

DIGITAL SATELLITE RECEIVER OPERATION MANUAL

DVB
Digital Video
Broadcasting

DATACOM DT-103

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

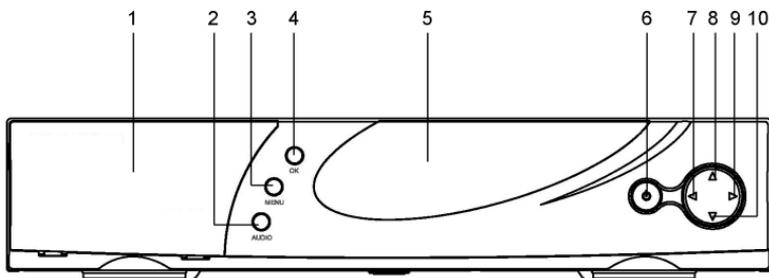
TO REDUCE THE RISK OF ELECTRIC SHOCK

DO NOT REMOVE COVER (OR BACK)

NO USER SERVICEABLE PARTS INSIDE

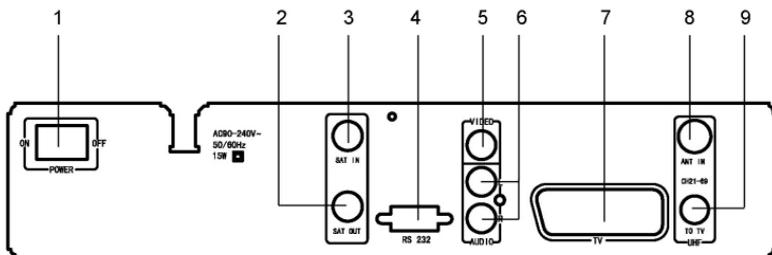
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

FRONT PANEL



1. Card slot (spare)
2. **AUDIO**: to choose audio channel
3. **MENU**: Menu entry/ exit button
4. **OK**: menu confirmation/ channel list
5. Remote sensor/ status indicator LED-displaying window
6. Standby switch
7. Volume adjusting decrease/ key leftwards
8. Channel turning forwards/ key upwards
9. Volume adjusting increase/ key rightwards
10. Channel turning backwards/ key downwards

REAR PANEL



1. Power switch
2. Satellite signal output terminal
3. Satellite signal input terminal
4. Serial data interface (option)
5. Video signal output terminal
6. Audio signal output terminal(R/L)
7. TV Scart (option)
8. RF signal input terminal
9. RF signal output terminal

REMOTE CONTROLLER KEYS

Advice operates each function of the **STB** by using the button on the remote controller. Please read this section to help advance your understanding of the function of the **STB**

MUTE

Non-menu: to mute the audio output



To instruct the unit to enter the standby mode

FAV

Non-menu: to select the favorite installed channel

SAT

Non-menu: to show satellite list

-/+

Menu mode: to select or adjust the parameter
Non-menu: volume decrease/increase



Menu mode: to move cursor upwards/ downwards
Non-menu: to turn the channel forwards or backwards

EXIT

To return to the non-menu (program-enjoying) mode

MENU

To enter the **Main Menu** interface or return to the last grade interface

Number0-9

Non-menu: to choose the channel

SCAN

To show the **Select Satellite** interface

ZOOM

Non-menu: Punch once, punch +/-, ▲ / ▼ to move the selecting area, punch the **OK** key to magnify the area and punch the key once more to recover to the normal

EPG

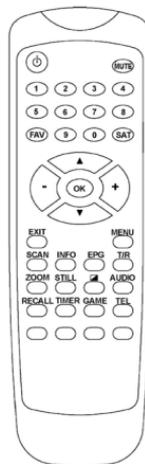
Non-menu: to show the EPG Infor



Non-menu: to show the image's brightness, contrast and color

AUDIO

Non-menu: to select the audio channel



RECALL	Non-menu: to switch the channel between the present and the last
TIMER	Non-menu: to enter the timer editing function
T/R	Non-menu: to switch the channel mode between TV and Radio
OK	Non-menu: to show the stored channel list, menu mode: to confirm the operation
INFO	Non-menu: to show the present channel's information
GAME	Non-menu: to enter Game interface for entertainment
STILL	Non-menu: to switch the state of scene between activity and inactivity

