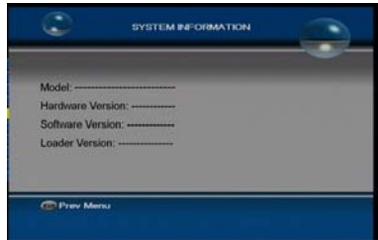


**Lock Menu:** same as above-described. When the menu has been locked, shifting from program-watching to menu status needs code input



## SYSTEM INFORMATION

To show the information of unit model, software version. And so on.



## SOMETHING ELSE

### EPG

On the program-enjoying status, press the key [EPG] to display the menu of [EPG INFO]

press the key [UP/DOWN/LEFT/ RIGHT] to select one channel

press the [red key] to display the present information, press the [green key] to display the information of the next time-section. press the [yellow key] to display the details, press the [blue key] to display the choosing channel's weekly information ( press the key [LEFT/RIGHT] to switch date)



### INFORMATION BAR

On the program-enjoying status, press the key [INF] to display the information bar

The bar includes channel name, signal Quality and Strength, date, the parameter of the transponder including the present channel, and so on. Repress the key, to display a box containing the detailed information, if existing, press the LEFT/RIGHT key to look the present/ following information



## SPECIFICATION

<p><b>Tuner</b></p> <p>Input Frequency Signal Level LNB Control LNB Power &amp; Polarization</p>	<p>950-2,150 MHz -25dBm to -65dBm (75Ω) DiSEqC1.0/1.2 22KHz 13V/18V (Max. 400mA)</p>
<p><b>Channel Decode</b></p> <p>Demodulation Input Symbol Rate</p>	<p>QPSK (SCPC, MCPC) 2-40MSPS</p>
<p><b>Video</b></p> <p>Profile Level Output System Output Terminal Output Level</p>	<p>MPEG-II <i>MP@ML</i> NTSC / PAL TV Scart / RCA 1Vp-p (75Ω) (RCA)</p>
<p><b>Audio</b></p> <p>Audio Decoding Sampling Rate Freq response Output Level</p>	<p>MPEG-II layer I &amp; II 32/44.1/48KHz 20Hz – 20KHz Adjustable (600Ω unbalance)</p>
<p><b>Working condition</b></p> <p>Power supply voltage Power consumption Temperature Humidity Volume Weight</p>	<p>DC: <b>12V</b> About 20W 0°C - 40°C 10%-90% 218X166X40 mm (L/W/H) Approx. 2.0Kg</p>

## TERMS (reference)

### DiSEqC (Digital Satellite Equipment Control)

A standard through which it is possible to let a DiSEqC compatible receiver send a signal via the RF cable to a switching device to switch between different LNBs or dishes. The DiSEqC uses the 22KHz signal to control the switching device.

### EPG (Electronic Programme Guide)

A electronic program guide (EPG) that comes with the broadcast to a particular satellite, note that every station fills the EPG differently or not, so differences in the EPG are not necessarily receiver errors.

### Frequency

The number of cycles or events per one second, which is expressed in the unit of Hertz

### FTA (Free-To-Air)

An unscrambled broadcast, which you can view without additional payments to a service provider.

### Hi-Fi (High Fidelity)

The characteristics of audio devices that can perform all the audio frequencies to the human, whose range is from 16Hz to 20KHz, uniformly from the low frequency to high frequency. Sometimes it is used to indicate high quality of an audio device such as CD player, etc.

### LNB (Low Noise Block)

An electronic unit mounted on the satellite antenna. It receives the signal reflected by the dish and converts them to signal that can be used by this product.

### OSD (On Screen Display)

The function that displays the information about the monitor that the user needs or has to know on the screen directly. OSD information probably includes brightness, contrast, tuning, RGB adjustment, screen size, positions or other instructions else, etc.

### OTA (Over The Air)

Means that software downloads where the manufacturer reserves the right to decide when and where to release them through satellite system.

### RF (Radio Frequency)

Frequencies occupied by radio waves of the total frequency range of electromagnetic waves.

### Transponder

In communications, a device that receives and retransmits signals. In satellite communications the received signals are amplified and retransmitted at a different frequency

### FEC

Error correction forwards.

## PACKING LIST

ITEMS	Qty.	REMARK
DIGITAL SATELLITE RECEIVER	1	
INSTRUCTION MANUAL	1	
REMOTE CONTROL	1	
SCART CABLE	1	
CELL	2	
ADAPTOR	1	

**NOTE:** Any modification will not be noticed in advance. Our company reserves the rights for the explanation to the discrepancy