PRECAUTIONS ABOUT BATTERIES

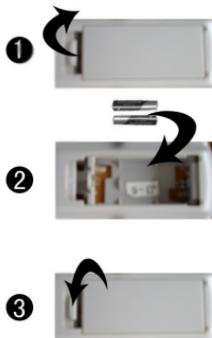
Improper use of batteries may cause corrosion or fluid leakage. Please observe the following instructions for the safe use of batteries

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

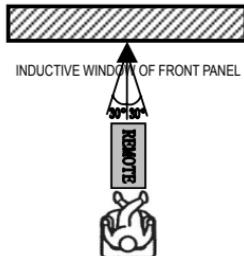
1. Open the lid
2. Load the batteries (AAA type) and attend whether the anode and cathode of battery are corresponding to the polarity indicated on the remote controller
3. Close the lid



OPERATION SCOPE OF THE REMOTE CONTROLLER

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

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



USEFUL PROMPT

- To prolong the useful life of this machine, the interval of the continuous switch action must be above one minute
- The parameter of using power source should be squared with which indicated on the rear panel, or the machine will work improperly and even be ruined
- When the picture that the unexpected non-responsivity happening, please turn on the machine again
- To maintain the suitable antenna installation position, 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

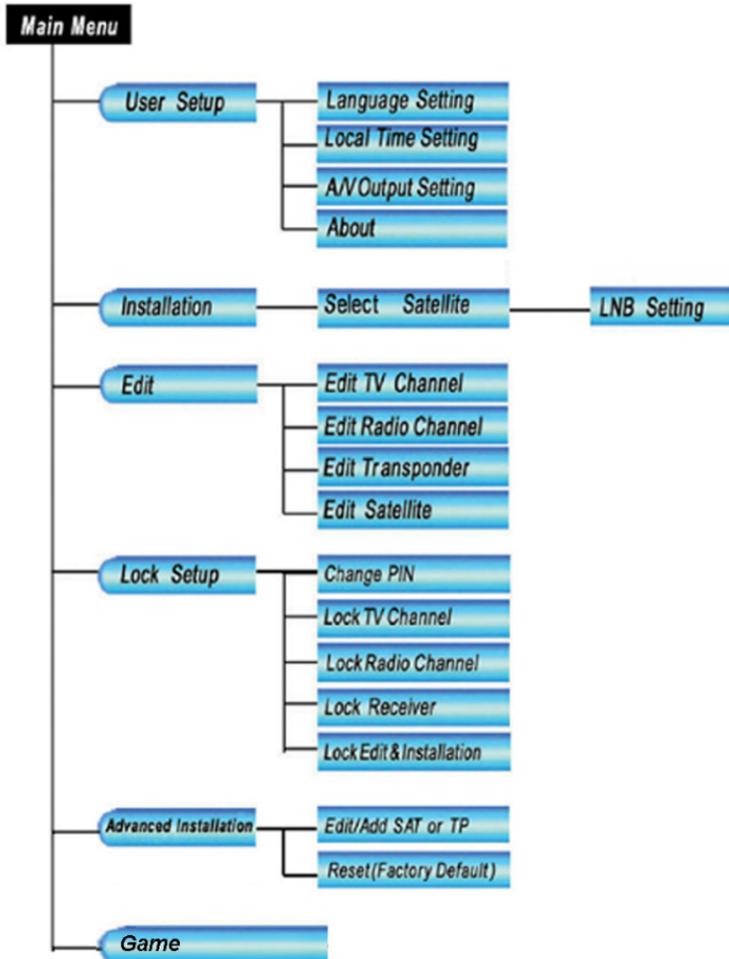
SYSTEM CONNECTION

- Connect the **AUDIO**, **VIDEO**, and **TV Scart** output terminals with the corresponding terminals of the TV set
- Adjust the direction of the dish according to the antenna signal level displaying on the screen
- Connect the **F** terminal to both ends of the cable, one end to the **LNB** terminal of satellite antenna and the other end to "**SAT IN**" input terminal of this unit
- Please make sure that the **F** terminals are connected well
- The **Serial data interface** is used to upgrade the software or to enrich the date bank of the machine via the manner of pc to pc or box to box
- Do not tie the cable line with the power line in case influencing the reception

POWER ON

- Plug the machine and punch its power switch to keep the "**ON**" status, the unit enters its normal mode
- Punch the **standby** key on the remote controller to the remote receiving window of the machine or the key on the set, which enters its standby mode and the "**standby**" character appears on the screen for seconds. Re-punch the key; the unit recovers to its normal
- If the channel has been locked, the lock indicator lights up

MENU TREE



INSTALLATION

Punch the **MENU** key on the program-enjoying mode and the image shows as



Move the cursor onto the **Installation** menu tape and punch the **OK** key, the image shows as:



Punch the **OK** key to enter the lighting satellite name and the interface shows its transponders as:

Punch the **red** key and **▲▼** key to select the transponder or the transponders and then scan, punch the **blue** key to scan the channels in the **Satellite** interface (next page)



Punch the **yellow** key to delete the lighting transponder tape

Punch the **blue** key to enter the **Satellite** menu interface (next page):

Punch the **MENU** key to return to the **Select Satellite** interface, punch the **red** key and **▲▼** key to select one or more the satellites and punch the **blue** key to enter the **Satellite** interface (right side) to scan the chosen satellite or satellites

Move the cursor onto the **Satellite** tape, punch the +/- key to select the selecting satellite (note: only two or more the satellites in **Select Satellite** interface have been selected, this item has the selectivity) name which above-mentioned Move the cursor onto the **LNB type** tape, therein, eight types, punch the +/- key to select the suitable one or, punch the **OK** key to enter the **LNB setting** interface, the image as:



Light the **LNB index (1.8)** to choose one type name (for example, **Type 1** is as indication)

Light the **LNB Freq. Low** and **LNB Freq. High** menu tape, punch the +/- key to install the parameter by referring to the frequency value of tuner on the antenna or the **digit-keys** to input the digits directly, finish installing, force down the **OK** key to save the installation



Light the **DiSEqC** tape to select the port through pressing the +/- key; the **DiSEqC** parameter of the port must be consistent with the actual input terminal of the present satellite antenna

Attention:

LNB Power: Single machine situation: keep the status on the "on"

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

Punch the **MENU** key to return the interface to the **Satellite** one as above, light the **TP Freq.**, punch the +/- key to choose the suitable parameter of **TP Freq.**, **TP Polar**, **TP SR** or, punch the **digit-keys** to input the correct value which what we according to are either **Quality** or **Level**

tapes show together a certain length and whether the lock indicator lights up simultaneously.

Light the sixth tape; punch the +/- key to switch the status between "on" and "off", punch the **OK** key to enter the **motor** interface when the "on" status is being chosen and the interface shows as

Light the seventh instruction tape; punch the **OK** key to reveal a inquire window with a sentence "ARE YOU SURE?" Use pressing the **red** key to confirm and the **green** one to give up

Light the fourth instruction tape to punch the +/- key to choose one of the three instructions: **Off**, **West**, and **East**. Punch the **OK** key to confirm. Therein:

1. **West**: to limit the westward limit of the dish-adjustment
2. **East**: to limit the eastward limit of the dish-adjustment
3. **Off**: to give up the limitation set

Light the **Position auto**, **Move dish**, **Step move**; the functions of these three instructions are to adjust the direction of dish, hereinto:

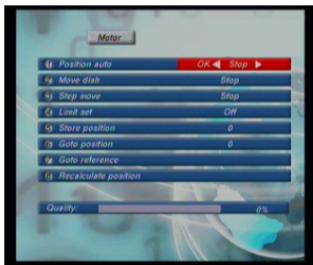
1. **Position auto**: the drive instruction will not be stopped until to punch the **OK** key
2. **Move dish**: to drive the dish to adjust a relative biggish range
3. **Step move** instruction is to modify a relative minor range

What we according to of adjustment is the **Quality** tape show its longest length, in which:

- =>**E**: to drive the dish to the east direction
- =>**W**: to drive the dish to the west direction
- =>**Stop**: to stop the adjustment

After adjustment:

1. Light the fifth instruction tape **Store position**, force down the **digit-keys** to input the adjusted situation (position) code and then punch the **OK** key to save the code
2. Light the sixth instruction tape **Goto position**, use input the code digit to drive the dish to the situation where has saved



The function of eighth instruction tape **Recalculate position** is to send an instruction to the motor, and calculate the suitable situation by itself

Punch the **MENU** key to return to the **Satellite** interface to start the scan, there four modes to search the satellite channels, they are: **Auto**, **TP**, **FTA** and **NIT**. In which:

Auto: to scan all the channels in the selecting satellite name.

TP: to scan the channels which in the choosing transponder

FTA: to scan the channels, which are, belong to the free to air

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

For example: punch the **blue** key to search the net channels and the image shows as:

Finish scanning, if the channel has been searched then the machine will auto-save all the scanned channels and turn the image to the program-enjoying mode, or, return to the **Select Satellite** interface



USER SETUP

Force down the **MENU** key on program-enjoying mode, light and then punch the **User Setup** tape, the image shows:

LANGUAGE SETTING

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



Language Setting: punch the +/- key to select the appropriate language. Therein, **Audio Language**: what language is being chosen means which is owning the strongest priority in broadcasting. The function rest with the support of satellite service



LOCAL TIME SETTING

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

GMT: the Greenwich Meantime

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



A/V OUTPUT SETTING

Light the **A/V Output Setting** tape and enters

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 staying on the screen when switching the channel

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

Transparency: use the +/- key to modify the value and the magnitude of it decides the transparency degree of menu



Light the **About** menu tape and punch the **OK** key to enter its sub-menu, the interface shows the model and software of the machine

EDIT

Return to the **Main Menu** interface then light the **Edit** tape and force down, the image shows as:



EDIT TV CHANNEL

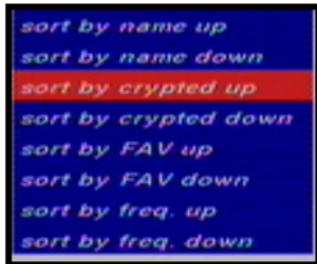
Light **Edit TV Channel** and enters its interface:

Punch the **green** key repeatedly to change the mode and which will be shown on the yellow tape correspondingly, the status includes: **MOVE, FAVOR1-4, SORT, DELETE**

1. **Move**: when the yellow tape shows the "move" character, punch the **yellow** key, punch the **▲▼** key to move the channel name tape to the suitable location and punch the **yellow** key once more to release.
2. **Favor**: when the yellow tape shows "favor1...favor4" character, punch the **yellow** key and punch the **▲▼** key to add the "heart" symbol on the tail of channel name tape, the symbol shows the channel has been added in the present favor mode. The same operation in turn to finish the rest of three favor modes
3. **Delete**: to remove the choosing channel name. Punch the **yellow** key when the yellow tape shows the "delete" word, the window with "YES" and "NO" appears, punch the **red** key to delete or **green** key to give up
4. **Sort**: when the yellow tape shows the "sort" word, punch the **yellow** key, the list which what we according to sort the channels appears, punch the **▲▼** key to choose one suitable instruction to complete the sorting

Forces down the **red** key to switch the list mode between TV and radio

Forces down the **blue** key to show the satellite name list



EDIT RADIO CHANNEL

The same operation as above-mentioned

EDIT SATELLITE

Return to the **Edit** interface and enter the **Edit Satellite** interface the image shows:

Delete: punch the **red** key, the window with "YES" and "NO" Instructions appears, force down the **red** key again to delete the selecting satellite name and the **green** one to give up



Change: punch the **yellow** key, the picture shows:

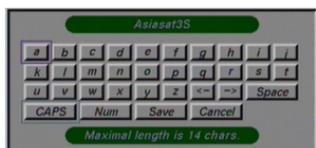
Light the **Satellite** tape and punch the **OK** key to enter the **soft-keyboard** interface:

Use the **▲▼**, **+/-** key to move the cursor and the **OK** key to confirm the input

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

Use **NUM** instruction to switch the mode from letter to digit and special symbol

After inputting, move the cursor onto the **Save** instruction and punch the **OK** key to save the installation



Light the **TP frequency**; punch the **+/-** key to choose the appropriate stored transponder parameter of **TP frequency**, **LNB polarization**, **Symbol Rate** that belong to the selected satellite or, directly, punch the **digit-keys** to complete the value input of TP frequency, LNB polarization, Symbol Rate

Light the **Channel Name** menu tape; punch the **+/-** key to choose the channel's name which belong to the choosing transponder, punch the **OK** key to appear the **soft-keyboard** to rename the channel name which operation just as above-mentioned about **soft-keyboard** introduction. Light the **Video PID**, **Audio PID**, and **PCR** instruction tape and punch the **digit-keys** to input the correct value

Add: return to the **Edit Satellite** interface and punch the **blue** key, the picture shows as:

Punch the **OK** key to reveal the **soft-keyboard** to define the satellite name, finish the definition, input one-group parameter of **TP frequency**, **LNB polarization** and **Symbol Rate**, punch the **OK** key to save the installation and the new satellite will be added meanwhile. Check the added satellite in the **Select Satellite** menu interface pls



EDIT TRANSPONDER

Return the interface to the **Edit** and light the **Edit Transponder** menu tape, the image shows

Delete: punch the ▲▼ key to move the cursor upwards or downwards, punch the **red** key and the window with "YES" and "NO" appears, punch the **red** key to delete it and the **green** one to exit

Punch the **green** key to add the "upward/ downward" symbol on the end of the transponder parameter tape, punch the ▲▼ key to move the tape to the suitable situation and release

Change: refer to the relative introduction segment of **Edit Satellite**

Add: return to the **Edit Transponder** and force down the **blue** key to enter the image:



Punch the **digit-keys** to finish the input of parameter of **TP frequency**, **LNB polarization**, **Symbol Rate**, punch the **OK** key to save the new added transponder and which can be detected in the interface of **Select Transponder** of **Select Satellite**

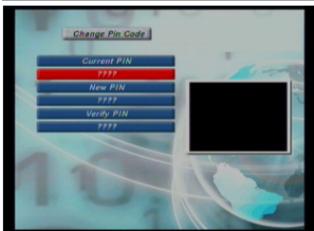


LOCK SETUP

Return the interface to the **Main Menu**, light the **Lock Setup** menu tape and the image shows:

Light the **Change PIN** instruction tape and punch the **OK** key to enter its interface

To realize creating one new private code by this instruction: the default or primary code is "0000". First, input the correct current code and then the new one and verify it. The verified code will become the current one and the information window with "password changed!" phrase flashing on the screen for seconds; the information window shows the operation is successful



Lock TV Channel: return the **Lock Setup** interface and light the **Lock TV Channel** instruction, the image shows
 Punch the **OK** key to enter its interface which is similar with the **Edit TV Channel**, punch the **▲▼** key to select the channel and punch the **yellow** key to add one “**lock**” symbol on the end of installing channel name tape. Just as the right side image indicates. Punch the **yellow** key once more on the locking tape to unlock



Lock Radio Channel: as same as above-mentioned

Lock Receiver: move the cursor onto the forth instruction tape, punch the **+/-** key to switch the receiver mode between locked and free. When the machine has been locked, starting machine from standby or power-on status needs the right code input

Lock Edit & Installation: move the cursor onto the fifth instruction tape, punch the **+/-** key to switch the receiver mode between locked and free, when the mode is locked, enter the sub-menu of **Installation, Edit, etc.** need the right code input

ADVANCED SETTING

Return to the **Main Menu** interface and light the **Advanced Installation** menu, punch the **OK** key to enter its sub-menu and the image shows:



The relative introduction of **Edit/Add SAT/TP** refer to the relative segment in **EDIT**

Move the cursor onto the **Reset (Factory Default)** and punch the **OK** key, the image shows as

Punch the **red** key to complete the **Reset** instruction

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



TIMER

Punch the **blue** key in the **Main Menu** interface, the interface enters **TIMER** function, the image shows as

The tape on the top shows the present date and time sent by satellite

Punch the **digit-keys** directly to modify the showing date and time, hereinto:

Input 12 digits is to modify either the date or the time

Input 8 digits is to modify the date only

(All the digits are 0 is useless)

The **red** key is to delete the timer instruction tape, and instead, the **green** key is to add one. Punch the **▲▼**, +/- key to move the cursor, punch the **yellow** and **blue** keys to adjust the parameter of the timer instruction



GAME

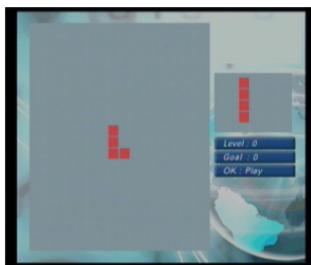
Punch the **GAME** key in the program-enjoying state to enter the game playing, there three kinds of game to be provided for entertainment: **Snake, Gobang, Tetris**

Use pressing the **▲▼** key to select the game tape and **OK** key to enter which interface

For example, to choose the Tetris:

Punch the **▲▼** key to adjust the game level and the highest grade is 7, then punch the **OK** key to enter the playing interface

Punch the **▲** key to deform the shape, the + key to move the shape to the right direction, the - key to the left, the **▼** key to accelerate the falling and the **MENU** key to pause the action, the **OK** key to react



TELEPHONE DIRECTORY

To punch the **green** key in the **MAIN MENU**, the interface enters the **Telephone directory** one

Punch the **green** key to add the telephone list, and instead the **red** key to remove which.

Punch the **+/-, ▲▼** key to redren the item of the telephone list which as **Name, Tel.No.(Office), Tel.No.(Res), Mobile No.** to edit, Therein:

1. Use the **soft-keyboard** to complete the name definition
2. Punch the **digit-keys** to complete input of the rest three items



FEATURE

Advanced Feature

- Multi-Mode auto search satellite programs (AUTO/FTA/NIT/TP)
- Maximum storage Channels, Transponders and Satellites
- 4 users defined Favorite groups with user-friendly editing functions
- Teletext by VBI insertion
- Real-time antenna signal strength indicating
- Multi-satellite/transponder searching at one time
- ZOOM / EPG / Recall / Timer / Still Picture

Basic Feature

- Free-To-Air Compatible
- High Sensitiveness, Low Eb/No Tuner
- LED window
- Fully DVB-S/MPEG2 Compliant
- SCPC/MCPC, C-band/Ku-band Compatible
- Multi-Language OSD
- Automatic PAL / NTSC Detection
- Satellite signal loop through
- RF output, RF in, AV output, TV Scart
- Convenient software up-grade (DFU&DFA) – PC to Receiver, Receiver to Receiver
- 256 color graphic menu
- Powerful edit abilities (rename, add, delete, move, sort) channels, transponders & satellites edit
- Timer function
- Editable TEL Directory
- Game entertainment offering

Note:

Rest with the availability of satellite service

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

FCC

Error correction forwards.

SPECIFICATION

Tuner	
Input Frequency	950 - 2,150 MHz
Signal Level	-25dBm - -65dBm (75Ω)
LNB Control	DiSEqC1.0/1.2 22KHz
LNB Power & Polarization	13V/18V (Max. 400mA)
Channel Decode	
Demodulation	QPSK (SCPC, MCPC)
Input Symbol Rate	2-40MSPS
Video	
Profile Level	MPEG-II <i>MP@ ML</i>
Output System	NTSC / PAL
Output Terminal	RCA, TV Scart
Output Level	1Vp-p (75Ω) (RCA)
Audio	
Audio Decoding	MPEG-II layer I & II
Sampling Rate	32/44.1/48KHz
Freq response	20Hz - 20KHz
Output Level	Adjustable (600Ω unbalance)
Working condition	
Power supply voltage	AC: 90-240V 50/60 Hz
Power consumption	About 15W
Temperature	0°C - 40°C
Humidity	10% -90%
Size	300X210X64mm(L/W/H)
Weight	Approx. 2.0Kg

PACKING LIST

ITEMS	Qty.	REMARK
DIGITAL SATELLITE RECEIVER	1	
INSTRUCTION MANUAL	1	
REMOTE CONTROL	1	
AV CABLE	1	
CELL	2	AAA

NOTE: Any modification will not be noticed in advance. Our company reserves the rights for the explanation of the difference